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Low speed. High speed. And any speed in between. Gates has your total synchronous belt drive system solution!

Synchronous belt drives are being used more extensively than ever for the transfer of power from one shaft to another, multiplication of torque, speed reduction or increase, and synchronization of shaft operations.

Gates, the world's recognized leader in synchronous belt technology, continues to meet all your needs for synchronous belts, sprockets and bushings across the broadest range of industry applications. Choose from a full line of quality products featuring leading-edge technologies that deliver the advantages you're looking for:

- Reduced downtime
- Reduced over-all drive cost
- Reduced drive package size
- Increased component life
- Increased performance
- Energy savings
- Reduced acquisition costs
- Reduced transaction costs
- Increased drive design options

New, improved synchronous belt lines.

The latest innovations in Gates synchronous drive systems are two redesigned and reengineered belt and sprocket lines. They are the clear winners in overall cost, drive selection options and performance when compared to any other belt drive products on the market today.

PowerGrip®GT®2

The Racehorse. This is the performance choice for a wide variety of high-speed (above 500 rpm) drive applications. PowerGrip GT2 will deliver more power at a lower overall cost than any other rubber synchronous belt drive system available.



Poly Chain® GT®2

The Workhorse. This is the optimal choice in meeting your needs for low-speed (below 500 rpm), high-torque drive applications. The powerful Poly Chain GT2 polyurethane belt drive system will outperform roller chain drives and any rubber belt drive system on the market today, delivering the lowest-cost belt drive system available for low-speed, high-torque applications.

And we can prove it!

Taper-Lock® sprockets & bushings.
Poly Chain GT2 and PowerGrip GT2 belt drive systems feature Taper-Lock bushings. Advantages of the Taper-Lock system include:



- Industry-proven robustness
- True running, concentric
- Extensive use in roller chain sprockets
- Easy installation and removal
- Allows compact sprocket hub designs
- Short length-thru-bore dimensions
- Flush mount with no protruding hubs
- Installs with less axial sprocket movement than other bushing systems

Made-to-order sprockets.
Gates Made-to-Order (MTO)
Metal Department supports
synchronous MTO sprockets with
90% of Requests For Quote (RFQ)
provided within 48 hours and 84%
of quotes provided within 24
hours. Quoted delivery dates
are met at a 97% rate and most
deliveries are made within four
weeks. Call 800-709-6001
for more information.

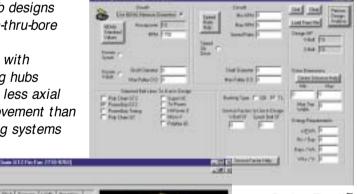
Gates Compass® CD-ROM: selection, maintenance, and design tool.

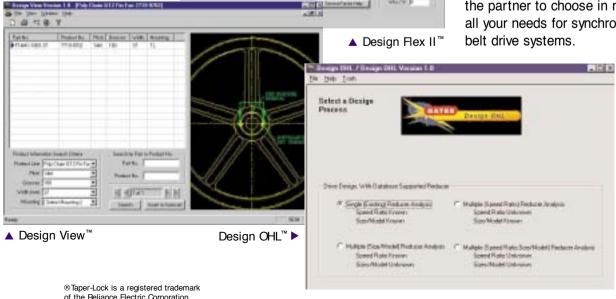
The Gates Compass CD-ROM is a powerful tool offering a variety of useful information and features. It makes choosing the right drive system fast and easy. Compass contains *Design Flex™ II, Design View™ and Design OHL™* for invaluable assistance in product selection, drive design, energy savings calculations, installation and system cost savings. The CD also contains eight instructional videos covering topics such as belt drive

troubleshooting, tensioning, safety and installation. The Compass CD-ROM is available through authorized Gates Industrial Power Transmission Distributors.

A partnership commitment. To ensure that you get the synchronous drive systems that are right for your applications. Gates provides the industry's leading support program and the largest distributor network. You get local inventory availability and a single source for all your needs. You also get access to Gates Product Application Engineering Support for unmatched design and problem-solving expertise in every aspect of synchronous drive operation. You're backed by the industry's largest manufacturer's field sales force, voted number one in a recent Selling Power magazine survey. Your Gates representatives are experts in the products they market and provide a variety of in-house and on-site training programs. Nobody is as committed to supporting you as Gates!

It's obvious!
Gates is your total synchronous drive solution.
With industry-leading technologies, a complete line of high quality, top-performing products, and unmatched customer support, it's easy to see that Gates is the partner to choose in meeting all your needs for synchronous belt drive systems.





PowerGrip GT2

The new PowerGrip GT2 drive system combines an innovative rubber compound with Gates' industry-leading belt engineering technology. The result is a belt that provides extraordinary load-carrying capacity in high-speed applications (above 500 rpm). It transmits up to 200% more power than previous PowerGrip GT, PowerGrip HTD® or other first generation curvilinear synchronous belts. Because of the increase in horsepower, size for size, PowerGrip GT2 allows for the design of belt drive systems that are small and compact.

With over 42,000 possible drive combinations available, there's no need to over-design your drives. And with Gates as your system supplier, inventory, transaction and acquisition costs can be significantly reduced.

If you are using PowerGrip GT, PowerGrip HTD or similar curvilinear first generation synchronous belts, you can lower your costs by replacing them with PowerGrip GT2. The increased capacity of Power Grip GT2 allows the use of the next narrower belt size than the current size with no sacrifice in service life. Whether it's a new or existing application, the PowerGrip GT2 belt is the only belt you need for your high-speed drive applications.

PowerGrip GT2 Construction Features

- 1. Tensile cord A fiberglass tensile member provides high strength, excellent flex life and high resistance to elongation. The fiberglass tensile member provides greater length stability than competitive belts using aramid tensile members.
- 2. Neoprene backing Strong neoprene is bonded to the tensile member for protection against grime, grease, oil and moisture. It also protects from frictional wear if idlers are used on the back of the belt.

3. Neoprene teeth—High-strength neoprene compound is molded integrally with the neoprene backing. The teeth are precisely formed and precision-spaced to assure smooth meshing with the sprocket grooves, minimizing tooth interference with the mating sprocket. Minimizing tooth meshing interference greatly increases belt life by preventing tooth wear and distortion. Audible drive noise is also minimized.

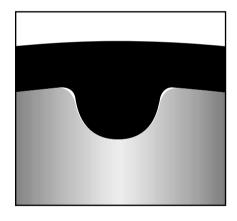
4. Nylon facing —
Tough nylon fabric with
a low coefficient of friction
covers the wearing surfaces
of the belt. It protects the tooth
surfaces and provides a durable
wear surface for long service life.

Advantages of the Gates PowerGrip GT2 drive system: PowerGrip GT2 drives provide positive, trouble-free power transmission and offer many advantages over conventional gears and rubber belt drives.

- Higher capacity
- Improved registration
- Reduced noise
- No lubrication required
- No stretching due to wear
- Corrosion resistance
- Excellent abrasion resistance
- Clean operation
- Long trouble-free service
- Low vibration

The profile fit.

PowerGrip GT2 belts and sprockets were specially designed to work together as a system in providing the best possible performance.



The belt teeth have a deep design for robustness and excellent ratcheting resistance, yet enter and exit the sprocket grooves cleanly with minimal interference. This results in minimal wear and low noise.

The key to the PowerGrip GT2 system is the fit of the belt teeth in the sprocket grooves. The flank

contact area of the belt teeth has been increased significantly over other curvilinear belt drive systems. This greatly increases surface contact area and prevents belt tooth distortion in the sprocket grooves under heavy torque loads. This results in long, troublefree service. The belt tooth and sprocket groove curvatures were also designed to fit closely together with a minimum of backlash. This means more accurate positioning and less lost motion than in other belt drive systems.

Precision registration.

PowerGrip GT2 drive systems provide timing and synchronization accuracy that make for excellent registration. They are ideal for applications where precision is critical, such as robotics, conveyors and machine tools. Gates offers belts in a full range of standard configurations. Custombuilt constructions are also available for individual applications that require maximum performance.

Quiet operation.

The PowerGrip GT2 belt's specially engineered teeth mesh cleanly with sprocket grooves to reduce noise and vibration. Clean meshing results in significant noise reduction when compared to PowerGrip Timing, PowerGrip HTD and some other rubber belts. PowerGrip GT2's high load capacity also allows narrower drive designs, further reducing noise.

The operating noise reduction in comparison with first generation curvilinear tooth belts is remarkable. PowerGrip GT2 belts are made to work hard, yet quietly. Whether or not an application requires low noise levels, PowerGrip GT2 belts deliver a quieter, longer running life — with no sacrifice in performance.

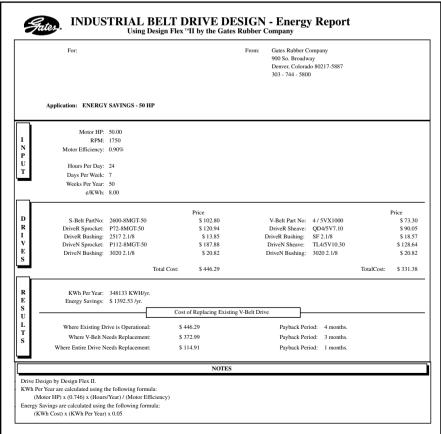
Taper-Lock® sprockets & bushings. PowerGrip GT2 belt drive systems feature a new line of sprockets that have been specially designed to handle the new increased belt power ratings. These sprockets utilize Taper-Lock bushings, a bushing system with an industry-proven track record of robustness and reliability.

Taper-Lock bushings allow easy sprocket installation and removal. Their compact design allows narrow sprocket hubs for compact drive systems. They assure secure sprocket mounting and run true, eliminating any concern for reliable operation at both low and high speeds.



Easier installation and removal

PowerGrip GT2
Energy Savings Calculator.
The sample calculator here
illustrates the energy savings
of a PowerGrip GT2 drive system.
This energy savings program is
available exclusively on the Gates
Compass PT CD-ROM (version
2.0). Use it to estimate energy
savings of a PowerGrip GT2 drive
system in your application. For
more information on Compass
and Gates' Design Flex II drive
design program, contact your
local Gates representative.

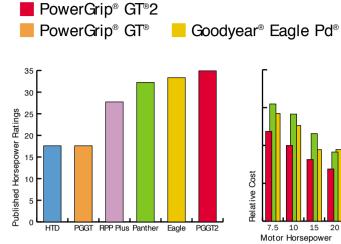


Gates PowerGrip GT2 belts are protected by U.S. patents 4,605,389, 4,403,979, 4,662,863, 5,362,281 and U.S. and foreign patents pending.

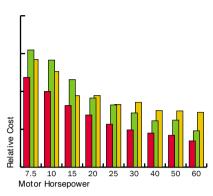
PowerGrip GT2 drive systems provide the lowest initial cost compared to any other high-speed rubber belt synchronous system. *And here's proof!*

RPP® Plus®

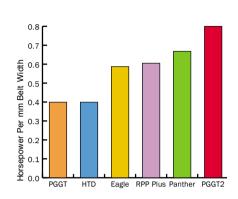
HTD[®]



Published Horsepower Ratings (8mm Pitch, 56 Groove Sprocket, 1750 rpm Motor Speed, 1" Belt Width)



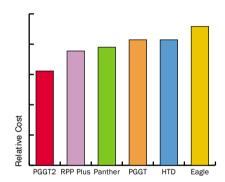
Relative Drive Cost For Motor Horsepowers (1750 rpm Motor Speed, 8mm Pitch)



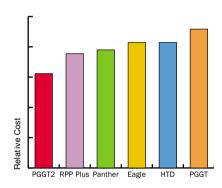
Davco® Panther®

Per mm Belt Width (8mm Pitch, 56 Groove Sprocket, 1750 rpm Motor Speed, Service Factor Added)

Horsepower Capacity



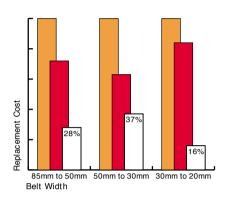
Relative Drive Cost Per Motor Horsepower (8mm Pitch, 56 Groove Sprocket, 1750 rpm Motor Speed, Service Factor Added)



Relative Drive Cost Per Inch of Belt Width (8mm Pitch, 56 Groove Sprocket, 1750 rpm Motor Speed)

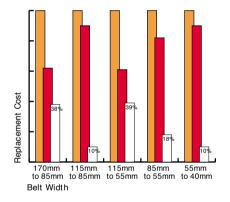
8mm Pitch Product

Line Comparison Goodyear Eagle Pd Gates Dayco RPP Panther PowerGrip GT2 Sprocket Diameters 19 26 20 Center Distance Range 3.46 - 83.155.51 - 44.093.78 - 83.15Maximum Speed Ratio 6.545:1 11.200:1 8.730:1 Belt Length Selections 33 14 26 Belt Length Range 640 - 2400mm 480 - 4400mm 384 - 4400mm 20-30-50-85 Belt Width Selections 16-32 12-22-35-60 Total Drive Combinations 20000+ 7000+ 16500+



Replacement Belt Cost Saving % (HTD & PowerGrip GT to PowerGrip GT2, 8mm Pitch)

	Grouping — PowerGrip G elts can be used to replace oth		the next smalle	st width
Company	Product Trade Name	Nomenclature	Belt-Pitch	Profile
Bando	Synchro-Link® - HT	1600-8M-20-H	8 & 14mm	HTD
Dodge	HT100™	1600-8M-20 HT100	8 & 14mm	GT
Electron	EHT®	1600-8M-20	8 & 14mm	HTD
Gates	HTD®	1600-8M-20	8 & 14mm	HTD
Jason	HTB®	1600-8M-20	8 & 14mm	HTD
MBL	HTT™	1600-8M-20	8 & 14mm	HTD
Opti Belt	HTD®	1600-8M-20	8 & 14mm	HTD
Browning	HPT®	1600-8M-20	14mm	RPP
Dayco	RPP®	1600-8M-20	14mm	RPP
Goodyear	HPPD™	1600-8M-20	14mm	RPP
T.B. Woods	RPP®	1600-8M-20	14mm	RPP
Thermoid	Synchro-Curve® Timing	1600-8M-20	14mm	RPP
Dayco	RPP Plus™	1600-8M-20	14mm	RPP
Dayco	HPR™	1600-8M-20	14mm	RPP
Dodge	HT150™	1600-8M-20	8 & 14mm	GT
T.B. Woods	RPP Plus™	1600-8M-20	14mm	RPP
T.B. Woods	HPR™	1600-8M-20	14mm	RPP
Competitors Width 8mm – Pitch	PowerGrip GT2 – Width 8mm – Pitch	Competitors Width 14mm – Pitch		GT2 – Width – Pitch
20	20	40	4	0
30	20	55	4	0
50	30	85	5	5
85	50	115	8	5
		170	1:	15



Replacement Belt Cost Saving % (HTD & PowerGrip GT to PowerGrip GT2, 14mm Pitch)

Company	Product Trade Name	Nomenclature	Belt-Pitch	Profile
Bando	Synchro-Link® - HT	1600-8M-20-H	8 & 14mm	HTD
Dodge	HT100™	1600-8M-20 HT100	8 & 14mm	GT
Electron	EHT®	1600-8M-20	8 & 14mm	HTD
Gates	HTD®	1600-8M-20	8 & 14mm	HTD
Jason	HTB®	1600-8M-20	8 & 14mm	HTD
MBL	HTT™	1600-8M-20	8 & 14mm	HTD
Opti Belt	HTD®	1600-8M-20	8 & 14mm	HTD
Browning	HPT®	1600-8M-20	14mm	RPP
Dayco	RPP®	1600-8M-20	14mm	RPP
Goodyear	HPPD™	1600-8M-20	14mm	RPP
T.B. Woods	RPP®	1600-8M-20	14mm	RPP
Thermoid	Synchro-Curve® Timing	1600-8M-20	14mm	RPP

14mm Pitch Product

Line Comments and				
Line Comparison	Gates PowerGrip GT2	Goodyear Eagle Pd	Dayco RPP Panther	
Sprocket Diameters	23	21	23	
Center Distance Range	7.99 – 127.32	8.54 – 47.40	7.99 – 89.84	
Maximum Speed Ratio	6.857:1	6.00:1	7.71:1	
Belt Length Selections	22	14	18	
Belt Length Range	966 – 6860mm	994 – 2800mm	966 – 4956mm	
Belt Width Selections	40-55-85-115-170	35-53-70-105	20-42-65-90-120	
Total Drive Combinations	22000	8,000+	17,500+	

Make the switch to PowerGrip GT2.

PowerGrip GT2 drives will provide greater horsepower capacity at less cost than any other synchronous belt drive system in a wide variety of industry applications including:

Lumber, Pulp & Paper Conveyors, repulpers, sentry screens, effluent systems, presses, waxers, chippers, debarkers, slashers, chip 'n saws, edgers, roll grinders, screw conveyors, flotation cells, cut-off saws, hourglass rolls, dryers, agitators, calendars, pumps, winders



Food Processing Pumps, bucket elevators, belt conveyors, icing machines, elongators, dough mixers, cookers, mills, bottling machines, meat grinders, hog dehairers

Packaging Box makers, carton sealers, case palletizers, and live roll, apron, belt, chain and screw convevors

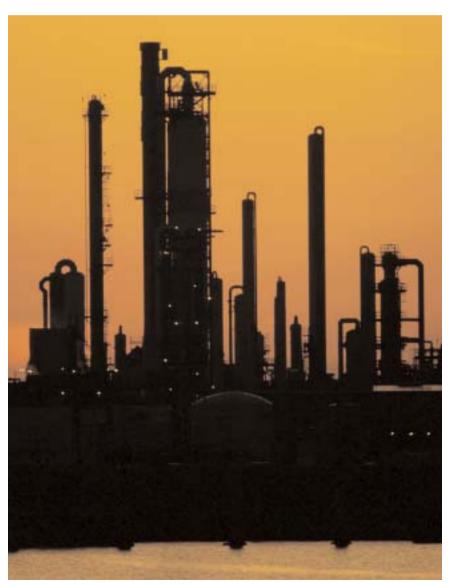
Aluminum/ Steel Bucket elevators, shot blasters, conveyor drives, scrap cutters, sand seals, drag-out machines, polishers, cooling chambers, muffler furnaces, mandrel stripping rods, spinner cars, gray iron foundries, sand conveyors, bucket elevators, grinders

Petrochemical Industries Air coolers, fin fans, chlorine compressors, processing, centrifuges, dryers, compressors, pumps

Sand, Gravel & Concrete Feeder drives, conveyor drives, elevators, screw conveyors

Glass Manufacturing/Bottles Conveyors, crushers, grinders, carton sealers, case palletizers

HVAC Air blower fan drives, ventilating fans, exhaust fans



SAFETY POLICY

WARNING! Be Safe! Gates belt drive systems are very reliable when used safely and within Gates application recommendations. However, there are specific USES THAT MUST BE AVOIDED due to the risk of serious injury or death. These prohibited misuses include:

Primary In-Flight Aircraft Systems

Do not use Gates belts, pulleys or sprockets on aircraft, propeller or rotor drive systems or in-flight accessory drives. Gates belt drive systems are not intended for aircraft use.

Lift Systems

Do not use Gates belts, pulleys or sprockets in applications that depend solely upon the belt to raise/lower, support or sustain a mass without an independent safety backup system. Gates belt drive systems are not intended for use in applications requiring special "Lift" or "Proof" type chains with minimum tensile strength or certified/test tensile strength requirements.

Braking Systems

Do not use Gates belts, pulleys or sprockets in applications that depend solely upon the belt to slow or stop a mass, or to act as a brake without an independent safety backup system. Gates belt drive systems are not intended to function as a braking device in "emergency stop" systems.

Introduction — PowerGrip® GT®2 Belt Drives

There's nothing like a good set of teeth when it comes to synchronous belts.

The advantages of Gates PowerGrip GT2 belt drives are overwhelming

The PowerGrip GT2 Belt Drive System is an advance in product design over Gates older, standard HTD system. The PowerGrip GT2 System, featuring a modified curvilinear belt tooth profile, provides timing and indexing accuracy equivalent to the conventional PowerGrip Trapezoidal Belt System. Plus, PowerGrip GT2 Belts have a higher capacity and longer belt life than trapezoidal belts.

It's difficult to make a true quantitative comparison between the backlash of a trapezoidal tooth drive and PowerGrip GT2 tooth drive due to the difference in "sprocket to belt tooth" fit. (See illustrations below). Trapezoidal belts contact the sprocket in the root radius—upper flank area only, while the PowerGrip GT2 system permits full flank contact.

The main stress line in a trapezoidal tooth timing belt is at the base of the teeth. During operation this stress greatly reduces belt life. The PowerGrip GT2 system overcomes this condition with its complete tooth flank contact which eliminates the tooth stress line area. This greatly increases belt life and prevents tooth distortion caused by drive torque. In addition, the conventional timing belt has a chordal effect as it wraps small sprockets. This is significantly reduced in the PowerGrip GT2 system because there's full tooth support along the sprocket. Full support improves meshing, reduces vibration and minimizes tooth deformation.

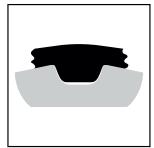
On drives using a low installation tension, small pulleys, and light loads, the backlash of the PowerGrip GT2 system will be slightly better than the trapezoidal timing belt system. However, with increased tension and/or loads and/or sprocket sizes the performance of the PowerGrip GT2 system becomes significantly better than the trapezoidal timing belt system.



PowerGrip® GT2® Belt Tooth/Groove Contact



PowerGrip® HTD® Belt Tooth/Groove Contact



PowerGrip® Timing Belt Tooth/Groove Contact

The PowerGrip GT2 system is an extension of the HTD system with improved load-carrying capacity. HTD was developed for high torque drive applications, but is not acceptable for most precision indexing or registration applications. The HTD design requires substantial belt tooth to sprocket groove clearance (backlash) to perform. As smaller diameter sprockets are used, the clearance required to operate properly is increased. HTD drive clearance, using small diameter sprockets, is approximately four times greater than than an equivalent timing belt drive.

Deep tooth profile makes the difference

The PowerGrip GT2 system's deep tooth design increases the contact area which provides improved resistance to ratcheting. The modified curvilinear teeth enter and exit the sprocket grooves cleanly resulting in reduced vibration. This tooth profile design results in parallel contact with the groove and eliminates stress concentrations and tooth deformation under load. The PowerGrip GT2 design improves registration characteristics and maintains high torque carrying capability.

Introduction — PowerGrip® GT®2 Belt Drives

The choice of the industry for ultimate durability and precision

The Gates PowerGrip GT2 combines the very best in technology and construction design to give improved performance and extended product life.

Last longer than competitive belts

The PowerGrip GT2 belt has been tested against the competition, under equivalent conditions, at speeds up to

9,000 RPM. It outlasted the competition more than two to one. Strong fiberglass tensile cords wrapped in a durable neoprene body gives it flexibility and increases service life. A deep tooth profile provides superior load-carrying strength and greatly reduces ratcheting when used with Gates designed sprockets.

Precision registration

PowerGrip GT2 Belt Drive Systems provide timing and synchronization accuracy that make for flawless registration, with no loss of torque carrying capability.

Increases load-carrying capacity

Performance far exceeds HTD and trapezoidal belt capabilities making PowerGrip GT2 belts the choice



for accurate registration, heavy loads and small sprockets.

Sounds this quiet.....

The PowerGrip GT2 belt's specially engineered teeth mesh cleanly with sprocket grooves to reduce noise and vibration. Clean meshing results in significant noise reduction when compared to PowerGrip Timing and HTD belts.

When precision is critical, depend on PowerGrip GT2 belts

PowerGrip GT2 belts are specifically designed for applications where precision is critical. Applications such as robotics, conveyors and machine tools. We offer belts in a variety of sizes... custom built constructions are also available for individual applications that require maximum performance. Gates worldwide manufacturing capabilities assures you of prompt service for important markets.

PowerGrip GT2 belts are currently available in 5mm, 8mm, 14mm and 20mm pitches.

See Pages 7-58 for PowerGrip GT2 Belt Drives.

Here are just some of the many applications of PowerGrip GT2 belts:

- machine tools
- hand power tools
- DC stepper/servo applications
- pumps

- floor care equipment
- medical diagnostic equipment
- centrifuges
- fans

- robotics equipment
- vending equipment
- conveyors
- compressors

Introduction — PowerGrip® Timing Belt Drives

Provide positive, non-slip power transmission

PowerGrip Timing Belts are a good standard line product with a history of reliability. Around since the late 1940's, this product line has been the flagship of synchronous power transmission prior to Gates introduction of PowerGrip HTD and GT2 Belts.



Gates timing belts are made with a true design pitch, a standard of the Rubber Manufacturers' Association and the International Standards Organization.

PowerGrip Timing Belts are recommended for these types of applications:

- office equipment
- appliances
- medical equipment

- data processing equipment
- power tools
- robotics

- spindles
- mailing equipment

See pages 59-84 for PowerGrip Timing Drives.

Introduction — PowerGrip® Twin Power® Belt Drives

Dual driving surfaces allow for unique, problem solving drive designs

Gates Twin Power Belts have teeth on both sides to provide synchronization from both driving surfaces. This special feature makes possible unique drive designs such as multipoint drives, rotation reversal with one belt, serpentine drives, etc. They may also provide solutions to other difficult design problems.



Twin Power Belts are similar in construction to regular synchronous belts, including nylon-faced teeth on both sides.

NOTE: Twin Power Belts are available in GT2 and Timing Belt configurations, so designers can use them in a wide variety of applications.

Some typical PowerGrip Twin Power applications are:

serpentine drives

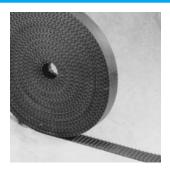
reversing rotations

See pages 95-99 for PowerGrip Twin Power Belting.

Introduction — PowerGrip® Long Length Belting

For drives that require belt lengths longer than can be produced in conventional endless form.

Long-length PowerGrip Belting has the same basic construction as conventional Gates synchronous belts.



For information or assistance on any long length belt problem, contact Gates Application Engineering.

NOTE: Long-length PowerGrip Belting is available in GT, HTD, Timing Belt and Synchro-Power Polyurethane configurations.

Typical PowerGrip Long Length Belting uses are:

reciprocating carriage drives

rack and pinion drives

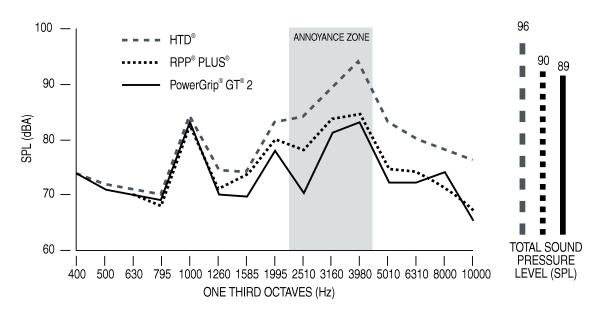
large plotters

See pages 85-94 for PowerGrip Long Length Belting.

PowerGrip® GT®2 Belt Drives

The operating noise comparison with first generation curvilinear tooth belts is remarkable. PowerGrip GT2 belts are made to do the work quietly. Whether or not an application requires low noise levels, PowerGrip GT2 belts give quieter, longer running life —with no sacrifice in performance like other competitive belts.

Using a mulitmillion-dollar manufacturing process that features breakthrough belt building technology, Gates assures each belt meets the highest standards of precision construction.



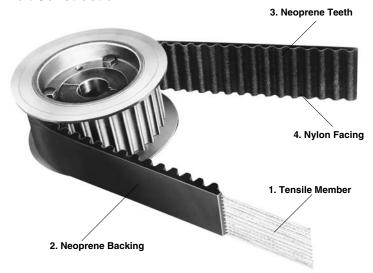
Test Conditions

Belt	Length	1400mm
	Width	40mm
Sprockets	DriveR	36 Grooves
	DriveN	36 Grooves
Load		36 HP
Speed		1750 rpm
All tests in HT	D Sprockets	

Please note the "Annoyance Zone" in the graph above. This zone, roughly 2,000-4,000 Hz, is the frequency range to which the human ear is the most sensitive. The PowerGrip GT2 belt has an obvious advantage in this zone. Also note the Total Sound Pressure Level (SPL) depicted in the adjoining bar graph. Here again, the overall noise level (SPL) is dramatically lower for the PowerGrip GT2 belt.

PowerGrip® GT®2 Belt Drives

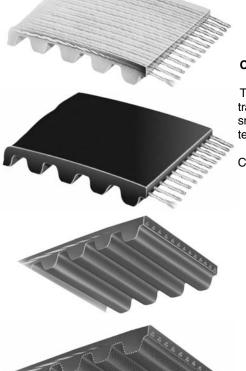
Belt Construction



PowerGrip GT2 drives provide positive, trouble-free power transmission in low speed — high torque applications and offer many advantages over conventional chain, gear and other belt drives.

Advantages:

- Higher capacity
- Improved registration
- Reduced noise
- No lubrication required
- No stretching due to wear
- Corrosion resistance
- Excellent abrasion resistance
- Clean operation
- Long trouble-free service



Construction Features

The tooth design substantially improves stress distribution and allows extra high loading. The molded teeth enter and leave the sprocket grooves smoothly with negligible friction — functioning in much the same way as teeth on a gear.

Construction consists of these components:

- 1. **Tensile Member** Provides high strength, excellent flex life and high resistance to elongation.
- Neoprene Backing Strong Neoprene bonded to the tensile member for protection against grime, oil and moisture. It also protects from frictional wear if idlers are used on the back of the belt.
- Neoprene Teeth Shear-resistant Neoprene compound is molded integrally with the Neoprene backing. They are precisely formed and accurately spaced to assure smooth meshing with the sprocket grooves.
- 4. Nylon Facing Tough nylon fabric with a low coefficient of friction covers the wearing surfaces of the belt. It protects the tooth surfaces and provides a durable wearing surface for long service.

PowerGrip® Belt Drive Selection Procedure

Selection of a stock PowerGrip Belt Drive System involves these five steps:

- 1. Calculate design horsepower.
- 2. Select belt pitch
- 3. Select sprockets and belt.
- 4. Select belt width.
- 5. Determine bushing and bore requirements.

Sample Problem

A gear pump is to be driven by a 30 hp normal torque electric motor with an output speed of 1160 rpm. The gear pump is to be driven at 580 rpm $\pm 5\%$. The center distance is to be approximately 30 inches, but can be altered ± 3 inches, if necessary. The motor shaft is $2\frac{1}{8}$ inches and the pump shaft is 3 inches. The pump will operate 16 hours a day, five days a week. The pump sprocket is limited to 18 inches OD. There are no unusual drive conditions. Design using PowerGrip GT2.

Step 1 Determine Design Horsepower

Procedure

To calculate the design hp, first determine the relative severity or service factor of the drive. Average hours per day of service also should be considered. Locate the power source and the driveN unit in the Service Factors table on Page 15. The design hp then is determined by multiplying the rated hp (usually the nameplate rating) by the service factor determined above.

Example

Using the Service Factor Chart, the driveR would be found in the first group. Since the pump will run 16 hours per day, follow the continuous service column down to the driveN machines group for gear pumps. This gives a 1.7 Service Factor. Since this is not a low speed or speedup drive, no additional service factor is required.

Design HP = 30×1.7 = 51DHP

Step 2 Select Belt Pitch

Procedure

Using the design hp and the rpm of the faster shaft, select from Belt Pitch Selection Guide graph on Page 11.

Example

Locate 1160 rpm on the RPM of Faster Shaft scale and move over to where the Design Horsepower of 51 Dhp line intersects. The intersection falls at the 8mm and 14mm pitch overlap area. Both 8mm and 14mm pitches should be considered.

Step 3 Select Sprockets and Belt Length

Procedure

a. Determine speed ratio.

The speed ratio can be determined by dividing the rpm of the faster shaft by the slower shaft rpm.

Example

$$\frac{\text{rpm of faster shaft}}{\text{rpm of slower shaft}} = \frac{1160}{580} = 2.0$$

b. Select sprocket combination and belt length. Turn to the Stock Drive Selection Tables (pages 16 through 43, 52 through 55 and 61 through 74) and in the proper pitch tables find the chosen speed ratio. Moving over within the speed ratio block, find the stock sprocket combinations available for that speed ratio. Selection of the proper combination will depend on the center distance required, minimum or maximum required sprocket diameter and the recommended minimum sprocket diameter for electric motors (See table on Page 12).

After selecting possible sprocket combinations and center distances, record belt length (top of column) Length Factor (bottom of column), and the Teeth In Mesh Factor if applicable.

Example

First, using the Stock Drive Selection Tables for 8mm pitch belts on pages 30 through 35, we locate the speed ratio of 2.0 to 1 on pages 32 and 33. The various sprocket combinations with a center distance within the required tolerance range is 8. Of these, three are closest to the desired 30 inches. These are 72 to 144, 56 to 112 and 40 to 80. The minimum sprocket diameter of 6.1 inches for a 30 hp motor at 1160 rpm (See table on Page 12) eliminates the 56 to 112 and 40 to 80 sprocket combinations. Only the 8mm pitch, 72 to 144 sprocket combination will be considered further. On the line for the 72 to 144 sprocket combination, the center distance of 30.02 inches uses a 2400mm (94.49-inch), 8mm pitch belt. The belt length factor is 1.2.

Secondly, using the Stock Drive Selection Tables for 14mm pitch belts on pages 36 through 43, locate the speed ratio of 2.0 to 1 on page 40. Several combinations are shown which will meet the 30 ± 3 -inch center distance requirement. The maximum OD limit of 18 inches on the driveN sprocket eliminates two of the combinations and the preference for as close to 30 inches center distance would favor the 36 to 72 and 28 to 56 combinations. However, the 4.912-inch diameter of the 28-groove sprocket is less than the recommended minimum diameter of 6.1 inches for the electric motor. So the 36 to 72 sprocket combination is chosen for further consideration.

For the 36 to 72, 14-mm pitch sprocket combination, the belt length used for the 30.42-inch center distance is a 2310mm (90.94-inch), 14mm pitch belt. The belt length factor is 1.0.

continued



PowerGrip® Belt Drive Selection Procedure—continued

Procedure

c. Check belt speed.

Do not exceed 6500 fpm with stock sprockets. Belt Speed is determined using the following formula:

$$V(fpm) = \frac{PD (inches) \times Speed (rpm)}{3.82}$$

Example

Determining belt speed for each of the drive systems shows that the belt speed does not exceed 6500 fpm and can be considered further.

8mm Drive:

$$V = \frac{7.218 \times 1160}{3.82} = 2191.9 \text{ fpm}$$

14mm Drive:

$$V = \frac{6.316 \times 1160}{3.82} = 1917.9 \text{ fpm}$$

Step 4 Select Belt Width

Procedure

Belt Width Selection Tables (pages 44 through 51, 56 through 58 and pages 75 through 84) show the horse-power ranges of stock belt widths. The left-hand column shows the speed of the smaller sprocket. Across the top are various stock sprockets. The base rated horsepower capacity of a given sprocket at a specific rpm is at the point of intersection of the rpm row and sprocket column.

This base horsepower rating must be corrected for the belt length selected and for the number of teeth in mesh (if less than 6). Multiply the base table rating by the applicable Length Factor and Teeth In Mesh Factor (if applicable), both determined in Step 3b. The corrected horsepower rating must equal or exceed design hp.

Where there are several choices, drive limitations may control the selection. In addition, the following rules must be observed.

- 1. Larger sprockets mean less belt width.
- 2. Larger sprockets yield extra long service life.
- Avoid drives where the belt width exceeds sprocket diameter.
- Avoid drives where center distance is greater than 8 times the diameter of the smaller sprocket. Refer to Section II, Drive Alignment on Page 141 for additional details.

Example

Referring to the 8mm pitch Belt Width Selection tables on page 47, locate the 1160 rpm line in each table in turn. Proceeding across to the 72-groove sprocket column (Smaller sprocket groove number), note the base belt horsepower capacity in each table. The 50mm (1.97-inch) width belt has a base horsepower rating which, when multiplied by the length factor of 1.2, exceeds the design horsepower.

 $68.5 \text{ hp} \times 1.2 = 82.2 \text{ hp}$

And, repeating the procedure for the 14mm pitch belt horsepower tables on pages 49 through 51, we find the 55mm (2.16-inch) width belt has an 77.1 base horsepower rating for a 36-groove sprocket. This, multiplied by the length factor of 1.0, gives a corrected horsepower rating of 77.1 which also exceeds the design horsepower.

Since there is now a choice between the 8mm pitch, 72 to 144 ratio drive components, and the 14mm pitch, 36 to 72 ratio drive components, the rules as given in the procedure column must be considered. Rules 1 and 2 would dictate larger sprockets. Width is unaffected. Rules 3 and 4 would not apply, so the 8mm pitch drive system is the choice.

Step 5 Check and Specify Stock Drive Components

Procedure

a. Check the sprockets selected in steps 3 and 4 against the design requirements using the dimensions given in the Sprocket Specification Tables on pages 100 through 114. Use flange diameter in checking against maximum diameter requirements.

Example

From the table on Page 105, we find the P144-8MGT-50 driveN sprocket has an overall diameter of 14.383 inches which is less than the 18-inch maximum specified.

Procedure

b. Determine the type of bushing and check bore sizes by using the Sprocket Specification Tables; find the bushings to be used with the required sprockets. From the Stock Bushing Tables on pages 119 through 122, check the bore range and keyway dimensions against the design requirements.

Example

Also from the sprocket data on Page 105 we note that the P72-8MGT-50 sprocket takes a 2517 bushing and the P144-8MGT-85 sprocket takes a 3020 bushing. On Page 119 in the bushing data table, a 2517 bushing has a bore range of $\frac{1}{2}$ to $\frac{21}{16}$ inches which includes the $\frac{2}{8}$ -inch bore required for the driveR shaft. The 3020 bushing has a bore range form $\frac{7}{8}$ to $\frac{3}{4}$ inches which meets the 3-inch bore required for the driveN shaft.

Procedure

c. Specify stock drive components

Example

They are as follows:

- 1-2400-8MGT-50 PowerGrip GT2 belt
- 1—P72-8MGT-50 driveR sprocket
- 1—2517 Bushing with a 21/8-inch bore
- 1—P144-8MGT-50 driveN sprocket
- 1-3020 Bushing with a 3-inch bore

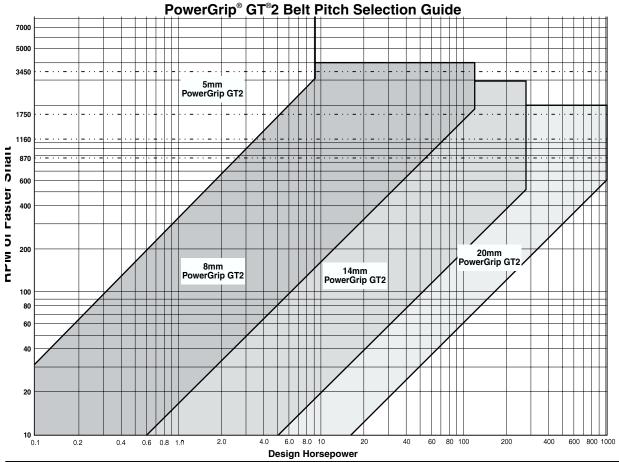


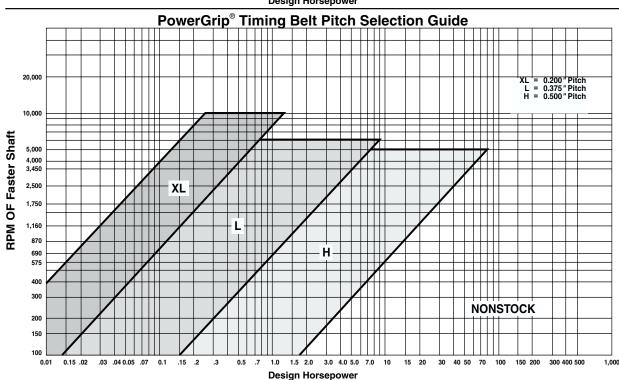
High Speed Drive Survey and Energy Savings Worksheet

Customer Information Distributor Customer ____ **Drive Information** I.D. of Drive (location, number, etc.) Description of DriveN Equipment _____ Manufacturer of DriveN Equipment __ Horsepower Rating of Motor _____ DriveN HP Load (Peak) _____ (Normal) _____ Motor Frame Size _____ Motor Shaft Dia. _____ DriveN Shaft Dia. Speed: ■ No Speed Ratio Speed Up or Speed Down Center Distance: Minimum _____ Nominal ____ Maximum ____ Existing Drive Components: Drive N Drive N Belt Manufacturer Ambient Conditions: Temperature Moisture Oil, etc. _____ Shock Load _____ Static Conductivity Required? ☐ Yes ☐ No Maximum Sprocket Diameter (OD) and Width Limitations (for guard clearance): DriveR: Max. OD ______ Max. Width _____ DriveN: Max. OD _____ Max. Width _____ Guard Description _____ **Motor Mount:** Double Screw Base? ☐ Yes ☐ No Motor Mounted on Sheet Metal? ☐ Yes Adequate Structure? ☐ Yes ☐ No Floating/Pivot Motor Base? ☐ Yes ☐ No Start Up Load: %Motor Rating at Start Up_____ AC Inverter? ☐ Yes ☐ No Soft Start? ☐ Yes ☐ No **Duty Cycle:** Number of Starts/Stops times per _____ (hour, day, week, etc.) **Energy Savings Information** Energy Cost per KW-Hour _____

Hours of Operation: _____Hours per Day _____Days per Week ____Weeks per Year _____

PowerGrip® Belt Drives





PowerGrip® Belt Drives

Mimimum Recommended Sprocket Outside Diameters for General Purpose Electric Motors — Synchronous Belts

	Motor RPM (60 Cycle and 50 Cycle Electric Motors					
Motor Horsepower	575 485*	690 575*	870 725*	1160 950*	1750 1425*	3450 2850*
1/2	_	_	2.0	_	_	_
3/4	_	_	2.2	2.0	_	_
1	2.7	2.3	2.2	2.2	2.0	_
11/2	2.7	2.7	2.2	2.2	2.2	2.0
2	3.4	2.7	2.7	2.2	2.2	2.2
3	4.1	3.4	2.7	2.7	2.2	2.2
5	4.1	4.1	3.4	2.7	2.7	2.2
7	4.7	4.1	4.0	3.4	2.7	2.7
10	5.4	4.7	4.0	4.0	3.4	2.7
15	6.1	5.4	4.7	4.0	4.0	3.4
20	7.4	6.1	5.4	4.7	4.0	4.0
25	8.1	7.4	6.1	5.4	4.0	4.0
30	9.0	8.1	6.1	6.1	4.7	_
40	9.0	9.0	7.4	6.1	5.4	_
50	9.9	9.0	7.6	7.4	6.1	_
60	10.8	9.9	9.0	7.2	6.7	_
75	12.5	11.7	8.5	9.0	7.7	_
100	16.2	13.5	10.8	9.0	7.7	_
125	18.0	16.2	13.5	10.8	9.5	_
150	19.8	18.0	16.2	11.7	9.5	_
200	19.8	19.8	19.8	_	11.9	_
250	19.8	19.8	_	_	_	_
300	24.3	24.3	_	_		_

^{*} These RPM are for 50 cycle electric motors.

Data in the white area are from NEMA Standard MG-1-14-42, June, 1972, while data in the light blue area are from MG-1-14-43, January, 1968.

The dark blue area is a composite of electric motor manufacturers data. They are generally conservative, and specific motors and bearings may permit the use of a smaller motor sprocket. Consult the motor manufacturer. See Engineering Section II-13, Bearing/Shaft Load Calculations on Page 142.

NOTE: For a given motor horsepower and speed, the toal belt pull is related to the motor sprocket size. As this size **decreases**, the total belt pull **increases**. Therefore, to limit the resultant load on motor shaft and bearings, NEMA lists minimum sprocket sizes for the various motors.

[#] Use 8.6 for Frame Number 444 T only.

PowerGrip® GT®2 Belt Drives

Gates 5mm, 8mm, 14mm and 20mm pitch GT2 belts have helically-wound fiberglass tension members embedded in a Neoprene body with the belt teeth faced with a tough wear-resistant nylon fabric.

The three principal dimensions of a belt are

Pitch

Pitch Length

Width

Belt pitch is the distance in millimeters between two adjacent tooth centers as measured on the pitch line of the belt. Belt pitch length is the total length (circumference) in millimeters as measured along the pitch line. The theoretical pitch line of a PowerGrip GT2 belt lies within the tensile member.

The part number designations for PowerGrip GT2 belts depend on the pitch of the belt. Belt designations are shown below for each of the available pitches.

5mm PowerGrip GT2

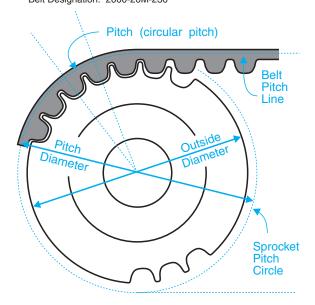
Example: 5mm pitch, 1600mm pitch length, 25mm belt width Belt Designation: 5MR-1600-25

8mm, 14mm PowerGrip GT2

Example: 14mm pitch, 1610mm pitch length, 55mm belt width Belt Designation: 1610-14MGT-55

20mm PowerGrip GT2

Example: 20mm pitch, 2000mm pitch length, 230mm belt width Belt Designation: 2000-20M-230



The part number designations for PowerGrip GT2 sprockets depend on the pitch of belt. Sprocket designations are shown below for each of the available pitches.

5mm, 8mm, 14mm PowerGrip GT2

Example: 14mm pitch, 48 grooves, 55mm belt width Sprocket Designation: P48-14MGT-55

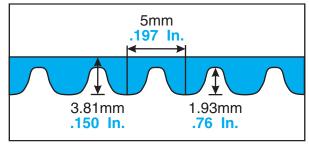
20mm PowerGrip GT2

Example: 20mm pitch, 52 grooves, 230mm belt width

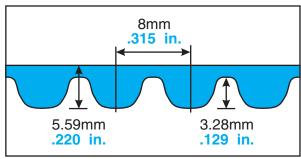
Belt Designation: P52-20M-230

NOTE: 20mm pitch PowerGrip GT2 belts use 20mm pitch HTD sprockets.

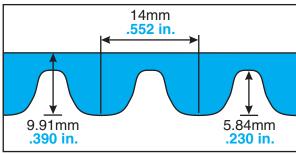
5mm Pitch - Reference Dimensions



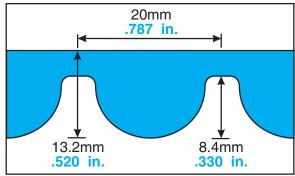
8mm Pitch - Reference Dimensions



14mm Pitch – Reference Dimensions



20mm Pitch - Reference Dimensions





PowerGrip® GT®2 Belt Drives

The following tables list the stock Industrial Belts and their essential specification.

5mm Pitch PowerGrip GT2 Stock Belt Lengths

	Pitch	Pitch Length		
Designation	(mm)	(in)	Teeth	
5MR-300	300	11.81	60	
5MR-355	355	13.98	71	
5MR-375	375	14.76	75	
5MR-400	400	15.75	80	
5MR-425	425	16.73	85	
5MR-450	450	17.72	90	
5MR-405	405	15.99	81	
5MR-500	500	19.69	100	
5MR-535	535	21.06	107	
5MR-565	565	22.24	113	
5MR-580	580	22.83	116	
5MR-600	600	23.62	120	
5MR-625	625	24.61	125	
5MR-650	650	25.59	130	
5MR-700	700	27.56	140	
5MR-750	750	29.53	150	
5MR-800	800	31.50	160	
5MR-850	850	33.46	170	
5MR-900	900	35.43	180	
5MR-1000	1000	39.37	200	
5MR-1150	1150	45.28	230	
5MR-1300	1300	51.18	260	
5MR-1450	1450	57.09	290	
5MR-1600	1600	62.99	320	
5MR-1720	1720	67.72	344	
5MR-2100	2100	82.67	420	

5MR Stock Belt Widths

Belt Width Code	Belt Width (mm)	Belt Width (in)
09	9	0.354
15	15	0.591
25	25	0.984

8mm Pitch PowerGrip GT2 Stock Belt Lengths

	Pit	ich agth	
		No. of	
Designation	(mm)	(in)	Teeth
384-8MGT	384	15.12	48
480-8MGT	480	18.89	60
560-8MGT	560	22.05	70
600-8MGT	600	23.62	75
640-8MGT	640	25.20	80
720-8MGT	720	28.35	90
800-8MGT	800	31.50	100
840-8MGT	840	33.07	105
880-8MGT	880	34.65	110
920-8MGT	920	36.22	115
960-8MGT	960	37.80	120
1040-8MGT	1040	40.94	130
1064-8MGT	1064	41.89	133
1120-8MGT	1120	44.09	140
1160-8MGT	1164	45.67	145
1200-8MGT	1200	47.24	150
1224-8MGT	1224	48.19	153
1280-8MGT	1280	50.39	160
1440-8MGT	1440	56.69	180
1512-8MGT	1512	59.53	189
1584-8MGT	1584	62.36	198
1600-8MGT	1600	62.99	200
1760-8MGT	1760	69.29	220
1800-8MGT	1800	70.87	225
2000-8MGT	2000	78.74	250
2200-8MGT	2200	86.61	275
2400-8MGT	2400	94.49	300
2600-8MGT	2600	102.36	325
2800-8MGT	2800	110.24	350
3048-8MGT	3048	120.00	381
3280-8MGT	3280	129.13	410
3600-8MGT	3600	141.73	450
4400-8MGT	4400	173.23	550

8MGT Stock Belt Widths

Belt Width Code	Belt Width (mm)	Belt Width (in)
20	20	0.787
30	30	1.181
50	50	1.969
85	85	3.346

14mm Pitch PowerGrip GT2 Stock Belt Lengths

4IIIIII PILCII	Power Grip G	12 Stock Bei	Lengins
	Pi Lei	No. of	
Designation	(mm)	(in)	Teeth
966-14MGT	966	38.03	69
1190-14MGT	1190	46.85	85
1400-14MGT	1400	55.12	100
1610-14MGT	1610	63.39	115
1778-14MGT	1778	70.00	127
1890-14MGT	1890	74.41	135
2100-14MGT	2100	82.68	150
2310-14MGT	2310	90.94	165
2450-14MGT	2450	96.46	175
2590-14MGT	2590	101.97	185
2800-14MGT	2800	110.24	200
3150-14MGT	3150	124.02	225
3360-14MGT	3360	132.28	240
3500-14MGT	3500	137.80	250
3850-14MGT	3850	151.57	275
4326-14MGT	4326	170.32	309
4578-14MGT	4578	180.24	327
4956-14MGT	4956	195.12	354
5320-14MGT	5320	209.45	380
5740-14MGT	5740	225.98	410
6160-14MGT	6160	242.52	440
6860-14MGT	6860	270.08	490

14MGT Stock Belt Widths

Belt Width Code	Belt Width (mm)	Belt Width (in)
40	40	1.575
55	55	2.165
85	85	3.346
115	115	4.528
170	170	6.693

20mm Pitch PowerGrip GT2 Stock Belt Lengths

ZUIIIIII FILCII	oweranp a	12 Stock Del	Lengins
		tch ìgth	No. of
Designation	(mm)	(in)	Teeth
2000-20M	2000	78.74	100
2500-20M	2500	98.43	125
3400-20M	3400	133.86	170
3800-20M	3800	149.61	190
4200-20M	4200	165.35	210
4600-20M	4600	181.10	230
5000-20M	5000	196.85	250
5200-20M	5200	204.72	260
5400-20M	5400	212.60	270
5600-20M	5600	220.47	280
5800-20M	5800	228.35	290
6000-20M	6000	236.22	300
6200-20M	6200	244.09	310
6400-20M	6400	251.97	320
6600-20M	6600	259.84	330

20M Stock Belt Widths

Belt Width Code	Belt Width (mm)	Belt Width (in)
115	115	4.528
170	170	6.693
230	230	9.055
290	290	11.417
340	340	13.386

Basic PowerGrip® Service Factors

DriveN Machine			Dri	veR		
	AC Motors: Normal Split Phase, Inverter		e, Synchronous,	AC Motors: High To Single Phase, Series	orque, High Slip, Rep s Wound, Slip Ring	ulsion-Induction,
The driveN machines listed below are	DC Motors: Shunt V	Vound Stepper Moto	rs	DC Motors: Series V	Vound, Compound W	ound Servo Motors
representative samples only. Select a driveN machine whose load characteris- tics most closely approximate those of	Engines: Multiple Cy	rlinder Internal Comb	ustion	Engines: Single Cyli Line Shafts Clute	nder Internal Combu ches	stion
the machine being considered.	Intermittent Service (Up to 8 hours Daily or Seasonal)	Normal Service (8 - 16 hours Daily)	Continuous Service (16 - 24 hours Daily)	Intermittent Service (Up to 8 hours Daily or Seasonal)	Normal Service (8 - 16 hours Daily)	Continuous Service (16 - 24 hours Daily)
Display, Dispensing Equipment Instrumentation Measuring Equipment Medical Equipment Office, Projection Equipment	1.0	1.2	1.4	1.2	1.4	1.6
Appliances, Sweepers, Sewing Machines						
Screens, Oven Screens, Drum, Conical Woodworking Equipment (Light): Band Saws, Drills, Lathes	1.1	1.3	1.5	1.3	1.5	1.7
Agitators for Liquids Conveyors: Belt, Light Package Drill Press, Lathes, Saws Laundry Machinery Wood Working Equipment (Heavy): Circular Saws, Jointers, Planers	1.2	1.4	1.6	1.6	1.8	2.0
Agitators for Semi-Liquids Compressor: Centrifugal Conveyor Belt: Ore, Coal, Sand Dough Mixers Line Shafts Machine Tools: Grinder, Shaper, Boring Mill, Milling Machines Paper Machinery (except Pulpers): Presses, Punches, Shears Printing Machinery Pumps: Centrifugal, Gear Screens: Revolving, Vibratory	1.3	1.5	1.7	1.6	1.8	2.0
Brick Machinery (except Pug Mills) Conveyor: Apron, Pan, Bucket, Elevator Extractors, Washers Fans, Centrifugal Blowers Generators & Exciters Hoists Rubber Calender, Mills, Extruders	1.4	1.6	1.8	1.8	2.0	2.2
Centrifuges Screw Conveyors Hammer Mills Paper Pulpers Textile Machinery	1.5	1.7	1.9	1.9	2.1	2.3
Blowers: Positive Displacement, Mine Fans Pulverizers	1.6	1.8	2.0	2.0	2.2	2.4
Compressors: Reciprocating Crushers: Gyratory, Jaw, Roll Mills: Ball, Rod, Pebble, etc. Pumps: Reciprocating Saw Mill Equipment	1.7	1.9	2.1	2.1	2.3	2.5

These service factors are adequate for most belt drive applications. Note that service factors cannot be substituted for good engineering judgment. Service factors may be adjusted based upon an understanding of the severity of actual drive operating conditions.

Additional Service Factors

Low Speed Drives 8mm / 14mm / 20mm Belts Only

0111111 / 14111111 / 201	illii Deits Offiy
Smaller S	Sprocket Speed
Up to 200 rpm	Add 0.3
201 to 400 rpm	Add 0.2
401 to 600 rpm	Add 0.1

Unusual Conditions

Additional service factors are required for unusual conditions—such as load reversal, heavy shock, plugged motor stop, electric brake. These should be determined by a transmission specialist.

Speedup Drives

For speedup drives, add to the basic service factor the additional factor given below.

Speedup Ratio Range	Additional Factor	Speedup Ratio Range	Additional Factor
1 to 1.24	none	2.50 to 3.49	.30
1.25 to 1.74	.10	3.50 & over	.40
1.75 to 2.49	.20		



	Sprocket Co	ombinations	· _		Center Distance, Inches											
Dri	veR	Dri	veN						cente	DISTA	ince, I	ricnes	•			
No. of Grooves	Pitch Diameter (Inches)	No. of Grooves	Pitch Diameter (Inches)	Speed Ratio	5MR-300 P.L 11.811 60 teeth	5MR-355 P.L 13.976 71 teeth	5MR-375 P.L 14.764 75 teeth	5MR-400 P.L 15.748 80 teeth	5MR-405 P.L 15.945 81 teeth	5MR-425 P.L 16.732 85 teeth	5MR-450 P.L 17.716 90 teeth	5MR-500 P.L 19.685 100 teeth	5MR-535 P.L 21.063 107 teeth	5MR-565 P.L 22.244 113 teeth	5MR-580 P.L 22.835 116 teeth	5MR-600 P.L 23.622 120 teeth
18	1.128	18	1.128	1.000	4.13	5.22	5.61	6.10	6.20	6.59	7.09	8.07	8.76	9.35	9.64	10.04
19 20	1.191 1.253	19 20	1.191 1.253	1.000 1.000	4.03 3.94	5.12 5.02	5.51 5.41	6.00 5.91	6.10 6.00	6.49 6.40	6.99 6.89	7.97 7.87	8.66 8.56	9.25 9.15	9.54 9.45	9.94 9.84
21	1.316	21	1.316	1.000	3.84	4.92	5.31	5.81	5.90	6.30	6.79	7.77	8.46	9.05	9.35	9.74
22	1.379	22	1.379	1.000	3.74	4.82	5.21	5.71	5.80	6.20	6.69	7.67	8.36	8.95	9.25	9.64
23 24	1.441 1.504	23 24	1.441 1.504	1.000 1.000	3.64 3.54	4.73 4.63	5.12 5.02	5.61 5.51	5.71 5.61	6.10 6.00	6.60 6.50	7.58 7.48	8.27 8.17	8.86 8.76	9.15 9.05	9.55 9.45
24 25	1.504	25	1.566	1.000	3.45	4.63	4.92	5.42	5.51	5.91	6.40	7.46	8.07	8.66	8.96	9.45
26	1.629	26	1.629	1.000	3.35	4.43	4.82	5.32	5.41	5.81	6.30	7.28	7.97	8.56	8.86	9.25
28	1.754	28	1.754	1.000	3.15	4.23	4.62	5.12	5.21	5.61	6.10	7.08	7.77	8.36	8.66	9.05
30 32	1.880 2.005	30 32	1.880 2.005	1.000 1.000	2.95 2.76	4.04 3.84	4.43 4.23	4.92 4.73	5.02 4.82	5.41 5.22	5.91 5.71	6.89 6.69	7.58 7.38	8.17 7.97	8.46 8.27	8.86 8.66
34	2.130	34	2.130	1.000	2.76	3.64	4.03	4.73	4.62	5.02	5.51	6.49	7.18	7.77	8.07	8.46
36	2.256	36	2.256	1.000		3.45	3.84	4.33	4.43	4.82	5.32	6.30	6.99	7.58	7.87	8.27
38	2.381	38	2.381	1.000		3.25	3.64	4.13	4.23	4.62	5.12	6.10	6.79	7.38	7.67	8.07
40 44	2.506 2.757	40 44	2.506 2.757	1.000		3.05	3.44	3.94 3.54	4.03 3.64	4.43 4.03	4.92 4.53	5.90 5.51	6.59 6.20	7.18 6.79	7.48 7.08	7.87 7.48
45	2.820	45	2.820	1.000				3.45	3.54	3.94	4.43	5.41	6.10	6.69	6.99	7.38
48	3.008	48	3.008	1.000						3.64	4.14	5.12	5.81	6.40	6.69	7.09
50	3.133	50	3.133	1.000							3.94	4.92	5.61	6.20	6.49	6.89
52 56	3.258 3.509	52 56	3.258 3.509	1.000 1.000							3.74	4.72 4.33	5.41 5.02	6.00 5.61	6.30 5.90	6.69 6.30
60	3.760	60	3.760	1.000								1.00	4.62	5.21	5.51	5.90
64	4.010	64	4.010	1.000										4.82	5.12	5.51
68 44	4.261	68	4.261 2.820	1.000				2 40	2 50	2.00	4.48	5.46	6.15	6.74	4.72	5.12 7.43
25	2.757 1.566	45 26	1.629	1.023 1.040	3.40	4.48	4.87	3.49 5.37	3.59 5.46	3.98 5.86	6.35	7.33	8.02	8.61	7.03 8.91	9.30
50	3.133	52	3.258	1.040	0.10			0.07	00	0.00	3.84	4.82	5.51	6.10	6.40	6.79
24	1.504	25	1.566	1.042	3.49	4.58	4.97	5.46	5.56	5.95	6.45	7.43	8.12	8.71	9.00	9.40
48 23	3.008 1.441	50 24	3.133 1.504	1.042 1.043	3.59	4.68	5.07	5.56	5.66	3.54 6.05	4.04 6.55	5.02 7.53	5.71 8.22	6.30 8.81	6.59 9.10	6.99 9.50
23 22	1.441	23	1.441	1.045	3.69	4.00	5.07	5.66	5.76	6.15	6.65	7.63	8.32	8.91	9.10	9.50
21	1.316	22	1.379	1.048	3.79	4.87	5.26	5.76	5.85	6.25	6.74	7.72	8.41	9.00	9.30	9.69
20	1.253	21	1.316	1.050	3.89	4.97	5.36	5.86	5.95	6.35	6.84	7.82	8.51	9.10	9.40	9.79
19 38	1.191 2.381	20 40	1.253 2.506	1.053 1.053	3.99	5.07 3.15	5.46	5.96 4.04	6.05 4.13	6.45	6.94 5.02	7.92 6.00	8.61 6.69	9.20 7.28	9.50 7.58	9.89 7.97
18	1.128	19	1.191	1.056	4.08	5.17	3.54 5.56	6.05	6.15	4.53 6.54	7.04	8.02	8.71	9.30	9.59	9.99
36	2.256	38	2.381	1.056		3.35	3.74	4.23	4.33	4.72	5.22	6.20	6.89	7.48	7.77	8.17
34	2.130	36	2.256	1.059		3.54	3.93	4.43	4.52	4.92	5.41	6.39	7.08	7.67	7.97	8.37
68 32	4.261 2.005	72 34	4.511 2.130	1.059 1.063	2.66	3.74	4.13	4.63	4.72	5.12	5.61	6.59	7.28	7.87	8.17	4.92 8.56
64	4.010	68	4.261	1.063	2.00	3.74	4.13	4.03	4.72	3.12	3.01	0.59	7.20	4.62	4.92	5.31
30	1.880	32	2.005	1.067	2.85	3.94	4.33	4.82	4.92	5.31	5.81	6.79	7.48	8.07	8.36	8.76
45	2.820	48	3.008	1.067				3.30	3.39	3.79	4.28	5.26	5.95	6.54	6.84	7.23
60 28	3.760 1.754	64 30	4.010 1.880	1.067 1.071	3.05	4.14	4.53	5.02	5.12	5.51	6.01	6.99	4.43 7.68	5.02 8.27	5.31 8.56	5.71 8.96
56	3.509	60	3.760	1.071	3.03	4.14	4.55	3.02	3.12	3.31	0.01	4.13	4.82	5.41	5.70	6.10
26	1.629	28	1.754	1.077	3.25	4.33	4.72	5.22	5.31	5.71	6.20	7.18	7.87	8.46	8.76	9.15
52	3.258	56	3.509	1.077								4.52	5.21	5.80	6.10	6.49
24 48	1.504 3.008	26 52	1.629 3.258	1.083 1.083	3.44	4.53	4.92	5.41	5.51	5.90	6.40 3.94	7.38 4.92	8.07 5.61	8.66 6.20	8.95 6.49	9.35 6.89
23	1.441	25	1.566	1.087	3.54	4.63	5.02	5.51	5.61	6.00	6.50	7.48	8.17	8.76	9.05	9.45
22	1.379	24	1.504	1.091	3.64	4.73	5.12	5.61	5.71	6.10	6.60	7.58	8.27	8.86	9.15	9.55
44	2.757	48	3.008	1.091				3.34	3.44	3.84	4.33	5.31	6.00	6.59	6.89	7.28
21 20	1.316 1.253	23 22	1.441 1.379	1.095 1.100	3.74 3.84	4.82 4.92	5.21 5.31	5.71 5.81	5.80 5.90	6.20 6.30	6.69 6.79	7.67 7.77	8.36 8.46	8.95 9.05	9.25 9.35	9.64 9.74
40	2.506	44	2.757	1.100	0.04	7.32	3.24	3.74	3.83	4.23	4.72	5.71	6.40	6.99	7.28	7.68
19	1.191	21	1.316	1.105	3.94	5.02	5.41	5.91	6.00	6.40	6.89	7.87	8.56	9.15	9.45	9.84
18	1.128	20	1.253	1.111	4.03	5.12	5.51	6.00	6.10	6.49	6.99	7.97	8.66	9.25	9.54	9.94
36 45	2.256 2.820	40 50	2.506 3.133	1.111 1.111		3.25	3.64	4.13	4.23 3.29	4.62 3.69	5.12 4.18	6.10 5.16	6.79 5.85	7.38 6.44	7.67 6.74	8.07 7.13
34	2.020	38	2.381	1.118		3.44	3.84	4.33	4.43	4.82	5.32	6.30	6.99	7.58	7.87	8.27
25	1.566	28	1.754	1.120	3.30	4.38	4.77	5.27	5.36	5.76	6.25	7.23	7.92	8.51	8.81	9.20
50	3.133	56	3.509	1.120							3.64	4.62	5.31	5.90	6.20	6.59
	Le	ngth Facto	r*		0.77	0.81	0.83	0.84	0.85	0.86	0.88	0.90	0.92	0.94	0.95	0.95

^{*}This length factor must be used to determine the proper belt width.

Center Distance is greater than eight times the small diameter and the large sprocket is not flanged. See Engineering Section I-10, Use of Flanged Sprockets, on page 134.



			werd			2 Bei						ction	- 55		Sprocket Co	ombinations
				(Cente	r Dista	ince, l	Inches	.						DriveR	DriveN
5MR-625 P.L 24.606 125 teeth	5MR-650 P.L 25.590 130 teeth	5MR-700 P.L 27.559 140 teeth	5MR-750 P.L 29.528 150 teeth	5MR-800 P.L 31.496 160 teeth	5MR-850 P.L 33.465 170 teeth	5MR-900 P.L 35.433 180 teeth	5MR-1000 P.L 39.370 200 teeth	5MR-1150 P.L 45.276 230 teeth	5MR-1300 P.L 51.181 260 teeth	5MR-1450 P.L 57.087 290 teeth	5MR-1600 P.L 62.992 320 teeth	5MR-1720 P.L 67.716 344 teeth	5MR-2100 P.L 82.677 420 teeth	Speed Ratio	No. of grooves	No. of grooves
10.53	11.02	12.01	12.99	13.98	14.96	15.94	17.91	20.87	23.82	26.77	29.72	32.09	39.57	1.000	18	18
10.43 10.34	10.92 10.83	11.91 11.81	12.89 12.80	13.88 13.78	14.86 14.76	15.84 15.75	17.81 17.72	20.77 20.67	23.72 23.62	26.67 26.58	29.62 29.53	31.99 31.89	39.47 39.37	1.000	19 20	19 20
10.24	10.73	11.71	12.70	13.68	14.66	15.65	17.62	20.57	23.52	26.48	29.43	31.79	39.27	1.000	21	21
10.14	10.63	11.61	12.60	13.58	14.56	15.55	17.52	20.47	23.42	26.38	29.33	31.69	39.17	1.000	22	22
10.04 9.94	10.53 10.43	11.52 11.42	12.50 12.40	13.49 13.39	14.47 14.37	15.45 15.35	17.42 17.32	20.38 20.28	23.33 23.23	26.28 26.18	29.23 29.13	31.60 31.50	39.08 38.98	1.000	23 24	23 24
9.85	10.34	11.32	12.31	13.29	14.27	15.26	17.32	20.18	23.13	26.09	29.04	31.40	38.88	1.000	25	25
9.75	10.24	11.22	12.21	13.19	14.17	15.16	17.13	20.08	23.03	25.99	28.94	31.30	38.78	1.000	26	26
9.55 9.35	10.04 9.84	11.02 10.83	12.01 11.81	12.99 12.80	13.97 13.78	14.96 14.76	16.93 16.73	19.88 19.69	22.83 22.64	25.79 25.59	28.74 28.54	31.10 30.91	38.58 38.39	1.000	28 30	28 30
9.16	9.65	10.63	11.62	12.60	13.58	14.57	16.54	19.49	22.44	25.40	28.35	30.71	38.19	1.000	32	32
8.96	9.45	10.43	11.42	12.40	13.38	14.37	16.34	19.29	22.24	25.20	28.15	30.51	37.99	1.000	34	34
8.76 8.56	9.25 9.05	10.24 10.04	11.22 11.02	12.21 12.01	13.19 12.99	14.17 13.97	16.14 15.94	19.10 18.90	22.05 21.85	25.00 24.80	27.95 27.75	30.32 30.12	37.80 37.60	1.000	36 38	36 38
8.37	8.86	9.84	10.83	11.81	12.79	13.78	15.75	18.70	21.65	24.61	27.75	29.92	37.40	1.000	40	40
7.97	8.46	9.45	10.43	11.42	12.40	13.38	15.35	18.31	21.26	24.21	27.16	29.53	37.01	1.000	44	44
7.88	8.37	9.35	10.34	11.32	12.30	13.29	15.26 14.96	18.21 17.92	21.16	24.12 23.82	27.07	29.43	36.91	1.000	45	45
7.58 7.38	8.07 7.87	9.06 8.86	10.04 9.84	11.03 10.83	12.01 11.81	12.99 12.79	14.96	17.92	20.87 20.67	23.62	26.77 26.57	29.14 28.94	36.62 36.42	1.000 1.000	48 50	48 50
7.19	7.68	8.66	9.65	10.63	11.61	12.60	14.57	17.52	20.47	23.43	26.38	28.74	36.22	1.000	52	52
6.79	7.28	8.27	9.25	10.24	11.22	12.20	14.17	17.13	20.08	23.03	25.98	28.35	35.83	1.000	56	56
6.40 6.01	6.89 6.50	7.87 7.48	8.86 8.47	9.84 9.45	10.82 10.43	11.81 11.42	13.78 13.39	16.73 16.34	19.68 19.29	22.64 22.25	25.59 25.20	27.95 27.56	35.43 35.04	1.000	60 64	60 64
5.61	6.10	7.09	8.07	9.06	10.04	11.02	12.99	15.95	18.90	21.85	24.80	27.17	34.65	1.000	68	68
7.92	8.41	9.40	10.38	11.37	12.35	13.33	15.30	18.26	21.21	24.16	27.11	29.48	36.96	1.023	44	45
9.80 7.29	10.29 7.78	11.27 8.76	12.26 9.75	13.24 10.73	14.22 11.71	15.21 12.70	17.18 14.67	20.13 17.62	23.08 20.57	26.04 23.53	28.99 26.48	31.35 28.84	38.83 36.32	1.040 1.040	25 50	26 52
9.89	10.38	11.37	12.35	13.34	14.32	15.30	17.27	20.23	23.18	26.13	29.08	31.45	38.93	1.042	24	25
7.48	7.97	8.96	9.94	10.93	11.91	12.89	14.86	17.82	20.77	23.72	26.67	29.04	36.52	1.042	48	50
9.99 10.09	10.48 10.58	11.47 11.57	12.45 12.55	13.44 13.54	14.42 14.52	15.40 15.50	17.37 17.47	20.33 20.43	23.28 23.38	26.23 26.33	29.18 29.28	31.55 31.65	39.03 39.13	1.043 1.045	23 22	24 23
10.19	10.68	11.66	12.65	13.63	14.61	15.60	17.57	20.52	23.47	26.43	29.38	31.74	39.22	1.048	21	22
10.29	10.78	11.76	12.75	13.73	14.71	15.70	17.67	20.62	23.57	26.53	29.48	31.84	39.32	1.050	20	21
10.39 8.47	10.88 8.96	11.86 9.94	12.85 10.93	13.83 11.91	14.81 12.89	15.80 13.88	17.77 15.85	20.72 18.80	23.67 21.75	26.63 24.71	29.58 27.66	31.94 30.02	39.42 37.50	1.053 1.053	19 38	20 40
10.48	10.97	11.96	12.94	13.93	14.91	15.89	17.86	20.82	23.77	26.72	29.67	32.04	39.52	1.056	18	19
8.66	9.15	10.14	11.12	12.11	13.09	14.07	16.04	19.00	21.95	24.90	27.85	30.22	37.70	1.056	36	38
8.86 5.41	9.35 5.90	10.34 6.89	11.32 7.87	12.31 8.86	13.29 9.84	14.27 10.82	16.24 12.79	19.20 15.75	22.15 18.70	25.10 21.66	28.05 24.61	30.42 26.97	37.90 34.45	1.059 1.059	34 68	36 72
9.06	9.55	10.53	11.52	12.50	13.48	14.47	16.44	19.39	22.34	25.30	28.25	30.61	38.09	1.063	32	34
5.81	6.30	7.28	8.27	9.25	10.23	11.22	13.19	16.14	19.09	22.05	25.00	27.36	34.84	1.063	64	68
9.25	9.74 8.22	10.73 9.20	11.71	12.70	13.68	14.66	16.63 15.11	19.59 18.06	22.54 21.01	25.49 23.97	28.44 26.92	30.81	38.29	1.067	30 45	32 48
7.73 6.20	6.69	7.68	10.19 8.66	11.17 9.65	12.15 10.63	13.14 11.61	13.58	16.54	19.49	22.44	25.39	29.28 27.76	36.76 35.24	1.067	60	64
9.45	9.94	10.93	11.91	12.90	13.88	14.86	16.83	19.79	22.74	25.69	28.64	31.01	38.49	1.071	28	30
6.59 9.65	7.08 10.14	8.07 11.12	9.06 12.11	10.04 13.09	11.02 14.07	12.01 15.06	13.98 17.03	16.93 19.98	19.88 22.93	22.84 25.89	25.79 28.84	28.15 31.20	35.63 38.68	1.071 1.077	56 26	60 28
6.99	7.48	8.46	9.45	10.43	11.41	12.40	14.37	17.32	20.27	23.23	26.18	28.54	36.02	1.077	52	56
9.84	10.33	11.32	12.30	13.29	14.27	15.25	17.22	20.18	23.13	26.08	29.03	31.40	38.88	1.083	24	26
7.38	7.87	8.86	9.84	10.83	11.81	12.79	14.76	17.72	20.67	23.62	26.57	28.94	36.42	1.083	48	52
9.94 10.04	10.43 10.53	11.42 11.52	12.40 12.50	13.39 13.49	14.37 14.47	15.35 15.45	17.32 17.42	20.28	23.23	26.18 26.28	29.13 29.23	31.50 31.60	38.98 39.08	1.087	23	25 24
7.78	8.27	9.25	10.24	11.22	12.20	13.19	15.16	18.11	21.06	24.02	26.97	29.33	36.81	1.091	44	48
10.14	10.63	11.61	12.60	13.58	14.56	15.55	17.52	20.47	23.42	26.38	29.33	31.69	39.17	1.095	21	23
10.24 8.17	10.73 8.66	11.71 9.65	12.70 10.63	13.68 11.62	14.66 12.60	15.65 13.58	17.62 15.55	20.57 18.51	23.52 21.46	26.48 24.41	29.43 27.36	31.79 29.73	39.27 37.21	1.100	20 40	22 44
10.34	10.83	11.81	12.80	13.78	14.76	15.75	17.72	20.67	23.62	26.58	29.53	31.89	39.37	1.105	19	21
10.43	10.92	11.91	12.89	13.88	14.86	15.84	17.81	20.77	23.72	26.67	29.62	31.99	39.47	1.111	18	20
8.56 7.63	9.05 8.12	10.04 9.10	11.02 10.09	12.01 11.07	12.99 12.05	13.97 13.04	15.94 15.01	18.90 17.96	21.85 20.91	24.80 23.87	27.75 26.82	30.12 29.18	37.60 36.66	1.111	36 45	40 50
8.76	9.25	10.24	11.22	12.21	13.19	14.17	16.14	19.10	22.05	25.00	27.95	30.32	37.80	1.118	34	38
9.70	10.19	11.17	12.16	13.14	14.12	15.11	17.08	20.03	22.98	25.94	28.89	31.25	38.73	1.120	25	28
7.09	7.58	8.56	9.55	10.53	11.51	12.50	14.47	17.42	20.37	23.33	26.28	28.64	36.12	1.120	50	56
0.97	0.98	1.00	1.01	1.03	1.05	1.06	1.09	1.13	1.16	1.19	1.22	1.24	1.29			

^{*}This length correction factor must be used to determine the proper belt width.

Center Distance is greater than eight times the small diameter and the large sprocket is not flanged. See Engineering Section I-10, Use of Flanged Sprockets, on page 134.



32 2.005 36 2.266 1.125 2.56 3.64 4.03 4.53 4.62 5.02 5.51 6.49 7.13 7.77 8.06 44 0.2506 44 2.280 1.125 3.09 3.78 4.62 5.02 5.51 6.49 7.13 7.77 8.06 4.010 72 4.511 1.125 3.09 3.78 4.02 5.02 5.51 6.64 7.23 1.421 2.130 3.09 3.78 4.23 4.72 4.82 5.21 5.71 6.69 7.33 7.97 8.22 1.30 3.00 3.78 4.23 4.72 4.82 5.21 5.71 6.69 7.33 7.97 8.22 1.377 2.5 1.566 1.138 5.59 4.68 5.07 5.56 5.66 5.56 5.55 5.35 5.25 1.25 2.20 8.84 5.11 4.27 4.27 5.20 5.20 5.20 5.20 5.20 5.20 5.20 5.20	Sp	procket Co	mbinations							Canta	r Diete	noo I	noboo				
32 2.005 38 2.266 1.125 2.56 3.04 4.03 4.53 4.62 5.02 5.51 6.49 7.18 7.77 8.09 4.72 4.18 4.07 5.66 3.50 9.04 7.22 4.14 4.07 2.61 1.11 1.12 4.22 4.72 4.82 5.26 5.56 5.56 5.56 6.58 7.73 7.77 8.07 30 1.880 34 2.130 1.133 2.75 3.84 4.23 4.72 4.82 5.21 5.71 6.69 7.73 7.77 8.00 2.1 1.77 2.5 1.666 1.135 3.59 4.68 5.07 5.56 5.56 5.57 5.57 5.66 6.64 7.62 2.88 9.61 6.22 1.23 2.21 5.50 6.64 7.62 5.26 8.52 5.76 5.56 6.53 6.64 7.62 8.89 5.23 8.89 1.83 8.23 8.81 5.44 <	Drive	R	Dri	veN					'	Cente	r Dista	ince, i	ncnes	5			
40 2.506 45 2.820 11.25 3.94 4.58 4.97 5.66 5.65 5.65 5.65 6.65 7.33 8.12 8.71 9.00 9.30 1.880 34 2.130 1.133 2.75 3.84 4.23 4.72 4.82 5.56 5.65 6.65 7.53 8.22 8.71 9.00 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.25 9.	of [Diameter (Inches)	of Grooves	Diameter (Inches)	Ratio											5MR-580 P.L 22.835 116 teeth	5MR-600 P.L 23.622 120 teeth
64 4.010 72 4.511 126 1629 1300 349 4.88 4.97 5.46 5.56 5.95 6.45 7.49 8.12 4.72 9.00 330 1.880 34 2.130 1.133 2.75 3.84 4.23 4.72 4.82 5.21 5.71 6.99 7.38 7.97 8.22 8.11 1.133 1.136 1.133 1.136 1.133 1.136 1.133 1.136 1.133 1.136 1.133 1.136 1.136 1.133 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136 1.136						2.56	3.64									8.07	8.46
23 1.441 26 1.629 1.130 3.49 4.88 4.97 5.46 5.56 5.95 6.45 7.43 8.12 8.71 9.00 30 1.880 3.4 2.13 2.75 3.84 4.23 4.72 4.82 5.21 5.71 6.99 7.39 8.22 40 2.757 5.03 3.133 1.136 3.89 4.75 5.16 5.66 5.76 6.15 6.16 7.62 7.59 6.98 9.99 9.22 21 1.316 22 1.534 3.33 1.33 1.36 8.87 5.56 5.56 5.56 5.56 6.16 6.75 7.53 8.22 8.99 9.22 20 1.253 23 1.411 1.150 3.79 4.87 5.26 5.76 5.56 6.25 6.74 7.72 8.21 8.17 4.50 50 1.253 23 1.151 1.151 3.15 4.23 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>3.19</td><td>3.69</td><td>3.78</td><td>4.18</td><td>4.67</td><td>5.65</td><td>6.35</td><td></td><td></td><td>7.63 5.11</td></t<>								3.19	3.69	3.78	4.18	4.67	5.65	6.35			7.63 5.11
1880 34 2130 1133 2.75 3.84 4.23 4.72 4.82 5.21 5.71 6.96 7.38 7.97 818 5.11						3.49	4.58	4.97	5.46	5.56	5.95	6.45	7.43	8.12		9.00	9.40
1379 25 1566 1156 3.59 4.88 5.07 5.56 5.66 6.05 5.75 5.22 8.28 8.84 6.77																8.26	8.66
44 2.757 50 3.133 1.136 - 3.34 3.73 4.23 5.21 5.90 6.49 6.72 28 1.754 22 2.005 1.143 2.95 4.04 4.43 4.92 5.02 5.41 5.91 6.88 7.58 8.17 8.48 20 1.283 2.3 1.441 1.150 3.79 4.87 5.26 5.76 5.85 6.25 6.74 7.77 8.30 8.90 9.20 52 3.258 60 3.760 1.154 3.5 4.26 5.12 5.56 5.66 5.85 6.25 6.74 7.77 8.36 6.66 5.28 1.50 8.41 7.77 8.36 8.66 5.90 6.35 6.84 7.82 8.51 9.10 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0 9.0																5.11	5.50
1316						3.59	4.68	5.07	5.56								9.50
1.754 32 2.005						3 69	4 77	5 16	5 66								7.18 9.59
20							l									8.46	8.86
26																5.50	5.90
52 3.258 60 3.760 1.154 8 9 5 8.26 8 4.08 5.06 5.75 6.34 6.96 19 1.191 2.2 1.379 1.188 3.89 4.97 5.36 5.86 5.95 6.35 6.84 7.82 8.51 9.10 9.44 18 1.128 2.21 1.316 1.167 3.98 5.07 5.46 5.95 6.05 6.44 6.97 7.97 8.56 8.82 48 3.008 5.6 3.509 1.167 3.34 4.43 4.82 5.31 5.41 5.80 6.07 7.28 8.51 9.20 9.55 48 2.00 3.50 1.167 3.34 4.43 4.82 4.72 5.22 6.20 6.89 7.48 1.72 22 1.379 2.0 3.52 3.54 4.63 5.02 5.51 5.61 6.00 6.50 7.48 8.77 8.66 <td></td> <td>9.30</td> <td>9.69</td>																9.30	9.69
45 2.820 52 3.258 1.156 1.91 1.156 1.91 1.156 1.91 1.191 1.22 1.379 1.158 3.89 4.97 5.36 5.86 5.95 6.35 6.84 7.82 8.51 9.10 9.44 3.83 3.231 4.4 2.757 1.158 2.95 3.34 3.84 3.93 4.33 4.82 5.80 6.49 7.08 7.08 7.82 2.4 1.504 2.9 1.167 3.98 5.07 5.46 5.96 6.05 6.44 6.94 7.92 8.51 9.10 9.44 3.000 5.6 3.599 1.167 3.94 4.43 4.82 5.31 5.41 5.80 6.30 7.28 7.97 8.56 8.86 3.000 5.6 3.599 1.167 3.34 4.82 5.31 5.41 5.80 6.30 7.28 7.97 8.56 8.86 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20 3.20						3.15	4.23	4.62	5.12	5.21	5.61	6.10					9.05 6.29
19											3.58	4.08					7.03
18						3.89	4.97	5.36	5.86	5.95						9.40	9.79
448 3.008 56 3.99 1.167 3.34 4.43 4.82 5.31 5.41 5.80 6.30 7.28 7.97 8.56 8.86 34 2.130 8.60 5.20 5.117 5.41 6.00 6.25 34 2.130 8.00 5.01 1.176 3.34 3.73 4.23 4.32 4.72 5.22 6.20 6.89 7.48 7.77 44 2.157 26 1.629 1.182 3.54 4.63 5.02 5.51 5.51 6.00 6.50 7.48 8.17 8.76 9.05 44 2.757 25 3.256 1.182 3.54 3.33 4.33 4.43 4.52 4.92 5.41 6.39 7.08 6.67 7.08 7.67 7.93 3.6 2.2005 3.83 4.21 9.02 1.11 6.61 6.69 7.67 7.93 8.6 9.12 1.11 6.69 7.67 7.03							l									7.38	7.77
48 3.008 56 3.509 1.167																9.50	9.89
43 2130 40 2506 1176 3.34 3.73 4.23 4.32 4.72 5.22 6.20 6.89 7.48 7.77 22 1.379 26 1.629 1.182 3.54 4.63 5.02 5.51 5.61 6.00 6.50 7.48 8.17 8.76 9.05 44 2.757 52 3.288 1.182 3.54 4.63 5.02 5.51 5.61 6.00 6.50 7.48 8.17 8.76 6.66 9.05 6.66 3.63 4.13 5.11 5.61 6.71 6.60 6.00 6.60 6.60 7.67 7.93 6.66 7.03 7.88 8.27 8.77 5.75 6.44 7.03 7.33 7.23 2.205 5.1566 5.151 5.61 5.71 5.80 6.20 6.69 7.67 7.93 7.62 7.93 7.83 8.22 3.74 4.13 4.62 4.72 5.11 5.61 6.51 <td></td> <td></td> <td></td> <td></td> <td></td> <td>3.34</td> <td>4.43</td> <td>4.82</td> <td>5.31</td> <td>5.41</td> <td>5.80</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>9.25 6.69</td>						3.34	4.43	4.82	5.31	5.41	5.80						9.25 6.69
Reg 4261 80 5013 1176 22 1379 26 1629 1182 3.54 4.63 5.02 5.51 5.61 6.00 6.50 7.48 817 8.76 9.06 4.4 2.757 52 3.288 11.82 3.29 3.78 3.88 4.27 4.77 5.75 5.80 6.39 6.65 6.38 3.291 3.29 3.78 3.88 4.27 4.77 5.75 6.44 7.03 7.33 7.33 2.2005 38 2.381 1.188 3.54 3.93 4.43 4.52 4.92 5.41 6.39 7.08 7.67 7.37 7.67 7.37 8.86 9.15 7.20 1.235 2.24 1.504 1.200 3.74 4.82 5.21 5.71 5.50 6.20 6.69 7.67 8.36 8.95 9.25 2.55 1.566 3.01 1.80 1.200 3.74 4.82 5.21 5.71 5.20 5.66 6.15 7.13 7.82 8.41 8.71 8.76 9.00 8.70 8.70 8.70 8.70 8.78 8.95 9.25 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70 8.70							3.34	3.73	4.23	4.32	4.72					7.77	8.17
44 2.757 52 3.258 1.182																	
38 2.381 45 2.290 1.184 3.29 3.78 3.88 4.27 4.77 5.75 6.44 7.03 7.33 21 1.316 25 1.566 1.190 3.64 4.72 5.11 5.61 5.71 6.00 6.60 7.58 3.27 8.86 9.15 20 1.253 24 1.504 1.200 3.74 4.82 5.21 5.71 5.80 6.20 6.69 7.67 8.36 8.95 9.25 25 1.566 30 1.880 1.200 2.65 3.74 4.13 4.62 4.72 5.11 5.61 6.57 7.13 7.82 8.41 30 1.880 3.08 1.200 2.65 3.74 4.13 4.62 4.72 5.11 5.61 6.59 7.28 7.87 8.16 40 2.506 4.8 3.03 4.200 3.76 1.20 4.42 5.31 5.81 5.90 <						3.54	4.63	5.02	5.51	5.61						9.05	9.45
32 2.005 38 2.381 1.188 3.54 3.93 4.43 4.52 5.14 6.69 7.68 2.77 7.67 7.93 20 1.253 24 1.504 1.200 3.74 4.82 5.21 5.71 5.80 6.20 6.69 7.67 3.36 8.95 9.25 25 1.566 3.0 1.880 1.200 2.65 3.74 4.13 4.62 4.72 5.11 5.66 6.57 7.73 7.82 8.41 8.74 40 2.506 4.83 3.08 1.200 2.65 3.74 4.13 4.62 4.72 5.11 5.66 6.55 6.69 7.87 7.87 8.16 50 3.133 60 3.760 1.200 3.54 4.33 4.82 5.50 6.19 6.78 7.00 28 1.754 3.42 1.214 2.86 3.34 4.33 4.82 5.31 5.90								0.00	0.70	0.00							7.08
21							3.54										7.72 8.36
20						3.64											9.55
30	20															9.25	9.64
40 2.506 48 3.088 1.200 3.54 3.63 4.03 4.52 5.50 6.19 6.78 7.05 50 3.736 72 4.511 1.200 4.61 1.200 4.61 4.92 5.31 5.90 6.30 6.79 7.77 8.46 9.05 9.38 28 1.754 34 2.130 1.214 2.85 3.94 4.33 4.82 4.92 5.31 5.81 6.79 7.77 8.46 9.05 9.38 28 1.754 34 2.130 1.214 2.85 3.94 4.83 4.82 4.92 5.31 5.81 6.79 7.78 8.46 9.05 9.38 23 1.118 22 1.379 1.222 3.93 5.02 5.06 5.56 5.65 5.55 6.55 7.33 8.02 8.61 8.90 36 2.256 44 2.757 1.222 3.04 4.87 5.56 <																8.71	9.10
50 3.133 60 3.760 1.200 4.41 5.70 5.98 60 3.760 72 4.511 1.200 4.61 4.92 5.31 5.81 5.90 6.30 6.79 7.77 8.46 9.05 9.33 28 1.754 34 2.130 1.214 2.85 3.94 4.33 4.82 4.92 5.31 5.81 6.79 7.48 8.07 8.36 56 3.509 68 4.261 1.217 3.39 4.48 4.87 5.36 5.46 5.85 6.35 7.33 8.02 8.61 8.90 18 1.128 22 1.379 1.222 3.93 5.02 5.41 5.90 6.09 6.89 7.87 8.56 9.15 9.48 36 2.256 44 2.757 1.222 3.93 4.04 3.03 4.42 4.92 5.90 6.59 7.18 7.47 6 1.629 3.2						2.65	3.74	4.13								8.16	8.56
60 3.760 72 4.511 1.200 3.84 4.92 5.31 5.81 5.90 6.30 6.79 7.77 8.46 9.05 9.32 28 1.754 34 2.130 1.214 2.85 3.94 4.82 4.92 5.31 5.81 6.79 7.77 8.46 9.05 9.35 56 3.509 68 4.261 1.214 3.93 4.48 4.87 5.36 5.46 5.85 6.35 7.33 8.02 8.61 8.90 18 1.128 22 1.379 1.222 3.93 5.02 5.41 5.90 6.00 6.89 7.87 8.56 9.15 9.46 36 2.256 44 2.757 1.222 3.93 5.02 5.11 5.51 6.00 6.89 7.67 8.26 8.56 52 3.258 64 4.01 1.231 3.05 4.13 4.52 5.02 5.11 5.51 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>3.54</td><td>3.63</td><td>4.03</td><td>4.52</td><td></td><td></td><td></td><td></td><td>7.48 6.39</td></td<>									3.54	3.63	4.03	4.52					7.48 6.39
19													7.72	0.11		4.90	5.30
56 3.509 68 4.261 1.214 8 4.87 5.36 5.46 5.85 6.35 7.33 8.02 8.61 8.91 18 1.128 22 1.379 1.222 3.93 5.02 5.41 5.90 6.00 6.39 6.89 7.87 8.56 9.15 9.44 36 2.256 44 2.757 1.222 3.04 3.43 3.93 4.03 4.42 4.92 5.90 6.59 7.18 7.47 26 1.629 32 2.005 1.231 3.05 4.13 4.52 5.02 5.11 5.51 6.00 6.98 7.67 8.26 8.56 52 3.283 64 4.010 1.231 3.59 4.67 5.06 5.56 5.65 6.05 6.55 7.53 8.22 8.81 9.10 45 2.820 56 3.509 1.244 3.34 4.72 5.21 5.31 5.70 6						3.84	4.92	5.31	5.81	5.90	6.30	6.79	7.77	8.46		9.35	9.74
23 1.441 28 1.754 1.217 3.39 4.48 4.87 5.36 5.46 5.85 6.35 7.33 8.02 8.61 8.90 18 1.128 22 1.379 1.222 3.93 5.02 5.41 5.90 6.09 6.89 7.87 8.56 9.15 9.45 26 1.629 32 2.005 1.231 3.05 4.13 4.52 5.02 5.11 5.51 6.00 6.98 7.67 8.26 8.56 52 3.258 64 4.010 1.231 3.59 4.67 5.06 5.56 5.65 6.05 6.55 7.53 8.22 8.81 9.10 21 1.316 26 1.629 1.238 3.59 4.67 5.06 5.56 5.65 6.05 7.53 8.22 8.81 9.10 45 2.820 56 3.509 1.244 3.34 4.72 5.16 5.66 5.75 <t< td=""><td></td><td></td><td></td><td></td><td></td><td>2.85</td><td>3.94</td><td>4.33</td><td>4.82</td><td>4.92</td><td>5.31</td><td>5.81</td><td>6.79</td><td></td><td></td><td>8.36</td><td>8.76</td></t<>						2.85	3.94	4.33	4.82	4.92	5.31	5.81	6.79			8.36	8.76
18 1.128 22 1.379 1.222 3.93 5.02 5.41 5.90 6.00 6.39 6.89 7.87 8.56 9.15 9.45 36 2.256 44 2.757 1.222 3.04 3.43 3.93 4.03 4.42 4.92 5.90 6.59 7.18 7.47 26 1.629 32 2.005 1.231 3.05 4.13 4.52 5.02 5.11 5.51 6.00 6.98 7.67 8.26 8.56 52 3.258 64 4.010 1.231						0.00	4.40	4.07	F 00	5.40	5.05	0.05	7.00				5.70
36 2.256 44 2.757 1.222 3.04 3.43 3.93 4.03 4.42 4.92 5.90 6.59 7.18 7.47 26 1.629 32 2.005 1.231 3.05 4.13 4.52 5.02 5.11 5.51 6.00 6.98 7.67 8.26 8.25 52 3.258 64 4.010 1.231 3.59 4.67 5.06 5.56 6.05 6.55 7.53 8.22 8.81 9.10 45 2.820 56 3.509 1.244 4 4.77 5.16 5.66 5.75 6.15 6.64 7.62 8.31 8.90 9.22 24 1.504 30 1.880 1.250 3.24 4.33 4.72 5.21 5.31 5.70 6.20 7.18 7.87 7.87 36 2.256 45 2.820 1.250 3.44 3.83 3.83 3.87 4.87 5.66 6																	9.30 9.84
26 1.629 32 2.005 1.231 3.05 4.13 4.52 5.02 5.11 5.51 6.00 6.98 7.67 8.26 8.56 52 3.258 64 4.010 1.231 3.59 4.67 5.06 5.56 5.65 6.05 6.55 7.53 8.22 8.81 9.10 45 2.820 56 3.599 1.244 8.66 5.56 5.66 5.75 6.15 6.64 7.62 8.31 8.90 9.20 24 1.504 30 1.880 1.250 3.24 4.33 4.72 5.21 5.31 5.70 6.20 7.18 7.87 8.46 8.76 32 2.005 40 2.506 1.250 3.24 4.33 4.32 4.42 4.82 5.31 6.29 6.98 7.57 7.87 36 2.256 45 2.820 1.250 2.99 3.38 3.88 3.97 4.42 <t< td=""><td></td><td></td><td></td><td></td><td></td><td>0.50</td><td>l</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>7.47</td><td>7.87</td></t<>						0.50	l									7.47	7.87
21 1.316 26 1.629 1.238 3.59 4.67 5.06 5.56 5.65 6.05 6.55 7.53 8.22 8.81 9.10 45 2.820 56 3.509 1.244 5 6.66 5.75 6.15 6.64 7.62 8.31 8.90 9.20 24 1.504 30 1.880 1.250 3.24 4.33 4.72 5.21 5.31 5.70 6.20 7.18 7.87 8.46 8.76 32 2.005 40 2.506 1.250 3.44 3.83 4.32 4.42 4.82 5.31 6.29 6.98 7.57 7.87 36 2.256 45 2.820 1.250 2.99 3.38 3.88 3.97 4.37 4.87 5.85 6.54 7.13 7.42 40 2.506 50 3.133 1.250 2.99 3.38 3.83 3.92 4.42 5.40 6.09 6						3.05		4.52				6.00			8.26	8.56	8.95
45 2.820 56 3.509 1.244 3.69 4.77 5.16 5.66 5.75 6.15 6.64 7.62 8.31 8.90 9.20 24 1.504 30 1.880 1.250 3.24 4.33 4.72 5.21 5.31 5.70 6.20 7.18 7.87 7.87 32 2.005 40 2.506 1.250 3.44 3.83 4.32 4.42 4.82 5.31 6.29 6.98 7.57 7.87 36 2.256 45 2.820 1.250 2.99 3.38 3.83 3.97 4.37 4.87 5.85 6.54 7.13 7.42 40 2.506 50 3.133 1.250 2.99 3.38 3.83 3.92 4.42 5.40 6.09 6.68 6.98 48 3.008 60 3.760 1.250 2.5 5.76 5.85 6.25 6.74 7.72 8.41 9.0																5.69	6.09
20 1.253 25 1.566 1.250 3.69 4.77 5.16 5.66 5.75 6.15 6.64 7.62 8.31 8.90 9.20 24 1.504 30 1.880 1.250 3.24 4.33 4.72 5.21 5.31 5.70 6.20 7.18 7.87 8.46 8.76 32 2.005 40 2.506 1.250 2.99 3.38 3.88 3.97 4.37 4.87 5.85 6.54 7.13 7.47 40 2.506 50 3.133 1.250 2.99 3.38 3.88 3.97 4.37 4.87 5.85 6.54 7.13 7.42 48 3.008 60 3.760 1.250 8.76 8.81 8.90 9.30 4.87 5.26 5.76 5.85 6.25 6.74 7.72 8.41 9.00 9.30 38 2.381 4.81 1.263 3.79 4.87 5.26 <						3.59	4.67	5.06	5.56	5.65	6.05						9.50
24 1.504 30 1.880 1.250 3.24 4.33 4.72 5.21 5.31 5.70 6.20 7.18 7.87 8.46 8.76 32 2.005 40 2.506 1.250 3.44 3.83 4.32 4.42 4.82 5.31 6.29 6.98 7.57 7.87 36 2.256 45 2.820 1.250 2.99 3.38 3.88 3.97 4.37 4.87 5.85 6.54 7.13 7.42 40 2.506 50 3.133 1.250 8 8.86 6.98 6.98 6.98 6.98 6.98 6.98 6.98 6.98 6.98 6.98 6.98 6.98 6.98 6.98 6.98 6.98 6.98 6.98 6.98 6.98 6.98 6.98 6.98 6.98 6.98 6.98 6.98 6.98 6.98 6.98 6.98 6.98 6.98 6.98 6.98 6.98 6.98 6.98 6.98 6.98 6.98 6.98 6.98 6.98 6.98 6.98<						3 69	A 77	5 16	5 66	5 75	6 15						6.83 9.59
32 2.005 40 2.506 1.250 3.44 3.83 4.32 4.42 4.82 5.31 6.29 6.98 7.57 7.87 36 2.256 45 2.820 1.250 2.99 3.38 3.88 3.97 4.37 4.87 5.85 6.54 7.13 7.42 40 2.506 50 3.133 1.250 8.343 3.53 3.92 4.42 5.40 6.09 6.68 6.98 48 3.008 60 3.760 1.250 8.76 8.76 8.76 8.78 8.78 8.78 8.78 8.78 8.78 8.78 8.78 8.78 8.88 8.88 8.81 9.00 9.30 9.30 9.30 9.30 9.30 9.30 9.30 9.30 9.30 9.30 9.30 9.30 9.30 9.30 9.30 9.30 9.30 9.30 9.30 9.30 9.30 9.30 9.30 9.30 9.30 9.30																8.76	9.15
40 2.506 50 3.133 1.250 3.43 3.53 3.92 4.42 5.40 6.09 6.68 6.98 48 3.008 60 3.760 1.250 3.79 4.87 5.26 5.76 5.85 6.25 6.74 7.72 8.41 9.00 9.30 38 2.381 48 3.008 1.263 3.79 4.87 5.26 5.76 5.85 6.25 6.74 7.72 8.41 9.00 9.30 30 1.880 38 2.381 1.263 3.79 4.87 5.26 5.76 5.85 6.25 6.74 7.72 8.41 9.00 9.30 30 1.880 38 2.381 1.267 2.55 3.63 4.03 4.52 4.62 5.01 5.40 9.718 7.77 8.06 44 2.757 56 3.509 1.273 3.44 4.53 4.92 5.41 5.51 5.90 6.40 <	32							3.83								7.87	8.26
48 3.008 60 3.760 1.250 4.87 5.26 5.76 5.85 6.25 6.74 7.72 8.41 9.00 9.30 19 1.191 24 1.504 1.263 3.79 4.87 5.26 5.76 5.85 6.25 6.74 7.72 8.41 9.00 9.30 38 2.381 48 3.008 1.263 3.79 4.87 5.26 5.76 5.85 6.25 6.74 7.72 8.41 9.00 9.30 30 1.880 38 2.381 1.267 2.55 3.63 4.03 4.52 4.62 5.60 6.29 6.88 7.18 22 1.379 28 1.754 1.273 3.44 4.53 4.92 5.41 5.51 5.90 6.40 7.38 8.07 8.66 8.95 44 2.757 56 3.509 1.273 3.44 4.53 4.92 5.41 5.51 5.90 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>2.99</td><td>3.38</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>7.42</td><td>7.82</td></t<>							2.99	3.38								7.42	7.82
64 4.010 80 5.013 1.250 4.87 5.26 5.76 5.85 6.25 6.74 7.72 8.41 9.00 9.30 38 2.381 48 3.008 1.263 3.79 4.87 5.26 5.76 5.85 6.25 6.74 7.72 8.41 9.00 9.30 30 1.880 38 2.381 1.263 2.55 3.63 4.03 4.52 4.62 5.60 6.29 6.88 7.18 22 1.379 28 1.754 1.273 3.44 4.53 4.92 5.41 5.51 5.90 6.40 7.38 8.07 8.66 8.95 44 2.757 56 3.509 1.273 3.88 4.97 5.36 5.86 5.95 6.35 6.84 7.82 8.51 9.10 9.40 25 1.566 32 2.005 1.280 3.09 4.18 4.57 5.07 5.16 5.56 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>3.43</td><td>3.53</td><td>3.92</td><td>4.42</td><td></td><td></td><td></td><td></td><td>7.37 6.48</td></t<>									3.43	3.53	3.92	4.42					7.37 6.48
19 1.191 24 1.504 1.263 3.79 4.87 5.26 5.76 5.85 6.25 6.74 7.72 8.41 9.00 9.30 38 2.381 48 3.008 1.263 3.13 3.63 3.72 4.12 4.62 5.60 6.29 6.88 7.18 30 1.880 38 2.381 1.267 2.55 3.63 4.03 4.52 4.62 5.01 5.51 6.49 7.18 7.77 8.06 22 1.379 28 1.754 1.273 3.44 4.53 4.92 5.41 5.51 5.90 6.40 7.38 8.07 8.66 8.95 44 2.757 56 3.509 1.273 3.88 4.97 5.36 5.86 5.95 6.35 6.84 7.82 8.51 9.10 9.4 25 1.566 32 2.005 1.280 3.09 4.18 4.57 5.07 5.16 <td< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>4.51</td><td>5.20</td><td>5.79</td><td>0.09</td><td>4.70</td></td<>													4.51	5.20	5.79	0.09	4.70
38 2.381 48 3.008 1.263 3.13 3.63 3.72 4.12 4.62 5.60 6.29 6.88 7.18 30 1.880 38 2.381 1.267 2.55 3.63 4.03 4.52 4.62 5.01 5.51 6.49 7.18 7.77 8.06 22 1.379 28 1.754 1.273 3.44 4.53 4.92 5.41 5.51 5.90 6.40 7.38 8.07 8.66 8.95 44 2.757 56 3.509 1.273 3.88 4.97 5.36 5.86 5.95 6.35 6.84 7.82 8.51 9.10 9.4 18 1.128 23 1.441 1.278 3.88 4.97 5.36 5.86 5.95 6.35 6.84 7.82 8.51 9.10 9.4 25 1.566 32 2.005 1.280 3.09 4.18 4.57 5.07 5.16						3.79	4.87	5.26	5.76	5.85	6.25	6.74	7.72	8.41	9.00	9.30	9.69
22 1.379 28 1.754 1.273 3.44 4.53 4.92 5.41 5.51 5.90 6.40 7.38 8.07 8.66 8.95 44 2.757 56 3.509 1.273 3.88 4.97 5.36 5.86 5.95 6.35 6.84 7.82 8.51 9.10 9.40 25 1.566 32 2.005 1.280 3.09 4.18 4.57 5.07 5.16 5.56 6.05 7.03 7.72 8.31 8.61 50 3.133 64 4.010 1.280 3.09 4.18 4.57 5.07 5.16 5.56 6.05 7.03 7.72 8.31 8.61 28 1.754 36 2.256 1.286 2.74 3.83 4.22 4.72 4.81 5.21 5.71 6.69 7.38 7.97 8.26 56 3.509 72 4.511 1.286 9.15 4.72 4.81 5.21 5.71 5.99 6.68 7.28 7.57 20 1.253 <td>38</td> <td>2.381</td> <td>48</td> <td>3.008</td> <td>1.263</td> <td></td> <td></td> <td>3.13</td> <td>3.63</td> <td>3.72</td> <td>4.12</td> <td>4.62</td> <td>5.60</td> <td>6.29</td> <td>6.88</td> <td>7.18</td> <td>7.57</td>	38	2.381	48	3.008	1.263			3.13	3.63	3.72	4.12	4.62	5.60	6.29	6.88	7.18	7.57
44 2.757 56 3.509 1.273 3.88 4.97 5.36 5.86 5.95 6.35 6.84 7.82 8.51 9.10 9.40 25 1.566 32 2.005 1.280 3.09 4.18 4.57 5.07 5.16 5.56 6.05 7.03 7.72 8.31 8.61 50 3.133 64 4.010 1.280 2.74 3.83 4.22 4.72 4.81 5.21 5.71 6.69 7.38 7.97 8.26 28 1.754 36 2.256 1.286 2.74 3.83 4.22 4.72 4.81 5.21 5.71 6.69 7.38 7.97 8.26 34 2.130 44 2.757 1.294 3.14 3.53 4.02 4.12 4.52 5.01 5.99 6.68 7.28 7.57 20 1.253 26 1.629 1.300 3.64 4.72 5.11 5.61 <t< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td>l</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td>8.06</td><td>8.46</td></t<>							l									8.06	8.46
18 1.128 23 1.441 1.278 3.88 4.97 5.36 5.86 5.95 6.35 6.84 7.82 8.51 9.10 9.40 25 1.566 32 2.005 1.280 3.09 4.18 4.57 5.07 5.16 5.56 6.05 7.03 7.72 8.31 8.61 50 3.133 64 4.010 1.280						3.44	4.53	4.92	5.41	5.51	5.90					8.95	9.35
25 1.566 32 2.005 1.280 3.09 4.18 4.57 5.07 5.16 5.56 6.05 7.03 7.72 8.31 8.61 50 3.133 64 4.010 1.280 2.74 3.83 4.22 4.72 4.81 5.21 5.71 6.69 7.38 7.97 8.26 56 3.509 72 4.511 1.286 2.74 3.83 4.22 4.72 4.81 5.21 5.71 6.69 7.38 7.97 8.26 34 2.130 44 2.757 1.294 3.14 3.53 4.02 4.12 4.52 5.01 5.99 6.68 7.28 7.57 20 1.253 26 1.629 1.300 3.64 4.72 5.11 5.61 5.70 6.10 6.59 7.57 8.26 8.85 9.15 40 2.506 52 3.258 1.300 3.29 4.38 4.77 5.26 <t< td=""><td></td><td></td><td></td><td></td><td></td><td>3 88</td><td>4 97</td><td>5 36</td><td>5 86</td><td>5 95</td><td>6.35</td><td></td><td></td><td></td><td></td><td>9.40</td><td>6.88 9.79</td></t<>						3 88	4 97	5 36	5 86	5 95	6.35					9.40	6.88 9.79
50 3.133 64 4.010 1.280 2.74 3.83 4.22 4.72 4.81 5.21 5.71 6.69 7.38 7.97 8.26 56 3.509 72 4.511 1.286 2.74 3.83 4.22 4.72 4.81 5.21 5.71 6.69 7.38 7.97 8.26 34 2.130 44 2.757 1.294 3.14 3.53 4.02 4.12 4.52 5.01 5.99 6.68 7.28 7.57 20 1.253 26 1.629 1.300 3.64 4.72 5.11 5.61 5.70 6.10 6.59 7.57 8.26 8.85 9.18 40 2.506 52 3.258 1.300 3.29 4.38 4.77 5.26 5.36 5.75 6.25 7.23 7.92 8.51 8.80																8.61	9.00
56 3.509 72 4.511 1.286 Secondary 4.02 4.79 5.09 5.09 4.20 4.79 5.09 5.09 6.68 7.28 7.57 7.57 2.0 1.253 2.6 1.629 1.300 3.64 4.72 5.11 5.61 5.70 6.10 6.59 7.57 8.26 8.85 9.15 9.15 4.02 4.32 3.33 3.42 3.82 4.32 5.30 5.99 6.58 6.88 6.88 23 1.441 30 1.880 1.304 3.29 4.38 4.77 5.26 5.36 5.75 6.25 7.23 7.92 8.51 8.80	50	3.133	64	4.010	1.280								4.21	4.90	5.49	5.79	6.18
34 2.130 44 2.757 1.294 3.14 3.53 4.02 4.12 4.52 5.01 5.99 6.68 7.28 7.57 20 1.253 26 1.629 1.300 3.64 4.72 5.11 5.61 5.70 6.10 6.59 7.57 8.26 8.85 9.15 40 2.506 52 3.258 1.300 3.33 3.42 3.82 4.32 5.30 5.99 6.58 6.88 23 1.441 30 1.880 1.304 3.29 4.38 4.77 5.26 5.36 5.75 6.25 7.23 7.92 8.51 8.80						2.74	3.83	4.22	4.72	4.81	5.21	5.71	6.69			8.26	8.66
20 1.253 26 1.629 1.300 3.64 4.72 5.11 5.61 5.70 6.10 6.59 7.57 8.26 8.85 9.15 40 2.506 52 3.258 1.300 3.33 3.42 3.82 4.32 5.30 5.99 6.58 6.88 23 1.441 30 1.880 1.304 3.29 4.38 4.77 5.26 5.36 5.75 6.25 7.23 7.92 8.51 8.80							214	0 50	4.00	410	4.50	E 01	E 00				5.49
40 2.506 52 3.258 1.300 3.33 3.42 3.82 4.32 5.30 5.99 6.58 6.88 23 1.441 30 1.880 1.304 3.29 4.38 4.77 5.26 5.36 5.75 6.25 7.23 7.92 8.51 8.80						3 64	l										7.97 9.54
23 1.441 30 1.880 1.304 3.29 4.38 4.77 5.26 5.36 5.75 6.25 7.23 7.92 8.51 8.80						5.04	7.12	3.11								6.88	7.27
Length Factor* 0.77 0.81 0.83 0.84 0.85 0.86 0.88 0.90 0.92 0.94 0.95						3.29	4.38	4.77								8.80	9.20
		Le	ngth Facto	r*		0.77	0.81	0.83	0.84	0.85	0.86	0.88	0.90	0.92	0.94	0.95	0.95

^{*}This length factor must be used to determine the proper belt width.

Center Distance is greater than eight times the small diameter and the large sprocket is not flanged. See Engineering Section I-10, Use of Flanged Sprockets, on page 134.



8.96 8.96 8.15 5.61 9.89 9.15 6.00 9.99 7.68 10.09 9.35 6.39 10.19 9.55 6.79 7.53 10.29 8.27 10.29 8.27	9.45 8.61 6.10 10.38 9.64 6.49 10.48 8.17 10.58 9.84 6.89 10.68 10.04 7.28 8.02 10.78 8.76 10.88	002-34WS 10-10-10-10-10-10-10-10-10-10-10-10-10-1	95.5 87.05 11.42 10.58 8.07 12.35 11.61 8.46 12.45 10.14 12.55 11.81 8.86 12.65 12.01 9.25	009-24W 12.40 11.57 9.05 13.34 12.60 9.45 13.44 11.12 13.53 12.80 9.84 13.63	997 ER 17 d 13.38 12.55 10.43 14.42 12.10 14.51 13.78 10.82	14.37 13.53 11.02 15.30 14.57 11.41 15.40 13.09 15.50	16.34 15.50 12.99 17.27 16.54 13.38 17.37 15.06	09,73 Have 10,20 Have	0000 Habital H	25.20 24.36 21.85 26.13	28.15 27.31 24.80	20.51 20.51 30.51 30.51 344 teeth	37.99 37.16 37.05 37.16 34.65	Speed Ratio 1.125 1.125 1.125	No. of grooves	No. of grooves
8.96 8.12 5.61 9.89 9.15 6.00 9.99 7.68 10.09 9.35 6.39 10.19 9.55 6.79 7.53 10.29 8.27 10.39 9.75	9.45 8.61 6.10 10.38 9.64 6.49 10.48 8.17 10.58 9.84 6.89 10.68 10.068 10.04 7.28 8.02 10.78	10.43 9.60 7.08 11.37 10.63 7.48 11.7 9.15 11.56 10.83 7.87 11.66 11.02 8.26 9.00	11.42 10.58 8.07 12.35 11.61 8.46 12.45 10.14 12.55 11.81 8.86 12.65 12.01 9.25	12.40 11.57 9.05 13.34 12.60 9.45 13.44 11.12 13.53 12.80 9.84 13.63	13.38 12.55 10.03 14.32 13.58 10.43 14.42 12.10 14.51 13.78	14.37 13.53 11.02 15.30 14.57 11.41 15.40 13.09	16.34 15.50 12.99 17.27 16.54 13.38 17.37 15.06	19.29 18.46 15.95 20.23 19.49 16.34 20.33	22.24 21.41 18.90 23.18 22.44	25.20 24.36 21.85	28.15 27.31 24.80	30.51 29.68	37.99 37.16	1.125 1.125	grooves 32 40	grooves 36
8.12 5.61 9.89 9.15 6.00 9.99 7.68 10.09 9.35 6.39 10.19 9.55 6.79 7.53 10.29 8.27 10.39 9.75	8.61 6.10 10.38 9.64 6.49 10.48 8.17 10.58 9.84 6.89 10.68 10.04 7.28 8.02 10.78	9.60 7.08 11.37 10.63 7.48 11.47 9.15 11.56 10.83 7.87 11.66 11.02 8.26 9.00	10.58 8.07 12.35 11.61 8.46 12.45 10.14 12.55 11.81 8.86 12.65 12.01 9.25	11.57 9.05 13.34 12.60 9.45 13.44 11.12 13.53 12.80 9.84 13.63	12.55 10.03 14.32 13.58 10.43 14.42 12.10 14.51 13.78	13.53 11.02 15.30 14.57 11.41 15.40 13.09	15.50 12.99 17.27 16.54 13.38 17.37 15.06	18.46 15.95 20.23 19.49 16.34 20.33	21.41 18.90 23.18 22.44	24.36 21.85	27.31 24.80	29.68	37.16	1.125	40	
5.61 9.89 9.15 6.00 9.99 7.68 10.09 9.35 6.39 10.19 9.55 6.79 7.53 10.29 8.27 10.39 9.75	6.10 10.38 9.64 6.49 10.48 8.17 10.58 9.84 6.89 10.68 10.04 7.28 8.02 10.78	7.08 11.37 10.63 7.48 11.47 9.15 11.56 10.83 7.87 11.66 11.02 8.26 9.00	8.07 12.35 11.61 8.46 12.45 10.14 12.55 11.81 8.86 12.65 12.01 9.25	9.05 13.34 12.60 9.45 13.44 11.12 13.53 12.80 9.84 13.63	10.03 14.32 13.58 10.43 14.42 12.10 14.51 13.78	11.02 15.30 14.57 11.41 15.40 13.09 15.50	12.99 17.27 16.54 13.38 17.37 15.06	15.95 20.23 19.49 16.34 20.33	18.90 23.18 22.44	21.85	24.80			1		1 1
9.89 9.15 6.00 9.99 7.68 10.09 9.35 6.39 10.19 9.55 6.79 7.53 10.29 8.27 10.39 9.75	10.38 9.64 6.49 10.48 8.17 10.58 9.84 6.89 10.68 10.04 7.28 8.02 10.78 8.76	11.37 10.63 7.48 11.47 9.15 11.56 10.83 7.87 11.66 11.02 8.26 9.00	12.35 11.61 8.46 12.45 10.14 12.55 11.81 8.86 12.65 12.01 9.25	13.34 12.60 9.45 13.44 11.12 13.53 12.80 9.84 13.63	14.32 13.58 10.43 14.42 12.10 14.51 13.78	15.30 14.57 11.41 15.40 13.09 15.50	17.27 16.54 13.38 17.37 15.06	20.23 19.49 16.34 20.33	23.18 22.44			27.17	34.00	.125		
9.15 6.00 9.99 7.68 10.09 9.35 6.39 10.19 9.55 6.79 7.53 10.29 8.27 10.39 9.75	9.64 6.49 10.48 8.17 10.58 9.84 6.89 10.68 10.04 7.28 8.02 10.78 8.76	10.63 7.48 11.47 9.15 11.56 10.83 7.87 11.66 11.02 8.26 9.00	11.61 8.46 12.45 10.14 12.55 11.81 8.86 12.65 12.01 9.25	12.60 9.45 13.44 11.12 13.53 12.80 9.84 13.63	13.58 10.43 14.42 12.10 14.51 13.78	14.57 11.41 15.40 13.09 15.50	16.54 13.38 17.37 15.06	19.49 16.34 20.33	22.44		29.08	31.45	38.93	1.130	64 23	72 26
6.00 9.99 7.68 10.09 9.35 6.39 10.19 9.55 6.79 7.53 10.29 8.27 10.39 9.75	6.49 10.48 8.17 10.58 9.84 6.89 10.68 10.04 7.28 8.02 10.78	7.48 11.47 9.15 11.56 10.83 7.87 11.66 11.02 8.26 9.00	8.46 12.45 10.14 12.55 11.81 8.86 12.65 12.01 9.25	9.45 13.44 11.12 13.53 12.80 9.84 13.63	10.43 14.42 12.10 14.51 13.78	11.41 15.40 13.09 15.50	13.38 17.37 15.06	16.34 20.33		25.40	28.35	30.71	38.19	1.133	30	34
7.68 10.09 9.35 6.39 10.19 9.55 6.79 7.53 10.29 8.27 10.39 9.75	8.17 10.58 9.84 6.89 10.68 10.04 7.28 8.02 10.78 8.76	9.15 11.56 10.83 7.87 11.66 11.02 8.26 9.00	10.14 12.55 11.81 8.86 12.65 12.01 9.25	11.12 13.53 12.80 9.84 13.63	12.10 14.51 13.78	13.09 15.50	15.06			22.24	25.19	27.56	35.04	1.133	60	68
10.09 9.35 6.39 10.19 9.55 6.79 7.53 10.29 8.27 10.39 9.75	10.58 9.84 6.89 10.68 10.04 7.28 8.02 10.78 8.76	11.56 10.83 7.87 11.66 11.02 8.26 9.00	12.55 11.81 8.86 12.65 12.01 9.25	13.53 12.80 9.84 13.63	14.51 13.78	15.50			23.28	26.23	29.18	31.55	39.03	1.136	22	25
9.35 6.39 10.19 9.55 6.79 7.53 10.29 8.27 10.39 9.75	9.84 6.89 10.68 10.04 7.28 8.02 10.78 8.76	10.83 7.87 11.66 11.02 8.26 9.00	11.81 8.86 12.65 12.01 9.25	12.80 9.84 13.63	13.78			18.01	20.96	23.92	26.87	29.23	36.71	1.136	44	50
6.39 10.19 9.55 6.79 7.53 10.29 8.27 10.39 9.75	6.89 10.68 10.04 7.28 8.02 10.78 8.76	7.87 11.66 11.02 8.26 9.00	8.86 12.65 12.01 9.25	9.84 13.63			17.47 16.73	20.42	23.37 22.64	26.33 25.59	29.28 28.54	31.65	39.13	1.143 1.143	21	24
10.19 9.55 6.79 7.53 10.29 8.27 10.39 9.75	10.68 10.04 7.28 8.02 10.78 8.76	11.66 11.02 8.26 9.00	12.65 12.01 9.25	13.63		14.76 11.81	13.78	19.69 16.73	19.68	22.64	25.59	30.91 27.95	38.39 35.43	1.143	28 56	32 64
9.55 6.79 7.53 10.29 8.27 10.39 9.75	10.04 7.28 8.02 10.78 8.76	11.02 8.26 9.00	12.01 9.25		14.61	15.60	17.57	20.52	23.47	26.43	29.38	31.74	39.22	1.150	20	23
7.53 10.29 8.27 10.39 9.75	8.02 10.78 8.76	9.00		12.99	13.97	14.96	16.93	19.88	22.83	25.79	28.74	31.10	38.58	1.154	26	30
8.27 10.39 9.75	10.78 8.76			10.23	11.22	12.20	14.17	17.13	20.08	23.03	25.98	28.35	35.83	1.154	52	60
8.27 10.39 9.75	8.76	11.76	9.99	10.97	11.95	12.94	14.91	17.87	20.82	23.77	26.72	29.09	36.57	1.156	45	52
10.39 9.75		9.74	12.75 10.73	13.73 11.71	14.71 12.69	15.70 13.68	17.67 15.65	20.62 18.60	23.57 21.55	26.53 24.51	29.48 27.46	31.84 29.82	39.32 37.30	1.158 1.158	19 38	22 44
9.75	10.00	11.86	12.85	13.83	14.81	15.80	17.77	20.72	23.67	26.63	29.58	31.94	39.42	1.167	18	21
	10.24	11.22	12.21	13.19	14.17	15.16	17.13	20.08	23.03	25.99	28.94	31.30	38.78	1.167	24	28
7.10	7.67	8.66	9.64	10.63	11.61	12.59	14.56	17.52	20.47	23.43	26.38	28.74	36.22	1.167	48	56
8.66	9.15	10.14	11.12	12.11	13.09	14.07	16.04	19.00	21.95	24.90	27.85	30.22	37.70	1.176	34	40
5.01	5.50	6.49	7.47	8.46	9.44	10.42	12.40	15.35	18.30	21.26	24.21	26.57	34.05	1.176	68	80
9.94 7.58	10.43 8.07	11.42 9.05	12.40 10.04	13.39 11.02	14.37 12.00	15.35 12.99	17.32 14.96	20.28 17.91	23.23 20.86	26.18 23.82	29.13 26.77	31.50 29.13	38.98 36.61	1.182 1.182	22 44	26 52
8.22	8.71	9.69	10.68	11.66	12.64	13.63	15.60	18.55	21.50	24.46	27.41	29.77	37.25	1.184	38	45
8.86	9.35	10.33	11.32	12.30	13.28	14.27	16.24	19.19	22.14	25.10	28.05	30.41	37.89	1.188	32	38
10.04	10.53	11.52	12.50	13.49	14.47	15.45	17.42	20.38	23.33	26.28	29.23	31.60	39.08	1.190	21	25
10.14	10.63	11.61	12.60	13.58	14.56	15.55	17.52	20.47	23.42	26.38	29.33	31.69	39.17	1.200	20	24
9.60	10.09	11.07	12.06	13.04	14.02	15.01	16.98	19.93	22.88	25.84	28.79	31.15	38.63	1.200	25	30
9.05 7.97	9.54 8.46	10.53 9.45	11.52 10.43	12.50 11.42	13.48 12.40	14.47 13.38	16.44 15.35	19.39 18.31	22.34 21.26	25.30 24.21	28.25 27.16	30.61 29.53	38.09 37.01	1.200 1.200	30 40	36 48
6.88	7.37	8.36	9.35	10.33	11.31	12.30	14.27	17.22	20.17	23.13	26.08	28.44	35.92	1.200	50	60
5.80	6.29	7.27	8.26	9.25	10.23	11.21	13.18	16.14	19.09	22.05	25.00	27.36	34.84	1.200	60	72
10.24	10.73	11.71	12.70	13.68	14.66	15.65	17.62	20.57	23.52	26.48	29.43	31.79	39.27	1.211	19	23
9.25	9.74	10.73	11.71	12.70	13.68	14.66	16.63	19.59	22.54	25.49	28.44	30.81	38.29	1.214	28	34
6.19	6.68	7.67	8.65	9.64	10.62	11.61	13.58	16.53	19.48	22.44	25.39	27.75	35.24	1.214	56	68
9.79 10.34	10.28 10.83	11.27 11.81	12.25 12.80	13.24 13.78	14.22 14.76	15.20 15.75	17.17 17.72	20.13 20.67	23.08 23.62	26.04 26.58	28.99 29.53	31.35 31.89	38.83 39.37	1.217 1.222	23 18	28 22
8.36	8.85	9.84	10.82	11.81	12.79	13.78	15.75	18.70	21.65	24.61	27.56	29.92	37.40	1.222	36	44
9.45	9.94	10.92	11.91	12.89	13.87	14.86	16.83	19.78	22.74	25.69	28.64	31.01	38.49	1.231	26	32
6.59	7.08	8.06	9.05	10.03	11.02	12.00	13.97	16.93	19.88	22.83	25.78	28.15	35.63	1.231	52	64
9.99	10.48	11.47	12.45	13.44	14.42	15.40	17.37	20.33	23.28	26.23	29.18	31.55	39.03	1.238	21	26
7.33 10.09	7.82 10.58	8.80 11.56	9.79 12.55	10.77 13.54	11.75 14.52	12.74 15.50	14.71 17.47	17.67 20.43	20.62 23.38	23.57 26.33	26.52 29.28	28.89 31.65	36.37 39.13	1.244 1.250	45 20	56 25
9.65	10.36	11.12	12.33	13.09	14.07	15.06	17.47	19.98	22.93	25.89	28.84	31.20	38.68	1.250	24	30
8.76	9.25	10.23	11.22	12.20	13.18	14.17	16.14	19.10	22.05	25.00	27.95	30.32	37.80	1.250	32	40
8.31	8.80	9.79	10.77	11.76	12.74	13.73	15.70	18.65	21.60	24.56	27.51	29.87	37.35	1.250	36	45
7.87	8.36	9.35	10.33	11.32	12.30	13.28	15.25	18.21	21.16	24.11	27.06	29.43	36.91	1.250	40	50
6.98	7.47	8.46	9.44	10.43	11.41	12.39	14.36	17.32	20.27	23.23	26.18	28.54	36.02	1.250	48	60
5.19 10.19	5.69 10.68	6.67 11.66	7.66 12.65	8.65 13.63	9.63 14.61	10.62 15.60	12.59 17.57	15.55 20.52	18.50 23.47	21.45 26.43	24.40 29.38	26.77 31.74	34.25 39.22	1.250 1.263	64 19	80 24
8.07	8.56	9.54	10.53	11.51	12.49	13.48	15.45	18.40	21.36	24.31	27.26	29.63	37.11	1.263	38	48
8.95	9.45	10.43	11.42	12.40	13.38	14.37	16.34	19.29	22.24	25.20	28.15	30.51	37.99	1.267	30	38
9.84	10.33	11.32	12.30	13.29	14.27	15.25	17.22	20.18	23.13	26.08	29.03	31.40	38.88	1.273	22	28
7.37	7.86	8.85	9.84	10.82	11.80	12.79	14.76	17.71	20.67	23.62	26.57	28.94	36.42	1.273	44	56
10.29	10.78	11.76	12.75	13.73	14.71	15.70	17.67	20.62	23.57	26.53	29.48	31.84	39.32	1.278	18	23
9.50 6.68	9.99 7.17	10.97 8.16	11.96 9.14	12.94 10.13	13.92 11.11	14.91 12.10	16.88 14.07	19.83 17.02	22.78 19.98	25.74 22.93	28.69 25.88	31.05 28.25	38.53 35.73	1.280 1.280	25 50	32 64
9.15	9.64	10.63	11.61	12.60	13.58	14.56	16.53	19.49	22.44	25.39	28.34	30.71	38.19	1.286	28	36
5.99	6.48	7.46	8.45	9.44	10.42	11.41	13.38	16.33	19.28	22.24	25.19	27.56	35.04	1.286	56	72
8.46	8.95	9.94	10.92	11.91	12.89	13.87	15.84	18.80	21.75	24.70	27.65	30.02	37.50	1.294	34	44
10.04	10.53	11.51	12.50	13.49	14.47	15.45	17.42	20.38	23.33	26.28	29.23	31.60	39.08	1.300	20	26
7.77	8.26	9.25	10.23	11.22	12.20	13.18	15.15	18.11	21.06	24.02	26.97	29.33	36.81	1.300	40	52
9.69 0.97	10.18 0.98	11.17	12.15 1.01	13.14	14.12	15.11 1.06	17.08 1.09	20.03 1.13	22.98 1.16	25.94 1.19	28.89 1.22	31.25 1.24	38.73 1.29	1.304	23	30

^{*}This length correction factor must be used to determine the proper belt width.

Center Distance is greater than eight times the small diameter and the large sprocket is not flanged. See Engineering Section I-10, Use of Flanged Sprockets, on page 134.



26 1.629 34 2.130 1.308 2.94 4.03 4.42 4.92 5.01 5.41 5 52 3.258 68 4.261 1.308 3.73 4.82 5.21 5.71 5.80 6.20 6 38 2.381 50 3.133 1.316 3.52 3.62 4.02 4 68 4.261 90 5.639 1.324 3.08 3.48 3.97 4.07 4.46 4 18 1.128 24 1.504 1.333 3.83 4.92 5.31 5.80 5.90 6.30 6 21 1.316 28 1.754 1.333 3.49 4.57 4.96 5.46 5.55 5.95 6 24 1.504 32 2.005 1.333 3.14 4.23 4.62 5.11 5.21 5.60 6 5.95 6 24 1.504 32 2.005 1.333 3.14 <th>8.2 (1.0 (1.0 (1.0 (1.0 (1.0 (1.0 (1.0 (1.0</th> <th>7.57 4.60 8.36 6.19 6.63 8.46 8.12 7.77</th> <th>8.16 8.16 8.17 8.18 1.13 teeth 1.13 teeth</th> <th>8.46 5.49 9.25 7.07</th> <th>5MR-600 9.8 P.L 23.622 120 teeth</th>	8.2 (1.0 (1.0 (1.0 (1.0 (1.0 (1.0 (1.0 (1.0	7.57 4.60 8.36 6.19 6.63 8.46 8.12 7.77	8.16 8.16 8.17 8.18 1.13 teeth 1.13 teeth	8.46 5.49 9.25 7.07	5MR-600 9.8 P.L 23.622 120 teeth
26 1.629 34 2.130 1.308 2.94 4.03 4.42 4.92 5.01 5.41 5 52 3.258 68 4.261 1.308 3.73 4.82 5.21 5.71 5.80 6.20 6 38 2.381 50 3.133 1.316 3.52 3.62 4.02 4 34 2.130 45 2.820 1.324 3.08 3.48 3.97 4.07 4.46 4 68 4.261 90 5.639 1.324 3.08 3.48 3.97 4.07 4.46 4 18 1.128 24 1.504 1.333 3.83 4.92 5.31 5.80 5.90 6.30 6 21 1.316 28 1.754 1.333 3.49 4.57 4.96 5.46 5.55 5.95 6 24 1.504 32 2.005 1.333 3.14 4.23 4.62 5.11<	5.90 6.88 6.69 7.67 4.51 5.50 4.96 5.94 6.79 7.77 6.45 7.43 6.10 7.08 5.41 6.39 4.71 5.69 3.66 4.65	7.57 4.60 8.36 6.19 6.63 8.46 8.12 7.77	8.16 5.19 8.95 6.78 7.22	8.46 5.49 9.25	
52 3.258 68 4.261 1.308 3.73 4.82 5.21 5.71 5.80 6.20 6.20 6.20 6.20 6.20 6.20 6.20 6.20 6.20 6.20 6.20 6.20 6.20 6.20 6.20 6.20 6.20 6.20 6.20 6.20 6.20 6.20 6.20 6.20 6.20 6.20 6.20 6.20 6.20 6.20 6.20 6.20 6.20 6.20 6.20 6.20 6.20 6.20 6.20 6.20 6.20 6.20 6.20 6.20 6.20 6.20 6.20 6.20 6.20 6.20 6.20 6.20 6.20 6.20 6.20 6.20 6.20 6.20 6.20 6.20 6.20 6.20 6.20 6.20 6.20 6.20 6.20 6.20 6.20 6.20 6.20 6.20 6.20 6.20 6.20 6.20 6.20 6.20 6.20 6.20 6.20 6.20	6.69 7.67 4.51 5.50 4.96 5.94 6.79 7.77 6.45 7.43 6.10 7.08 5.41 6.39 4.71 5.69 3.66 4.65	4.60 8.36 6.19 6.63 8.46 8.12 7.77	5.19 8.95 6.78 7.22	5.49 9.25	8.85
19 1.191 25 1.566 1.316 3.73 4.82 5.21 5.71 5.80 6.20 6 38 2.381 50 3.133 1.316 3.62 3.62 4.02 4 34 2.130 45 2.820 1.324 3.08 3.48 3.97 4.07 4.46 4 68 4.261 90 5.639 1.324 6 6.20 6 6 6.62 4.46 4 18 1.128 24 1.504 1.333 3.83 4.92 5.31 5.80 5.90 6.30 6 21 1.316 28 1.754 1.333 3.49 4.57 4.96 5.46 5.55 5.95 6 24 1.504 32 2.005 1.333 3.14 4.23 4.62 5.11 5.21 5.60 6 30 1.880 40 2.506 1.333 3.53 3.92 4.42	4.51 5.50 4.96 5.94 6.79 7.77 6.45 7.43 6.10 7.08 5.41 6.39 4.71 5.69 3.66 4.65	8.36 6.19 6.63 8.46 8.12 7.77	8.95 6.78 7.22	9.25	
38 2.381 50 3.133 1.316 3.08 3.52 3.62 4.02 4 34 2.130 45 2.820 1.324 3.08 3.48 3.97 4.07 4.46 4 68 4.261 90 5.639 1.324 5.31 5.80 5.90 6.30 6 21 1.316 28 1.754 1.333 3.49 4.57 4.96 5.46 5.55 5.95 6 24 1.504 32 2.005 1.333 3.14 4.23 4.62 5.11 5.21 5.60 6 30 1.880 40 2.506 1.333 3.14 4.23 4.62 5.11 5.21 5.60 6 30 1.880 40 2.506 1.333 3.53 3.92 4.42 4.51 4.91 5 36 2.256 48 3.008 1.333 3.22 3.72 3.82 4.21 4 <td>4.51 5.50 4.96 5.94 6.79 7.77 6.45 7.43 6.10 7.08 5.41 6.39 4.71 5.69 3.66 4.65</td> <td>6.19 6.63 8.46 8.12 7.77</td> <td>6.78 7.22</td> <td></td> <td>5.88</td>	4.51 5.50 4.96 5.94 6.79 7.77 6.45 7.43 6.10 7.08 5.41 6.39 4.71 5.69 3.66 4.65	6.19 6.63 8.46 8.12 7.77	6.78 7.22		5.88
34 2.130 45 2.820 1.324 3.08 3.48 3.97 4.07 4.46 4 68 4.261 90 5.639 1.324 3.08 3.48 3.97 4.07 4.46 4 68 4.261 90 5.639 1.324 4.92 5.31 5.80 5.90 6.30 6 22 1.316 28 1.754 1.333 3.49 4.57 4.96 5.46 5.55 5.95 6 30 1.880 40 2.506 1.333 3.14 4.23 4.62 5.11 5.21 5.60 6 30 1.880 40 2.506 1.333 3.53 3.92 4.42 4.51 4.91 5 36 2.256 48 3.008 1.333 3.53 3.92 3.72 3.82 4.21 4 4.91 5 4 4.91 5 4 4.91 5 3 3 3.22 3.72 3.82 4.21 4 4.21 <td>4.96 5.94 6.79 7.77 6.45 7.43 6.10 7.08 5.41 6.39 4.71 5.69 3.66 4.65</td> <td>6.63 8.46 8.12 7.77</td> <td>7.22</td> <td>1.07</td> <td>9.64 7.47</td>	4.96 5.94 6.79 7.77 6.45 7.43 6.10 7.08 5.41 6.39 4.71 5.69 3.66 4.65	6.63 8.46 8.12 7.77	7.22	1.07	9.64 7.47
68 4.261 90 5.639 1.324 18 1.128 24 1.504 1.333 3.83 4.92 5.31 5.80 5.90 6.30 6.30 6.30 6.30 6.30 6.30 6.30 6.30 6.30 6.30 6.30 6.30 6.30 6.30 6.30 6.30 6.30 6.30 6.30 6.30 6.30 6.30 6.30 6.30 6.30 6.30 6.30 6.30 6.30 6.30 6.30 6.30 6.30 6.30 6.30 6.30 6.30 6.30 6.30 6.30 6.30 6.30 6.30 6.30 6.30 6.30 6.30 6.30 6.30 6.30 6.30 6.30 6.30 6.30 6.30 6.30 6.30 6.30 6.30 6.30 6.30 6.30 6.30 6.30 6.30 6.30 6.30 6.30 6.30 6.30 6.30 6.30 6.30 6.30 6.30 6.30 6.30	6.79 7.77 6.45 7.43 6.10 7.08 5.41 6.39 4.71 5.69 3.66 4.65	8.46 8.12 7.77		7.52	7.91
21 1.316 28 1.754 1.333 3.49 4.57 4.96 5.46 5.55 5.95 6 24 1.504 32 2.005 1.333 3.14 4.23 4.62 5.11 5.21 5.60 6 30 1.880 40 2.506 1.333 3.53 3.92 4.42 4.51 4.91 5 36 2.256 48 3.008 1.333 3.22 3.72 3.82 4.21 4 45 2.820 60 3.760 1.333 3.22 3.72 3.82 4.21 4 48 3.008 64 4.010 1.333 4.12 4.62 4.71 5.11 5 28 1.754 38 2.381 1.357 2.64 3.73 4.12 4.62 4.71 5.11 5 25 1.566 34 2.130 1.360 2.99 4.08 4.47 4.96 5.06 5.45<	6.45 7.43 6.10 7.08 5.41 6.39 4.71 5.69 3.66 4.65	8.12 7.77	0.05		
24 1.504 32 2.005 1.333 3.14 4.23 4.62 5.11 5.21 5.60 6 30 1.880 40 2.506 1.333 3.53 3.92 4.42 4.51 4.91 5 36 2.256 48 3.008 1.333 3.22 3.72 3.82 4.21 4 45 2.820 60 3.760 1.333 3 3 3 3 3 4.21 4 4.21 4 4.21 4 4.21 4 4.21 4 4.21 4 4.21 4 4.21 4 4.21 4 4.21 4 4.21 4 4.21 4 4.21 4 4.21 4 4.21 4 4.21 4 4.21 4 4.21 4 4.21 4 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21<	6.10 7.08 5.41 6.39 4.71 5.69 3.66 4.65	7.77	9.05	9.35	9.74
30 1.880 40 2.506 1.333 3.53 3.92 4.42 4.51 4.91 5 36 2.256 48 3.008 1.333 3.22 3.72 3.82 4.21 4 45 2.820 60 3.760 1.333 8 3 3 3 3 3 3 3 3 3 3 3 3 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21	5.41 6.39 4.71 5.69 3.66 4.65		8.71	9.00	9.40
36 2.256 48 3.008 1.333 3.22 3.72 3.82 4.21 4.21 4.4 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4.21 4	4.71 5.69 3.66 4.65		8.36 7.67	8.66 7.96	9.05 8.36
45 2.820 60 3.760 1.333 3 48 3.008 64 4.010 1.333 60 3.760 80 5.013 1.333 8 80 5.013 1.333 8 8.0 1.350 2.99 4.08 4.12 4.62 4.71 5.11 5 5 5 5.06 5.45 5 5 5 5 5.06 5.45 5 5 5 5 5.06 5.45 5 5 5 5 5 5 5.06 5.45 5 5 5 5 5 5 5.06 5.45 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 5 6 5 7.5 6 5 <	3.66 4.65	7.08 6.38	6.98	7.90	7.67
48 3.008 64 4.010 1.333 80 5.013 1.333 80 5.013 1.333 80 5.013 1.333 80 4.12 4.62 4.71 5.11 5.01 5.01 5.01 5.01 5.01 5.01 5.01 5.01 5.01 5.01 5.01 5.01 5.01 5.01 5.01 5.01 5.01 5.01 5.01 5.02 5.02 5.02 5.02 5.02 5.02 5.02 5.02 5.02 5.02 5.02 5.02 5.02 5.02 5.02 5.02 5.02 5.02 5.02 5.02 5.02 5.02 5.02 5.02 5.02 5.02 5.02 5.02 5.02 5.02 5.02 5.02 5.02 5.02 5.02 5.02 5.02 5.02 5.02 5.02 5.02 5.02 5.02 5.02 5.02 5.02 5.02 5.02 5.02 5.02 5.02 5.02 5.02 5.02 5.		5.34	5.93	6.23	6.63
28 1.754 38 2.381 1.357 2.64 3.73 4.12 4.62 4.71 5.11 5 25 1.566 34 2.130 1.360 2.99 4.08 4.47 4.96 5.06 5.45 5 50 3.133 68 4.261 1.360 3.34 4.42 4.81 5.31 5.40 5.80 6 22 1.379 30 1.860 1.364 3.34 4.42 4.81 5.31 5.40 5.80 6 44 2.757 60 3.760 1.364 3.34 4.77 5.16 5.66 5.75 6.15 6 38 2.381 52 3.258 1.368 3.68 4.77 5.16 5.66 5.75 6.15 6 32 2.005 44 2.757 1.375 3.23 3.62 4.12 4.21 4.61 5 26 1.629 36 2.256 1.385 2.84 3.93 4.32 4.81 4.91 5.30 5		4.99	5.59	5.88	6.28
25 1.566 34 2.130 1.360 2.99 4.08 4.47 4.96 5.06 5.45 5 50 3.133 68 4.261 1.360 3.34 4.42 4.81 5.31 5.40 5.80 6 22 1.379 30 1.880 1.364 3.34 4.42 4.81 5.31 5.40 5.80 6 44 2.757 60 3.760 1.364 3.34 4.42 4.81 5.31 5.40 5.80 6 38 1.191 26 1.629 1.368 3.68 4.77 5.16 5.66 5.75 6.15 6 38 2.381 52 3.258 1.368 3.23 3.62 4.12 4.21 4.61 5 32 2.005 44 2.757 1.375 3.23 3.62 4.12 4.21 4.61 5 26 1.629 36 2.256 1.385 2.84<					4.88
50 3.133 68 4.261 1.360 3.34 4.42 4.81 5.31 5.40 5.80 6 22 1.379 30 1.880 1.364 3.34 4.42 4.81 5.31 5.40 5.80 6 44 2.757 60 3.760 1.364 3.68 4.77 5.16 5.66 5.75 6.15 6 38 2.381 52 3.258 1.368 3.42 3.42 3.51 3.91 4 32 2.005 44 2.757 1.375 3.23 3.62 4.12 4.21 4.61 5 26 1.629 36 2.256 1.385 2.84 3.93 4.32 4.81 4.91 5.30 5	5.60 6.58	7.28	7.87	8.16	8.56
22 1.379 30 1.880 1.364 3.34 4.42 4.81 5.31 5.40 5.80 6 44 2.757 60 3.760 1.364 3.68 4.77 5.16 5.66 5.75 6.15 6 38 2.381 52 3.258 1.368 3.23 3.42 3.51 3.91 4.61 5 32 2.005 44 2.757 1.375 3.23 3.62 4.12 4.21 4.61 5 26 1.629 36 2.256 1.385 2.84 3.93 4.32 4.81 4.91 5.30 5	5.95 6.93	7.62 4.69	8.21 5.28	8.51 5.58	8.90 5.98
44 2.757 60 3.760 1.364 3.68 4.77 5.16 5.66 5.75 6.15 6 38 2.381 52 3.258 1.368 3.23 3.42 3.51 3.91 4 32 2.005 44 2.757 1.375 3.23 3.62 4.12 4.21 4.61 5 26 1.629 36 2.256 1.385 2.84 3.93 4.32 4.81 4.91 5.30 5	6.30 7.28	7.97	8.56	8.85	9.25
38 2.381 52 3.258 1.368 3.23 3.42 3.51 3.91 4 32 2.005 44 2.757 1.375 3.23 3.62 4.12 4.21 4.61 5 26 1.629 36 2.256 1.385 2.84 3.93 4.32 4.81 4.91 5.30 5	3.71 4.69	5.39	5.98	6.28	6.67
32 2.005 44 2.757 1.375 3.23 3.62 4.12 4.21 4.61 5 26 1.629 36 2.256 1.385 2.84 3.93 4.32 4.81 4.91 5.30 5	6.64 7.62	8.31	8.90	9.20	9.59
26 1.629 36 2.256 1.385 2.84 3.93 4.32 4.81 4.91 5.30 5	4.41 5.39	6.09	6.68	6.97	7.37
	5.11 6.09	6.78	7.37	7.67	8.06
1 32 3.230 72 4.311 1.303	5.80 6.78	7.47 4.38	8.06 4.98	8.36 5.28	8.75 5.67
	6.74 7.72	8.41	9.00	9.30	9.69
	4.61 5.59	6.28	6.87	7.17	7.56
	6.15 7.13	7.82	8.41	8.70	9.10
	6.49 7.47	8.16	8.75	9.05	9.44
	4.11 5.09	5.78	6.38	6.67	7.07
32 2.005 45 2.820 1.406 3.17 3.57 4.07 4.16 4.56 5 64 4.010 90 5.639 1.406	5.05 6.04	6.73	7.32	7.61	8.01
	4.80 5.79	6.48	7.07	7.37	7.76
	6.00 6.98	7.67	8.26	8.56	8.95
48 3.008 68 4.261 1.417	4.08	4.78	5.37	5.67	6.07
45 2.820 64 4.010 1.422	4.44	5.13	5.72	6.02	6.42
	6.34 7.32 5.50 6.48	8.01 7.17	8.61 7.77	8.90 8.06	9.30 8.46
56 3.509 80 5.013 1.429	3.30 0.40	7.17	1.11	4.66	5.06
	5.85 6.83	7.52	8.11	8.41	8.80
50 3.133 72 4.511 1.440		4.47	5.07	5.37	5.77
	6.69 7.67	8.36	8.95	9.25	9.64
.	4.50 5.49 6.19 7.18	6.18 7.87	6.77 8.46	7.07 8.75	7.46 9.15
22 1.379 32 2.003 1.403 3.23 4.32 4.71 3.21 3.30 3.70 6 44 2.757 64 4.010 1.455	4.48	5.18	5.77	6.07	6.46
	5.70 6.68	7.37	7.96	8.26	8.65
30 1.880 44 2.757 1.467 3.32 3.71 4.21 4.31 4.70 5	5.20 6.18	6.87	7.47	7.76	8.16
	4.70 5.68	6.38	6.97	7.26	7.66
	6.54 7.52 4.20 5.18	8.21 5.88	8.80	9.10	9.49 7.16
	4.20 5.18 6.05 7.03	7.72	6.47 8.31	6.77 8.60	9.00
	6.39 7.37	8.06	8.65	8.95	9.34
24 1.504 36 2.256 1.500 2.93 4.02 4.41 4.91 5.00 5.40 5	5.89 6.88	7.57	8.16	8.45	8.85
	5.15 6.13	6.82	7.41	7.71	8.11
	4.90 5.88	6.57	7.17	7.46	7.86
40 2.506 60 3.760 1.500 3 3 48 3.008 72 4.511 1.500	3.89 4.88	5.57 4.56	6.17 5.16	6.46 5.46	6.86 5.86
60 3.760 90 5.639 1.500		7.00	0.10	0.70	0.00
45 2.820 68 4.261 1.511	4.22	4.92	5.51	5.81	6.21
25 1.566 38 2.381 1.520 2.78 3.87 4.26 4.76 4.85 5.25 5	5.75 6.73	7.42	8.01	8.31	8.70
	6.24 7.22	7.91	8.50	8.80	9.20
	4.59 5.58 5.60 6.58	6.27	6.87	7.16	7.56 8.55
26 1.629 40 2.506 1.538 2.62 3.72 4.11 4.61 4.70 5.10 5 52 3.258 80 5.013 1.538		7.27	7.86	8.16	8.55 5.24
	0.36	1	4.54	4 84	
Length Factor* 0.77 0.81 0.83 0.84 0.85 0.86 0	6.09 7.07	7.76	4.54 8.36	4.84 8.65	9.05

^{*}This length factor must be used to determine the proper belt width.

Center Distance is greater than eight times the small diameter and the large sprocket is not flanged. See Engineering Section I-10, Use of Flanged Sprockets, on page 134.



9.35				Sprocket C	ombinations
9.35 9.84 10.82 11.81 12.80 13.78 14.76 16.73 19.69 22.64 25.90 28.54 30.91 16.38 16.87 7.86 8.85 9.83 10.81 11.80 13.77 16.75 19.68 22.63 25.58 27.95 10.14 10.63 11.61 12.60 13.58 14.56 15.55 17.52 20.47 23.42 26.38 25.58 27.95 10.14 10.63 11.61 12.60 13.58 14.56 15.55 17.52 20.47 23.42 26.38 29.33 31.69 10.87 11.86 12.84 13.82 15.79 18.75 21.70 24.55 27.16 29.97 13.88 14.87 12.85 13.81 12.85 18.31 12.62 24.12 27.16 29.87 13.88 14.87 12.85 13.81 12.85 18.31 12.80 27.5 22.71 26.38 13.81 12.70 13.88 14.66 15.65 17.62 20.57 23.52 26.48 29.43 31.79 18.89 10.38 11.37 12.35 13.34 14.52 15.30 17.27 20.23 23.18 26.13 29.83 31.45 13.95 10.33 11.32 12.20 13.28 14.27 16.24 19.19 22.14 25.10 28.05 30.41 13.88 18.85 19.35 10.33 11.32 12.20 13.28 14.27 16.24 19.19 22.14 25.10 28.05 30.41 13.88 18.85 19.35 10.33 11.32 12.20 13.28 14.27 16.24 19.19 22.14 25.10 28.05 30.41 13.65 12.55 13.58 15.55 18.50 12.45 24.41 27.36 29.72 17.12 7.61 8.60 9.59 10.57 11.55 12.54 14.51 17.47 20.42 23.37 26.32 28.69 15.38 15.77 12.55 12.54 14.51 17.47 20.42 23.37 26.32 28.69 15.38 15.77 12.55 12.55 13.58 16.45 12.50 13.58 15.74 18.69 21.65 24.50 26.06 19.90 19.58 10.55 11.55 12.50 13.58 16.45 16.43 19.39 21.45 24.45 12.45 14.45 19.45 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.55 14.				DriveR	DriveN
6.38 6.87 7.86 8.85 9.83 10.81 11.80 13.77 16.73 19.68 22.62 25.58 29.95 1.10 7.97 8.46 9.44 10.43 11.41 12.39 13.38 15.55 18.31 21.26 24.21 27.16 29.53 8.41 8.80 9.89 10.77 13.68 14.55 15.79 18.76 21.70 24.62 27.61 29.53 10.24 10.73 11.71 12.70 13.68 14.68 16.65 21.65 21.81 12.90 13.97 14.66 16.65 21.65 23.22 23.18 26.23 22.81 22.83 22.93 22.81 22.83 22.93 28.74 23.13 23.03 31.89 14.50 15.70 20.23 23.81 26.20 28.71 28.71 28.71 28.71 29.24 13.33 11.52 12.30 13.28 14.27 16.62 19.77 20.23 22.83 22.87	5MR-2100 P.L 82.677 420 teeth	5MR-1720 P.L 67.716 344 teeth	5MR-2100 P.L 82.677 420 teeth Baeds	No. of grooves	No. of grooves
10.14 10.63 11.61 12.60 13.58 14.56 15.55 17.52 20.47 23.42 26.38 29.33 31.69 17.97 8.66 9.44 10.43 11.41 12.39 13.38 15.55 18.31 21.62 24.21 27.16 29.97 8.67 27.67 28.58 29.31 29.08 10.87 11.86 12.84 13.82 15.79 18.75 21.70 24.65 22.61 29.97 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81 29.81	38.39			26	34
7.97 8.46 9.44 10.43 11.14 12.39 13.38 15.35 18.31 21.26 24.21 27.16 29.53 1 8.41 8.99 9.89 10.87 11.86 18.48 13.82 11.89 14.85 17.80 20.76 23.71 26.88 9.89 10.38 11.37 12.25 13.34 14.32 15.30 17.72 20.23 23.18 26.13 29.08 31.45 9.55 10.04 11.02 12.01 12.99 13.97 14.96 16.38 19.88 22.83 25.79 28.74 31.10 8.16 8.55 10.35 10.33 11.32 12.32 11.32 14.26 16.84 19.98 22.14 25.10 28.01 28.11 28.14 27.02 28.34 31.45 31.45 31.45 31.45 31.45 31.45 31.45 31.45 31.45 31.45 31.45 31.45 31.45 31.45 31.45 31.45<	35.43 39.17		I	52 19	68
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7.56 8.06 9.04 10.03 11.01 12.00 12.98 14.95 17.91 20.86 23.82 26.77 29.13 8.51 9.00 9.98 10.97 11.95 12.93 13.92 10.10 12.08 15.89 18.85 21.80 24.75 27.70 30.07 8.26 8.75 9.73 10.72 11.71 12.69 13.67 15.64 18.60 21.55 24.51 27.46 29.82 9.45 9.94 10.92 11.91 12.89 13.87 14.86 16.83 19.78 22.73 25.69 28.64 31.00 6.92 7.41 8.39 9.38 10.37 11.55 12.34 14.21 17.27 20.22 23.17 26.12 28.49 9.79 10.28 11.27 12.25 13.24 14.22 15.20 17.17 20.13 23.08 26.03 28.98 31.35 8.95 9.44 10.43 11.41	38.63		I	23	32
8.51 9.00 9.98 10.97 11.95 12.93 13.92 15.89 18.85 21.80 24.75 27.70 30.07 15.15 6.15 7.14 8.13 9.12 10.10 12.08 15.04 17.99 20.95 23.90 26.27 25.68 8.75 9.73 10.72 11.71 12.69 13.67 15.64 18.60 21.55 24.51 27.46 29.82 9.94 10.92 11.91 12.89 13.87 14.86 16.83 19.78 22.73 25.69 28.64 31.00 6.57 7.06 8.05 9.03 10.02 11.00 11.99 13.96 16.92 19.87 22.83 25.78 28.14 6.92 7.41 8.39 9.38 10.37 11.35 12.34 14.31 17.27 20.22 23.17 26.12 28.49 31.35 3.88 9.44 10.43 11.41 12.40 13.38 14.36 16.33 19.29 22.24 25.20 28.15	38.98 36.61			20 40	28 56
8.26 8.75 9.73 10.72 11.71 12.09 13.67 15.64 18.60 21.55 24.51 27.46 29.82 9.44 10.92 11.91 12.89 13.87 14.86 16.83 19.78 22.73 25.69 28.64 31.00 6.57 7.06 8.05 9.03 10.02 11.00 11.99 13.96 16.92 19.87 22.83 25.78 28.14 6.92 7.41 8.39 9.38 10.37 11.35 12.34 14.31 17.27 20.22 23.17 26.12 28.49 9.79 10.28 11.27 12.25 13.24 14.22 15.20 17.17 20.13 23.08 26.03 28.98 31.35 8.95 9.44 10.43 11.41 12.40 13.38 14.36 16.33 19.29 22.24 25.20 28.15 30.51 5.56 6.06 7.75 8.73 9.72 10.70 11.69 13.66 16.62	37.55		I	32	45
9.45 9.94 10.92 11.91 12.89 13.87 14.86 16.83 19.78 22.73 25.69 28.64 31.00 6.57 7.06 8.05 9.03 10.02 11.00 11.99 13.96 16.92 19.87 22.83 25.78 28.14 6.92 7.41 8.39 9.38 10.37 11.35 12.34 14.31 17.27 20.22 23.17 26.12 28.49 9.79 10.28 11.27 12.25 13.24 14.22 15.20 17.17 20.13 23.08 26.03 28.98 31.35 8.95 9.44 10.43 11.41 12.40 13.38 14.36 16.33 19.29 22.24 25.20 28.15 30.51 5.56 6.06 7.05 8.04 9.03 10.01 11.00 12.97 15.93 18.88 21.84 24.79 27.16 9.30 9.79 10.77 11.66 16.63 19.64 22.59	33.75			64	90
6.57 7.06 8.05 9.03 10.02 11.00 11.99 13.96 16.92 19.87 22.83 25.78 28.14 6.92 7.41 8.39 9.38 10.37 11.35 12.34 14.31 17.27 20.22 23.17 26.12 28.49 9.79 10.28 11.27 12.25 13.24 14.22 15.20 17.17 20.13 23.08 26.03 28.98 31.35 5.56 6.06 7.05 8.04 9.03 10.01 11.00 12.97 15.93 18.88 21.84 24.79 27.16 9.30 9.79 10.77 11.76 12.74 13.72 14.71 16.68 19.64 22.59 25.54 28.49 30.86 6.26 6.76 7.75 8.73 9.72 10.70 11.69 13.66 16.62 19.57 22.53 25.48 27.89 7.96 8.45 9.44 10.42 11.41 12.39 13.37 15.35	37.30	29.82		34	48
6.92 7.41 8.39 9.38 10.37 11.35 12.34 14.31 17.27 20.22 23.17 26.12 28.49 9.79 10.28 11.27 12.25 13.24 14.22 15.20 17.17 20.13 23.08 26.03 28.98 31.35 3.89 9.94 10.43 11.41 12.40 13.38 14.36 16.33 19.29 22.24 25.20 28.15 30.51 30.51 30.66 6.66 7.05 8.04 9.03 10.01 11.00 12.97 15.93 18.88 21.84 24.79 27.16 9.30 9.79 10.77 11.76 12.74 13.72 14.71 16.68 19.64 22.59 25.54 28.49 30.86 6.26 6.76 7.75 8.73 9.72 10.70 11.69 13.66 16.62 19.57 22.53 25.48 27.85 10.14 10.63 11.61 12.60 13.58 14.56 15.55 17.52 20.47 <t< td=""><td>38.48</td><td></td><td></td><td>24</td><td>34</td></t<>	38.48			24	34
9.79 10.28 11.27 12.25 13.24 14.22 15.20 17.17 20.13 23.08 26.03 28.98 31.35 3.895 9.44 10.43 11.41 12.40 13.38 14.36 16.33 19.29 22.24 25.20 28.15 30.51 30.51 3.56 6.06 7.05 8.04 9.03 10.01 11.00 12.97 15.93 18.88 21.84 24.79 27.16 9.30 9.79 10.77 11.76 12.74 13.72 14.71 16.68 19.64 22.59 25.54 28.49 30.86 6.26 6.76 7.75 8.73 9.72 10.70 11.69 13.66 16.62 19.57 22.53 25.48 27.85 10.14 10.63 11.61 12.60 13.58 14.56 15.55 17.52 20.47 23.42 26.38 29.33 31.69 7.96 8.45 9.44 10.42 11.41 12.39 13.37 15.35 18.30 <	35.63 35.97			48 45	68
8.95 9.44 10.43 11.41 12.40 13.38 14.36 16.33 19.29 22.24 25.20 28.15 30.51 5.56 6.06 7.05 8.04 9.03 10.01 11.00 12.97 15.93 18.88 21.84 24.79 27.16 9.30 9.79 10.77 11.76 12.74 13.72 14.71 16.68 19.64 22.59 25.54 28.49 30.86 6.26 6.76 7.75 8.73 9.72 10.70 11.69 13.66 16.62 19.57 22.53 25.48 27.85 10.14 10.63 11.61 12.60 13.58 14.56 15.55 17.52 20.47 23.42 26.38 29.33 31.69 7.96 8.45 9.44 10.42 11.41 12.39 13.37 15.35 18.30 21.25 24.21 27.16 29.53 29.63 16.94 10.62 11.61 12.59 13.58 14.56 15.35 18.30 21.25 24.21	38.83			21	64 30
5.56 6.06 7.05 8.04 9.03 10.01 11.00 12.97 15.93 18.88 21.84 24.79 27.16 9.30 9.79 10.77 11.76 12.74 13.72 14.71 16.68 19.64 22.59 25.54 28.49 30.86 6.26 6.76 7.75 8.73 9.72 10.70 11.69 13.66 16.62 19.57 22.53 25.48 27.85 10.14 10.63 11.61 12.60 13.58 14.56 15.55 17.52 20.47 23.42 26.38 29.33 31.69 31.69 31.69 31.69 31.69 31.69 31.69 31.69 31.69 31.69 31.69 31.69 31.69 31.69 31.69 31.69 31.69 31.69 31.69 31.69 31.69 31.69 31.69 31.69 31.69 31.69 31.69 31.69 31.69 31.69 31.69 31.69 31.69 31.69 31.69 31.69 31.69	37.99			28	40
6.26 6.76 7.75 8.73 9.72 10.70 11.69 13.66 16.62 19.57 22.53 25.48 27.85 10.14 10.63 11.61 12.60 13.58 14.56 15.55 17.52 20.47 23.42 26.38 29.33 31.69 7.96 8.45 9.44 10.42 11.41 12.39 13.37 15.35 18.30 21.25 24.21 27.16 29.53 9.64 10.13 11.12 12.10 13.09 14.07 15.05 17.02 19.98 22.93 25.89 28.84 31.20 6.96 7.45 8.44 9.43 10.42 11.40 12.38 14.36 17.31 20.27 23.22 26.17 28.54 9.15 9.64 10.62 11.61 12.59 13.58 14.56 16.53 19.49 22.44 25.39 28.84 30.71 8.65 9.63 10.62 11.61 12.59 13.57	34.64		34.64 1.429	56	80
10.14 10.63 11.61 12.60 13.58 14.56 15.55 17.52 20.47 23.42 26.38 29.33 31.69 7.96 8.45 9.44 10.42 11.41 12.39 13.37 15.35 18.30 21.25 24.21 27.16 29.53 9.64 10.13 11.12 12.10 13.09 14.07 15.05 17.02 19.98 22.93 25.89 28.84 31.20 6.96 7.45 8.44 9.43 10.42 11.40 12.38 14.36 17.31 20.27 23.22 26.17 28.54 9.15 9.64 10.62 11.61 12.59 13.58 14.56 16.53 19.49 22.44 25.39 28.34 30.71 8.65 9.63 10.62 11.61 12.59 13.57 15.54 18.50 21.45 24.41 27.36 29.72 9.99 10.48 11.46 12.45 13.43 14.41 15.40	38.34			25	36
7.96 8.45 9.44 10.42 11.41 12.39 13.37 15.35 18.30 21.25 24.21 27.16 29.53 9.64 10.13 11.12 12.10 13.09 14.07 15.05 17.02 19.98 22.93 25.89 28.84 31.20 6.96 7.45 8.44 9.43 10.42 11.40 12.38 14.36 17.31 20.27 23.22 26.17 28.54 9.15 9.64 10.62 11.61 12.59 13.58 14.56 16.53 19.49 22.44 25.39 28.34 30.71 8.65 9.14 10.13 11.11 12.10 13.08 14.06 18.99 21.94 24.90 27.85 30.21 8.16 8.65 9.63 10.62 11.61 12.59 13.57 15.54 18.50 21.45 24.41 27.36 29.72 9.99 10.48 11.46 12.45 13.43 14.41 15.40 17.37	35.33			50	72
9.64 10.13 11.12 12.10 13.09 14.07 15.05 17.02 19.98 22.93 25.89 28.84 31.20 6.96 7.45 8.44 9.43 10.42 11.40 12.38 14.36 17.31 20.27 23.22 26.17 28.54 9.15 9.64 10.62 11.61 12.59 13.58 14.56 16.53 19.49 22.44 25.39 28.34 30.71 30.21 30.21 30.21 30.21 30.21 30.21 30.21 30.21 30.21 30.21 30.21 30.21 30.21 30.21 30.21 30.21 30.21 30.21 30.21 30.21 30.21 30.21 30.21 30.21 30.21 30.21 30.21 30.21 30.21 30.21 30.21 30.21 30.21 30.21 30.21 30.21 30.21 30.21 30.21 30.21 30.21 30.21 30.21 30.21 30.21 30.21 30.21 30.21 30.21 30.21<	39.17 37.01		I	18 36	26 52
6.96 7.45 8.44 9.43 10.42 11.40 12.38 14.36 17.31 20.27 23.22 26.17 28.54 9.15 9.64 10.62 11.61 12.59 13.58 14.56 16.53 19.49 22.44 25.39 28.34 30.71 30.71 30.65 9.14 10.13 11.11 12.10 13.08 14.07 16.04 18.99 21.94 24.90 27.85 30.21 30.21 30.11 30.11 30.11 30.21 30.21 30.21 30.21 30.21 30.21 30.21 30.21 30.21 30.21 30.21 30.21 30.21 30.21 30.21 30.21 30.21 30.21 30.21 30.21 30.21 30.21 30.21 30.21 30.22 30.21 30.22 30.21 30.22 30.21 30.22 30.22 30.21 30.22 30.22 30.22 30.22 30.22 30.22 30.22 30.22 30.22 30.22 30.22 30.22<	38.68		I	22	32
8.65 9.14 10.13 11.11 12.10 13.08 14.07 16.04 18.99 21.94 24.90 27.85 30.21 8.16 8.65 9.63 10.62 11.61 12.59 13.57 15.54 18.50 21.45 24.41 27.36 29.72 29.99 10.48 11.46 12.45 13.43 14.41 15.40 17.37 20.33 23.28 26.23 29.18 31.55 31.55 31.55 31.55 31.55 31.55 31.55 31.55 31.55 31.55 31.55 31.55 31.55 31.55 31.55 31.55 31.55 31.55 31.55 31.55 31.55 31.55 31.55 31.55 31.55 31.55 31.55 31.55 31.55 31.55 31.55 31.55 31.55 31.55 31.55 31.55 31.55 31.55 31.55 31.55 31.55 31.55 31.55 31.55 31.55 31.55 31.55 31.55 31.55 31.05 31.5	36.02			44	64
8.16 8.65 9.63 10.62 11.61 12.59 13.57 15.54 18.50 21.45 24.41 27.36 29.72 9.99 10.48 11.46 12.45 13.43 14.41 15.40 17.37 20.33 23.28 26.23 29.18 31.55 31.55 31.55 31.55 31.55 31.55 31.55 31.55 31.55 31.55 31.55 31.55 31.55 31.55 31.55 31.55 31.55 31.55 31.55 31.55 31.55 31.55 31.55 31.55 31.55 31.55 31.55 31.55 31.55 31.55 31.55 31.55 31.55 31.55 31.55 31.55 31.55 31.55 31.55 31.55 31.55 31.55 31.55 31.55 31.55 31.55 31.55 31.55 31.55 31.55 31.55 31.55 31.55 31.55 31.55 31.55 31.55 31.55 31.55 31.55 31.55 31.55 31.55 31.	38.19	30.71		26	38
9.99 10.48 11.46 12.45 13.43 14.41 15.40 17.37 20.33 23.28 26.23 29.18 31.55 7.66 8.15 9.14 10.12 11.11 12.09 13.08 15.05 18.01 20.96 23.91 26.86 29.23 9.49 9.98 10.97 11.96 12.94 13.92 14.91 16.88 19.83 22.78 25.74 28.69 31.05 9.84 10.33 11.32 12.30 13.29 14.27 15.25 17.22 20.18 23.13 26.08 29.03 31.40 9.34 9.83 10.82 11.81 12.79 13.77 14.76 16.73 19.68 22.63 25.59 28.54 30.90 31.40 9.83 10.82 11.81 12.79 13.77 14.76 16.73 19.68 22.63 25.59 28.54 30.90 30.16 33.5 8.84 9.83 10.82 11.80 12.78 13.77 15.74 18.70 21.65	37.70			30	44
7.66 8.15 9.14 10.12 11.11 12.09 13.08 15.05 18.01 20.96 23.91 26.86 29.23 9.49 9.98 10.97 11.96 12.94 13.92 14.91 16.88 19.83 22.78 25.74 28.69 31.05 9.84 10.33 11.32 12.30 13.29 14.27 15.25 17.22 20.18 23.13 26.08 29.03 31.40 9.34 9.83 10.82 11.81 12.79 13.77 14.76 16.73 19.68 22.63 25.59 28.54 30.90 30.90 30.90 30.16 30.90 30.16 30.90 30.16 30.90 30.16 30.16 30.90 30.16 30.16 30.16 30.16 30.16 30.16 30.16 30.16 30.16 30.16 30.16 30.16 30.16 30.16 30.16 30.16 30.16 30.16 30.16 30.16 30.16 30.16 30.16 30.16	37.20			34	50 28
9.49 9.98 10.97 11.96 12.94 13.92 14.91 16.88 19.83 22.78 25.74 28.69 31.05 9.84 10.33 11.32 12.30 13.29 14.27 15.25 17.22 20.18 23.13 26.08 29.03 31.40 31.40 31.40 31.40 31.40 31.40 31.40 31.40 31.40 31.40 31.40 31.40 31.40 31.40 31.40 31.40 31.40 31.40 31.40 31.40 31.40 31.40 31.40 31.40 31.40 31.40 31.40 31.40 31.40 31.40 31.40 31.40 31.40 31.40 31.40 31.40 31.40 31.40 31.40 31.40 31.40 31.40 31.40 31.40 31.40 31.40 31.40 31.40 31.40 31.40 31.40 31.40 31.40 31.40 31.40 31.40 31.40 31.40 31.40 31.40 31.40 31.40 31.40 31	39.03 36.71			19 38	56
9.84 10.33 11.32 12.30 13.29 14.27 15.25 17.22 20.18 23.13 26.08 29.03 31.40 9.34 9.83 10.82 11.81 12.79 13.77 14.76 16.73 19.68 22.63 25.59 28.54 30.90 30.90 30.66 30.90 30.66 30.90 30.16 30.90 30.16 30.90 30.16 30.90 30.16 30.90 30.16 30.90 30.16 30.90 30.16 30.90 30.16 30.90 30.16 30.90 30.16 30.90 30.16 30.90 30.16 30.90 30.16 30.90 30.16 30.90 30.16 30.90 30.16 30.90 30.16 30.90 30.16 30.90 30.16 30.90 30.16 30.90 30.16 30.90 30.16 30.90 30.16 30.90 30.16 30.90 30.16 30.90 30.16 30.90 30.16 30.90 30.16 30.90 30.16 30	38.53			23	34
8.60 9.09 10.08 11.06 12.05 13.03 14.02 15.99 18.94 21.89 24.85 27.80 30.16 30.16 30.35 8.84 9.83 10.82 11.80 12.78 13.77 15.74 18.70 21.65 24.60 27.55 29.92 27.36 7.85 8.84 9.82 10.81 11.79 12.78 14.75 17.71 20.66 23.62 26.57 28.93 36.36 6.85 7.84 8.83 9.82 10.80 11.79 13.76 16.72 19.67 22.63 25.58 27.94 27.94 22.63 25.58 27.94 27.94 27.94 27.94 27.94 27.94 27.94 27.94 27.94 27.94 27.94 27.94 27.94 27.94 27.94 27.94 27.94 27.94 27.94 27.94 27.94 27.94 27.94 27.94 27.94 27.94 27.94 27.94 27.94 27.94 27.94 27.94 27.94	38.88			20	30
8.35 8.84 9.83 10.82 11.80 12.78 13.77 15.74 18.70 21.65 24.60 27.55 29.92 27.36 7.36 7.85 8.84 9.82 10.81 11.79 12.78 14.75 17.71 20.66 23.62 26.57 28.93 28.93 6.36 6.85 7.84 8.83 9.82 10.80 11.79 13.76 16.72 19.67 22.63 25.58 27.94 27.94 5.33 6.33 7.32 8.31 9.30 10.29 12.27 15.23 18.18 21.14 24.09 26.46 36.66 6.70 7.20 8.19 9.18 10.16 11.15 12.13 14.11 17.06 20.02 22.97 25.92 28.29 39.20 9.69 10.67 11.66 12.64 13.62 14.61 16.58 19.54 22.49 25.44 28.39 30.76 9.69 10.18 11.17 12.15 13.14 14.12 15.10 17.07 20.03 22.98 25.93 28.88 31.25	38.39			24	36
7.36 7.85 8.84 9.82 10.81 11.79 12.78 14.75 17.71 20.66 23.62 26.57 28.93 : 6.36 6.85 7.84 8.83 9.82 10.80 11.79 13.76 16.72 19.67 22.63 25.58 27.94 : 5.33 6.33 7.32 8.31 9.30 10.29 12.27 15.23 18.18 21.14 24.09 26.46 : 6.70 7.20 8.19 9.18 10.16 11.15 12.13 14.11 17.06 20.02 22.97 25.92 28.29 : 9.20 9.69 10.67 11.66 12.64 13.62 14.61 16.58 19.54 22.49 25.44 28.39 30.76 : 9.69 10.18 11.17 12.15 13.14 14.12 15.10 17.07 20.03 22.98 25.93 28.88 31.25 :	37.65		I	30	45
6.36 6.85 7.84 8.83 9.82 10.80 11.79 13.76 16.72 19.67 22.63 25.88 27.94 1 5.33 6.33 7.32 8.31 9.30 10.29 12.27 15.23 18.18 21.14 24.09 26.46 3 6.70 7.20 8.19 9.18 10.16 11.15 12.13 14.11 17.06 20.02 22.97 25.92 28.29 3 9.20 9.69 10.67 11.66 12.64 13.62 14.61 16.58 19.54 22.49 25.44 28.39 30.76 3 9.69 10.18 11.17 12.15 13.14 14.12 15.10 17.07 20.03 22.98 25.93 28.88 31.25 3	37.40		I	32	48
5.33 6.33 7.32 8.31 9.30 10.29 12.27 15.23 18.18 21.14 24.09 26.46 3.02 26.46 3.02 25.92 28.29 3.02 3.02 3.02 22.97 25.92 28.29 3.02 3.02 3.02 3.02 3.02 3.02 3.02 3.02 3.02 3.02 3.02 3.02 3.02 3.02 3.02 3.02 3.02 3.02 3.02 3.02 3.02 3.02 3.02 3.02 3.02 3.02 3.02 3.02 3.02 3.02 3.02 3.02 3.02 3.02 3.02 3.02 3.02 3.02 3.02 3.02 3.02 3.02 3.02 3.02 3.02 3.02 3.02 3.02 3.02 3.02 3.02 3.02 3.02 3.02 3.02 3.02 3.02 3.02 3.02 3.02 3.02 3.02 3.02 3.02 3.02 3.02 3.02 3.02 3.02 <td>36.41 35.43</td> <td></td> <td></td> <td>40 48</td> <td>60 72</td>	36.41 35.43			40 48	60 72
6.70 7.20 8.19 9.18 10.16 11.15 12.13 14.11 17.06 20.02 22.97 25.92 28.29 9.20 9.69 10.67 11.66 12.64 13.62 14.61 16.58 19.54 22.49 25.44 28.39 30.76 9.69 10.18 11.17 12.15 13.14 14.12 15.10 17.07 20.03 22.98 25.93 28.88 31.25	33.95			60	90
9.20 9.69 10.67 11.66 12.64 13.62 14.61 16.58 19.54 22.49 25.44 28.39 30.76 30.76 9.69 10.18 11.17 12.15 13.14 14.12 15.10 17.07 20.03 22.98 25.93 28.88 31.25	35.77			45	68
	38.24	30.76	38.24 1.520	25	38
8.05 8.54 9.53 10.52 11.50 12.49 13.47 15.44 18.40 21.35 24.31 27.26 29.62 :	38.73			21	32
	37.10	29.62		34	52
	38.09 34.83			26 52	40 80
	38.58			22	34
0.97					, 54

^{*}This length correction factor must be used to determine the proper belt width.

Center Distance is greater than eight times the small diameter and the large sprocket is not flanged. See Engineering Section I-10, Use of Flanged Sprockets, on page 134.



	Sprocket Co			۹ه	Center Distance, Inches											
	veR		veN					(Cente	r Dista	ince, l	nches	•			
No. of Grooves	Pitch Diameter (Inches)	No. of Grooves	Pitch Diameter (Inches)	Speed Ratio	5MR-300 P.L 11.811 60 teeth	5MR-355 P.L 13.976 71 teeth	5MR-375 P.L 14.764 75 teeth	5MR-400 P.L 15.748 80 teeth	5MR-405 P.L 15.945 81 teeth	5MR-425 P.L 16.732 85 teeth	5MR-450 P.L 17.716 90 teeth	5MR-500 P.L 19.685 100 teeth	5MR-535 P.L 21.063 107 teeth	5MR-565 P.L 22.244 113 teeth	5MR-580 P.L 22.835 116 teeth	5MR-600 P.L 23.622 120 teeth
44 18	2.757 1.128	68 28	4.261 1.754	1.545 1.556	3.63	4.72	5.11	5.60	5.70	6.09	6.59	4.26 7.57	4.96 8.26	5.56 8.85	5.85 9.15	6.25 9.54
36	2.256	56	3.509	1.556	3.03	4.72	3.11	3.29	3.38	3.79	4.29	5.27	5.97	6.56	6.86	7.26
32	2.005	50	3.133	1.563		2.90	3.30	3.80	3.89	4.29	4.79	5.78	6.47	7.06	7.36	7.75
23	1.441	36	2.256	1.565	2.97	4.07	4.46	4.95	5.05	5.45	5.94	6.92	7.62	8.21	8.50	8.90
28 19	1.754 1.191	44 30	2.757 1.880	1.571 1.579	3.48	3.41 4.57	3.80 4.96	4.30 5.45	4.40 5.55	4.80 5.94	5.29 6.44	6.28 7.42	6.97 8.11	7.56 8.70	7.86 9.00	8.25 9.39
38	2.381	60	3.760	1.579	0.40	4.07	4.50	0.40	0.00	3.47	3.98	4.97	5.66	6.26	6.56	6.95
24	1.504	38	2.381	1.583	2.82	3.91	4.31	4.80	4.90	5.30	5.79	6.77	7.47	8.06	8.35	8.75
20 25	1.253 1.566	32 40	2.005 2.506	1.600 1.600	3.32 2.67	4.42 3.76	4.81 4.16	5.30 4.65	5.40 4.75	5.79 5.15	6.29 5.64	7.27 6.63	7.96 7.32	8.55 7.91	8.85 8.20	9.24 8.60
30	1.880	48	3.008	1.600	2.07	3.10	3.50	4.00	4.09	4.49	4.99	5.97	6.67	7.26	7.55	7.95
40	2.506	64	4.010	1.600							3.66	4.66	5.36	5.95	6.25	6.65
45	2.820	72	4.511	1.600								3.99	4.70	5.29	5.59	5.99
50 28	3.133 1.754	80 45	5.013 2.820	1.600 1.607		3.36	3.75	4.25	4.34	4.74	5.24	6.22	6.92	4.63 7.51	4.93 7.80	5.33 8.20
56	3.509	90	5.639	1.607		0.00	0.70	1.20	1.01	1.7 1	0.21	U.LL	0.02	7.01	7.00	
21	1.316	34	2.130	1.619	3.17	4.26	4.66	5.15	5.25	5.64	6.14	7.12	7.81	8.40	8.70	9.09
32 22	2.005 1.379	52 36	3.258 2.256	1.625 1.636	3.02	4.11	3.18 4.50	3.69 5.00	3.78 5.10	4.18 5.49	4.68 5.99	5.67 6.97	6.37 7.66	6.96 8.25	7.25 8.55	7.65 8.94
44	2.757	72	4.511	1.636	3.02	4.11	4.50	3.00	3.10	3.43	3.55	4.04	4.74	5.34	5.64	6.04
34	2.130	56	3.509	1.647				3.38	3.47	3.87	4.38	5.37	6.06	6.66	6.95	7.35
68	4.261	112	7.018	1.647	0.00	2.00	4.05	4.05	4.05	E 24	E 0.4	6 00	7.51	0.10	0.40	0.00
23 18	1.441 1.128	38 30	2.381 1.880	1.652 1.667	2.86 3.52	3.96 4.61	4.35 5.00	4.85 5.50	4.95 5.59	5.34 5.99	5.84 6.49	6.82 7.47	7.51 8.16	8.10 8.75	8.40 9.04	8.80 9.44
24	1.504	40	2.506	1.667	2.71	3.81	4.20	4.70	4.79	5.19	5.69	6.67	7.36	7.95	8.25	8.65
30	1.880	50	3.133	1.667		2.99	3.38	3.89	3.98	4.38	4.88	5.87	6.56	7.16	7.45	7.85
36 48	2.256 3.008	60 80	3.760 5.013	1.667 1.667						3.56	4.07	5.06	5.76	6.35 4.71	6.65 5.01	7.04 5.42
19	1.191	32	2.005	1.684	3.37	4.46	4.85	5.35	5.44	5.84	6.34	7.32	8.01	8.60	8.90	9.29
38	2.381	64	4.010	1.684							3.75	4.75	5.45	6.05	6.34	6.74
26	1.629	44	2.757	1.692	0.00	3.50	3.89	4.39	4.49	4.89	5.39	6.37	7.06	7.65	7.95	8.35
20 40	1.253 2.506	34 68	2.130 4.261	1.700 1.700	3.22	4.31	4.70	5.20	5.29	5.69	6.19	7.17 4.44	7.86 5.14	8.45 5.74	8.75 6.04	9.14 6.44
21	1.316	36	2.256	1.714	3.06	4.16	4.55	5.05	5.14	5.54	6.04	7.02	7.71	8.30	8.60	8.99
28	1.754	48	3.008	1.714		3.19	3.58	4.09	4.18	4.58	5.08	6.07	6.76	7.35	7.65	8.05
22 26	1.379 1.629	38 45	2.381 2.820	1.727 1.731	2.91	4.01 3.44	4.40 3.84	4.90 4.34	4.99 4.44	5.39 4.83	5.89 5.33	6.87 6.32	7.56 7.01	8.15 7.60	8.45 7.90	8.84 8.29
52	3.258	90	5.639	1.731		3.44	3.04	4.34	4.44	4.03	0.33	0.32	7.01	7.00	7.90	4.67
30	1.880	52	3.258	1.733			3.27	3.78	3.87	4.27	4.77	5.76	6.46	7.05	7.35	7.74
23	1.441	40	2.506	1.739	2.75	3.85	4.25	4.75	4.84	5.24	5.74	6.72	7.41	8.00	8.30	8.69
32 64	2.005 4.010	56 112	3.509 7.018	1.750 1.750				3.46	3.56	3.96	4.47	5.46	6.15	6.75	7.04	7.44
25	1.566	44	2.757	1.760		3.54	3.94	4.44	4.54	4.93	5.43	6.42	7.11	7.70	8.00	8.39
34	2.130	60	3.760	1.765						3.65	4.15	5.15	5.85	6.44	6.74	7.14
18 36	1.128 2.256	32 64	2.005 4.010	1.778 1.778	3.42	4.51	4.90	5.40	5.49	5.89	6.38 3.84	7.37 4.84	8.06 5.54	8.65 6.14	8.94 6.43	9.34 6.83
45	2.230	80	5.013	1.778							J.04	4.04	4.24	4.84	5.15	5.55
28	1.754	50	3.133	1.786		3.07	3.47	3.98	4.07	4.47	4.97	5.96	6.66	7.25	7.55	7.94
19	1.191	34	2.130	1.789	3.26	4.36	4.75	5.25	5.34	5.74	6.23	7.22	7.91	8.50	8.79	9.19
38 20	2.381 1.253	68 36	4.261 2.256	1.789 1.800	3.11	4.20	4.60	5.09	5.19	5.59	6.08	4.53 7.07	5.23 7.76	5.83 8.35	6.13 8.64	6.53 9.04
25	1.566	45	2.820	1.800	0.11	3.49	3.88	4.39	4.48	4.88	5.38	6.36	7.76	7.65	7.95	8.34
40	2.506	72	4.511	1.800								4.21	4.92	5.52	5.82	6.22
50 21	3.133	90 38	5.639	1.800	2.05	4.05	4.44	4.94	5.04	5.44	5.93	6.92	761	8.20	8.49	4.75
22	1.316 1.379	40	2.381 2.506	1.810 1.818	2.95 2.80	3.90	4.44	4.94	4.89	5.44	5.78	6.77	7.61 7.46	8.05	8.34	8.89 8.74
44	2.757	80	5.013	1.818									4.28	4.89	5.19	5.59
24	1.504	44	2.757	1.833	2.48	3.59	3.98	4.48	4.58	4.98	5.48	6.46	7.16	7.75	8.04	8.44
26 28	1.629 1.754	48 52	3.008 3.258	1.846 1.857		3.28 2.96	3.67 3.36	4.18 3.87	4.27 3.96	4.67 4.36	5.17 4.87	6.16 5.86	6.85 6.55	7.45 7.14	7.74 7.44	8.14 7.84
30	1.880	56	3.509	1.867		2.30	3.04	3.55	3.65	4.05	4.55	5.55	6.24	6.84	7.44	7.53
60	3.760	112	7.018	1.867												
24	1.504	45	2.820	1.875		3.53	3.93	4.43	4.53	4.92	5.42	6.41	7.10	7.70	7.99	8.39
	Le	ngth Facto	r*		0.77	0.81	0.83	0.84	0.85	0.86	0.88	0.90	0.92	0.94	0.95	0.95

^{*}This length factor must be used to determine the proper belt width.

Center Distance is greater than eight times the small diameter and the large sprocket is not flanged. See Engineering Section I-10, Use of Flanged Sprockets, on page 134.



					^onto:	Diete	noo	nobos							Sprocket Combinations		
					Cente	DIST	irice, l	niches	•						DriveR	DriveN	
5MR-625 P.L 24.606 125 teeth	5MR-650 P.L 25.590 130 teeth	5MR-700 P.L 27.559 140 teeth	5MR-750 P.L 29.528 150 teeth	5MR-800 P.L 31.496 160 teeth	5MR-850 P.L 33.465 170 teeth	5MR-900 P.L 35.433 180 teeth	5MR-1000 P.L 39.370 200 teeth	5MR-1150 P.L 45.276 230 teeth	5MR-1300 P.L 51.181 260 teeth	5MR-1450 P.L 57.087 290 teeth	5MR-1600 P.L 62.992 320 teeth	5MR-1720 P.L 67.716 344 teeth	5MR-2100 P.L 82.677 420 teeth	Speed Ratio	No. of grooves	No. of grooves	
6.75	7.24	8.23	9.22	10.21	11.19	12.18	14.15	17.11	20.06	23.02	25.97	28.34	35.82	1.545	44	6	
10.04	10.53	11.51	12.50	13.48	14.46	15.45	17.42	20.37	23.32	26.28	29.23	31.59	39.08	1.556	18	2	
7.75 8.25	8.24 8.74	9.23 9.73	10.22 10.71	11.20 11.70	12.19 12.68	13.17 13.67	15.14 15.64	18.10 18.60	21.05 21.55	24.01 24.50	26.96 27.45	29.33 29.82	36.81 37.30	1.556 1.563	36 32	5	
9.39	9.88	10.87	11.85	12.84	13.82	14.81	16.78	19.73	22.68	25.64	28.59	30.95	38.43	1.565	23	3	
8.75	9.24	10.22	11.21	12.20	13.18	14.16	16.13	19.09	22.04	25.00	27.95	30.31	37.79	1.571	28	4	
9.89	10.38	11.36	12.35	13.33	14.31	15.30	17.27	20.23	23.18	26.13	29.08	31.45	38.93	1.579	19	3	
7.45	7.94	8.93	9.92	10.91	11.89	12.87	14.85	17.80	20.76	23.71	26.66	29.03	36.51	1.579	38	6	
9.24	9.73	10.72	11.71	12.69	13.67	14.66	16.63	19.58	22.53	25.49	28.44	30.81	38.29	1.583	24	3	
9.74 9.09	10.23 9.59	11.21 10.57	12.20 11.56	13.19 12.54	14.17 13.52	15.15 14.51	17.12 16.48	20.08 19.44	23.03 22.39	25.98 25.34	28.93 28.29	31.30 30.66	38.78 38.14	1.600 1.600	20 25	3	
8.45	8.94	9.92	10.91	11.90	12.88	13.86	15.84	18.79	21.74	24.70	27.65	30.00	37.50	1.600	30	4	
7.15	7.64	8.63	9.62	10.61	11.59	12.57	14.55	17.51	20.46	23.42	26.37	28.73	36.21	1.600	40	6	
6.49	6.99	7.98	8.97	9.96	10.94	11.93	13.90	16.86	19.81	22.77	25.72	28.09	35.57	1.600	45	7	
5.83	6.33	7.32	8.31	9.30	10.29	11.28	13.25	16.21	19.17	22.13	25.08	27.45	34.93	1.600	50	8	
8.70	9.19	10.17	11.16	12.15	13.13	14.11	16.08	19.04	21.99	24.95	27.90	30.26	37.74	1.607	28	4	
5.01	5.51	6.51	7.50	8.50	9.49	10.48	12.45	15.42	18.37	21.33	24.29	26.65	34.14	1.607	56	9	
9.59	10.08	11.07	12.05	13.04	14.02	15.00	16.97	19.93	22.88	25.84	28.79	31.15	38.63	1.619	21	3	
8.15 9.44	8.64 9.93	9.63 10.92	10.61 11.90	11.60 12.89	12.58 13.87	13.57 14.85	15.54 16.82	18.50 19.78	21.45 22.73	24.40 25.69	27.35 28.64	29.72 31.00	37.20 38.48	1.625 1.636	32 22	5:	
6.54	7.03	8.02	9.01	10.00	10.99	11.97	13.95	16.91	19.86	22.82	25.77	28.14	35.62	1.636	44	7	
7.85	8.34	9.33	10.31	11.30	12.28	13.27	15.24	18.20	21.15	24.11	27.06	29.42	36.90	1.647	34	5	
				6.75	7.75	8.75	10.74	13.71	16.67	19.64	22.59	24.96	32.45	1.647	68	11	
9.29	9.78	10.77	11.75	12.74	13.72	14.71	16.68	19.63	22.58	25.54	28.49	30.85	38.34	1.652	23	3	
9.94	10.43	11.41	12.40	13.38	14.36	15.35	17.32	20.27	23.22	26.18	29.13	31.50	38.98	1.667	18	3	
9.14	9.63	10.62	11.60	12.59	13.57	14.56	16.53	19.48	22.43	25.39	28.34	30.71	38.19	1.667	24	4	
8.34 7.54	8.84 8.03	9.82 9.02	10.81 10.01	11.80 11.00	12.78 11.98	13.76 12.97	15.74 14.94	18.69 17.90	21.64 20.85	24.60 23.81	27.55 26.76	29.92 29.13	37.40 36.61	1.667 1.667	30 36	5	
5.92	6.42	7.41	8.41	9.40	10.38	11.37	13.35	16.31	19.26	22.22	25.18	27.54	35.03	1.667	48	8	
9.79	10.28	11.26	12.25	13.23	14.21	15.20	17.17	20.13	23.08	26.03	28.98	31.35	38.83	1.684	19	3	
7.24	7.73	8.72	9.71	10.70	11.68	12.67	14.64	17.60	20.55	23.51	26.46	28.83	36.31	1.684	38	6	
8.84	9.33	10.32	11.31	12.29	13.27	14.26	16.23	19.19	22.14	25.09	28.04	30.41	37.89	1.692	26	4	
9.64	10.13	11.11	12.10	13.09	14.07	15.05	17.02	19.98	22.93	25.88	28.83	31.20	38.68	1.700	20	3	
6.93 9.49	7.43 9.98	8.42 10.96	9.41	10.40 12.94	11.38 13.92	12.37	14.34 16.87	17.30 19.83	20.26 22.78	23.21 25.74	26.17 28.69	28.53 31.05	36.01 38.53	1.700 1.714	40 21	6	
9.49 8.54	9.96	10.96	11.95 11.01	11.99	12.97	14.90 13.96	15.93	18.89	21.84	24.80	27.75	30.11	37.59	1.714	28	3 4	
9.34	9.83	10.82	11.80	12.79	13.77	14.75	16.72	19.68	22.63	25.59	28.54	30.90	38.38	1.727	22	3	
8.79	9.28	10.27	11.26	12.24	13.22	14.21	16.18	19.14	22.09	25.04	27.99	30.36	37.84	1.731	26	4	
5.18	5.68	6.69	7.68	8.68	9.67	10.66	12.64	15.61	18.56	21.52	24.48	26.85	34.33	1.731	52	9	
8.24	8.73	9.72	10.71	11.69	12.68	13.66	15.63	18.59	21.54	24.50	27.45	29.82	37.30	1.733	30	5	
9.19	9.68	10.67	11.65	12.64	13.62	14.61	16.58	19.53	22.48	25.44	28.39	30.76	38.24	1.739	23	4	
7.94	8.43	9.42	10.41	11.39	12.38	13.36	15.34	18.29	21.25	24.20	27.15	29.52	37.00	1.750	32	5	
8.89	9.38	10.37	5.91 11.35	6.92 12.34	7.93 13.32	8.93 14.31	10.92 16.28	13.90 19.24	16.86 22.19	19.83 25.14	22.78 28.09	25.15 30.46	32.64 37.94	1.750 1.760	64 25	11	
7.64	8.13	9.12	10.11	11.09	12.08	13.06	15.04	18.00	20.95	23.91	26.86	29.22	36.70	1.765	34	6	
9.83	10.33	11.31	12.30	13.28	14.26	15.25	17.22	20.17	23.13	26.08	29.03	31.40	38.88	1.778	18	3	
7.33	7.82	8.82	9.80	10.79	11.78	12.76	14.74	17.70	20.65	23.61	26.56	28.93	36.41	1.778	36	6	
6.05	6.55	7.55	8.54	9.53	10.52	11.51	13.49	16.45	19.41	22.37	25.32	27.69	35.17	1.778	45	8	
8.44	8.93	9.92	10.90	11.89	12.87	13.86	15.83	18.79	21.74	24.70	27.65	30.01	37.50	1.786	28	5	
9.69	10.18	11.16	12.15	13.13	14.11	15.10	17.07	20.03	22.98	25.93	28.88	31.25	38.73	1.789	19	3	
7.03 9.54	7.52 10.03	8.51 11.01	9.50 12.00	10.49 12.98	11.47 13.97	12.46 14.95	14.44 16.92	17.40 19.88	20.35 22.83	23.31 25.78	26.26 28.73	28.63 31.10	36.11 38.58	1.789 1.800	38 20	3	
8.84	9.33	10.32	11.30	12.90	13.27	14.95	16.23	19.00	22.14	25.76	28.04	30.41	37.89	1.800	25	4	
6.72	7.21	8.21	9.20	10.19	11.17	12.16	14.14	17.10	20.05	23.01	25.96	28.33	35.81	1.800	40	7	
5.27	5.77	6.77	7.77	8.77	9.76	10.75	12.73	15.70	18.66	21.62	24.57	26.94	34.43	1.800	50		
9.39	9.88	10.86	11.85	12.84	13.82	14.80	16.77	19.73	22.68	25.64	28.59	30.95	38.43	1.810	21	3	
9.24	9.73	10.71	11.70	12.69	13.67	14.65	16.62	19.58	22.53	25.49	28.44	30.80	38.28	1.818	22	4	
6.10	6.60	7.59	8.59	9.58	10.57	11.56	13.54	16.50	19.45	22.41	25.37	27.73	35.22	1.818	44	8	
8.94	9.43	10.41	11.40	12.39	13.37	14.35	16.33	19.28	22.23	25.19	28.14	30.51	37.99	1.833	24	4	
8.64	9.13	10.11	11.10	12.09	13.07	14.06	16.03	18.99	21.94	24.89	27.84	30.21	37.69	1.846	26	4	
8.33 8.03	8.83 8.52	9.81 9.51	10.80 10.50	11.79 11.49	12.77 12.47	13.76 13.46	15.73 15.43	18.69 18.39	21.64 21.34	24.60 24.30	27.55 27.25	29.91 29.62	37.40 37.10	1.857 1.867	28 30	5	
0.00	0.02	9.01	6.08	7.10	8.10	9.10	11.10	14.08	17.05	20.01	22.97	25.34	32.83	1.867	60	11	
8.88	9.38	10.36	11.35	12.34	13.32	14.30	16.28	19.23	22.18	25.14	28.09	30.46	37.94	1.875	24	4	
	0.98	1.00	1.01	1.03	1.05	1.06	1.09	1.13	1.16	1.19	1.22	1.24	1.29				

^{*}This length correction factor must be used to determine the proper belt width.

Center Distance is greater than eight times the small diameter and the large sprocket is not flanged. See Engineering Section I-10, Use of Flanged Sprockets, on page 134.



Sprocket Combinations					Center Distance, Inches													
Dri	veR	Dri	veN															
No. of Grooves	Pitch Diameter (Inches)	No. of Grooves	Pitch Diameter (Inches)	Speed Ratio	5MR-300 P.L 11.811 60 teeth	5MR-355 P.L 13.976 71 teeth	5MR-375 P.L 14.764 75 teeth	5MR-400 P.L 15.748 80 teeth	5MR-405 P.L 15.945 81 teeth	5MR-425 P.L 16.732 85 teeth	5MR-450 P.L 17.716 90 teeth	5MR-500 P.L 19.685 100 teeth	5MR-535 P.L 21.063 107 teeth	5MR-565 P.L 22.244 113 teeth	5MR-580 P.L 22.835 116 teeth	5MR-600 P.L 23.622 120 teeth		
32	2.005	60	3.760	1.875				3.23	3.33	3.73	4.24	5.24	5.94	6.53	6.83	7.23		
48 34	3.008 2.130	90 64	5.639 4.010	1.875 1.882						3.41	3.92	4.93	5.63	6.23	6.52	4.84 6.92		
18	1.128	34	2.130	1.889	3.31	4.40	4.79	5.29	5.39	5.78	6.28	7.26	7.96	8.55	8.84	9.24		
36	2.256	68	4.261	1.889							3.60	4.61	5.32	5.92	6.22	6.62		
19 38	1.191 2.381	36 72	2.256 4.511	1.895 1.895	3.15	4.25	4.64	5.14	5.24	5.63	6.13	7.11 4.29	7.80 5.00	8.40 5.61	8.69 5.91	9.09 6.31		
30 20	1.253	38	2.381	1.900	3.00	4.10	4.49	4.99	5.08	5.48	5.98	6.96	7.66	8.25	8.54	8.94		
21	1.316	40	2.506	1.905	2.84	3.94	4.34	4.84	4.93	5.33	5.83	6.81	7.50	8.10	8.39	8.79		
23	1.441	44	2.757	1.913	2.52	3.63	4.03	4.53	4.63	5.02	5.52	6.51	7.20	7.80	8.09	8.49		
25 26	1.566 1.629	48 50	3.008 3.133	1.920 1.923		3.32 3.16	3.72 3.56	4.22 4.07	4.32 4.16	4.72 4.56	5.22 5.06	6.21 6.05	6.90 6.75	7.49 7.34	7.79 7.64	8.19 8.03		
23	1.441	45	2.820	1.957	2.46	3.58	3.97	4.48	4.57	4.97	5.47	6.46	7.15	7.74	8.04	8.44		
18	1.128	36	2.256	2.000	3.20	4.30	4.69	5.19	5.28	5.68	6.18	7.16	7.85	8.44	8.74	9.13		
19	1.191	38	2.381	2.000	3.04	4.14	4.54	5.03	5.13	5.53	6.03	7.01	7.70	8.29	8.59	8.98		
20 22	1.253 1.379	40 44	2.506 2.757	2.000	2.88 2.56	3.99 3.68	4.38 4.07	4.88 4.57	4.98 4.67	5.38 5.07	5.87 5.57	6.86 6.56	7.55 7.25	8.14 7.84	8.44 8.14	8.84 8.53		
24	1.504	48	3.008	2.000	2.50	3.36	3.76	4.26	4.36	4.76	5.26	6.25	6.95	7.54	7.84	8.23		
25	1.566	50	3.133	2.000		3.20	3.60	4.11	4.21	4.61	5.11	6.10	6.79	7.39	7.68	8.08		
26	1.629	52	3.258	2.000		3.04	3.45	3.95	4.05	4.45	4.95	5.95	6.64	7.24	7.53	7.93		
28 30	1.754 1.880	56 60	3.509 3.760	2.000 2.000			3.12	3.64 3.31	3.73 3.41	4.14 3.82	4.64 4.33	5.64 5.33	6.34 6.03	6.93 6.62	7.23 6.92	7.63 7.32		
32	2.005	64	4.010	2.000				3.31	3.41	3.50	4.01	5.02	5.72	6.32	6.61	7.01		
34	2.130	68	4.261	2.000							3.69	4.70	5.41	6.01	6.31	6.71		
36	2.256	72	4.511	2.000								4.38	5.09	5.69	5.99	6.40		
40	2.506	80	5.013	2.000									4.45	5.06	5.36	5.77		
45 56	2.820 3.509	90 112	5.639 7.018	2.000 2.000											4.55	4.96		
22	1.379	45	2.820	2.045	2.50	3.62	4.02	4.52	4.62	5.02	5.51	6.50	7.20	7.79	8.09	8.48		
44	2.757	90	5.639	2.045											4.59	5.01		
25	1.566	52	3.258	2.080		3.08	3.49	4.00	4.09	4.50	5.00	5.99	6.69	7.28	7.58	7.98		
24	1.504 1.441	50 48	3.133 3.008	2.083		3.25 3.41	3.65 3.80	4.15 4.31	4.25 4.41	4.65 4.81	5.15 5.31	6.14	6.84	7.43 7.59	7.73 7.88	8.13 8.28		
21	1.316	44	2.757	2.007	2.61	3.72	4.12	4.62	4.72	5.12	5.61	6.60	7.30	7.89	8.18	8.58		
19	1.191	40	2.506	2.105	2.93	4.03	4.43	4.93	5.02	5.42	5.92	6.91	7.60	8.19	8.49	8.88		
38	2.381	80	5.013	2.105									4.53	5.14	5.45	5.85		
18 34	1.128 2.130	38 72	2.381 4.511	2.111 2.118	3.09	4.19	4.58	5.08	5.18	5.57	6.07	7.06 4.46	7.75 5.18	8.34 5.78	8.64 6.08	9.03 6.48		
32	2.005	68	4.261	2.110							3.77	4.79	5.49	6.09	6.39	6.79		
30	1.880	64	4.010	2.133						3.58	4.09	5.10	5.81	6.41	6.70	7.10		
21	1.316	45	2.820	2.143	2.54	3.66	4.06	4.56	4.66	5.06	5.56	6.55	7.24	7.84	8.13	8.53		
28 26	1.754 1.629	60 56	3.760 3.509	2.143 2.154			3.21	3.40 3.72	3.49 3.82	3.90 4.22	4.41	5.42 5.73	6.12 6.43	6.71 7.02	7.01 7.32	7.41 7.72		
52	3.258	112	7.018	2.154			3.21	3.72	3.02	4.22	4.73	3.73	0.43	7.02	1.32	1.12		
24	1.504	52	3.258	2.167		3.13	3.53	4.04	4.14	4.54	5.04	6.04	6.73	7.33	7.62	8.02		
23	1.441	50	3.133	2.174		3.29	3.69	4.20	4.29	4.70	5.20	6.19	6.89	7.48	7.78	8.17		
22	1.379	48	3.008	2.182	0.65	3.45	3.85	4.35	4.45	4.85	5.35	6.34	7.04	7.63	7.93	8.32		
20 18	1.253 1.128	44	2.757 2.506	2.200 2.222	2.65 2.97	3.77 4.08	4.16 4.47	4.66 4.97	4.76 5.07	5.16 5.47	5.66 5.97	6.65 6.95	7.34 7.64	7.93 8.24	8.23 8.53	8.63 8.93		
36	2.256	80	5.013	2.222	2.57		,	1.57	0.07	0.47	0.07	3.88	4.61	5.23	5.53	5.94		
25	1.566	56	3.509	2.240			3.25	3.76	3.86	4.27	4.77	5.77	6.47	7.07	7.36	7.76		
50	3.133	112	7.018	2.240	2 50	3.71	111	4.01	171	E 11	E 01	6 50	7.29	7 00	0 1 0	0 = 0		
20 32	1.253 2.005	45 72	2.820 4.511	2.250 2.250	2.59	3./1	4.11	4.61	4.71	5.11	5.61 3.52	6.59 4.55	7.29 5.26	7.88 5.87	8.18 6.17	8.58 6.57		
40	2.506	90	5.639	2.250							0.02	1.00	0.20	4.44	4.76	5.17		
23	1.441	52	3.258	2.261		3.17	3.57	4.08	4.18	4.58	5.09	6.08	6.78	7.37	7.67	8.07		
30	1.880	68	4.261	2.267			0.70	4.04	404	4 7 4	3.85	4.87	5.58	6.18	6.48	6.88		
22 21	1.379 1.316	50 48	3.133 3.008	2.273 2.286		3.33 3.49	3.73 3.89	4.24 4.40	4.34 4.49	4.74 4.90	5.24 5.40	6.23 6.39	6.93 7.08	7.53 7.68	7.82 7.97	8.22 8.37		
28	1.754	64	4.010	2.286		3.48	3.09	4.40	3.24	3.66	4.18	5.19	5.89	6.49	6.79	7.19		
26	1.629	60	3.760	2.308				3.48	3.58	3.99	4.50	5.50	6.21	6.80	7.10	7.50		
19	1.191	44	2.757	2.316	2.69	3.81	4.21	4.71	4.81	5.21	5.71	6.69	7.39	7.98	8.28	8.67		
24 48	1.504	56	3.509	2.333		2.88	3.29	3.80	3.90	4.31	4.82	5.82	6.52	7.11	7.41	7.81		
48	3.008	112	7.018	2.333	0.77	0.01	0.00	0.04	0.05	0.06	0.00	0.00	0.00	0.04	0.05	0.05		
Length Factor*					0.77	0.81	0.83	0.84	0.85	0.86	0.88	0.90	0.92	0.94	0.95	0.95		

^{*}This length factor must be used to determine the proper belt width.

Center Distance is greater than eight times the small diameter and the large sprocket is not flanged. See Engineering Section I-10, Use of Flanged Sprockets, on page 134.



	Pitc										Selec				Sprocket Co	mbinations
				(Cente	r Dista	ince, I	nches	•						DriveR	DriveN
5MR-625 P.L 24.606 125 teeth	5MR-650 P.L 25.590 130 teeth	5MR-700 P.L 27.559 140 teeth	5MR-750 P.L 29.528 150 teeth	5MR-800 P.L 31.496 160 teeth	5MR-850 P.L 33.465 170 teeth	5MR-900 P.L 35.433 180 teeth	5MR-1000 P.L 39.370 200 teeth	5MR-1150 P.L 45.276 230 teeth	5MR-1300 P.L 51.181 260 teeth	5MR-1450 P.L 57.087 290 teeth	5MR-1600 P.L 62.992 320 teeth	5MR-1720 P.L 67.716 344 teeth	5MR-2100 P.L 82.677 420 teeth	Speed Ratio	No. of grooves	No. of grooves
7.73	8.22	9.21	10.20	11.19	12.17	13.16	15.13	18.09	21.04	24.00	26.95	29.32	36.80	1.875	32	60
5.35 7.42	5.86 7.92	6.86 8.91	7.86 9.90	8.86 10.89	9.85 11.87	10.84 12.86	12.83 14.83	15.79 17.79	18.75 20.75	21.71 23.70	24.67 26.66	27.04 29.02	34.52 36.51	1.875 1.882	48 34	90 64
9.73	10.22	11.21	12.20	13.18	14.16	15.15	17.12	20.07	23.03	25.70	28.93	31.30	38.78	1.889	18	34
7.12	7.61	8.60	9.59	10.58	11.57	12.56	14.53	17.49	20.45	23.41	26.36	28.72	36.21	1.889	36	68
9.58	10.07	11.06	12.05	13.03	14.01	15.00	16.97	19.93	22.88	25.83	28.78	31.15	38.63	1.895	19	36
6.81	7.30	8.30	9.29	10.28	11.27	12.26	14.23	17.19	20.15	23.11	26.06	28.43	35.91	1.895	38	72
9.43 9.28	9.92 9.78	10.91 10.76	11.90 11.75	12.88 12.73	13.86 13.72	14.85 14.70	16.82 16.67	19.78 19.63	22.73 22.58	25.68 25.54	28.64 28.49	31.00 30.85	38.48 38.33	1.900 1.905	20	38 40
8.98	9.48	10.46	11.45	12.44	13.42	14.40	16.37	19.33	22.28	25.24	28.19	30.56	38.04	1.913	23	44
8.68	9.17	10.16	11.15	12.14	13.12	14.10	16.08	19.03	21.99	24.94	27.89	30.26	37.74	1.920	25	48
8.53	9.02	10.01	11.00	11.99	12.97	13.95	15.93	18.88	21.84	24.79	27.74	30.11	37.59	1.923	26	50
8.93 9.63	9.42 10.12	10.41 11.11	11.40 12.09	12.38 13.08	13.37 14.06	14.35 15.05	16.32 17.02	19.28 19.97	22.23 22.93	25.19 25.88	28.14 28.83	30.51 31.20	37.99 38.68	1.957 2.000	23 18	45 36
9.48	9.97	10.96	11.94	12.93	13.91	14.90	16.87	19.83	22.93	25.73	28.68	31.20	38.53	2.000	19	38
9.33	9.82	10.81	11.80	12.78	13.76	14.75	16.72	19.68	22.63	25.59	28.54	30.90	38.38	2.000	20	40
9.03	9.52	10.51	11.50	12.48	13.46	14.45	16.42	19.38	22.33	25.29	28.24	30.60	38.09	2.000	22	44
8.73	9.22	10.21	11.20	12.18	13.16	14.15	16.12	19.08	22.03	24.99	27.94	30.31	37.79	2.000	24	48
8.58 8.43	9.07 8.92	10.06 9.91	11.05 10.90	12.03 11.88	13.02 12.87	14.00 13.85	15.98 15.83	18.93 18.78	21.89 21.74	24.84 24.69	27.79 27.64	30.16 30.01	37.64 37.49	2.000 2.000	25 26	50 52
8.12	8.62	9.61	10.60	11.58	12.57	13.55	15.53	18.49	21.44	24.40	27.35	29.71	37.20	2.000	28	56
7.82	8.31	9.30	10.29	11.28	12.26	13.25	15.23	18.19	21.14	24.10	27.05	29.42	36.90	2.000	30	60
7.51	8.01	9.00	9.99	10.98	11.96	12.95	14.93	17.89	20.84	23.80	26.75	29.12	36.60	2.000	32	64
7.21	7.70	8.70	9.69	10.68	11.66	12.65	14.63	17.59	20.54	23.50	26.45	28.82	36.30	2.000	34	68 72
6.90 6.27	7.39 6.77	8.39 7.77	9.38 8.77	10.37 9.76	11.36 10.75	12.35 11.74	14.33 13.72	17.29 16.69	20.24 19.64	23.20 22.60	26.16 25.56	28.52 27.93	36.01 35.41	2.000	36 40	80
5.48	5.98	6.99	8.00	9.00	9.99	10.98	12.96	15.93	18.89	21.86	24.81	27.18	34.67	2.000	45	90
			6.25	7.27	8.28	9.28	11.28	14.26	17.23	20.20	23.16	25.53	33.03	2.000	56	112
8.98	9.47	10.46	11.44	12.43	13.41	14.40	16.37	19.33	22.28	25.24	28.19	30.55	38.04	2.045	22	45
5.52 8.47	6.03 8.97	7.04 9.96	8.04 10.94	9.04 11.93	10.03 12.91	11.03 13.90	13.01 15.87	15.98 18.83	18.94 21.78	21.90 24.74	24.86 27.69	27.23 30.06	34.72 37.54	2.045 2.080	44 25	90 52
8.62	9.12	10.11	11.09	12.08	13.06	14.05	16.02	18.98	21.76	24.74	27.84	30.21	37.69	2.083	24	50
8.78	9.27	10.26	11.24	12.23	13.21	14.20	16.17	19.13	22.08	25.04	27.99	30.36	37.84	2.087	23	48
9.08	9.57	10.56	11.54	12.53	13.51	14.50	16.47	19.43	22.38	25.34	28.29	30.65	38.13	2.095	21	44
9.38	9.87	10.86	11.84	12.83	13.81	14.80	16.77	19.73	22.68	25.63	28.58	30.95	38.43	2.105	19	40
6.36 9.53	6.86 10.02	7.86 11.01	8.86 11.99	9.85 12.98	10.84 13.96	11.83 14.95	13.82 16.92	16.78 19.87	19.74 22.83	22.70 25.78	25.65 28.73	28.02 31.10	35.51 38.58	2.105 2.111	38 18	80 38
6.99	7.48	8.48	9.47	10.47	11.45	12.44	14.42	17.38	20.34	23.30	26.25	28.62	36.10	2.118	34	72
7.30	7.79	8.79	9.78	10.77	11.75	12.74	14.72	17.68	20.64	23.60	26.55	28.92	36.40	2.125	32	68
7.60	8.10	9.09	10.08	11.07	12.06	13.05	15.02	17.98	20.94	23.90	26.85	29.21	36.70	2.133	30	64
9.03 7.91	9.52 8.40	10.50 9.40	11.49 10.39	12.48 11.38	13.46 12.36	14.45 13.35	16.42 15.32	19.38 18.28	22.33 21.24	25.29 24.19	28.24 27.15	30.60 29.51	38.08 37.00	2.143 2.143	21 28	45 60
8.22	8.71	9.70	10.59	11.68	12.56	13.65	15.62	18.58	21.53	24.19	27.13	29.81	37.00	2.143	26	56
0.22	0	5.38	6.42	7.44	8.45	9.46	11.46	14.45	17.42	20.39	23.35	25.72	33.22	2.154	52	112
8.52	9.01	10.00	10.99	11.98	12.96	13.95	15.92	18.88	21.83	24.79	27.74	30.11	37.59	2.167	24	52
8.67	9.16	10.15	11.14	12.13	13.11	14.10	16.07	19.03	21.98	24.94	27.89	30.26	37.74	2.174	23	50
8.82 9.12	9.31 9.62	10.30 10.60	11.29 11.59	12.28 12.58	13.26 13.56	14.25 14.55	16.22 16.52	19.18 19.48	22.13 22.43	25.09 25.38	28.04 28.34	30.40 30.70	37.89 38.18	2.182 2.200	22 20	48 44
9.43	9.92	10.90	11.89	12.88	13.86	14.84	16.82	19.77	22.73	25.68	28.63	31.00	38.48	2.222	18	40
6.45	6.95	7.95	8.95	9.95	10.93	11.93	13.91	16.87	19.83	22.79	25.75	28.12	35.60	2.222	36	80
8.26	8.76	9.75	10.74	11.72	12.71	13.69	15.67	18.63	21.58	24.54	27.49	29.86	37.34	2.240	25	56
9.07	0.56	5.46	6.50	7.53	8.54	9.54	11.55 16.47	14.54 19.43	17.51	20.48	23.44	25.81 30.65	33.31	2.240	50	112 45
7.08	9.56 7.57	10.55 8.57	11.54 9.57	12.53 10.56	13.51 11.54	14.49 12.53	14.51	17.48	22.38 20.43	25.33 23.39	28.29 26.35	28.72	38.13 36.20	2.250 2.250	20 32	72
5.69	6.20	7.21	8.22	9.22	10.21	11.21	13.19	16.17	19.13	22.09	25.05	27.42	34.91	2.250	40	90
8.57	9.06	10.05	11.04	12.03	13.01	13.99	15.97	18.93	21.88	24.84	27.79	30.16	37.64	2.261	23	52
7.39	7.88	8.88	9.87	10.86	11.85	12.84	14.81	17.78	20.73	23.69	26.65	29.01	36.50	2.267	30	68
8.72 8.87	9.21 9.36	10.20 10.35	11.19 11.34	12.17 12.32	13.16 13.31	14.14 14.29	16.12 16.27	19.08 19.23	22.03 22.18	24.99 25.13	27.94 28.09	30.30 30.45	37.79 37.93	2.273 2.286	22	50 48
8.87 7.70	8.19	9.18	10.18	11.17	12.15	13.14	15.12	18.08	21.03	23.99	26.94	29.31	36.80	2.286	21 28	64
8.00	8.50	9.49	10.18	11.47	12.45	13.44	15.42	18.38	21.33	24.29	27.24	29.61	37.09	2.308	26	60
9.17	9.66	10.65	11.64	12.62	13.61	14.59	16.57	19.52	22.48	25.43	28.38	30.75	38.23	2.316	19	44
8.31	8.80	9.79	10.78	11.77	12.75	13.74	15.72	18.68	21.63	24.59	27.54	29.91	37.39	2.333	24	56
		5.54	6.58	7.61	8.62	9.63	11.64	14.63	17.60	20.57	23.54	25.91	33.41	2.333	48	112
0.97	0.98	1.00	1.01	1.03	1.05	1.06	1.09	1.13	1.16	1.19	1.22	1.24	1.29			

^{*}This length correction factor must be used to determine the proper belt width.

Center Distance is greater than eight times the small diameter and the large sprocket is not flanged. See Engineering Section I-10, Use of Flanged Sprockets, on page 134.



Sprocket Combinations																		
	veR		veN		Center Distance, Inches													
No. of Grooves	Pitch Diameter (Inches)	No. of Grooves	Pitch Diameter (Inches)	Speed Ratio	5MR-300 P.L 11.811 60 teeth	5MR-355 P.L 13.976 71 teeth	5MR-375 P.L 14.764 75 teeth	5MR-400 P.L 15.748 80 teeth	5MR-405 P.L 15.945 81 teeth	5MR-425 P.L 16.732 85 teeth	5MR-450 P.L 17.716 90 teeth	5MR-500 P.L 19.685 100 teeth	5MR-535 P.L 21.063 107 teeth	5MR-565 P.L 22.244 113 teeth	5MR-580 P.L 22.835 116 teeth	5MR-600 P.L 23.622 120 teeth		
34 22	2.130	80	5.013	2.353		2.01	3.62	4 10	4.00	4.60	E 10	3.96	4.70	5.31	5.62	6.03		
19	1.379 1.191	52 45	3.258 2.820	2.364 2.368	2.63	3.21 3.75	4.15	4.13 4.65	4.22 4.75	4.63 5.15	5.13 5.65	6.13 6.64	6.82 7.33	7.42 7.93	7.72 8.22	8.11 8.62		
38	2.381	90	5.639	2.368	2.00		1.10	1.00		0.10	0.00	0.01	7.00	4.52	4.84	5.26		
21	1.316	50	3.133	2.381		3.37	3.78	4.28	4.38	4.78	5.29	6.28	6.98	7.57	7.87	8.27		
20 25	1.253 1.566	48 60	3.008 3.760	2.400 2.400		3.53	3.94 2.99	4.44 3.52	4.54 3.62	4.94 4.03	5.44 4.54	6.43 5.55	7.13 6.25	7.72 6.85	8.02 7.15	8.42 7.55		
30	1.880	72	4.511	2.400			2.55	0.02	0.02	4.00	3.60	4.63	5.35	5.95	6.26	6.66		
28	1.754	68	4.261	2.429						3.41	3.93	4.96	5.67	6.27	6.57	6.97		
23 18	1.441 1.128	56 44	3.509 2.757	2.435 2.444	2.73	2.92 3.85	3.33 4.25	3.85 4.75	3.95 4.85	4.35 5.25	4.86 5.75	5.86 6.74	6.56 7.43	7.16 8.03	7.46 8.32	7.85 8.72		
26	1.629	64	4.010	2.462	2.75	0.00	4.25	3.22	3.33	3.75	4.26	5.28	5.98	6.58	6.88	7.28		
21	1.316	52	3.258	2.476		3.25	3.66	4.17	4.27	4.67	5.18	6.17	6.87	7.46	7.76	8.16		
45 18	2.820 1.128	112 45	7.018 2.820	2.489 2.500	2.67	3.79	4.19	4.70	4.79	5.20	5.70	6.69	7.38	7.97	8.27	8.67		
20	1.126	50	3.133	2.500	2.07	3.42	3.82	4.70	4.79	4.83	5.70	6.33	7.02	7.62	7.91	8.31		
24	1.504	60	3.760	2.500			3.03	3.56	3.66	4.07	4.59	5.59	6.29	6.89	7.19	7.59		
32	2.005	80	5.013	2.500								4.05	4.78	5.40	5.70	6.11		
36 19	2.256 1.191	90 48	5.639 3.008	2.500 2.526	2.44	3.58	3.98	4.48	4.58	4.98	5.49	6.48	7.17	4.60 7.77	4.92 8.07	5.34 8.46		
22	1.379	56	3.509	2.545		2.96	3.37	3.89	3.99	4.40	4.90	5.90	6.60	7.20	7.50	7.90		
44	2.757	112	7.018	2.545				0.00	0.07	0.70	4.04	5.00	0.00	0.00	0.00	7.00		
25 28	1.566 1.754	64 72	4.010 4.511	2.560 2.571				3.26	3.37	3.79	4.31 3.68	5.32 4.72	6.03 5.43	6.63 6.04	6.93 6.34	7.33 6.75		
20	1.253	52	3.258	2.600		3.29	3.70	4.21	4.31	4.72	5.22	6.22	6.91	7.51	7.81	8.21		
23	1.441	60	3.760	2.609			3.07	3.60	3.70	4.12	4.63	5.64	6.34	6.94	7.24	7.64		
26 19	1.629 1.191	68 50	4.261 3.133	2.615 2.632		3.46	3.86	4.37	4.47	3.49 4.87	4.02 5.38	5.04 6.37	5.75 7.07	6.36 7.66	6.66 7.96	7.06 8.36		
34	2.130	90	5.639	2.647		3.40	3.00	4.37	4.47	4.07	3.30	0.57	7.07	4.69	5.00	5.42		
18	1.128	48	3.008	2.667	2.48	3.62	4.02	4.53	4.63	5.03	5.53	6.52	7.22	7.81	8.11	8.51		
21 24	1.316 1.504	56 64	3.509 4.010	2.667 2.667		3.00	3.41	3.93 3.30	4.03 3.41	4.44	4.95 4.35	5.95 5.36	6.65	7.25 6.67	7.55 6.97	7.94 7.37		
30	1.880	80	5.013	2.667				3.30	3.41	3.83	4.33	4.13	6.07 4.86	5.48	5.79	6.20		
25	1.566	68	4.261	2.720						3.53	4.06	5.08	5.80	6.40	6.70	7.11		
22	1.379	60	3.760	2.727		0.00	3.11	3.64	3.74	4.16	4.67	5.68	6.38	6.98	7.28	7.68		
19 26	1.191 1.629	52 72	3.258 4.511	2.737 2.769		3.33	3.74	4.25	4.35	4.76	5.26 3.76	6.26 4.80	6.96 5.52	7.55 6.13	7.85 6.43	8.25 6.84		
18	1.128	50	3.133	2.778		3.50	3.90	4.41	4.51	4.92	5.42	6.41	7.11	7.71	8.01	8.40		
23	1.441	64	4.010	2.783			0.45	3.34	3.45	3.87	4.39	5.41	6.11	6.72	7.02	7.42		
20 40	1.253 2.506	56 112	3.509 7.018	2.800 2.800		3.04	3.45	3.97	4.07	4.48	4.99	5.99	6.69	7.29	7.59	7.99		
32	2.005	90	5.639	2.813									4.12	4.77	5.08	5.50		
24	1.504	68	4.261	2.833						3.57	4.10	5.13	5.84	6.44	6.75	7.15		
21 28	1.316 1.754	60 80	3.760 5.013	2.857 2.857			3.15	3.68	3.78	4.20	4.71	5.72 4.21	6.43 4.94	7.03 5.56	7.33 5.87	7.73 6.28		
25	1.566	72	4.511	2.880						3.25	3.80	4.84	5.56	6.17	6.47	6.88		
18	1.128	52	3.258	2.889		3.38	3.78	4.30	4.40	4.80	5.31	6.31	7.00	7.60	7.90	8.30		
22 19	1.379 1.191	64 56	4.010 3.509	2.909 2.947		3.08	3.49	3.38 4.02	3.49 4.11	3.91 4.52	4.43 5.03	5.45 6.04	6.16 6.74	6.76 7.34	7.06 7.64	7.46 8.03		
38	2.381	112	7.018	2.947		3.00	3.49	4.02	4.11	4.02	0.03	0.04	0.74	1.34	1.04	0.03		
23	1.441	68	4.261	2.957					3.17	3.61	4.14	5.17	5.88	6.49	6.79	7.19		
20	1.253	60	3.760	3.000			3.19	3.72	3.83	4.24	4.76	5.77	6.47	7.07	7.37	7.77		
24 30	1.504 1.880	72 90	4.511 5.639	3.000 3.000						3.29	3.84	4.88	5.60 4.20	6.21 4.85	6.52 5.16	6.92 5.59		
21	1.316	64	4.010	3.048				3.42	3.53	3.95	4.47	5.49	6.20	6.80	7.10	7.51		
26	1.629	80	5.013	3.077					0.04	0.05	440	4.28	5.03	5.65	5.96	6.37		
22 18	1.379 1.128	68 56	4.261 3.509	3.091 3.111		3.12	3.54	4.06	3.21 4.16	3.65 4.57	4.18 5.08	5.21 6.08	5.92 6.78	6.53 7.38	6.83 7.68	7.24 8.08		
36	2.256	112	7.018	3.111		0.12	0.04	7.00	7.10	7.01	0.00	0.00	0.70	/ .50	7.00	0.00		
23	1.441	72	4.511	3.130		0.55			0	3.33	3.88	4.92	5.65	6.26	6.56	6.97		
19 20	1.191 1.253	60 64	3.760 4.010	3.158 3.200		2.80	3.23	3.77 3.46	3.87 3.57	4.28 3.99	4.80 4.51	5.81 5.53	6.51 6.24	7.12 6.85	7.41 7.15	7.82 7.55		
25 25	1.566	80	5.013	3.200				0.40	3.37	0.00	7.51	4.32	5.07	5.69	6.00	6.41		
28	1.754	90	5.639	3.214									4.27	4.93	5.24	5.67		
Length Factor*					0.77	0.81	0.83	0.84	0.85	0.86	0.88	0.90	0.92	0.94	0.95	0.95		

^{*}This length factor must be used to determine the proper belt width.

Center Distance is greater than eight times the small diameter and the large sprocket is not flanged. See Engineering Section I-10, Use of Flanged Sprockets, on page 134.



					Conto	Diete	noo '	nobos							Sprocket Co	ombinations
					Jentel	DIST	ince, i	nches	•						DriveR	DriveN
5MR-625 P.L 24.606 125 teeth	5MR-650 P.L 25.590 130 teeth	5MR-700 P.L 27.559 140 teeth	5MR-750 P.L 29.528 150 teeth	5MR-800 P.L 31.496 160 teeth	5MR-850 P.L 33.465 170 teeth	5MR-900 P.L 35.433 180 teeth	5MR-1000 P.L 39.370 200 teeth	5MR-1150 P.L 45.276 230 teeth	5MR-1300 P.L 51.181 260 teeth	5MR-1450 P.L 57.087 290 teeth	5MR-1600 P.L 62.992 320 teeth	5MR-1720 P.L 67.716 344 teeth	5MR-2100 P.L 82.677 420 teeth	Speed Ratio	No. of grooves	No. of grooves
6.54	7.04	8.04	9.04	10.04	11.03	12.02	14.00	16.97	19.93	22.89	25.84	28.21	35.70	2.353	34	80
8.61	9.10	10.09	11.08	12.07	13.05	14.04	16.02	18.97	21.93	24.89	27.84	30.20	37.69	2.364	22	52
9.12	9.61	10.60	11.59	12.57	13.56	14.54	16.51	19.47	22.42	25.38	28.33	30.70	38.18	2.368	19	45
5.77 8.76	6.28 9.26	7.30 10.25	8.31 11.23	9.31 12.22	10.30 13.20	11.30 14.19	13.29 16.17	16.26 19.12	19.22 22.08	22.19 25.03	25.14 27.99	27.51 30.35	35.00 37.83	2.368 2.381	38 21	90 50
8.92	9.20	10.25	11.23	12.22	13.35	14.19	16.31	19.12	22.00	25.03	28.13	30.50	37.03	2.400	20	48
8.05	8.54	9.53	10.52	11.51	12.50	13.49	15.46	18.42	21.38	24.34	27.29	29.66	37.14	2.400	25	60
7.16	7.66	8.66	9.66	10.65	11.64	12.63	14.61	17.57	20.53	23.49	26.44	28.81	36.30	2.400	30	72
7.48	7.97	8.97	9.96	10.95	11.94	12.93	14.91	17.87	20.83	23.79	26.74	29.11	36.59	2.429	28	68
8.35	8.85	9.84	10.83	11.82	12.80	13.79	15.76	18.72	21.68	24.64	27.59	29.95	37.44	2.435	23	56
9.22	9.71	10.70	11.69	12.67	13.65	14.64	16.61	19.57	22.52	25.48	28.43	30.80	38.28	2.444	18	44
7.78	8.28	9.27	10.27	11.26	12.24	13.23	15.21	18.17	21.13	24.09	27.04	29.41	36.89	2.462	26	64
8.66	9.15	10.14 5.66	11.13 6.71	12.12 7.74	13.10 8.75	14.09 9.76	16.06 11.77	19.02 14.76	21.98 17.74	24.93 20.71	27.89 23.68	30.25 26.05	37.74 33.55	2.476 2.489	21 45	52 112
9.17	9.66	10.65	11.63	12.62	13.60	14.59	16.56	19.52	22.47	25.43	28.38	30.75	38.23	2.409	18	45
8.81	9.30	10.03	11.28	12.02	13.25	14.24	16.21	19.17	22.13	25.08	28.03	30.40	37.88	2.500	20	50
8.09	8.59	9.58	10.57	11.56	12.54	13.53	15.51	18.47	21.43	24.38	27.34	29.70	37.19	2.500	24	60
6.62	7.12	8.13	9.13	10.13	11.12	12.11	14.09	17.06	20.02	22.98	25.94	28.31	35.80	2.500	32	80
5.86	6.37	7.38	8.39	9.40	10.39	11.39	13.38	16.35	19.32	22.28	25.24	27.61	35.10	2.500	36	90
8.96	9.45	10.44	11.43	12.42	13.40	14.39	16.36	19.32	22.27	25.23	28.18	30.55	38.03	2.526	19	48
8.40	8.89	9.88	10.87	11.86	12.85	13.83	15.81	18.77	21.72	24.68	27.64	30.00	37.49	2.545	22	56
7.00	0.00	5.70	6.75	7.78	8.79	9.81	11.82	14.81	17.78	20.76	23.72	26.10	33.60	2.545	44	112
7.83 7.25	8.33 7.75	9.32 8.75	10.31 9.75	11.30 10.74	12.29 11.73	13.28 12.72	15.26 14.70	18.22 17.67	21.18 20.62	24.13 23.58	27.09 26.54	29.46 28.91	36.94 36.39	2.560 2.571	25 28	64 72
8.70	9.20	10.19	11.18	12.17	13.15	14.14	16.11	19.07	22.02	24.98	27.93	30.30	37.78	2.600	20	52
8.14	8.63	9.63	10.62	11.61	12.59	13.58	15.56	18.52	21.47	24.43	27.39	29.75	37.24	2.609	23	60
7.56	8.06	9.06	10.05	11.05	12.03	13.02	15.00	17.97	20.92	23.88	26.84	29.20	36.69	2.615	26	68
8.86	9.35	10.34	11.33	12.32	13.30	14.29	16.26	19.22	22.17	25.13	28.08	30.45	37.93	2.632	19	50
5.94	6.45	7.47	8.48	9.49	10.48	11.48	13.47	16.44	19.41	22.37	25.33	27.70	35.19	2.647	34	90
9.01	9.50	10.49	11.48	12.47	13.45	14.44	16.41	19.37	22.32	25.28	28.23	30.60	38.08	2.667	18	48
8.44 7.87	8.94 8.37	9.93 9.37	10.92 10.36	11.91 11.35	12.89 12.34	13.88 13.33	15.86 15.30	18.82 18.27	21.77 21.22	24.73 24.18	27.68 27.14	30.05 29.50	37.53 36.99	2.667 2.667	21 24	56 64
6.71	7.21	8.22	9.22	10.22	11.21	12.20	14.18	17.15	20.12	23.08	26.03	28.40	35.89	2.667	30	80
7.61	8.11	9.10	10.10	11.09	12.08	13.07	15.05	18.01	20.12	23.93	26.88	29.25	36.74	2.720	25	68
8.18	8.68	9.67	10.66	11.65	12.64	13.63	15.60	18.57	21.52	24.48	27.43	29.80	37.28	2.727	22	60
8.75	9.24	10.23	11.22	12.21	13.20	14.18	16.16	19.12	22.07	25.03	27.98	30.35	37.83	2.737	19	52
7.34	7.84	8.84	9.84	10.83	11.82	12.81	14.79	17.76	20.72	23.68	26.63	29.00	36.49	2.769	26	72
8.90	9.39	10.38	11.37	12.36	13.35	14.33	16.31	19.27	22.22	25.18	28.13	30.50	37.98	2.778	18	50
7.92 8.49	8.42 8.98	9.41	10.40 10.97	11.40	12.38	13.37 13.93	15.35 15.90	18.31 18.87	21.27	24.23 24.78	27.18 27.73	29.55	37.04	2.783	23 20	64
0.49	0.90	9.98 5.86	6.91	11.96 7.95	12.94 8.96	9.98	11.99	14.99	21.82 17.97	20.94	23.91	30.10 26.28	37.58 33.78	2.800	40	56 112
6.03	6.54	7.56	8.57	9.57	10.57	11.57	13.56	16.54	19.50	22.47	25.43	27.80	35.29	2.813	32	90
7.65	8.15	9.15	10.14	11.14	12.12	13.11	15.09	18.06	21.02	23.98	26.93	29.30	36.79	2.833	24	68
8.23	8.72	9.72	10.71	11.70	12.68	13.67	15.65	18.61	21.57	24.53	27.48	29.85	37.33	2.857	21	60
6.79	7.30	8.30	9.31	10.31	11.30	12.29	14.28	17.25	20.21	23.17	26.13	28.50	35.99	2.857	28	80
7.38	7.88	8.88	9.88	10.88	11.87	12.86	14.84	17.81	20.76	23.73	26.68	29.05	36.54	2.880	25	72
8.80 7.06	9.29	10.28	11.27	12.26	13.24	14.23	16.21	19.17	22.12	25.08	28.03	30.40	37.88	2.889	18	52 64
7.96 8.53	8.46 9.03	9.46	10.45 11.01	11.44 12.00	12.43 12.99	13.42 13.98	15.40 15.95	18.36 18.91	21.32 21.87	24.28 24.83	27.23 27.78	29.60 30.15	37.08 37.63	2.909 2.947	22 19	56
0.00	3.03	5.94	7.00	8.03	9.05	10.06	12.08	15.08	18.06	21.04	24.00	26.38	33.88	2.947	38	112
7.70	8.20	9.19	10.19	11.18	12.17	13.16	15.14	18.11	21.06	24.03	26.98	29.35	36.83	2.957	23	68
8.27	8.77	9.76	10.75	11.75	12.73	13.72	15.70	18.66	21.62	24.58	27.53	29.90	37.38	3.000	20	60
7.43	7.93	8.93	9.93	10.92	11.91	12.90	14.88	17.85	20.81	23.77	26.73	29.10	36.58	3.000	24	72
6.11	6.62	7.64	8.65	9.66	10.66	11.66	13.65	16.63	19.59	22.56	25.52	27.89	35.38	3.000	30	90
8.01	8.51	9.50	10.50	11.49	12.47	13.46	15.44	18.41	21.36	24.32	27.28	29.65	37.13	3.048	21	64
6.88 7.74	7.38	8.39 9.24	9.40 10.23	10.40	11.39	12.38	14.37	17.34	20.30	23.27	26.22	28.59	36.08	3.077	26	80
7.74 8.58	8.24 9.07	10.07	11.06	11.23 12.05	12.22 13.03	13.21 14.02	15.19 16.00	18.15 18.96	21.11 21.92	24.07 24.87	27.03 27.83	29.40 30.19	36.88 37.68	3.091 3.111	22 18	68 56
0.00	4.92	6.02	7.08	8.11	9.13	10.15	12.17	15.17	18.15	21.13	24.09	26.47	33.97	3.111	36	112
7.47	7.97	8.97	9.97	10.97	11.96	12.95	14.93	17.90	20.86	23.82	26.78	29.14	36.63	3.130	23	72
8.32	8.81	9.81	10.80	11.79	12.78	13.77	15.74	18.71	21.66	24.62	27.58	29.94	37.43	3.158	19	60
8.05	8.55	9.55	10.54	11.53	12.52	13.51	15.49	18.45	21.41	24.37	27.33	29.69	37.18	3.200	20	64
6.92	7.43	8.44	9.44	10.44	11.43	12.43	14.41	17.39	20.35	23.31	26.27	28.64	36.13	3.200	25	80
6.19	6.71	7.73	8.74	9.75	10.75	11.75	13.74	16.72	19.69	22.66	25.61	27.99	35.48	3.214	28	90
0.97	0.98	1.00	1.01	1.03	1.05	1.06	1.09	1.13	1.16	1.19	1.22	1.24	1.29			

^{*}This length correction factor must be used to determine the proper belt width.

Center Distance is greater than eight times the small diameter and the large sprocket is not flanged. See Engineering Section I-10, Use of Flanged Sprockets, on page 134.



Drive Selection Table

	Sprocket Co								Cente	r Dista	nce, I	nches	}			
Driv	veR	Dri	veN													
No. of Grooves	Pitch Diameter (Inches)	No. of Grooves	Pitch Diameter (Inches)	Speed Ratio	5MR-300 P.L 11.811 60 teeth	5MR-355 P.L 13.976 71 teeth	5MR-375 P.L 14.764 75 teeth	5MR-400 P.L 15.748 80 teeth	5MR-405 P.L 15.945 81 teeth	5MR-425 P.L 16.732 85 teeth	5MR-450 P.L 17.716 90 teeth	5MR-500 P.L 19.685 100 teeth	5MR-535 P.L 21.063 107 teeth	5MR-565 P.L 22.244 113 teeth	5MR-580 P.L 22.835 116 teeth	5MR-600 P.L 23.622 120 teeth
21	1.316	68	4.261	3.238				3.14	3.25	3.69	4.22	5.25	5.97	6.57	6.88	7.28
22	1.379	72	4.511	3.273						3.37	3.92	4.96	5.69	6.30	6.60	7.01
34	2.130	112	7.018	3.294												
18	1.128	60	3.760	3.333		2.84	3.27	3.81	3.91	4.32	4.84	5.85	6.56	7.16	7.46	7.86
24	1.504	80	5.013	3.333								4.36	5.11	5.73	6.04	6.45
19	1.191	64	4.010	3.368			2.95	3.50	3.61	4.03	4.56	5.58	6.29	6.89	7.19	7.59
20	1.253	68	4.261	3.400				3.18	3.29	3.73	4.26	5.29	6.01	6.62	6.92	7.32
21	1.316	72	4.511	3.429						3.41	3.96	5.01	5.73	6.34	6.65	7.05
26	1.629	90	5.639	3.462									4.35	5.00	5.32	5.75
23	1.441	80	5.013	3.478								4.40	5.15	5.77	6.08	6.49
32	2.005	112	7.018	3.500				0.54		4.07	4.00					
18	1.128	64	4.010	3.556			2.99	3.54	3.65	4.07	4.60	5.62	6.33	6.93	7.24	7.64
19	1.191	68	4.261	3.579				3.22	3.33	3.77	4.30	5.34	6.05	6.66	6.96	7.37
20	1.253	72	4.511	3.600						3.45	4.00	5.05	5.77	6.38	6.69	7.10
25 22	1.566 1.379	90 80	5.639	3.600 3.636								444	4.39 5.19	5.04 5.81	5.36 6.12	5.79 6.54
30	1.880	112	5.013 7.018	3.733								4.44	5.19	5.81	6.12	6.54
24	1.504	90	5.639	3.750									4.43	5.08	5.40	5.83
18	1.128	68	4.261	3.778				3.26	3.37	3.81	4.34	5.38	6.10	6.70	7.01	7.41
19	1.120	72	4.511	3.789				3.20	3.02	3.48	4.04	5.09	5.81	6.43	6.73	7.41
21	1.316	80	5.013	3.810					0.02	0.40	3.37	4.48	5.23	5.85	6.16	6.58
23	1.441	90	5.639	3.913							0.07	7.70	4.47	5.12	5.44	5.87
18	1.128	72	4.511	4.000					3.06	3.52	4.07	5.13	5.86	6.47	6.77	7.18
20	1.253	80	5.013	4.000					0.00	0.02	3.41	4.52	5.27	5.90	6.21	6.62
28	1.754	112	7.018	4.000							0.11	1.02	0.27	0.00	0.21	0.02
22	1.379	90	5.639	4.091								3.70	4.50	5.16	5.48	5.91
19	1.191	80	5.013	4.211							3.44	4.56	5.31	5.94	6.25	6.66
21	1.316	90	5.639	4.286								3.73	4.54	5.20	5.52	5.95
26	1.629	112	7.018	4.308												
18	1.128	80	5.013	4.444							3.48	4.60	5.35	5.98	6.29	6.70
25	1.566	112	7.018	4.480												
20	1.253	90	5.639	4.500								3.77	4.58	5.24	5.56	5.99
24	1.504	112	7.018	4.667												
19	1.191	90	5.639	4.737								3.81	4.62	5.28	5.60	6.03
23	1.441	112	7.018	4.870												
18	1.128	90	5.639	5.000								3.84	4.66	5.32	5.64	6.07
22	1.379	112	7.018	5.091												
21	1.316	112	7.018	5.333												
20	1.253	112	7.018	5.600												4.31
19	1.191	112	7.018	5.895												4.34
18	1.128	112	7.018	6.222												4.38
	Le	ngth Facto	r*		0.77	0.81	0.83	0.84	0.85	0.86	0.88	0.90	0.92	0.94	0.95	0.95

^{*}This length factor must be used to determine the proper belt width.

Teeth in Mesh Factor: 1.0 0.8 0.6

Center Distance is greater than eight times the small diameter and the large sprocket is not flanged. See Engineering Section I-10, Use of Flanged Sprockets, on page 134.

Drive Selection Table

					Conto	Diete	aa l	ln a b a c							Sprocket Co	ombinations
					Cente	r Dista	ınce, ı	inches							DriveR	DriveN
5MR-625 P.L 24.606 125 teeth	5MR-650 P.L 25.590 130 teeth	5MR-700 P.L 27.559 140 teeth	5MR-750 P.L 29.528 150 teeth	5MR-800 P.L 31.496 160 teeth	5MR-850 P.L 33.465 170 teeth	5MR-900 P.L 35.433 180 teeth	5MR-1000 P.L 39.370 200 teeth	5MR-1150 P.L 45.276 230 teeth	5MR-1300 P.L 51.181 260 teeth	5MR-1450 P.L 57.087 290 teeth	5MR-1600 P.L 62.992 320 teeth	5MR-1720 P.L 67.716 344 teeth	5MR-2100 P.L 82.677 420 teeth	Speed Ratio	No. of grooves	No. of grooves
7.79	8.28	9.28	10.28	11.27	12.26	13.25	15.23	18.20	21.16	24.12	27.07	29.44	36.93	3.238	21	68
7.52	8.02	9.02	10.02	11.01	12.00	12.99	14.98	17.95	20.91	23.87	26.82	29.19	36.68	3.273	22	72
	5.00	6.10	7.16	8.20	9.22	10.24	12.26	15.26	18.24	21.22	24.19	26.56	34.07	3.294	34	112
8.36	8.86	9.85	10.85	11.84	12.82	13.81	15.79	18.75	21.71	24.67	27.62	29.99	37.48	3.333	18	60
6.96	7.47	8.48	9.48	10.48	11.48	12.47	14.46	17.43	20.40	23.36	26.32	28.69	36.18	3.333	24	80
8.10	8.59	9.59	10.59	11.58	12.57	13.56	15.54	18.50	21.46	24.42	27.37	29.74	37.23	3.368	19	64
7.83	8.33	9.33	10.32	11.32	12.31	13.30	15.28	18.25	21.21	24.17	27.12	29.49	36.98	3.400	20	68
7.56	8.06	9.06	10.06	11.06	12.05	13.04	15.02	17.99	20.95	23.92	26.87	29.24	36.73	3.429	21	72
6.27	6.79	7.81	8.83	9.84	10.84	11.84	13.83	16.81	19.78	22.75	25.71	28.08	35.58	3.462	26	90
7.01	7.51	8.52	9.53	10.53	11.52	12.52	14.51	17.48	20.44	23.41	26.37	28.74	36.23	3.478	23	80
	5.08	6.18	7.24	8.28	9.30	10.32	12.34	15.35	18.33	21.31	24.28	26.66	34.16	3.500	32	112
8.14	8.64	9.64	10.63	11.63	12.61	13.60	15.58	18.55	21.51	24.47	27.42	29.79	37.28	3.556	18	64
7.87	8.37	9.37	10.37	11.36	12.35	13.34	15.33	18.29	21.25	24.21	27.17	29.54	37.03	3.579	19	68
7.60	8.10	9.11	10.11	11.10	12.09	13.09	15.07	18.04	21.00	23.96	26.92	29.29	36.78	3.600	20	72
6.31	6.83	7.86	8.87	9.88	10.88	11.88	13.88	16.86	19.83	22.80	25.76	28.13	35.62	3.600	25	90
7.05	7.56	8.57	9.57	10.57	11.57	12.56	14.55	17.53	20.49	23.45	26.41	28.78	36.27	3.636	22	80
	5.15	6.26	7.32	8.36	9.39	10.41	12.43	15.44	18.42	21.40	24.37	26.75	34.26	3.733	30	112
6.36	6.87	7.90	8.91	9.92	10.92	11.93	13.92	16.90	19.87	22.84	25.80	28.17	35.67	3.750	24	90
7.92	8.42	9.42	10.41	11.41	12.40	13.39	15.37	18.34	21.30	24.26	27.22	29.59	37.07	3.778	18	68
7.65	8.15	9.15	10.15	11.15	12.14	13.13	15.12	18.09	21.05	24.01	26.97	29.33	36.82	3.789	19	72
7.09	7.60	8.61	9.62	10.62	11.61	12.61	14.60	17.57	20.54	23.50	26.46	28.83	36.32	3.810	21	80
6.40	6.91	7.94	8.96	9.97	10.97	11.97	13.97	16.95	19.92	22.89	25.85	28.22	35.72	3.913	23	90
7.69	8.19	9.20	10.20	11.19	12.18	13.18	15.16	18.13	21.09	24.06	27.01	29.38	36.87	4.000	18	72
7.13	7.64	8.65	9.66	10.66	11.66	12.65	14.64	17.62	20.58	23.55	26.51	28.88	36.37	4.000	20	80
4.65	5.23	6.34	7.40	8.45	9.47	10.49	12.52	15.53	18.51	21.49	24.46	26.84	34.35	4.000	28	112
6.44	6.95	7.98	9.00	10.01	11.01	12.01	14.01	16.99	19.96	22.93	25.90	28.27	35.76	4.091	22	90
7.18	7.68	8.70	9.70	10.71	11.70	12.70	14.69	17.66	20.63	23.59	26.55	28.92	36.42	4.211	19	80
6.48	7.00	8.02	9.04	10.05	11.06	12.06	14.06	17.04	20.01	22.98	25.94	28.32	35.81	4.286	21	90
4.72	5.30	6.41	7.48	8.53	9.56	10.58	12.60	15.62	18.60	21.59	24.56	26.93	34.44	4.308	26	112
7.22	7.73	8.74	9.75	10.75	11.75	12.74	14.73	17.71	20.68	23.64	26.60	28.97	36.47	4.444	18	80
4.76	5.34	6.45	7.52	8.57	9.60	10.62	12.65	15.66	18.65	21.63	24.60	26.98	34.49	4.480	25	112
6.52	7.04	8.07	9.09	10.10	11.10	12.10	14.10	17.09	20.06	23.03	25.99	28.36	35.86	4.500	20	90
4.79	5.38	6.49	7.56	8.61	9.64	10.66	12.69	15.70	18.69	21.68	24.65	27.03	34.54	4.667	24	112
6.56	7.08	8.11	9.13	10.14	11.14	12.15	14.15	17.13	20.10	23.07	26.04	28.41	35.91	4.737	19	90
4.83	5.42	6.53	7.60	8.65	9.68	10.71	12.73	15.75	18.74	21.72	24.69	27.07	34.58	4.870	23	112
6.60	7.12	8.15	9.17	10.18	11.19	12.19	14.19	17.18	20.15	23.12	26.08	28.46	35.95	5.000	18	90
4.87	5.45	6.57	7.64	8.69	9.72	10.75	12.78	15.79	18.78	21.77	24.74	27.12	34.63	5.091	22	112
4.90	5.49	6.61	7.68	8.73	9.77	10.79	12.82	15.84	18.83	21.81	24.79	27.16	34.68	5.333	21	112
4.94	5.53	6.65	7.72	8.78	9.81	10.83	12.86	15.88	18.87	21.86	24.83	27.21	34.72	5.600	20	112
4.98	5.57	6.69	7.76	8.82	9.85	10.88	12.91	15.93	18.92	21.90	24.88	27.26	34.77	5.895	19 18	112
5.01	5.60	6.73	7.80	8.86	9.89	10.92	12.95	15.97	18.96	21.95	24.92	27.30	34.82	6.222	Ιδ	112
0.97	0.98	1.00	1.01	1.03	1.05	1.06	1.09	1.13	1.16	1.19	1.22	1.24	1.29			

^{*}This length factor must be used to determine the proper belt width.

Teeth in Mesh Factor: 1.0 0.8 0.6

Center Distance is greater than eight times the small diameter and the large sprocket is not flanged. See Engineering Section I-10, Use of Flanged Sprockets, on page 134.

D-1	Sprocket Co								(Cent	er Di	stand	ce, In	ches	•				
Dri	veR	Driv	veN		∟ ∞	⊢ 8	L /	L 2								F 20	L.o	⊬ 4	⊢ 6
No. of Grooves	Pitch Diameter (Inches)	No. of Grooves	Pitch Diameter (Inches)	Speed Ratio	384-8MGT P.L 15.118 48 teeth	480-8MGT P.L 18.898 60 teeth	560-8MGT P.L 22.047 70 teeth	600-8MGT P.L 23.622 75 teeth	640-8MGT P.L 25.197 80 teeth	720-8MGT P.L 28.346 90 teeth	800-8MGT P.L 31.496 100 teeth	840-8MGT P.L 33.071 105 teeth	880-8MGT P.L 34.646 110 teeth	920-8MGT P.L 36.220 115 teeth	960-8MGT P.L 37.795 120 teeth	1040-8MGT P.L 40.945 130 teeth	1064-8MGT P.L 41.890 133 teeth	1120-8MGT P.L 44.094 140 teeth	1160-8MGT P.L 45.669 145 teeth
22	2.206	22	2.206	1.000	4.09	5.98	7.56	8.34	9.13	10.71	12.28	13.07	13.86	14.64	15.43	17.00	17.48	18.58	19.37
24 26	2.406 2.607	24 26	2.406 2.607	1.000 1.000	3.78 3.46	5.67 5.35	7.25 6.93	8.03 7.71	8.82 8.50	10.40	11.97 11.65	12.76 12.44	13.55 13.23	14.33 14.01	15.12 14.80	16.69 16.37	17.17 16.85	18.27 17.95	19.06 18.74
28	2.807	28	2.807	1.000	0.40	5.04	6.62	7.40	8.19	9.77	11.34	12.13	12.92	13.70	14.49	16.06	16.54	17.64	18.43
30	3.008	30	3.008	1.000		4.73	6.30	7.09	7.88	9.45	11.03	11.81	12.60	13.39	14.18	15.75	16.22	17.32	18.11
32	3.208	32	3.208	1.000		4.41	5.99	6.77	7.56	9.14	10.71	11.50	12.29	13.07	13.86	15.43	15.91	17.01	17.80
34	3.409	34 36	3.409	1.000 1.000		4.10	5.67	6.46	7.25	8.82	10.40	11.18	11.97	12.76	13.55	15.12	15.59	16.69	17.48
36 38	3.609 3.810	38	3.609 3.810	1.000			5.36 5.04	5.83	6.93	8.51 8.19	10.08 9.77	10.87 10.55	11.66 11.34	12.44 12.13	13.23 12.92	14.80	15.28 14.96	16.38 16.06	17.17 16.85
40	4.010	40	4.010	1.000			4.73	5.51	6.30	7.88	9.45	10.24	11.03	11.81	12.60	14.17	14.65	15.75	16.54
44	4.411	44	4.411	1.000					5.67	7.25	8.82	9.61	10.40	11.18	11.97	13.54	14.02	15.12	15.91
48	4.812	48	4.812	1.000						6.62	8.19	8.98	9.77	10.55	11.34	12.91	13.39	14.49	15.28
56	5.614	56	5.614	1.000							6.93	7.72	8.51	9.29	10.08	11.65	12.13	13.23	14.02
64 72	6.416 7.218	64 72	6.416 7.218	1.000 1.000									7.25	8.03	8.82	10.39	10.87 9.61	11.97 10.71	12.76 11.50
80	8.020	80	8.020	1.000												3.10	3.01	9.45	10.24
38	3.810	40	4.010	1.053			4.88	5.67	6.46	8.03	9.61	10.39	11.18	11.97	12.76	14.33	14.80	15.90	16.69
36	3.609	38	3.810	1.056			5.20	5.98	6.77	8.35	9.92	10.71	11.50	12.28	13.07	14.64	15.12	16.22	17.01
34	3.409	36	3.609	1.059		4.05	5.51	6.30	7.09	8.66	10.24	11.02	11.81	12.60	13.39	14.96	15.43	16.53	17.32
32 30	3.208 3.008	34 32	3.409 3.208	1.063		4.25 4.57	5.83 6.14	6.61	7.40	8.98 9.29	10.55 10.87	11.34 11.65	12.13 12.44	12.91 13.23	13.70	15.27 15.59	15.75 16.06	16.85 17.16	17.64 17.95
28	2.807	30	3.208	1.067 1.071		4.88	6.46	7.24	8.03	9.61	11.18	11.03	12.76	13.54	14.02	15.99	16.38	17.10	18.27
26	2.607	28	2.807	1.077	3.31	5.20	6.77	7.56	8.35	9.92	11.50	12.28	13.07	13.86	14.65	16.22	16.69	17.79	18.58
24	2.406	26	2.607	1.083	3.62	5.51	7.09	7.87	8.66	10.24	11.81	12.60	13.39	14.17	14.96	16.53	17.01	18.11	18.90
22	2.206	24	2.406	1.091	3.94	5.83	7.40	8.19	8.98	10.55	12.13	12.91	13.70	14.49	15.28	16.85	17.32	18.42	19.21
44	4.411	48	4.812	1.091					5.35	6.93	8.50	9.29	10.08	10.86	11.65	13.22	13.70	14.80	15.59
40	4.010	44	4.411	1.100			E 0.4	5.19	5.98	7.56	9.13	9.92	10.71	11.49	12.28	13.85	14.33	15.43	16.22
36 72	3.609 7.218	40 80	4.010 8.020	1.111			5.04	5.82	6.61	8.19	9.76	10.55	11.34	12.12	12.91	14.48 8.49	14.96 8.97	16.06 10.07	16.85 10.86
34	3.409	38	3.810	1.118			5.35	6.14	6.93	8.50	10.08	10.86	11.65	12.44	13.23	14.80	15.27	16.37	17.16
32	3.208	36	3.609	1.125		4.09	5.67	6.45	7.24	8.82	10.39	11.18	11.97	12.75	13.54	15.11	15.59	16.69	17.48
64	6.416	72	7.218	1.125										7.39	8.18	9.75	10.23	11.33	12.12
80	8.020	90	9.023	1.125							40.74		40.00	40.07	40.00	45.40	45.00	47.00	9.44
30 28	3.008 2.807	34 32	3.409 3.208	1.133 1.143		4.41 4.72	5.98 6.30	6.77 7.08	7.56	9.13	10.71 11.02	11.49 11.81	12.28 12.60	13.07 13.38	13.86 14.17	15.43	15.90 16.22	17.00 17.32	17.79 18.11
56	5.614	64	6.416	1.143		4.72	0.30	7.00	1.01	9.45	11.02	7.08	7.87	8.65	9.44	11.01	11.49	12.59	13.38
26	2.607	30	3.008	1.154		5.04	6.61	7.40	8.19	9.76	11.34	12.12	12.91	13.70	14.49	16.06	16.53	17.63	18.42
38	3.810	44	4.411	1.158				5.34	6.14	7.71	9.29	10.07	10.86	11.65	12.44	14.01	14.49	15.59	16.38
24	2.406	28	2.807	1.167	3.46	5.35	6.93	7.71	8.50	10.08	11.65	12.44	13.23	14.01	14.80	16.37	16.85	17.95	18.74
48	4.812	56	5.614	1.167			F 10	F 00	0.77	5.97	7.55	8.34	9.13	9.91	10.70	12.27	12.75	13.85	14.64
34 22	3.409 2.206	40 26	4.010 2.607	1.176 1.182	3.77	5.67	5.19 7.24	5.98 8.03	6.77 8.82	8.34	9.92 11.97	10.70 12.75	11.49 13.54	12.28 14.33	13.07 15.12	14.64 16.69	15.12 17.16	16.22 18.26	17.01 19.05
32	3.208	38	3.810	1.188	0.77	3.01	5.50	6.29	7.08	8.66	10.23	11.02	11.81	12.59	13.38	14.96	15.43	16.53	17.32
30	3.008	36	3.609	1.200		4.24	5.82	6.61	7.40	8.97	10.55	11.33	12.12	12.91	13.70	15.27	15.75	16.85	17.64
40	4.010	48	4.812	1.200					5.66	7.24	8.81	9.60	10.39	11.17	11.96	13.54	14.01	15.11	15.90
28	2.807	34	3.409	1.214		4.56	6.14	6.92	7.71	9.29	10.86	11.65	12.44	13.22	14.01	15.59	16.06	17.16	17.95
36 26	3.609 2.607	44 32	4.411 3.208	1.222 1.231		4.87	4.71 6.45	5.50 7.24	6.29 8.03	7.87 9.60	9.44 11.18	10.23 11.96		11.80 13.54	12.59 14.33	14.17 15.90	14.64 16.38	15.74 17.48	16.53 18.27
24	2.406	30	3.208	1.250	3.29	5.19	6.77	7.55	8.34	9.00	11.49	12.28	13.07	13.85		16.22	16.69	17.46	18.58
32	3.208	40	4.010	1.250	0.23	5.15	5.34	6.13	6.92	8.50	10.07	10.86	11.65			14.80	15.27	16.37	17.16
64	6.416	80	8.020	1.250												9.10	9.57	10.68	11.47
72	7.218	90	9.023	1.250										4				9.25	10.04
38	3.810	48	4.812	1.263		4.00	E 00	5.01	5.81	7.39	8.96	9.75	10.54	11.33	12.12	13.69	14.16	15.27	16.06
30 22	3.008 2.206	38 28	3.810 2.807	1.267 1.273	3.61	4.08 5.50	5.66 7.08	6.44 7.87	7.23 8.66	8.81 10.23	10.39 11.81	11.17 12.59	11.96 13.38	12.75 14.17		15.11 16.53	15.58 17.01	16.69 18.11	17.48 18.90
44	4.411	20 56	5.614	1.273	3.01	5.50	1.00	1.07	0.00	6.27	7.85	8.64	9.43	10.22	11.01	12.58	13.06	14.16	14.95
28	2.807	36	3.609	1.286		4.39	5.97	6.76	7.55	9.13	10.70	11.49	12.28	13.06	13.86	15.43	15.90	17.00	17.79
56	5.614	72	7.218	1.286									7.20	7.99	8.79	10.36	10.84	11.94	12.73
34	3.409	44	4.411	1.294			4.86	5.65	6.44	8.02	9.60		11.17	11.96		14.32	14.79	15.90	16.69
26	2.607	34	3.409	1.308		4.71	6.29	7.07	7.86	9.44	11.02	11.80	12.59	13.38	14.17	15.74	16.22	17.32	18.11
24	2.406	32	3.208	1.333		5.02	6.60	7.39	8.18	9.76	11.33	12.12	12.91	13.69		16.06	16.53	17.63	18.42
30 36	3.008 3.609	40 48	4.010 4.812	1.333 1.333			5.49	6.28 5.16	7.07 5.96	8.65 7.54	10.23 9.12	11.01 9.90	11.80 10.69	12.59	13.38 12.27	14.95 13.84	15.42 14.32	16.53 15.42	17.32 16.21
48		64	6.416	1.333				0.10	0.50	1.54	6.88	7.67	8.47	9.26	10.05	11.62	12.10	13.42	13.99
		ngth Facto			0.70	0.80	0.80	0.80	090	090	090	090	090	1.00	1.00	1.00	1.00	1.00	1.00
					0.70	3.50	0.00	0.00	, 550	, 550	550	000		1.00	1.00	1.00	1.00	1.00	1.0

^{*}This length factor must be used to determine the proper belt width.

Center Distance is greater than eight times the small diameter and the large sprocket is not flanged. See Engineering Section I-10, Use of Flanged Sprockets, on page 134.



8MGT 7.244 seth							nter													
	1224-8MGT P.L 48.189 153 teeth		1440-8MGT P.L 56.693 180 teeth	1512-8MGT P.L 59.528 189 teeth	1584-8MGT P.L 62.362 198 teeth	1600-8MGT P.L 62.992 200 teeth	1760-8MGT P.L 69.291 220 teeth	1800-8MGT P.L 70.866 225 teeth	2000-8MGT P.L 78.740 250 teeth	2200-8MGT P.L 86.614 275 teeth	2400-8MGT P.L 94.488 300 teeth	2600-8MGT P.L 102.362 325 teeth	2800-8MGT P.L 110.236 350 teeth	3048-8MGT P.L 120.000 381 teeth	3280-8MGT P.L 129.134 410 teeth	3600-8MGT P.L 141.732 450 teeth	4400-8MGT P.L 173.228 550 teeth	Speed Ratio	No. of Grooves	No. of Grooves
20.15 19.84	20.63	21.73	24.88 24.57	26.30 25.99	27.71 27.40	28.03 27.72	31.18 30.87	31.97 31.66	35.90 35.59	39.84 39.53	43.78 43.47	47.71 47.40	51.65 51.34	56.53 56.22	61.10 60.79	67.40 67.09	83.15 82.84	1.000	22 24	22 24
19.52	20.00	21.10	24.25	25.67	27.08	27.40	30.55	31.34	35.27	39.21	43.15	47.08	51.02	55.90	60.47	66.77	82.52	1.000	26	26
19.21	19.69	20.79	23.94	25.36	26.77	27.09	30.24	31.03	34.96	38.90	42.84	46.77	50.71	55.59	60.16	66.46	82.21	1.000	28	28
18.90 18.58	19.37 19.06	20.47	23.62 23.31	25.04 24.73	26.46 26.14	26.77 26.46	29.92 29.61	30.71 30.40	34.65 34.33	38.58 38.27	42.52 42.21	46.46 46.14	50.40 50.08	55.28 54.96	59.84 59.53	66.14 65.83	81.89 81.58	1.000	30 32	30 32
18.27	18.74	19.84	22.99	24.41	25.83	26.14	29.29	30.08	34.02	37.95	41.89	45.83	49.77	54.65	59.21	65.51	81.26	1.000	34	34
17.95 17.64	18.43 18.11	19.53 19.21	22.68	24.10 23.78	25.51 25.20	25.83 25.51	28.98	29.77 29.45	33.70 33.39	37.64 37.32	41.58 41.26	45.51 45.20	49.45 49.14	54.33 54.02	58.90 58.58	65.20 64.88	80.95 80.63	1.000	36 38	36 38
17.04	17.80	18.90	22.05	23.47	24.88	25.20	28.35	29.43	33.07	37.01	40.95	44.88	48.82	53.70	58.27	64.57	80.32	1.000	40	40
16.69	17.17	18.27	21.42	22.84	24.25	24.57	27.72	28.51	32.44	36.38	40.32	44.25	48.19	53.07	57.64	63.94	79.69	1.000	44	44
16.06 14.80	16.54 15.28	17.64 16.38	20.79 19.53	22.21	23.62 22.36	23.94	27.09 25.83	27.88	31.81	35.75 34.49	39.69 38.43	43.62 42.36	47.56 46.30	52.44 51.18	57.01 55.75	63.31 62.05	79.06 77.80	1.000	48 56	48 56
13.54	14.02	15.12	18.27	19.69	21.10	21.42	24.57	25.36	29.29	33.23	37.17	41.10	45.04	49.92	54.49	60.79	76.54	1.000	64	64
12.28	12.76	13.86	17.01	18.43	19.84	20.16	23.31	24.10	28.03	31.97	35.91	39.84	43.78	48.66	53.23	59.53	75.28	1.000	72	72
11.02 17.48	11.50 17.95	12.60 19.05	15.75 22.20	17.17 23.62	18.58 25.04	18.90 25.35	22.05 28.50	22.84 29.29	26.77 33.23	30.71 37.16	34.65 41.10	38.58 45.04	42.52 48.98	47.40 53.86	51.97 58.42	58.27 64.72	74.02 80.47	1.000	80 38	80 40
17.79	18.27	19.37	22.52	23.94	25.35	25.67	28.82	29.61	33.54	37.48	41.42	45.35	49.29	54.17	58.74	65.04	80.79	1.056	36	38
18.11	18.58	19.68	22.83	24.25	25.67	25.98	29.13	29.92	33.86	37.79	41.73	45.67	49.61	54.49	59.05	65.35	81.10	1.059	34	36
18.42 18.74	18.90 19.21	20.00	23.15	24.57 24.88	25.98 26.30	26.30	29.45 29.76	30.24	34.17 34.49	38.11	42.05 42.36	45.98 46.30	49.92 50.24	54.80 55.12	59.37 59.68	65.67 65.98	81.42 81.73	1.063	32 30	34 32
19.05	19.53	20.63	23.78	25.20	26.61	26.93	30.08	30.87	34.80	38.74	42.68	46.61	50.55	55.43	60.00	66.30	82.05	1.071	28	30
19.37	19.84	20.94	24.09	25.51	26.93	27.24	30.39	31.18	35.12	39.05	42.99	46.93	50.87	55.75	60.31	66.61	82.36	1.077	26	28
19.68	20.16	21.26 21.57	24.41 24.72	25.83 26.14	27.24 27.56	27.56 27.87	30.71	31.50	35.43 35.75	39.37 39.68	43.31 43.62	47.24 47.56	51.18 51.50	56.06 56.38	60.63	66.93 67.24	82.68 82.99	1.083	24	26 24
16.38	16.85	17.95	21.10	22.52	23.94	24.25	27.40	28.19	32.13	36.06	40.00	43.94	47.88	52.76	57.32	63.62	79.37	1.091	44	48
17.00	17.48	18.58	21.73	23.15	24.57	24.88	28.03	28.82	32.76	36.69	40.63	44.57	48.51	53.39	57.95	64.25	80.00	1.100	40	44
17.63 11.65	18.11 12.12	19.21 13.22	22.36 16.37	23.78 17.79	25.20 19.21	25.51 19.52	28.66 22.67	29.45 23.46	33.39 27.40	37.32 31.33	41.26 35.27	45.20 39.21	49.14 43.15	54.02 48.03	58.58 52.60	64.88 58.90	80.63 74.65	1.111 1.111	36 72	40 80
17.95	18.42	19.52	22.67	24.09	25.51	25.82	28.97	29.76	33.70	37.63	41.57	45.51	49.45	54.33	58.89	65.19	80.94	1.118	34	38
18.26	18.74	19.84	22.99	24.41	25.83	26.14	29.29	30.08	34.02	37.95	41.89	45.83	49.77	54.65	59.21	65.51	81.26	1.125	32	36
12.91 10.22	13.38	14.48	17.63 14.95	19.05 16.37	20.47 17.79	20.78 18.10	23.93	24.72	28.66 25.98	32.59 29.92	36.53 33.86	40.47 37.79	44.41	49.29 46.61	53.86 51.18	60.16 57.48	75.91 73.23	1.125	64 80	72 90
18.58	19.05	20.15	23.30	24.72	26.14	26.45	29.60	30.39	34.33	38.26	42.20	46.14	50.08	54.96	59.52	65.82	81.57	1.133	30	34
18.89	19.37	20.47	23.62	25.04	26.46	26.77	29.92	30.71	34.65	38.58	42.52	46.46	50.40	55.28	59.84	66.14	81.89	1.143	28	32
14.17 19.21	14.64 19.68	15.74 20.78	18.89 23.93	20.31	21.73 26.77	22.04 27.08	25.19 30.23	25.98 31.02	29.92 34.96	33.85	37.79 42.83	41.73 46.77	45.67 50.71	50.55 55.59	55.12 60.15	61.42 66.45	77.17 82.20	1.143	56 26	64 30
17.16	17.64	18.74	21.89	23.31	24.72	25.04	28.19	28.98	32.91	36.85	40.79	44.72	48.66	53.54	58.11	64.41	80.16	1.158	38	44
19.52	20.00	21.10	24.25	25.67	27.08	27.40	30.55	31.34	35.28	39.21	43.15	47.09	51.03	55.91	60.47	66.77	82.52	1.167	24	28
15.43 17.79	15.90 18.27	17.00 19.37	20.15	21.57 23.94	22.99 25.35	23.30 25.67	26.45 28.82	27.24 29.61	31.18 33.54	35.11 37.48	39.05 41.42	42.99 45.35	46.93 49.29	51.81 54.17	56.38 58.74	62.68 65.04	78.43 80.79	1.167 1.176	48 34	56 40
19.84	20.31	21.41	24.56	25.98	27.40	27.71	30.86	31.65	35.59	39.52	43.46	47.40	51.34	56.22	60.78	67.08	82.83	1.182	22	26
18.11	18.58	19.68	22.83	24.25	25.67	25.98	29.13	29.92	33.86	37.79	41.73	45.67	49.61	54.49	59.05	65.35	81.10	1.188	32	38
18.42	18.90 17.16	20.00 18.26	23.15	24.57 22.83	25.98 24.25	26.30 24.56	29.45 27.71	30.24 28.50	34.17 32.44	38.11	42.05 40.31	45.98 44.25	49.92 48.19	54.80 53.07	59.37 57.63	65.67 63.93	81.42 79.69	1.200	30 40	36 48
18.74	19.21	20.31	23.46	24.88	26.30	26.61	29.76	30.55	34.49	38.42	42.36	46.30	50.24	55.12	59.68	65.98	81.73	1.214	28	34
17.32	17.79	18.89	22.04	23.46	24.88	25.19	28.34	29.13		37.00	40.94	44.88	48.82	53.70	58.26	64.56	80.32	1.222	36 36	44
19.05 19.37	19.53 19.84	20.63	23.78 24.09	25.20 25.51	26.61 26.93	26.93 27.24	30.08	30.87	34.80 35.12	38.74 39.05	42.68 42.99	46.61 46.93	50.55 50.87	55.43 55.75	60.00	66.30 66.61	82.05 82.36	1.231	26 24	32 30
17.95	18.42	19.52	22.67	24.09	25.51	25.82	28.97	29.76	33.70	37.63	41.57	45.51	49.45	54.33	58.89	65.19	80.95	1.250	32	40
12.26 10.83	12.73 11.30	13.83	16.99 15.56	18.41 16.99	19.83	20.14 18.72	23.29 21.87	24.08 22.66	28.02 26.60	31.96 30.54	35.90 34.48	39.83 38.41	43.77 42.35	48.66 47.24	53.22 51.80	59.52	75.27 73.85	1.250 1.250	64 72	80 90
16.84	17.32	12.41 18.42	21.57	22.99	18.40 24.40	24.72	27.87	28.66	32.59	36.53	40.47	44.41	48.35	53.23	57.79	58.10 64.09	79.84	1.263	38	48
18.26	18.74	19.84	22.99	24.41	25.82	26.14	29.29	30.08	34.01	37.95	41.89	45.82	49.76	54.64	59.21	65.51	81.26	1.267	30	38
19.68	20.16	21.26	24.41 20.46	25.83	27.24 23.30	27.56	30.71	31.50	35.43	39.37	43.31 39.37	47.24 43.30	51.18 47.24	56.06 52.12	60.63	66.93 62.99	82.68 78.74	1.273 1.273	22 44	28 56
15.73 18.58	16.21 19.05	17.31 20.15	23.30	21.88	26.14	23.61	26.76 29.60	27.55 30.39	31.49	35.43 38.26	42.20	46.14	50.08	54.96	56.69 59.52	65.82	81.57	1.273	28	56 36
13.52	13.99	15.10	18.25	19.67	21.09	21.40	24.55	25.34	29.28	33.22	37.16	41.09	45.03	49.92	54.48	60.78	76.53	1.286	56	72
17.47	17.95	19.05	22.20	23.62	25.03	25.35	28.50	29.29	33.22	37.16	41.10	45.04 46.45	48.98	53.86	58.42	64.72	80.47	1.294	34	44
18.89 19.21	19.37 19.68	20.47	23.62 23.93	25.04 25.35	26.45 26.77	26.77 27.08	29.92 30.23	30.71	34.64 34.96	38.58 38.89	42.52 42.83	46.45 46.77	50.39	55.27 55.59	59.84 60.15	66.14 66.45	81.89 82.20	1.308	26 24	34 32
18.10	18.58	19.68	22.83	24.25	25.66	25.98	29.13	29.92	33.85	37.79	41.73	45.67	49.61	54.49	59.05	65.35	81.10	1.333	30	40
17.00 14.78	17.47	18.57	21.72	23.14	24.56	24.87	28.02	28.81	32.75	36.69	40.63	44.56	48.50	53.38	57.95	64.25	80.00	1.333	36	48
	15.26	16.36	19.51	20.93	22.35	22.66	25.81 1.10	1.20	30.54 1.20	34.48 1.20	38.42 1.20	42.35 1.20	46.29 1.20	51.18 1.20	55.74 1.20	62.04 1.20	77.79 1.20	1.333	48	64

^{*}This length factor must be used to determine the proper belt width.

Center Distance is greater than eight times the small diameter and the large sprocket is not flanged. See Engineering Section I-10, Use of Flanged Sprockets, on page 134.



			werc	апр	<u> </u>		Cito				1100	. 50	icci	1011	Tab	10			
Driv	Sprocket Co veR	ombinations Driv	/eN						(Cent	er Di	stand	ce, In	ches	;				
No. of Grooves	Pitch Diameter (Inches)	No. of Grooves	Pitch Diameter (Inches)	Speed Ratio	384-8MGT P.L 15.118 48 teeth	480-8MGT P.L 18.898 60 teeth	560-8MGT P.L 22.047 70 teeth	600-8MGT P.L 23.622 75 teeth	640-8MGT P.L 25.197 80 teeth	720-8MGT P.L 28.346 90 teeth	800-8MGT P.L 31.496 100 teeth	840-8MGT P.L 33.071 105 teeth	880-8MGT P.L 34.646 110 teeth	920-8MGT P.L 36.220 115 teeth	960-8MGT P.L 37.795 120 teeth	1040-8MGT P.L 40.945 130 teeth	1064-8MGT P.L 41.890 133 teeth	1120-8MGT P.L 44.094 140 teeth	1160-8MGT P.L 45.669 145 teeth
28	2.807	38	3.810	1.357		4.22	5.81	6.59	7.39	8.96	10.54	11.33	12.12	12.90	13.69	15.26	15.74	16.84	17.63
22 32	2.206 3.208	30 44	3.008 4.411	1.364 1.375	3.44	5.34	6.92 5.00	7.70 5.79	8.50 6.59	10.07 8.17	11.65 9.75	12.43 10.53	13.22 11.33	14.01 12.11	14.80 12.90	16.37 14.47	16.85	17.95	18.74 16.84
26	2.607	36	3.609	1.385		4.54	6.12	6.91	7.70	9.28	10.86	11.64	12.43	13.22	14.01	15.58	16.06	17.16	17.95
40	4.010	56	5.614	1.400						6.57	8.15	8.94	9.73	10.52	11.31	12.89	13.36	14.46	15.26
80	8.020	112	11.229	1.400												0.04	0.70	0.00	10.00
64 34	6.416 3.409	90 48	9.023 4.812	1.406 1.412				5.31	6.10	7.69	9.27	10.05	10.85	11.63	12.42	8.24 14.00	8.72 14.47	9.83	10.63 16.36
24	2.406	34	3.409	1.417		4.86	6.44	7.23	8.02	9.59	11.17	11.96	12.75	13.53	14.32	15.89	16.37	17.47	18.26
28	2.807	40	4.010	1.429		4.05	5.64	6.43	7.22	8.80	10.38	11.16	11.96	12.74	13.53	15.10	15.58	16.68	17.47
56 22	5.614 2.206	80 32	8.020 3.208	1.429 1.455	3.27	5.17	6.75	7.54	8.33	9.91	11.49	12.27	13.06	13.85	8.10 14.64	9.69 16.21	10.17	11.27	12.07 18.58
44	4.411	64	6.416	1.455	3.21	3.17	0.73	7.54	0.33	3.31	7.18	7.97	8.76	9.55	10.35	11.92	12.40	13.50	14.30
26	2.607	38	3.810	1.462		4.37	5.95	6.74	7.54	9.12	10.69	11.48	12.27	13.06	13.85	15.42	15.89	16.99	17.78
30	3.008	44	4.411	1.467			5.15	5.94	6.74	8.32	9.90	10.69	11.48	12.26	13.05	14.63	15.10	16.20	16.99
38 24	3.810 2.406	56 36	5.614 3.609	1.474 1.500		4.69	6.27	7.06	7.85	6.71 9.43	8.30 11.01	9.09	9.88 12.59	10.67 13.37	11.46 14.16	13.04 15.73	13.51 16.21	14.62 17.31	15.41 18.10
32	3.208	48	4.812	1.500			4.66	5.45	6.25	7.84	9.42	10.20	11.00	11.78	12.58	14.15	14.62	15.73	16.52
48	4.812	72	7.218	1.500								6.98	7.78	8.58	9.37	10.96	11.43	12.54	13.33
26 22	2.607 2.206	40 34	4.010 3.409	1.538 1.545		4.19 5.00	5.79 6.59	6.58 7.38	7.37 8.17	8.95 9.75	10.53 11.32	11.32 12.11	12.11 12.90	12.89 13.69	13.69 14.48	15.26 16.05	15.73 16.52	16.83 17.62	17.62 18.42
36	3.609	56	5.614	1.556		3.00	0.55	7.30	5.26	6.86	8.45	9.24	10.03	10.82	11.61	13.19	13.66	14.77	15.56
72	7.218	112	11.229	1.556															
28	2.807	44	4.411	1.571		4.54	5.30	6.09	6.88	8.47	10.05	10.84	11.63	12.42	13.21	14.78	15.25	16.36	17.15
24 30	2.406 3.008	38 48	3.810 4.812	1.583 1.600		4.51	6.10 4.80	6.89 5.60	7.69 6.39	9.27 7.98	10.85 9.57	11.63 10.35	12.42 11.15	13.21 11.93	14.00 12.73	15.57 14.30	16.05 14.78	17.15 15.88	17.94 16.67
40	4.010	64	6.416	1.600			4.00	0.00	0.00	5.86	7.46	8.26	9.06	9.85	10.64	12.22	12.70	13.80	14.60
56	5.614	90	9.023	1.607												8.81	9.29	10.41	11.21
22	2.206	36	3.609	1.636		4.83	6.42	7.21	8.00	9.58	11.16	11.95	12.74	13.52	14.32	15.89	16.36	17.46	18.25
44 34	4.411 3.409	72 56	7.218 5.614	1.636 1.647					5.40	7.00	6.46 8.59	7.27 9.38	8.07 10.18	8.87 10.97	9.66 11.76	11.25	11.73	12.83	13.63 15.71
24	2.406	40	4.010	1.667		4.34	5.93	6.72	7.52	9.10	10.68	11.47	12.26	13.05	13.84	15.41	15.89	16.99	17.78
48	4.812	80	8.020	1.667									7.06	7.87	8.67	10.27	10.75	11.86	12.65
38 26	3.810 2.607	64 44	6.416 4.411	1.684 1.692			5.44	6.23	7.03	6.00 8.62	7.61 10.20	8.40 10.99	9.20 11.78	9.99 12.57	10.79 13.36	12.37 14.93	12.85 15.41	13.95 16.51	14.75 17.30
28	2.807	48	4.812	1.714			4.94	5.74	6.54	8.13	9.71	10.50	11.30	12.08	12.88	14.45	14.93	16.03	16.82
22	2.206	38	3.810	1.727		4.66	6.25	7.04	7.83	9.42	11.00	11.78	12.57	13.36	14.15	15.72	16.20	17.30	18.09
32 64	3.208 6.416	56 112	5.614 11.229	1.750 1.750					5.54	7.14	8.74	9.53	10.33	11.12	11.91	13.49	13.96	15.07	15.86
36	3.609	64	6.416	1.778						6.14	7.75	8.55	9.35	10.14	10.94	12.52	13.00	14.10	14.90
40	4.010	72	7.218	1.800							6.74	7.55	8.35	9.15	9.95	11.54	12.02	13.13	13.92
80 22	8.020 2.206	144 40	14.437 4.010	1.800 1.818		4.48	6.08	6.87	7.66	9.25	10.83	11.62	12.41	13.20	13.99	15.56	16.04	17.14	17.93
44	4.411	80	8.020	1.818		1.10	0.00	0.07	7.00	0.20	10.00	11.02	7.34	8.15	8.95	10.55	11.03	12.15	12.95
24	2.406	44	4.411	1.833		3.97	5.58	6.38	7.18	8.76	10.35	11.14	11.93	12.72	13.51	15.08	15.56	16.66	17.45
26 30	2.607 3.008	48 56	4.812 5.614	1.846 1.867			5.08	5.88 4.86	6.68 5.68	8.27 7.29	9.86 8.88	10.65 9.68	11.44	12.23 11.26	13.03 12.06	14.60 13.64	15.08 14.11	16.18 15.22	
48	4.812	90	9.023	1.875				7.00	0.00	'.23	0.00	3.00	10.77	11.20	7.75	9.37	9.85	10.98	
34	3.409	64	6.416	1.882						6.28	7.89	8.69	9.49	10.28	11.08	12.66	13.14	14.25	15.04
38	3.810	72	7.218	1.895		410	E 70	6 50	7 20	0.04	6.88	7.68	8.49	9.29	10.09	11.68	12.16	13.27	14.07
22 24	2.206 2.406	44 48	4.411 4.812	2.000 2.000		4.10	5.72	6.52	7.32 6.82	8.91 8.42	10.50 10.01	11.28 10.80	12.08 11.59	12.87 12.38	13.66 13.18	15.23 14.75	15.71 15.23	16.81	17.60 17.12
28	2.807	56	5.614	2.000			J	5.00	5.82	7.43	9.03	9.82	10.62	11.41	12.21	13.78	14.26	15.37	16.16
32	3.208	64	6.416	2.000						6.41	8.03	8.83	9.63	10.43	11.23	12.81	13.29	14.40	15.19
36 40	3.609 4.010	72 80	7.218 8.020	2.000 2.000							7.01	7.82 6.79	8.63 7.61	9.43 8.42	10.24 9.23	11.83 10.84	12.31 11.32	13.42 12.43	14.22 13.23
56	5.614	112	11.229	2.000								0.18	1.01	0.42	5.23	10.04	11.02	12.43	9.17
72	7.218	144	14.437	2.000															
44	4.411	90	9.023	2.045									775	7.19	8.01	9.64	10.13		12.06
38	3.810 3.409	80 72	8.020 7.218	2.105 2.118					-		7.15	6.92 7.96	7.75 8.77	8.56 9.57	9.37	10.98	11.46 12.45	12.58 13.56	13.38 14.36
30	3.409	64	6.416	2.110						6.55	8.17	8.97	9.77	10.57	11.37	12.96	13.44	14.54	
26	2.607	56	5.614	2.154				5.13	5.95	7.57	9.17	9.96	10.76	11.56	12.35	13.93	14.41	15.52	16.31
22	2.206	48	4.812	2.182			5.35	6.16	6.97	8.56	10.15	10.95	11.74	12.53	13.32		15.38		
	Le	ngth Facto	r*		0.70	0.80	0.80	0.80	090	090	090	090	090	1.00	1.00	1.00	1.00	1.00	1.00

^{*}This length factor must be used to determine the proper belt width.

Center Distance is greater than eight times the small diameter and the large sprocket is not flanged. See Engineering Section I-10, Use of Flanged Sprockets, on page 134.



						Ce	nter	Dista	nce,	Inch	nes									ombinations
																			DriveR	DriveN
1200-8MGT P.L 47.244 150 teeth	1224-8MGT P.L 48.189 153 teeth	1280-8MGT P.L 50.394 160 teeth	1440-8MGT P.L 56.693 180 teeth	1512-8MGT P.L 59.528 189 teeth	1584-8MGT P.L 62.362 198 teeth	1600-8MGT P.L 62.992 200 teeth	1760-8MGT P.L 69.291 220 teeth	1800-8MGT P.L 70.866 225 teeth	2000-8MGT P.L 78.740 250 teeth	2200-8MGT P.L 86.614 275 teeth	2400-8MGT P.L 94.488 300 teeth	2600-8MGT P.L 102.362 325 teeth	2800-8MGT P.L 110.236 350 teeth	3048-8MGT P.L 120.000 381 teeth	3280-8MGT P.L 129.134 410 teeth	3600-8MGT P.L 141.732 450 teeth	4400-8MGT P.L 173.228 550 teeth	Speed Ratio	No. of Grooves	No. of Grooves
18.42	18.89	19.99	23.14	24.56	25.98	26.29	29.44	30.23	34.17	38.10	42.05	45.98	49.92	54.80	59.37	65.67	81.42	1.357	28	38
19.52	20.00	21.10	24.25 22.35	25.67 23.77	27.08	27.40	30.55	31.34	35.27 33.38	39.21 37.32	43.15	47.08	51.02	55.90	60.47	66.77	82.52	1.364	22 32	30
17.63 18.73	18.10 19.21	19.20 20.31	23.46	24.88	25.19 26.29	25.50 26.61	28.65 29.76	29.44 30.55	34.48	38.42	41.26 42.36	45.19 46.30	49.13 50.24	54.01 55.12	58.58 59.68	64.88 65.98	80.63 81.73	1.375 1.385	26	44 36
16.04	16.52	17.62	20.77	22.19	23.61	23.92	27.07	27.86	31.80	35.74	39.68	43.61	47.55	52.44	57.00	63.30	79.05	1.400	40	56
		9.95	13.13	14.56	15.98	16.30	19.46	20.25	24.20	28.14	32.09	36.03	39.97	44.85	49.42	55.72	71.48	1.400	80	112
11.42	11.90	13.00	16.17	17.59	19.01	19.33	22.48	23.27	27.21	31.15	35.10	39.03	42.97	47.86	52.42	58.72	74.48	1.406	64	90
17.15	17.62	18.73	21.88	23.30	24.71	25.03	28.18	28.97	32.91	36.84	40.78	44.72	48.66	53.54	58.10	64.40	80.16	1.412	34	48
19.05	19.52	20.62	23.77	25.19	26.61	26.92	30.07	30.86	34.80	38.73	42.67	46.61	50.55	55.43	60.00	66.30	82.05	1.417	24	34
18.26	18.73	19.83 14.44	22.98 17.60	24.40 19.02	25.82 20.44	26.13 20.75	29.28 23.91	30.07	34.01 28.64	37.95 32.57	41.89 36.52	45.82 40.45	49.76 44.40	54.64	59.21 53.84	65.51 60.14	81.26	1.429 1.429	28 56	40 80
12.86 19.36	13.33 19.84	20.94	24.09	25.51	26.92	27.24	30.39	24.70 31.18	35.11	39.05	42.99	46.93	50.87	49.28 55.75	60.31	66.61	75.90 82.36	1.429	22	32
15.08	15.56	16.66	19.82	21.24	22.65	22.97	26.12	26.91	30.85	34.79	38.73	42.66	46.61	51.49	56.05	62.35	78.11	1.455	44	64
18.57	19.05	20.15	23.30	24.72	26.13	26.45	29.60	30.39	34.32	38.26	42.20	46.14	50.08	54.96	59.52	65.82	81.57	1.462	26	38
17.78	18.25	19.36	22.51	23.93	25.34	25.66	28.81	29.60	33.54	37.47	41.41	45.35	49.29	54.17	58.73	65.03	80.79	1.467	30	44
16.19	16.67	17.77	20.92	22.35	23.76	24.08	27.23	28.02	31.96	35.89	39.83	43.77	47.71	52.59	57.16	63.46	79.21	1.474	38	56
18.89	19.36	20.46	23.61	25.03	26.45	26.76	29.91	30.70	34.64	38.58	42.52	46.45	50.39	55.27	59.84	66.14	81.89	1.500	24	36
17.30	17.78	18.88	22.03	23.45	24.87	25.18	28.33	29.13	33.06	37.00	40.94	44.87	48.81	53.70	58.26	64.56	80.31	1.500	32	48
14.12	14.60	15.70	18.86	20.28	21.70	22.01	25.17	25.96	29.90	33.84	37.78	41.71	45.66	50.54	55.10	61.40	77.16	1.500	48	72
18.41 19.20	18.88 19.68	19.99 20.78	23.14	24.56 25.35	25.97 26.76	26.29 27.08	29.44 30.23	30.23	34.17 34.95	38.10 38.89	42.04 42.83	45.98 46.77	49.92 50.71	54.80 55.59	59.36 60.15	65.66 66.45	81.41 82.20	1.538	26 22	40 34
16.35	16.82	17.92	21.08	22.50	23.92	24.23	27.38	28.17	32.11	36.05	39.99	43.92	47.87	52.75	57.31	63.61	79.36	1.556	36	56
10.00	10.02	10.51	13.71	15.14	16.57	16.89	20.06	20.85	24.80	28.75	32.70	36.64	40.58	45.47	50.04	56.34	72.10	1.556	72	112
17.93	18.41	19.51	22.66	24.08	25.50	25.81	28.96	29.76	33.69	37.63	41.57	45.50	49.44	54.33	58.89	65.19	80.94	1.571	28	44
18.72	19.20	20.30	23.45	24.87	26.29	26.60	29.75	30.54	34.48	38.42	42.36	46.29	50.23	55.11	59.68	65.98	81.73	1.583	24	38
17.45	17.93	19.03	22.18	23.61	25.02	25.34	28.49	29.28	33.22	37.15	41.09	45.03	48.97	53.85	58.42	64.72	80.47	1.600	30	48
15.38	15.86	16.96	20.12	21.54	22.96	23.28	26.43	27.22	31.16	35.10	39.04	42.97	46.92	51.80	56.36	62.66	78.42	1.600	40	64
12.00	12.48	13.59	16.76	18.19	19.61	19.93	23.09	23.88	27.82	31.76	35.71	39.65	43.59	48.47	53.04	59.34	75.10	1.607	56	90
19.04	19.52	20.62	23.77	25.19	26.60	26.92	30.07	30.86	34.80	38.73	42.67	46.61	50.55	55.43	59.99	66.29	82.04	1.636	22	36
14.42 16.50	14.90 16.97	16.00 18.07	19.16 21.23	20.58 22.65	22.00 24.07	22.32 24.38	25.47 27.54	26.26 28.33	30.20 32.26	34.14 36.20	38.09 40.14	42.02 44.08	45.97 48.02	50.85 52.90	55.41 57.47	61.72 63.77	77.47 79.52	1.636 1.647	44 34	72 56
18.56	19.04	20.14	23.29	24.71	26.13	26.44	29.60	30.39	34.32	38.26	42.20	46.13	50.07	54.96	59.52	65.82	81.57	1.667	24	40
13.45	13.92	15.03	18.20	19.62	21.04	21.36	24.51	25.31	29.25	33.19	37.13	41.07	45.01	49.90	54.46	60.77	76.52	1.667	48	80
15.53	16.01	17.11	20.27	21.69	23.11	23.43	26.58	27.37	31.31	35.25	39.19	43.13	47.07	51.95	56.52	62.82	78.57	1.684	38	64
18.09	18.56	19.66	22.82	24.24	25.65	25.97	29.12	29.91	33.85	37.78	41.72	45.66	49.60	54.48	59.05	65.35	81.10	1.692	26	44
17.61	18.08	19.18	22.34	23.76	25.18	25.49	28.64	29.43	33.37	37.31	41.25	45.18	49.13	54.01	58.57	64.87	80.62	1.714	28	48
18.88	19.35	20.45	23.61	25.03	26.44	26.76	29.91	30.70	34.64	38.57	42.51	46.45	50.39	55.27	59.83	66.14	81.89	1.727	22	38
16.65 9.45	17.12 9.94	18.23 11.07	21.38 14.28	22.80 15.72	24.22	24.54 17.47	27.69 20.65	28.48 21.44	32.42 25.40	36.36 29.35	40.30 33.30	44.23 37.24	48.18 41.19	53.06 46.08	57.62 50.65	63.92	79.68	1.750	32 64	56 112
15.68	16.16	17.26	20.42	21.85	17.15 23.26	23.58	26.73	27.53	31.47	35.40	39.35	43.28	47.23	52.11	56.67	56.96 62.98	72.72 78.73	1.750 1.778	36	64
14.71	15.19	16.30	19.46	20.88	22.30	22.62	25.78	26.57	30.51	34.45	38.39	42.33	46.27	51.16	55.72	62.03	77.78	1.800	40	72
				11.68	13.15	13.47	16.70	17.50	21.49	25.46	29.43	33.39	37.34	42.24	46.82	53.13	68.90	1.800	80	144
18.72	19.19	20.29	23.45	24.87	26.28	26.60	29.75	30.54	34.48	38.41	42.35	46.29	50.23	55.11	59.68	65.98	81.73	1.818	22	40
13.74	14.22	15.33	18.49	19.92	21.34	21.66	24.82	25.61	29.55	33.49	37.44	41.38	45.32	50.20	54.77	61.08	76.83	1.818	44	80
18.24	18.71	19.82	22.97	24.39	25.81	26.12	29.27	30.06	34.00	37.94	41.88	45.81	49.76	54.64	59.20	65.50	81.25	1.833	24	44
17.76	18.23	19.34	22.49	23.91	25.33	25.64	28.80	29.59	33.53	37.46	41.40	45.34	49.28	54.16	58.73	65.03	80.78	1.846	26	48
16.80 12.58	17.27 13.06	18.38 14.17	21.53 17.35	22.96 18.78	24.37 20.20	24.69 20.52	27.84 23.69	28.63 24.48	32.57 28.43	36.51 32.37	40.45 36.32	44.39	48.33 44.20	53.21 49.09	57.78 53.66	64.08 59.96	79.83 75.72	1.867 1.875	30 48	56 90
15.83	16.31	17.41	20.57	22.00	23.42	23.73	26.89	27.68	31.62	35.56	39.50	43.44	47.38	52.26	56.83	63.13	78.88	1.882	34	64
14.86	15.34	16.45	19.61	21.03	22.45	22.77	25.93	26.72	30.66	34.60	38.55	42.48	46.43	51.31	55.88	62.18	77.94	1.895	38	72
18.39	18.87	19.97	23.12	24.54	25.96	26.27	29.43	30.22	34.16	38.09	42.03	45.97	49.91	54.79	59.36	65.66	81.41	2.000	22	44
17.91	18.39	19.49	22.64	24.07	25.48	25.80	28.95	29.74	33.68	37.62	41.56	45.50	49.44	54.32	58.88	65.18	80.94	2.000	24	48
16.95	17.42	18.53	21.69	23.11	24.53	24.84	28.00	28.79	32.73	36.66	40.61	44.54	48.49	53.37	57.93	64.24	79.99	2.000	28	56
15.98	16.46	17.56	20.72	22.15	23.57	23.88	27.04		31.77	35.71	39.65	43.59	47.53		56.98	63.29	79.04	2.000	32	64
15.01 14.03	15.49 14.51	16.59 15.62	19.76 18.79	21.18 20.22	22.60 21.64	22.92 21.96	26.08 25.12		30.81 29.85	34.75 33.80	38.70 37.74	42.64 41.68	46.58 45.63	51.46 50.51	56.03 55.08	62.34 61.38	78.09 77.14	2.000	36 40	72 80
9.99	10.49	11.63	14.85	16.29	17.73	18.05	21.23	22.03	25.99	29.94	33.90	37.85	41.80	46.69	51.26	57.57	73.33	2.000	56	112
5.50	. 5. 10		00	12.22	13.69	14.02	17.26	18.07	22.07	26.05	30.02	33.98	37.94	42.84	47.42	53.74	69.51	2.000	72	144
12.86	13.34	14.46	17.64	19.07	20.50	20.82	23.98	24.78	28.73	32.67	36.62	40.56	44.51	49.40	53.96	60.27	76.03	2.045	44	90
14.17	14.65	15.76	18.94	20.36	21.79	22.10	25.27	26.06	30.00	33.95	37.90	41.84	45.78	50.67	55.23	61.54	77.30	2.105	38	80
15.15	15.63	16.74	19.91	21.33	22.75	23.07	26.23	27.02	30.97	34.91	38.85	42.79	46.73	51.62	56.19	62.49	78.25	2.118	34	72
16 10	16.61	17.71	20.87	22.30	23.72	24.03	27.19	27.98	31.92	35.86	39.81	43.75	47.69	52.57	57.14	63.44	79.20	2.133	30	64
16.13	4							28.94	32.88	36.82	40.76	44.70	48.64	53.52	58.09	64.39	80.14	2.154	. 96	
17.10 18.06	17.57 18.54	18.68 19.64	21.84 22.80	23.26 24.22	24.68 25.63	24.99 25.95	28.15 29.10	29.89	33.83	37.77	41.71	45.65	49.59	54.47	59.04	65.34	81.09	2.134	26 22	56 48

^{*}This length factor must be used to determine the proper belt width.

Center Distance is greater than eight times the small diameter and the large sprocket is not flanged. See Engineering Section I-10, Use of Flanged Sprockets, on page 134.



Driv	Sprocket Co	mbinations Driv	/eN						(Cent	er Di	stand	ce, In	ches	3				
No. of Grooves	Pitch Diameter (Inches)	No. of Grooves	Pitch Diameter (Inches)	Speed Ratio	384-8MGT P.L 15.118 48 teeth	480-8MGT P.L 18.898 60 teeth	560-8MGT P.L 22.047 70 teeth	600-8MGT P.L 23.622 75 teeth	640-8MGT P.L 25.197 80 teeth	720-8MGT P.L 28.346 90 teeth	800-8MGT P.L 31.496 100 teeth	840-8MGT P.L 33.071 105 teeth	880-8MGT P.L 34.646 110 teeth	920-8MGT P.L 36.220 115 teeth	960-8MGT P.L 37.795 120 teeth	1040-8MGT P.L 40.945 130 teeth	1064-8MGT P.L 41.890 133 teeth	1120-8MGT P.L 44.094 140 teeth	1160-8MGT P.L 45.669 145 teeth
36	3.609	80	8.020	2.222								7.05	7.88	8.70	9.51	11.12	11.60	12.72	13.52
32	3.208	72 90	7.218	2.250							7.28	8.10	8.91	9.71	10.52	12.12	12.60	13.71	14.51
40 64	4.010 6.416	144	9.023 14.437	2.250 2.250										7.45	8.28	9.92	10.41	11.54	12.34
28	2.807	64	6.416	2.286						6.69	8.31	9.11	9.92	10.71	11.51	13.10	13.58	14.69	15.49
24	2.406	56	5.614	2.333				5.26	6.09	7.71	9.31	10.11	10.91	11.70	12.50	14.08	14.56	15.66	16.46
48	4.812	112	11.229	2.333														8.86	9.70
34	3.409	80	8.020	2.353							6.35	7.19	8.01	8.83	9.65	11.26	11.74	12.86	13.66
38	3.810	90	9.023	2.368						E 7E	7 40	0.00	6.74	7.58	8.41	10.05	10.54	11.67	12.48
30 26	3.008 2.607	72 64	7.218 6.416	2.400 2.462					5.16	5.75 6.82	7.42 8.45	8.23 9.25	9.05 10.06	9.85 10.86	10.66 11.66	12.26 13.25	12.74	13.85	14.65
32	3.208	80	8.020	2.500					3.10	0.02	6.48	7.32	8.15	8.97	9.78	11.40	11.88	13.00	13.81
36	3.609	90	9.023	2.500							0.10	7.02	6.86	7.71	8.55	10.19	10.68	11.81	12.62
22	2.206	56	5.614	2.545			4.56	5.40	6.22	7.85	9.45	10.25	11.05	11.85	12.64	14.23	14.70	15.81	16.61
44	4.411	112	11.229	2.545														9.12	9.96
28	2.807	72	7.218	2.571						5.88	7.55	8.37	9.19	9.99	10.80	12.40	12.88	14.00	14.80
56	5.614	144	14.437	2.571										7.04	0.00	10.00	10.01	11.05	10.70
34 24	3.409 2.406	90 64	9.023 6.416	2.647 2.667					5.29	6.96	8.59	9.39	6.99 10.20	7.84	8.68 11.80	10.32	10.81	11.95	12.76 15.78
30	3.008	80	8.020	2.667					J.23	0.30	6.61	7.45	8.28	9.10	9.92	11.54	12.02	13.14	13.76
26	2.607	72	7.218	2.769						6.01	7.68	8.50	9.32	10.13	10.94	12.54	13.02	14.14	14.94
40	4.010	112	11.229	2.800													8.16	9.37	10.22
32	3.208	90	9.023	2.813									7.12	7.97	8.81	10.46	10.95	12.09	12.90
28	2.807	80	8.020	2.857							6.74	7.58	8.41	9.24	10.06	11.67	12.16	13.28	14.09
22	2.206	64	6.416	2.909					5.41	7.09	8.72	9.53	10.34	11.14	11.94	13.53	14.01	15.13	15.92
38 24	3.810 2.406	112 72	11.229 7.218	2.947 3.000						614	7.82	8.64	9.46	10.27	11 00	12.68	8.29	9.50	10.35
30	3.008	90	9.023	3.000						6.14	1.02	6.36	7.24	8.10	11.08 8.94	10.59	11.09	12.22	13.04
48	4.812	144	14.437	3.000								0.00	1.27	0.10	0.54	10.00	11.03	12.22	10.04
26	2.607	80	8.020	3.077							6.86	7.71	8.55	9.37	10.19	11.81	12.30	13.42	14.23
36	3.609	112	11.229	3.111												7.88	8.41	9.63	10.48
28	2.807	90	9.023	3.214								6.48	7.37	8.22	9.07	10.73	11.22	12.36	13.18
22	2.206	72	7.218	3.273						6.27	7.95	8.77	9.59	10.41	11.22	12.82	13.31	14.43	15.23
44 34	4.411 3.409	144 112	14.437 11.229	3.273 3.294												8.00	8.54	9.75	10.61
24	2.406	80	8.020	3.333							6.99	7.84	8.68	9.50	10.33	11.95	12.44	13.56	14.37
26	2.607	90	9.023	3.462							0.00	6.61	7.49	8.35	9.20	10.86	11.35	12.50	13.31
32	3.208	112	11.229	3.500												8.12	8.66	9.88	10.74
40	4.010	144	14.437	3.600															
22	2.206	80	8.020	3.636							7.12	7.97	8.81	9.64	10.46	12.09	12.58	13.70	14.51
30	3.008	112	11.229	3.733								6 70	7.00	0.40	0.00	8.24	8.78	10.01	10.87
24 38	2.406 3.810	90 144	9.023 14.437	3.750 3.789								6.73	7.62	8.48	9.33	10.99	11.49	12.63	13.45
28	2.807	112	11.229	4.000												8.36	8.91	10.13	10.99
36	3.609	144	14.437	4.000												3.00	3.01	1.5.15	. 5.55
22	2.206	90	9.023	4.091							5.92	6.85	7.74	8.61	9.46	11.12	11.62	12.77	13.59
34	3.409	144	14.437	4.235															
26	2.607	112	11.229	4.308												8.48	9.03	10.26	11.12
32	3.208	144	14.437	4.500												0.00	0.45	10.00	11.05
24 30	2.406 3.008	112 144	11.229 14.437	4.667 4.800												8.60	9.15	10.38	11.25
22	2.206	112	11.229	4.000 5.091												8.72	9 27	10.51	11 38
28	2.807	144	14.437	5.143												0.12	3.21	10.01	11.00
26	2.607	144	14.437	5.538															
24	2.406	144	14.437	6.000															
22	2.206	144	14.437	6.545						<u></u>	<u></u>	<u></u>						<u></u>	<u></u>
	Lei	ngth Facto	r*		0.70	0.80	0.80	0.80	090	090	090	090	090	1.00	1.00	1.00	1.00	1.00	1.00

^{*}This length factor must be used to determine the proper belt width.

Center Distance is greater than eight times the small diameter and the large sprocket is not flanged. See Engineering Section I-10, Use of Flanged Sprockets, on page 134.

Drive Selection Table

						Co	ntor	Dieta	ance,	Inch	100								Sprocket Co	mbinations
						CE	iitei	טוסנפ	ıııc e ,	IIICI	162								DriveR	DriveN
1200-8MGT P.L 47.244 150 teeth	1224-8MGT P.L 48.189 153 teeth	1280-8MGT P.L 50.394 160 teeth	1440-8MGT P.L 56.693 180 teeth	1512-8MGT P.L 59.528 189 teeth	1584-8MGT P.L 62.362 198 teeth	1600-8MGT P.L 62.992 200 teeth	1760-8MGT P.L 69.291 220 teeth	1800-8MGT P.L 70.866 225 teeth	2000-8MGT P.L 78.740 250 teeth	2200-8MGT P.L 86.614 275 teeth	2400-8MGT P.L 94.488 300 teeth	2600-8MGT P.L 102.362 325 teeth	2800-8MGT P.L 110.236 350 teeth	3048-8MGT P.L 120.000 381 teeth	3280-8MGT P.L 129.134 410 teeth	3600-8MGT P.L 141.732 450 teeth	4400-8MGT P.L 173.228 550 teeth	Speed Ratio	No. of Grooves	No. of Grooves
14.32	14.80	15.91	19.08	20.51	21.94	22.25	25.42	26.21	30.16	34.10	38.05	41.99	45.93	50.82 51.77	55.39	61.69	77.45	2.222	36	80
15.30 13.14	15.78 13.63	16.89 14.75	20.06 17.93	21.48 19.37	22.90 20.79	23.22 21.11	26.38 24.28	27.17 25.07	31.12 29.03	35.06 32.97	39.00 36.92	42.94 40.87	46.89 44.81	49.70	56.34 54.27	62.64	78.40 76.34	2.250	32 40	72 90
			11.24	12.75	14.23	14.56	17.81	18.62	22.64	26.62	30.60	34.57	38.53	43.44	48.02	54.34	70.12	2.250	64	144
16.28	16.75	17.86	21.02	22.45	23.87	24.18	27.34	28.13	32.08	36.02	39.96	43.90	47.84	52.73	57.29	63.60	79.35	2.286	28	64
17.25 10.53	17.72 11.03	18.83 12.17	21.99 15.41	23.41 16.86	24.83 18.30	25.14 18.62	28.30 21.81	29.09 22.61	33.03 26.58	36.97 30.54	40.91 34.50	44.85 38.45	48.79 42.40	53.68 47.29	58.24 51.87	64.55 58.18	80.30 73.95	2.333	24 48	56 112
14.46	14.94	16.05	19.23	20.66	22.08	22.40	25.56	26.36	30.31	34.25	38.20	42.14	46.09	50.97	55.54	61.85	77.60	2.353	34	80
13.28	13.77	14.89	18.08	19.51	20.94	21.26	24.43	25.22	29.17	33.12	37.07	41.02	44.97	49.85	54.42	60.73	76.49	2.368	38	90
15.44	15.92	17.03	20.20	21.63	23.05	23.37	26.53	27.32	31.27	35.21	39.16	43.10	47.04	51.93	56.49	62.80	78.56	2.400	30	72
16.42 14.60	16.90 15.08	18.01 16.20	21.17 19.38	22.60 20.81	24.02 22.23	24.33 22.55	27.49 25.71	28.28 26.51	32.23 30.46	36.17 34.40	40.11 38.35	44.05 42.29	48.00 46.24	52.88 51.12	57.45 55.69	63.75 62.00	79.51 77.76	2.462	26 32	64 80
13.43	13.91	15.03	18.22	19.66	21.08	21.40	24.57	25.37	29.32	33.27	37.23	41.17	45.12	50.01	54.58	60.88	76.65	2.500	36	90
17.39	17.87	18.98	22.14	23.56	24.98	25.30	28.45	29.24	33.18	37.12	41.07	45.01	48.95	53.83	58.40	64.70	80.46	2.545	22	56
10.79	11.29	12.44	15.69	17.14	18.58	18.90	22.10	22.90	26.87	30.83	34.79	38.75	42.70	47.59	52.17	58.48	74.25	2.545	44	112
15.59	16.07	17.18	20.35 11.76	21.78 13.28	23.20 14.77	23.52 15.10	26.68 18.36	27.47 19.18	31.42 23.20	35.36 27.20	39.31 31.18	43.25 35.15	47.19 39.12	52.08 44.03	56.65 48.62	62.95 54.94	78.71 70.73	2.571	28 56	72 144
13.56	14.05	15.17	18.37	19.80	21.23	21.55	24.72	25.52	29.47	33.42	37.38	41.32	45.27	50.16	54.73	61.04	76.80	2.647	34	90
16.57	17.05	18.16	21.32	22.75	24.17	24.48	27.64	28.44	32.38	36.32	40.27	44.21	48.15	53.03	57.60	63.90	79.66	2.667	24	64
14.75 15.73	15.23 16.21	16.34 17.32	19.52 20.50	20.95	22.38	22.70 23.67	25.86 26.83	26.66 27.62	30.61 31.57	34.55 35.51	38.50 39.46	42.44 43.40	46.39 47.35	51.28 52.23	55.85 56.80	62.15 63.11	77.91 78.86	2.667	30 26	80 72
11.06	11.56	12.71	15.97	17.42	18.86	19.19	22.38	23.18	27.16	31.13	35.09	39.04	43.00	47.90	52.47	58.79	74.56	2.800	40	112
13.70	14.19	15.31	18.51	19.95	21.38	21.69	24.87	25.66	29.62	33.57	37.53	41.47	45.42	50.31	54.88	61.19	76.95	2.813	32	90
14.89	15.37	16.49	19.67	21.10	22.53	22.84	26.01	26.80	30.76	34.70	38.65	42.60	46.54	51.43	56.00	62.31	78.07	2.857	28	80
16.72 11.19	17.19 11.69	18.30 12.84	21.47 16.10	22.90 17.56	24.32 19.01	24.63 19.33	27.79 22.53	28.59 23.33	32.53 27.31	36.47 31.27	40.42 35.24	44.36 39.19	48.30	53.19 48.05	57.75 52.62	64.06 58.94	79.82 74.71	2.909	22 38	64 112
15.88	16.36	17.47	20.65	22.08	23.50	23.81	26.98	27.77	31.72	35.67	39.61	43.55	47.50	52.39	56.96	63.26	79.02	3.000	24	72
13.84	14.33	15.45	18.65	20.09	21.52	21.84	25.01	25.81	29.77	33.72	37.68	41.62	45.57	50.46	55.03	61.34	77.11	3.000	30	90
15.00	15.51	10.00	12.27	13.80	15.30	15.63	18.91	19.73	23.76	27.77	31.76	35.74	39.71	44.62	49.21	55.54	71.33	3.000	48	144
15.03 11.32	15.51 11.82	16.63 12.98	19.81 16.24	21.25 17.70	22.67 19.15	22.99 19.47	26.16 22.67	26.95 23.47	30.90 27.45	34.85 31.42	38.80 35.39	42.75 39.34	46.70	51.58 48.20	56.15 52.77	62.46 59.09	78.22 74.86	3.077	26 36	80 112
13.98	14.47	15.59	18.80	20.23	21.67	21.98	25.16	25.96	29.92	33.87	37.83	41.77	45.72	50.61	55.19	61.50	77.26	3.214	28	90
16.02	16.50	17.61	20.79	22.22	23.65	23.96	27.13	27.92	31.87	35.82	39.76	43.71	47.65	52.54	57.11	63.41	79.17	3.273	22	72
44.45	11.05	10.11	12.52	14.06	15.56	15.89	19.18	20.00	24.04	28.05	32.05	36.03	40.00	44.92	49.51	55.84	71.64	3.273	44	144
11.45 15.17	11.95 15.65	13.11 16.77	16.38 19.96	17.84 21.39	19.29 22.82	19.61 23.14	22.81 26.31	23.61 27.10	27.60 31.05	31.57 35.00	35.53 38.96	39.49 42.90	43.45 46.85	48.35 51.74	52.92 56.31	59.24 62.61	75.02 78.38	3.294	34 24	112 80
14.12	14.61	15.73	18.94	20.38	21.81	22.13	25.31	26.10	30.06	34.02	37.98	41.92	45.87	50.76	55.34	61.65	77.41	3.462	26	90
11.58	12.08	13.24	16.52	17.98	19.43	19.75	22.95	23.76	27.74	31.71	35.68	39.64	43.60	48.50	53.07	59.39	75.17	3.500	32	112
15 21	15 00	16.01	12.78 20.10	14.32 21.54	15.82 22.96	16.16 23.28	19.45 26.45	20.27 27.25	24.32 31.20	28.34 35.15	32.34 39.11	36.32 43.05	40.29 47.00	45.21 51.89	49.80 56.46	56.13 62.77	71.94 78.53	3.600	40 22	144 80
15.31 11.71	15.80 12.21	16.91 13.38	16.65	18.11	19.56	19.89	23.10	23.90	27.88	31.86	35.83	39.79	43.75	48.64	53.22	59.54	75.32	3.733	30	112
14.26	14.75	15.87	19.08	20.52	21.95	22.27	25.45	26.25	30.21	34.17	38.13	42.07	46.02	50.92	55.49	61.80	77.57	3.750	24	90
44.04	10.05	10.51	12.90	14.45	15.96	16.29	19.59	20.41	24.46	28.48	32.48	36.46	40.44	45.36	49.95	56.28	72.09	3.789	38	144
11.84	12.35	13.51 9.42	16.79 13.03	18.25 14.57	19.70 16.09	20.03 16.42	23.24 19.72	24.04	28.03	32.00 28.62	35.97 32.62	39.93 36.61	43.89	48.79 45.50	53.37	59.69 56.43	75.47 72.24	4.000	28 36	112 144
14.40	14.88	16.01	19.22	20.66	22.10	22.42	25.60	26.40	30.36	34.32	38.27	42.22	46.17	51.07	55.64	61.95	77.72	4.000	22	90
			13.16	14.70	16.22	16.55	19.86	20.68	24.74	28.76			40.73	45.65	50.25	56.58			34	144
11.97	12.48								28.17		36.12	40.08 36.89	44.04	48.94 45.80	53.52		75.63	4.308	26	112
12.10	12.61				16.35 19.98		19.99 23.52	24.32	24.88 28.32			40.23		45.80	50.39 53.67	59.99		4.500 4.667	32 24	144 112
		9.77	13.41	14.96	16.48	16.81	20.13	20.95	25.01	29.04	33.05	37.04	41.02	45.94	50.54		72.69	4.800	30	144
12.23	12.74	13.90	17.20	18.67		20.44	23.66		28.46	32.44		40.38	44.34		53.82	60.14		5.091	22	112
			13.53 13.66		16.61	16.94 17.07		21.08 21.22	25.15 25.29		33.19 33.33			46.09 46.23	50.69 50.83		72.84 72.99		28 26	144 144
		10.12	13.78	15.34		17.07								46.38	50.03			6.000	24	144
	8.80	10.24	13.91	15.47			20.66		25.56		33.62	37.61		46.53		57.47			22	144
1.00	1.00	1.10	1.10	1.10	1.10	1.10	1.10	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20	1.20			

^{*}This length factor must be used to determine the proper belt width.

Teeth in Mesh Factor: 1.0 0.8 0.6

Center Distance is greater than eight times the small diameter and the large sprocket is not flanged. See Engineering Section I-10, Use of Flanged Sprockets, on page 134.

	Sprocket Co		OWC	СПР				<u> </u>	D'		-1			
Driv	· .	Driv	/eN						er Dista					
No. of Grooves	Pitch Diameter (Inches)	No. of Grooves	Pitch Diameter (Inches)	Speed Ratio	966-14MGT P.L 38.031 69 teeth	1190-14MGT P.L 46.850 85 teeth	1400-14MGT P.L 55.118 100 teeth	1610-14MGT P.L 63.386 115 teeth	1778-14MGT P.L 70.000 127 teeth	1890-14MGT P.L 74.409 135 teeth	2100-14MGT P.L 82.677 150 teeth	2310-14MGT P.L 90.945 165 teeth	2450-14MGT P.L 96.457 175 teeth	2590-14MGT P.L 101.968 185 teeth
28	4.912	28	4.912	1.000	11.30	15.71	19.84	23.98	27.28	29.49	33.62	37.75	40.51	43.27
29 30	5.088 5.263	29 30	5.088 5.263	1.000 1.000	11.02 10.75	15.43 15.16	19.57 19.29	23.70 23.43	27.01 26.73	29.21 28.94	33.35 33.07	37.48 37.20	40.24 39.96	42.99 42.72
32	5.614	32	5.614	1.000	10.73	14.61	18.74	22.88	26.18	28.39	32.52	36.65	39.41	42.17
34	5.965	34	5.965	1.000	9.65	14.06	18.19	22.33	25.63	27.84	31.97	36.10	38.86	41.62
36	6.316	36	6.316	1.000	9.09	13.50	17.64	21.77	25.08	27.28	31.42	35.55	38.31	41.06
38	6.667	38	6.667	1.000	8.54	12.95	17.09	21.22	24.53	26.73	30.87	35.00	37.76	40.51
40 44	7.018 7.720	40 44	7.018 7.720	1.000	7.99	12.40 11.30	16.54 15.43	20.67 19.57	23.98 22.87	26.18 25.08	30.32 29.21	34.45 33.34	37.21 36.10	39.96 38.86
48	8.421	48	8.421	1.000		10.20	14.33	18.47	21.77	23.98	28.11	32.24	35.00	37.76
52	9.123	52	9.123	1.000			13.23	17.36	20.67	22.87	27.01	31.14	33.90	36.65
56	9.825	56	9.825	1.000			12.13	16.26	19.57	21.77	25.91	30.04	32.80	35.55
60 64	10.527 11.229	60 64	10.527 11.229	1.000 1.000				15.16 14.06	18.46 17.36	20.67 19.57	24.80 23.70	28.93 27.83	31.69 30.59	34.45 33.35
68	11.229	68	11.229	1.000				12.96	16.26	18.47	22.60	26.73	29.49	32.25
72	12.632	72	12.632	1.000				12.00	15.16	17.36	21.50	25.63	28.39	31.14
80	14.036	80	14.036	1.000						15.16	19.29	23.42	26.18	28.94
29	5.088	30	5.263	1.034	10.88	15.30	19.43	23.57	26.87	29.08	33.21	37.34	40.10	42.86
28 38	4.912 6.667	29 40	5.088 7.018	1.036 1.053	11.16 8.26	15.57 12.68	19.71 16.81	23.84 20.95	27.15 24.25	29.35 26.46	33.49 30.59	37.62 34.72	40.38 37.48	43.13 40.24
36	6.316	38	6.667	1.056	8.82	13.23	17.36	21.50	24.23	27.01	31.14	35.27	38.03	40.79
34	5.965	36	6.316	1.059	9.37	13.78	17.91	22.05	25.35	27.56	31.69	35.82	38.58	41.34
68	11.930	72	12.632	1.059					15.71	17.91	22.05	26.18	28.94	31.69
32	5.614	34	5.965	1.063	9.92	14.33	18.47	22.60	25.91	28.11	32.25	36.38	39.14	41.89
64 30	11.229 5.263	68 32	11.930 5.614	1.063 1.067	10.47	14.88	19.02	13.50 23.15	16.81 26.46	19.01 28.66	23.15 32.80	27.28 36.93	30.04 39.69	32.79 42.44
60	10.527	64	11.229	1.067	10.47	14.00	13.02	14.60	17.91	20.00	24.25	28.38	31.14	33.90
28	4.912	30	5.263	1.071	11.02	15.43	19.57	23.70	27.01	29.21	33.35	37.48	40.24	42.99
56	9.825	60	10.527	1.071			11.57	15.71	19.01	21.22	25.35	29.48	32.24	35.00
52	9.123	56	9.825	1.077		2.24	12.67	16.81	20.12	22.32	26.46	30.59	33.35	36.10
48 44	8.421 7.720	52 48	9.123 8.421	1.083 1.091		9.64 10.74	13.78 14.88	17.91 19.01	21.22 22.32	23.42 24.53	27.56 28.66	31.69 32.79	34.45 35.55	37.20 38.31
40	7.018	44	7.720	1.100		11.84	15.98	20.12	23.42	25.63	29.76	33.89	36.65	39.41
29	5.088	32	5.614	1.103	10.61	15.02	19.15	23.29	26.59	28.80	32.93	37.06	39.82	42.58
36	6.316	40	7.018	1.111	8.54	12.95	17.08	21.22	24.52	26.73	30.87	35.00	37.76	40.51
72	12.632	80	14.036	1.111	0.00	10.50	17.04	04.77	14.04	16.24	20.38	24.51	27.28	30.03
34 32	5.965 5.614	38 36	6.667 6.316	1.118 1.125	9.09 9.64	13.50 14.05	17.64 18.19	21.77 22.32	25.08 25.63	27.28 27.83	31.42 31.97	35.55 36.10	38.31 38.86	41.06 41.61
64	11.229	72	12.632	1.125	3.04	14.00	10.13	12.94	16.24	18.45	22.59	26.72	29.48	32.24
80	14.036	90	15.790	1.125							17.89	22.03	24.79	27.55
30	5.263	34	5.965	1.133	10.19	14.60	18.74	22.87	26.18	28.38	32.52	36.65	39.41	42.17
60	10.527	68	11.930	1.133	40.74	45.45	40.00	14.04	17.35	19.55	23.69	27.82	30.58	33.34
28 56	4.912 9.825	32 64	5.614 11.229	1.143 1.143	10.74	15.15	19.29	23.43 15.14	26.73 18.45	28.94 20.66	33.07 24.79	37.20 28.93	39.96 31.69	42.72 34.44
52	9.123	60	10.527	1.154			12.11	16.25	19.55	21.76	25.90	30.03	32.79	35.54
38	6.667	44	7.720	1.158		12.11	16.25	20.39	23.69	25.90	30.04	34.17	36.93	39.68
48	8.421	56	9.825	1.167			13.21	17.35	20.66	22.86	27.00	31.13	33.89	36.65
29	5.088	34	5.965	1.172	10.32	14.74	18.87	23.01	26.32	28.52	32.66	36.79	39.55	42.30
34 68	5.965 11.930	40 80	7.018 14.036	1.176 1.176	8.80	13.22	17.36	21.49	24.80 14.57	27.00 16.78	31.14 20.92	35.27 25.05	38.03 27.82	40.78 30.57
44	7.720	52	9.123	1.182		10.17	14.31	18.45	21.76	23.97	28.10	32.23	34.99	37.75
32	5.614	38	6.667	1.188	9.35	13.77	17.91	22.04	25.35	27.55	31.69	35.82	38.58	41.34
30	5.263	36	6.316	1.200	9.91	14.32	18.46	22.59	25.90	28.11	32.24	36.37	39.13	41.89
40	7.018	48	8.421	1.200		11.28	15.42	19.56	22.86	25.07	29.21	33.34	36.10	38.85
60 28	10.527 4.912	72 34	12.632 5.965	1.200 1.214	10.46	14.87	19.01	13.46 23.15	16.78 26.45	18.99 28.66	23.13 32.79	27.26 36.92	30.02 39.68	32.78 42.44
56	9.825	68	11.930	1.214	10.40	17.07	10.01	14.57	17.88	20.09	24.23	28.36	31.13	33.88
36	6.316	44	7.720	1.222	7.96	12.38	16.52	20.66	23.97	26.17	30.31	34.44	37.20	39.95
52	9.123	64	11.229	1.231			11.53	15.68	18.99	21.19	25.33	29.47	32.23	34.98
29	5.088	36	6.316	1.241	10.04	14.46	18.59	22.73	26.04	28.24	32.38	36.51	39.27	42.02
32 48	5.614	40 60	7.018	1.250	9.07	13.49	17.62	21.76	25.07	27.27	31.41	35.54	38.30	41.06
48 64	8.421 11.229	80	10.527 14.036	1.250 1.250			12.63	16.78	20.09 15.09	22.30 17.30	26.44 21.45	30.57 25.59	33.33 28.35	36.09 31.11
72	12.632	90	15.790	1.250					10.00	14.80	18.95	23.09	25.86	28.62
		ngth Facto			0.80	0.80	0.90	0.90	0.95	0.95	1.00	1.00	1.00	1.05
		J												

^{*}This length factor must be used to determine the proper belt width.

Center Distance is greater than eight times the small diameter and the large sprocket is not flanged. See Engineering Section I-10, Use of Flanged Sprockets, on page 134.



			werGi		D'								Sprocket Co	mbinations
				Cente	r Dista	nce, Ir	icnes						DriveR	DriveN
2800-14MGT P.L 110.236 200 teeth	3150-14MGT P.L 124.016 225 teeth	3360-14MGT P.L 132.283 240 teeth	3500-14MGT P.L 137.795 250 teeth	3850-14MGT P.L 151.575 275 teeth	4326-14MGT P.L 170.315 309 teeth	4578-14MGT P.L 180.236 327 teeth	4956-14MGT P.L 195.118 354 teeth	5320-14MGT P.L 209.449 380 teeth	5740-14MGT P.L 225.984 410 teeth	6160-14MGT P.L 242.520 440 teeth	6860-14MGT P.L 270.079 490 teeth	Speed Ratio	No. of grooves	No. of grooves
47.40	54.29	58.42	61.18	68.07	77.44	82.40	89.84	97.01	105.27	113.54	127.32	1.000	28	28
47.13 46.85	54.02 53.74	58.15 57.87	60.91 60.63	67.79 67.52	77.16 76.89	82.13 81.85	89.57 89.29	96.73 96.46	105.00 104.72	113.27 112.99	127.05 126.77	1.000 1.000	29 30	29 30
46.30	53.14	57.32	60.08	66.97	76.34	81.30	88.74	95.91	104.72	112.44	126.77	1.000	32	32
45.75	52.64	56.77	59.53	66.42	75.79	80.75	88.19	95.36	103.62	111.89	125.67	1.000	34	34
45.20	52.09	56.22	58.98	65.86	75.23	80.20	87.64	94.80	103.07	111.34	125.12	1.000	36	36
44.65	51.54	55.67	58.43	65.31	74.68	79.65	87.09	94.25	102.52	110.79	124.57	1.000	38	38
44.10 42.99	50.99 49.88	55.12 54.01	57.88 56.77	64.76 63.66	74.13 73.03	79.10 77.99	86.54 85.43	93.70 92.60	101.97 100.86	110.24 109.13	124.02 122.91	1.000 1.000	40	40
41.89	48.78	52.91	55.67	62.56	71.93	76.89	84.33	91.50	99.76	108.03	121.81	1.000	48	48
40.79	47.68	51.81	54.57	61.45	70.82	75.79	83.23	90.39	98.66	106.93	120.71	1.000	52	52
39.69	46.58	50.71	53.47	60.35	69.72	74.69	82.13	89.29	97.56	105.83	119.61	1.000	56	56
38.58	45.47	49.60	52.36	59.25	68.62	73.58	81.02	88.19	96.45	104.72	118.50	1.000	60	60
37.48 36.38	44.37 43.27	48.50 47.40	51.26 50.16	58.15 57.05	67.52 66.42	72.48 71.38	79.92 78.82	87.09 85.99	95.35 94.25	103.62 102.52	117.40 116.30	1.000 1.000	64 68	64 68
35.28	42.17	46.30	49.06	55.94	65.31	70.28	77.72	84.88	93.15	102.52	115.20	1.000	72	72
33.07	39.96	44.09	46.85	53.74	63.11	68.07	75.51	82.68	90.94	99.21	112.99	1.000	80	80
46.99	53.88	58.01	60.77	67.66	77.03	81.99	89.43	96.60	104.86	113.13	126.91	1.034	29	30
47.27	54.16	58.29	61.05	67.93	77.30	82.27	89.71	96.87	105.14	113.41	127.19	1.036	28	29
44.37 44.92	51.26 51.81	55.39 55.94	58.15 58.70	65.04 65.59	74.41 74.96	79.37 79.92	86.81 87.36	93.98 94.53	102.24 102.79	110.51 111.06	124.29 124.84	1.053 1.056	38	40 38
44.92	52.36	56.49	59.25	66.14	75.51	80.47	87.91	95.08	102.79	111.61	125.39	1.050	34	36
35.83	42.72	46.85	49.61	56.49	65.86	70.83	78.27	85.43	93.70	101.97	115.75	1.059	68	72
46.03	52.92	57.05	59.81	66.69	76.06	81.03	88.47	95.63	103.90	112.17	125.95	1.063	32	34
36.93	43.82	47.95	50.71	57.59	66.97	71.93	79.37	86.54	94.80	103.07	116.85	1.063	64	68
46.58	53.47	57.60	60.36	67.24	76.61	81.58	89.02	96.18	104.45	112.72	126.50	1.067	30	32
38.03 47.13	44.92 54.02	49.05 58.15	51.81 60.91	58.70 67.79	68.07 77.16	73.03 82.13	80.47 89.57	87.64 96.73	95.90 105.00	104.17 113.27	117.95 127.05	1.067 1.071	60 28	64 30
39.13	46.02	50.15	52.91	59.80	69.17	74.13	81.57	88.74	97.00	105.27	119.06	1.071	56	60
40.24	47.13	51.26	54.02	60.90	70.27	75.24	82.68	89.84	98.11	106.38	120.16	1.077	52	56
41.34	48.23	52.36	55.12	62.00	71.38	76.34	83.78	90.95	99.21	107.48	121.26	1.083	48	52
42.44	49.33	53.46	56.22	63.11	72.48	77.44	84.88	92.05	100.31	108.58	122.36	1.091	44	48
43.54 46.71	50.43 53.60	54.56 57.73	57.32 60.49	64.21 67.38	73.58 76.75	78.54 81.71	85.98 89.15	93.15 96.32	101.41 104.58	109.68 112.85	123.46 126.63	1.100 1.103	40 29	44 32
44.65	51.54	55.67	58.43	65.31	74.68	79.65	87.09	94.25	102.52	110.79	124.57	1.111	36	40
34.17	41.06	45.19	47.95	54.84	64.21	69.17	76.61	83.78	92.04	100.31	114.09	1.111	72	80
45.20	52.09	56.22	58.98	65.86	75.23	80.20	87.64	94.80	103.07	111.34	125.12	1.118	34	38
45.75	52.64	56.77	59.53	66.41	75.78	80.75	88.19	95.35	103.62	111.89	125.67	1.125	32	36
36.37	43.26	47.39	50.15	57.04	66.41	71.38	78.82	85.98	94.25	102.52	116.30	1.125	64 80	72 90
31.68 46.30	38.57 53.19	42.71 57.32	45.47 60.08	52.35 66.97	61.72 76.34	66.69 81.30	74.13 88.74	81.29 95.91	89.56 104.17	97.83 112.44	111.61 126.22	1.125 1.133	30	34
37.48	44.37	48.50	51.26	58.14	67.51	72.48	79.92	87.08	95.35	103.62	117.40	1.133	60	68
46.85	53.74	57.87	60.63	67.52	76.89	81.85	89.29	96.46	104.72	112.99	126.77	1.143	28	32
38.58	45.47	49.60	52.36	59.25	68.62	73.58	81.02	88.19	96.45	104.72	118.50	1.143	56	64
39.68	46.57	50.70	53.46	60.35	69.72	74.68	82.12	89.29	97.55	105.82	119.60	1.154	52 38	60
43.82 40.78	50.71 47.67	54.84 51.80	57.60 54.57	64.48 61.45	73.85 70.82	78.82 75.79	86.26 83.23	93.42 90.39	101.69 98.66	109.96 106.93	123.74 120.71	1.158 1.167	48	44 56
46.44	53.33	57.46	60.22	67.10	76.47	81.44	88.88	96.04	104.31	112.58	126.36	1.172	29	34
44.92	51.81	55.94	58.70	65.59	74.96	79.92	87.36	94.53	102.79	111.06	124.84	1.176	34	40
34.71	41.60	45.73	48.49	55.38	64.75	69.72	77.16	84.32	92.59	100.86	114.64	1.176	68	80
41.89	48.78	52.91	55.67	62.55	71.92	76.89	84.33	91.49	99.76	108.03	121.81	1.182	44	52
45.47 46.02	52.36 52.91	56.49 57.04	59.25 59.80	66.14 66.69	75.51 76.06	80.47 81.02	87.91 88.46	95.08 95.63	103.34 103.89	111.61 112.16	125.39 125.94	1.188 1.200	32	38 36
42.99	49.88	54.01	56.77	63.66	73.03	77.99	85.43	92.60	100.86	109.13	123.94	1.200	40	48
36.92	43.81	47.94	50.70	57.59	66.96	71.92	79.36	86.53	94.80	103.07	116.85	1.200	60	72
46.57	53.46	57.59	60.35	67.24	76.61	81.58	89.02	96.18	104.45	112.72	126.50	1.214	28	34
38.02	44.91	49.04	51.80	58.69	68.06	73.03	80.47	87.63	95.90	104.17	117.95	1.214	56	68
44.09	50.98	55.11 50.14	57.87	64.76	74.13	79.09	86.53	93.70	101.96	110.23	124.01	1.222	36	44
39.12 46.16	46.01 53.05	50.14 57.18	52.91 59.94	59.79 66.83	69.16 76.20	74.13 81.16	81.57 88.60	88.73 95.77	97.00 104.03	105.27 112.30	119.05 126.08	1.231 1.241	52 29	64 36
45.19	52.08	56.21	58.97	65.86	75.23	80.20	87.64	94.80	103.07	111.34	125.12	1.250	32	40
40.22	47.12	51.25	54.01	60.89	70.27	75.23	82.67	89.84	98.10	106.37	120.15	1.250	48	60
35.25	42.14	46.28	49.04	55.92	65.30	70.26	77.70	84.87	93.14	101.41	115.19	1.250	64	80
32.76	39.66	43.79	46.55	53.44	62.81	67.78	75.22	82.39	90.65	98.92	112.71	1.250	72	90
1.05	1.05	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10			

^{*}This length factor must be used to determine the proper belt width.

Center Distance is greater than eight times the small diameter and the large sprocket is not flanged. See Engineering Section I-10, Use of Flanged Sprockets, on page 134.



	,	Sprocket Co		OVVC	СПР	-				n Diete	naa la	abar.			
38 6.667 49 8.421 1.293 9.07 11.404 11.15 15.09 19.33 2.13 2.534 2.948 33.61 36.37 38.65 41.65 41.64 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 11.15 1		· .		/eN											
90 5, 5, 263 38 6, 6, 6, 6, 7 1, 267 9, 62 14, 94 18, 18 2, 231 25, 6, 27, 28, 31, 39, 9, 36, 99, 38, 55 14, 47, 72, 88, 49, 12, 38, 6, 316, 1236 19, 17, 14, 59 18, 73, 22, 67, 26, 17, 28, 38, 32, 51 36, 64 39, 41 37, 31, 41, 41, 41, 41, 41, 41, 41, 41, 41, 4	of	Diameter	of	Diameter	Ratio	966-14MGT P.L 38.031 69 teeth						2100-14MGT P.L 82.677 150 teeth			
44 7,720 56 9,825 1,273 9,99 13,74 17,88 21,19 23,40 27,54 31,67 34,48 11,41 41,59 18,73 22,87 22,10 23,40 27,54 23,40 27,60 30,56 31,39 17,31 19,52 23,60 27,80 30,56 31,37 37,47 40,22 40 7,013 52 9,123 13,00 10,70 14,85 16,39 22,30 24,51 26,60 32,73 35,54 35,60 29 9,123 30,00 10,70 14,85 16,39 18,41 20,60 24,77 28,90 35,50 35,60 31,60 34,60 31,60 34,60 34,60 31,60 34,60 31,60 34,60 38,60 31,60 34,60 31,60 34,60 31,60 34,60 31,60 34,60 33,80 31,60 34,60 31,60 34,60 31,60 34,60 31,60 34,60 31,60 34,60						0.00									39.13
28 4.912 36 6.316 1.286 10.17 14.89 18.73 22.87 26.17 28.38 32.51 36.64 39.41 42.16 56 9.825 72 12.632 12.86 32.2 12.55 16.79 20.93 24.24 26.44 39.58 34.71 37.47 40.23 57 59 50 54 7.720 12.94 8.22 12.55 16.79 20.93 24.24 26.44 39.58 34.71 37.47 40.23 58 51 53 68 11.330 1.206 10.70 14.85 18.99 22.30 24.51 28.64 23.75 35.64 38.25 52 51 53 68 11.330 1.206 17.70 14.85 18.99 22.30 24.51 20.62 24.77 28.90 31.66 34.42 58 51 50 50 50 50 50 50 50						9.62									
66 9,825 72 12,632 1,286 21,265 16,79 20,39 22,42 24,4 30,8 30,36 33,37 40,22 40 7,018 52 9,123 1,200 1,200 10,70 14,85 18,99 22,30 24,51 28,64 22,78 35,54 32,22 29 5,088 38 6,667 1,310 9,75 14,17 18,31 22,45 28,04 22,477 28,31 31,50 31,50 9,75 14,17 18,31 22,45 28,01 31,31 11,50 22,41 23,31 11,41 20,22 22,41 23,31 11,41 20,23 32,41 31,11 11,41 11,41 11,41 11,41 11,41 11,41 11,41 11,41 11,41 11,41 11,41 11,41 11,41 11,41 11,41 11,41 11,41 11,41 11,41 11,41 11,41 11,41 11,41 11,41 11,41 11,41 11,41 11,						10.17									42.16
40					1.286					17.31			27.80		33.32
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28 4.912 44 7.720 1.571 8.98 13.43 17.58 21.73 25.04 27.25 31.39 35.52 38.28 41.04 38 6.667 60 10.527 1.579 9.73 13.92 18.09 21.41 23.62 27.77 31.91 34.67 37.43 30 5.263 48 8.421 1.600 8.11 12.58 16.74 20.89 24.20 26.41 30.55 34.69 37.45 40.21 40 7.018 64 11.229 1.600 13.06 17.24 20.56 22.78 26.93 31.07 33.83 36.55 56 9.825 90 15.790 1.607 11.72 15.89 20.04 23.36 25.57 29.71 33.85 36.61 39.37 44 7.720 72 12.632 1.636 10.85 15.03 19.20 22.52 24.73 28.87 33.01 35.78 38.41 29.25 <td>36</td> <td></td> <td>56</td> <td>9.825</td> <td></td> <td></td> <td>10.60</td> <td>14.78</td> <td></td> <td></td> <td></td> <td></td> <td></td> <td>35.51</td> <td>38.27</td>	36		56	9.825			10.60	14.78						35.51	38.27
38 6.667 60 10.527 1.579 9.73 13.92 18.09 21.41 23.62 27.77 31.91 34.67 37.43 30 5.263 48 8.421 1.600 8.11 12.58 16.74 20.89 24.20 26.41 30.55 34.69 37.45 40.21 40 7.018 64 11.229 1.600 13.06 17.24 20.56 22.78 26.93 31.07 33.83 36.55 56 9.825 90 15.790 1.607 11.72 15.89 20.04 23.36 25.57 29.71 33.85 36.61 39.37 44 7.720 72 12.632 1.636 11.31 15.52 18.86 21.08 25.24 29.38 32.15 34.91 34 5.965 56 9.825 1.647 10.85 15.03 19.20 22.52 24.73 28.87 33.01 35.78 36.49 29 5.088															
30 5.263 48 8.421 1.600 8.11 12.58 16.74 20.89 24.20 26.41 30.55 34.69 37.45 40.21 40 7.018 64 11.229 1.600 13.06 17.24 20.56 22.78 26.93 31.07 33.83 36.55 56 9.825 90 15.790 1.607 14.58 16.82 21.01 25.18 27.95 30.72 44 7.720 72 12.632 1.636 11.31 15.52 18.86 21.08 25.24 29.38 32.15 34.91 34 5.965 56 9.825 1.647 10.85 15.03 19.20 22.52 24.73 28.87 33.01 35.78 34.91 48 1.930 112 19.650 1.647 21.02 24.33 26.54 30.68 34.82 37.58 40.21 48 8.421 8.01 1.667 9.97 14.17 18.35						8.98									
40 7.018 64 11.229 1.600 13.06 17.24 20.56 22.78 26.93 31.07 33.83 36.59 56 9.825 90 15.790 1.607 11.72 15.89 20.04 23.36 25.57 29.71 33.85 36.61 39.37 44 7.720 72 12.632 1.636 11.31 15.52 18.86 21.08 25.24 29.38 32.15 34.91 34 5.965 56 9.825 1.647 10.85 15.03 19.20 22.52 24.73 28.87 33.01 35.78 38.54 68 11.930 112 19.650 1.647 10.85 15.03 19.20 22.52 24.73 28.87 33.01 35.78 38.54 29 5.088 48 8.421 1.667 9.97 14.17 18.35 21.67 24.33 26.54 30.68 34.82 37.58 40.34 38 6.667						8 11									
32 5.614 52 9.123 1.625 11.72 15.89 20.04 23.36 25.57 29.71 33.85 36.61 39.37 44 7.720 72 12.632 1.636 10.85 11.31 15.52 18.86 21.08 25.24 29.38 32.15 34.91 34 5.965 56 9.825 1.647 10.85 15.03 19.20 22.52 24.73 28.87 33.01 35.78 38.54 68 11.930 112 19.650 1.647 21.02 24.33 26.54 30.68 34.82 37.58 40.34 36 6.316 60 10.527 1.667 9.97 14.17 18.35 21.67 23.88 28.03 32.17 34.94 37.70 48 3.421 80 14.036 1.667 13.31 17.49 20.82 23.04 27.19 31.33 34.10 36.86 40 7.018 68 11.930							.2.00								36.59
44 7.720 72 12.632 1.636 11.31 15.52 18.86 21.08 25.24 29.38 32.15 34.91 34 5.965 56 9.825 1.647 10.85 15.03 19.20 22.52 24.73 28.87 33.01 35.78 38.54 68 11.930 112 19.650 1.647 21.02 24.33 26.54 30.68 34.82 37.58 40.34 36 6.316 60 10.527 1.667 9.97 14.17 18.35 21.67 23.88 28.03 32.17 34.94 37.70 48 8.421 80 14.036 1.667 13.77 17.13 19.36 23.53 27.69 30.46 33.23 38 6.667 64 11.229 1.684 13.31 17.49 20.82 23.04 27.19 31.33 34.10 36.82 40 7.018 68 11.930 1.700 12.43 16.63		9.825	90	15.790	1.607										30.72
34 5.965 56 9.825 1.647 10.85 15.03 19.20 22.52 24.73 28.87 33.01 35.78 38.54 68 11.930 112 19.650 1.647 20.30 23.10 25.88 29 5.088 48 8.421 1.655 8.24 12.71 16.87 21.02 24.33 26.54 30.68 34.82 37.58 40.34 36 6.316 60 10.527 1.667 9.97 14.17 18.35 21.67 23.88 28.03 32.17 34.94 37.70 48 8.421 80 14.036 1.667 13.31 17.49 20.82 23.04 27.19 31.33 34.10 36.88 40 7.018 68 11.930 1.700 12.43 16.63 19.97 22.19 26.34 30.49 33.26 36.02 28 4.912 48 8.421 1.714 8.36 12.83 17.00							11.72								
68 11.930 112 19.650 1.647 20.00 23.10 25.88 29 5.088 48 8.421 1.655 8.24 12.71 16.87 21.02 24.33 26.54 30.68 34.82 37.58 40.34 36 6.316 60 10.527 1.667 9.97 14.17 18.35 21.67 23.88 28.03 32.17 34.94 37.70 48 8.421 80 14.036 1.667 13.77 17.13 19.36 23.53 27.69 30.46 33.23 38 6.667 64 11.229 1.684 13.31 17.49 20.82 23.04 27.19 31.33 34.10 36.86 28 4.912 48 8.421 1.714 8.36 12.83 17.00 21.15 24.47 26.68 30.82 34.95 37.72 40.48 52 9.123 90 15.790 1.731 15.06 17.32 21.51							10.05								
29 5.088 48 8.421 1.655 8.24 12.71 16.87 21.02 24.33 26.54 30.68 34.82 37.58 40.34 36 6.316 60 10.527 1.667 9.97 14.17 18.35 21.67 23.88 28.03 32.17 34.94 37.70 48 8.421 80 14.036 1.667 13.77 17.13 19.36 23.53 27.69 30.46 33.23 38 6.667 64 11.229 1.684 13.31 17.49 20.82 23.04 27.19 31.33 34.10 36.86 28 4.912 48 8.421 1.714 8.36 12.83 17.00 21.15 24.47 26.68 30.82 34.95 37.72 40.48 52 9.123 90 15.790 1.731 15.06 17.32 21.51 25.69 28.47 31.24 30 5.263 52 9.123 1.733							10.00	15.05	19.20	22.32	24.73	20.07			
48 8.421 80 14.036 1.667 13.77 17.13 19.36 23.53 27.69 30.46 33.23 38 6.667 64 11.229 1.684 13.31 17.49 20.82 23.04 27.19 31.33 34.10 36.86 40 7.018 68 11.930 1.700 12.43 16.63 19.97 22.19 26.34 30.49 33.26 36.02 28 4.912 48 8.421 1.714 8.36 12.83 17.00 21.15 24.47 26.68 30.82 34.95 37.72 40.48 52 9.123 90 15.790 1.731 16.15 20.30 23.62 25.83 29.98 34.12 36.88 39.64 32 5.614 56 9.825 1.750 11.10 15.29 19.46 22.78 24.99 29.14 33.28 36.04 38.80 64 11.229 112 19.650 1.750						8.24	12.71	16.87	21.02	24.33	26.54	30.68			40.34
38 6.667 64 11.229 1.684 13.31 17.49 20.82 23.04 27.19 31.33 34.10 36.86 40 7.018 68 11.930 1.700 12.43 16.63 19.97 22.19 26.34 30.49 33.26 36.02 28 4.912 48 8.421 1.714 8.36 12.83 17.00 21.15 24.47 26.68 30.82 34.95 37.72 40.48 52 9.123 90 15.790 1.731 11.97 16.15 20.30 23.62 25.83 29.98 34.12 36.88 39.64 32 5.614 56 9.825 1.750 11.10 15.29 19.46 22.78 24.99 29.14 33.28 36.04 38.80 64 11.229 112 19.650 1.750 11.10 15.29 19.46 22.78 24.99 29.14 33.28 36.04 38.80 43 5.965	36	6.316	60	10.527	1.667		9.97	14.17			23.88	28.03	32.17		37.70
40 7.018 68 11.930 1.700 12.43 16.63 19.97 22.19 26.34 30.49 33.26 36.02 28 4.912 48 8.421 1.714 8.36 12.83 17.00 21.15 24.47 26.68 30.82 34.95 37.72 40.48 52 9.123 90 15.790 1.731 11.97 16.15 20.30 23.62 25.83 29.98 34.12 36.88 39.64 32 5.614 56 9.825 1.750 11.10 15.29 19.46 22.78 24.99 29.14 33.28 36.04 38.80 64 11.229 112 19.650 1.750 11.10 15.29 19.46 22.78 24.99 29.14 33.28 36.04 38.80 34 5.965 60 10.527 1.765 10.22 14.43 18.60 21.93 24.14 28.30 32.44 35.20 37.93 36								40.04							33.23
28 4.912 48 8.421 1.714 8.36 12.83 17.00 21.15 24.47 26.68 30.82 34.95 37.72 40.48 52 9.123 90 15.790 1.731 15.06 17.32 21.51 25.69 28.47 31.24 30 5.263 52 9.123 1.733 11.97 16.15 20.30 23.62 25.83 29.98 34.12 36.88 39.64 32 5.614 56 9.825 1.750 11.10 15.29 19.46 22.78 24.99 29.14 33.28 36.04 38.86 64 11.229 112 19.650 1.750 11.10 15.29 19.46 22.78 24.99 29.14 33.28 36.04 38.80 34 5.965 60 10.527 1.765 10.22 14.43 18.60 21.93 24.14 28.30 32.44 35.20 37.96 36 6.316 64															
52 9.123 90 15.790 1.731 15.06 17.32 21.51 25.69 28.47 31.24 30 5.263 52 9.123 1.733 11.97 16.15 20.30 23.62 25.83 29.98 34.12 36.88 39.64 32 5.614 56 9.825 1.750 11.10 15.29 19.46 22.78 24.99 29.14 33.28 36.04 38.80 64 11.229 112 19.650 1.750 10.22 14.43 18.60 21.93 24.14 28.30 32.44 35.20 37.96 36 6.316 64 11.229 1.778 13.56 17.74 21.08 23.30 27.45 31.59 34.36 37.12 38 6.667 68 11.930 1.789 12.68 16.88 20.22 22.44 26.60 30.75 33.52 36.28 29 5.088 52 9.123 1.793 12.10						8.36	12.83								40.48
30 5.263 52 9.123 1.733 11.97 16.15 20.30 23.62 25.83 29.98 34.12 36.88 39.64 32 5.614 56 9.825 1.750 11.10 15.29 19.46 22.78 24.99 29.14 33.28 36.04 38.80 64 11.229 112 19.650 1.750 10.22 14.43 18.60 21.93 24.14 28.30 32.44 35.20 37.96 36 6.316 64 11.229 1.778 13.56 17.74 21.08 23.30 27.45 31.59 34.36 37.12 38 6.667 68 11.930 1.789 12.68 16.88 20.22 22.44 26.60 30.75 33.52 36.28 29 5.088 52 9.123 1.793 12.10 16.27 20.43 23.75 25.97 30.11 34.25 37.01 39.77						3.55	.2.00								31.24
64 11.229 112 19.650 1.750 Example 18.69 16.55 20.79 23.60 26.40 34 5.965 60 10.527 1.765 10.22 14.43 18.60 21.93 24.14 28.30 32.44 35.20 37.96 36 6.316 64 11.229 1.778 13.56 17.74 21.08 23.30 27.45 31.59 34.36 37.12 38 6.667 68 11.930 1.789 12.68 16.88 20.22 22.44 26.60 30.75 33.52 36.28 29 5.088 52 9.123 1.793 12.10 16.27 20.43 23.75 25.97 30.11 34.25 37.01 39.77	30	5.263	52	9.123	1.733					23.62	25.83	29.98	34.12	36.88	39.64
34 5.965 60 10.527 1.765 10.22 14.43 18.60 21.93 24.14 28.30 32.44 35.20 37.96 36 6.316 64 11.229 1.778 13.56 17.74 21.08 23.30 27.45 31.59 34.36 37.12 38 6.667 68 11.930 1.789 12.68 16.88 20.22 22.44 26.60 30.75 33.52 36.28 29 5.088 52 9.123 1.793 12.10 16.27 20.43 23.75 25.97 30.11 34.25 37.01 39.77							11.10	15.29	19.46	22.78	24.99				38.80
36 6.316 64 11.229 1.778 13.56 17.74 21.08 23.30 27.45 31.59 34.36 37.12 38 6.667 68 11.930 1.789 12.68 16.88 20.22 22.44 26.60 30.75 33.52 36.28 29 5.088 52 9.123 1.793 12.10 16.27 20.43 23.75 25.97 30.11 34.25 37.01 39.77							10.00	14.40	10.00	01.00	0414				
38 6.667 68 11.930 1.789 12.68 16.88 20.22 22.44 26.60 30.75 33.52 36.28 29 5.088 52 9.123 1.793 12.10 16.27 20.43 23.75 25.97 30.11 34.25 37.01 39.77							10.22								
29 5.088 52 9.123 1.793 12.10 16.27 20.43 23.75 25.97 30.11 34.25 37.01 39.77															36.28
Length Factor* 0.80 0.80 0.90 0.90 0.95 0.95 1.00 1.00 1.00 1.00 1.00							12.10								39.77
		Le	ngth Facto	r*		0.80	0.80	0.90				1.00	1.00	1.00	1.05

^{*}This length factor must be used to determine the proper belt width.

Center Distance is greater than eight times the small diameter and the large sprocket is not flanged. See Engineering Section I-10, Use of Flanged Sprockets, on page 134.



				Conto	r Dista	noo Ir	ohoc						Sprocket Co	mbinations
				Cente	rDista	ince, ir	iches						DriveR	DriveN
2800-14MGT P.L 110.236 200 teeth	3150-14MGT P.L 124.016 225 teeth	3360-14MGT P.L 132.283 240 teeth	3500-14MGT P.L 137.795 250 teeth	3850-14MGT P.L 151.575 275 teeth	4326-14MGT P.L 170.315 309 teeth	4578-14MGT P.L 180.236 327 teeth	4956-14MGT P.L 195.118 354 teeth	5320-14MGT P.L 209.449 380 teeth	5740-14MGT P.L 225.984 410 teeth	6160-14MGT P.L 242.520 440 teeth	6860-14MGT P.L 270.079 490 teeth	Speed Ratio	No. of grooves	No. of grooves
43.26	50.15	54.28	57.04	63.93	73.30	78.26	85.71	92.87	101.14	109.41	123.19	1.263	38	48
45.74	52.64	56.77	59.53	66.41	75.78	80.75	88.19	95.35	103.62	111.89	125.67	1.267	30	38
41.33 46.30	48.22 53.19	52.35 57.32	55.11 60.08	62.00 66.96	71.37 76.33	76.33 81.30	83.77 88.74	90.94 95.90	99.20 104.17	107.48 112.44	121.26 126.22	1.273 1.286	44 28	56 36
37.46	44.35	48.48	51.24	58.13	67.50	72.47	79.91	87.08	95.34	103.61	117.39	1.286	56	72
44.36	51.25	55.38	58.15	65.03	74.40	79.37	86.81	93.97	102.24	110.51	124.29	1.294	34	44
42.43	49.32	53.45	56.21	63.10	72.47	77.44	84.88	92.04	100.31	108.58	122.36	1.300	40	52
38.56	45.45	49.59	52.35	59.23	68.61	73.57	81.01	88.18	96.44	104.72	118.50	1.308	52	68
45.88	52.77	56.90	59.66	66.55	75.92	80.88	88.32	95.49	103.75	112.02	125.81	1.310	29	38
33.29 45.47	40.19 52.36	44.33 56.49	47.09 59.25	53.98 66.13	63.35 75.50	68.32 80.47	75.76 87.91	82.93 95.08	91.20 103.34	99.47 111.61	113.25 125.39	1.324 1.333	68 30	90 40
43.53	50.42	54.56	57.32	64.20	73.57	78.54	85.98	93.14	103.34	109.68	123.46	1.333	36	48
39.66	46.56	50.69	53.45	60.34	69.71	74.67	82.11	89.28	97.55	105.82	119.60	1.333	48	64
35.79	42.68	46.82	49.58	56.47	65.84	70.81	78.25	85.42	93.68	101.95	115.73	1.333	60	80
46.02	52.91	57.04	59.80	66.69	76.06	81.02	88.46	95.63	103.89	112.16	125.94	1.357	28	38
40.76	47.66	51.79	54.55	61.44	70.81	75.78	83.22	90.38	98.65	106.92	120.70	1.364	44	60
42.70	49.59	53.72 55.66	56.49	63.37	72.74	77.71 70.64	85.15	92.32	100.58	108.85	122.63	1.368	38	52 44
44.64 45.60	51.53 52.49	55.66 56.62	58.42 59.38	65.30 66.27	74.68 75.64	79.64 80.61	87.08 88.05	94.25 95.21	102.51 103.48	110.78 111.75	124.56 125.53	1.375 1.379	32 29	44 40
37.99	44.89	49.02	51.78	58.67	68.05	73.01	80.45	87.62	95.89	104.16	117.94	1.385	52	72
41.87	48.76	52.89	55.65	62.54	71.91	76.88	84.32	91.49	99.75	108.02	121.80	1.400	40	56
28.52	35.44	39.58	42.35	49.25	58.63	63.60	71.05	78.22	86.49	94.76	108.55	1.400	80	112
33.82	40.73	44.86	47.62	54.52	63.89	68.86	76.31	83.47	91.74	100.01	113.80	1.406	64	90
43.80	50.70	54.83	57.59	64.47	73.85	78.81	86.25	93.42	101.68	109.95	123.74	1.412	34	48
39.10	45.99	50.13	52.89	59.78	69.15	74.12	81.56	88.72	96.99	105.26	119.04	1.417	48	68
45.74 36.32	52.63 43.22	56.76 47.35	59.52 50.12	66.41 57.01	75.78 66.38	80.74 71.35	88.18 78.79	95.35 85.96	103.61 94.23	111.89 102.50	125.67 116.28	1.429 1.429	28 56	40 80
42.97	49.86	54.00	56.76	63.64	73.02	77.98	85.42	92.59	100.85	109.13	122.91	1.444	36	52
40.20	47.09	51.23	53.99	60.88	70.25	75.22	82.66	89.83	98.09	106.36	120.14	1.455	44	64
44.91	51.80	55.93	58.69	65.58	74.95	79.91	87.35	94.52	102.79	111.06	124.84	1.467	30	44
42.14	49.03	53.16	55.92	62.81	72.18	77.15	84.59	91.76	100.02	108.30	122.08	1.474	38	56
44.07 41.30	50.97 48.20	55.10 52.33	57.86 55.09	64.75 61.98	74.12 71.35	79.08 76.32	86.53 83.76	93.69 90.93	101.96 99.19	110.23 107.47	124.01 121.25	1.500 1.500	32 40	48 60
38.53	45.43	49.56	52.32	59.21	68.59	73.55	81.00	88.16	96.43	104.70	118.49	1.500	48	72
34.35	41.26	45.39	48.16	55.05	64.43	69.40	76.85	84.01	92.28	100.56	114.34	1.500	60	90
45.04	51.93	56.07	58.83	65.71	75.08	80.05	87.49	94.66	102.92	111.19	124.97	1.517	29	44
43.24	50.14	54.27	57.03	63.92	73.29	78.25	85.70	92.86	101.13	109.40	123.18	1.529	34	52
36.85	43.75	47.89	50.65	57.54	66.92	71.89	79.33	86.50	94.77	103.04	116.83	1.538	52	80
39.63	46.53	50.66	53.43	60.32	69.69	74.66	82.10	89.27	97.53	105.81	119.59	1.545	44	68
42.41 29.56	49.30 36.49	53.43 40.63	56.20 43.40	63.08 50.31	72.46 59.70	77.42 64.67	84.86 72.12	92.03 79.29	100.30 87.57	108.57 95.84	122.35 109.63	1.556 1.556	36 72	56 112
45.18	52.07	56.20	58.96	65.85	75.22	80.19	87.63	94.79	103.06	111.33	125.11	1.556	28	44
41.57	48.47	52.60	55.36	62.25	71.62	76.59	84.03	91.20	99.47	107.74	121.52	1.579	38	60
44.34	51.24	55.37	58.13	65.02	74.39	79.36	86.80	93.96	102.23	110.50	124.28	1.600	30	48
40.73	47.63	51.77	54.53	61.42	70.79	75.76	83.20	90.37	98.64	106.91	120.69	1.600	40	64
34.87	41.79	45.93	48.69	55.59	64.97	69.94	77.38	84.55	92.82	101.10	114.88	1.607	56	90
43.51	50.41	54.54	57.30	64.19	73.56	78.53	85.97	93.13	101.40	109.67	123.45	1.625	32	52
39.06 42.67	45.96 49.57	50.10 53.70	52.86 56.47	59.75 63.35	69.13 72.73	74.09 77.69	81.54 85.14	88.71 92.30	96.97 100.57	105.25 108.84	119.03 122.62	1.636 1.647	34	72 56
30.07	37.01	41.16	43.93	50.84	60.23	65.20	72.65	79.83	88.10	96.38	110.17	1.647	68	112
44.48	51.37	55.51	58.27	65.15	74.53	79.49	86.93	94.10	102.37	110.64	124.42	1.655	29	48
41.84	48.74	52.87	55.63	62.52	71.90	76.86	84.31	91.47	99.74	108.01	121.79	1.667	36	60
37.38	44.28	48.42	51.19	58.08	67.46	72.43	79.87	87.04	95.31	103.58	117.37	1.667	48	80
41.00	47.90	52.03	54.80	61.69	71.06	76.03	83.47	90.64	98.91	107.18	120.96	1.684	38	64
40.16 44.61	47.06 51.51	51.20 55.64	53.96 58.40	60.85 65.29	70.23 74.66	75.20 79.63	82.64 87.07	89.81 94.24	98.08 102.50	106.35 110.77	120.13 124.56	1.700 1.714	40 28	68 48
35.40	42.31	46.45	49.22	56.12	65.50	79.63	77.92	85.09	93.36	101.64	115.43	1.714	52	90
43.78	50.67	54.81	57.57	64.46	73.83	78.80	86.24	93.41	101.67	109.94	123.73	1.733	30	52
42.94	49.84	53.97	56.74	63.62	73.00	77.97	85.41	92.58	100.84	109.11	122.90	1.750	32	56
30.58	37.52	41.67	44.45	51.36	60.76	65.73	73.19	80.36	88.64	96.92	110.71	1.750	64	112
42.11	49.00	53.14	55.90	62.79	72.17	77.13	84.58	91.74	100.01	108.28	122.07	1.765	34	60
41.27	48.17	52.30	55.07	61.96	71.33	76.30	83.74	90.91	99.18	107.45	121.24	1.778	36	64
40.43 43.91	47.33 50.81	51.47 54.94	54.23 57.70	61.12	70.50 73.97	75.47 78.93	82.91 86.38	90.08 93.54	98.35 101.81	106.62 110.08	120.41 123.86	1.789 1.793	38 29	68 52
				64.59								1./93		52
1.05	1.05	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10			

^{*}This length factor must be used to determine the proper belt width.

Center Distance is greater than eight times the small diameter and the large sprocket is not flanged. See Engineering Section I-10, Use of Flanged Sprockets, on page 134.



	•	ombinations						Centa	er Dista	nce In	ches			
Driv	veR	Driv	/eN							-				
No. of Grooves	Pitch Diameter (Inches)	No. of Grooves	Pitch Diameter (Inches)	Speed Ratio	966-14MGT P.L 38.031 69 teeth	1190-14MGT P.L 46.850 85 teeth	1400-14MGT P.L 55.118 100 teeth	1610-14MGT P.L 63.386 115 teeth	1778-14MGT P.L 70.000 127 teeth	1890-14MGT P.L 74.409 135 teeth	2100-14MGT P.L 82.677 150 teeth	2310-14MGT P.L 90.945 165 teeth	2450-14MGT P.L 96.457 175 teeth	2590-14MGT P.L 101.968 185 teeth
40	7.018	72	12.632	1.800			11.79	16.02	19.36	21.59	25.75	29.91	32.68	35.44
80	14.036	144	25.264	1.800										
44	7.720	80	14.036	1.818		40.00	40.40	14.26	17.63	19.87	24.05	28.21	30.98	33.75
28	4.912	52	9.123	1.857	7.70	12.22	16.40	20.56	23.88	26.10	30.24	34.38	37.15	39.91
30 60	5.263 10.527	56 112	9.825 19.650	1.867 1.867		11.34	15.54	19.71	23.04	25.25	29.40 17.02	33.54 21.28	36.31 24.10	39.07 26.90
32	5.614	60	10.527	1.875		10.46	14.68	18.86	22.19	24.40	28.56	32.70	35.47	38.23
48	8.421	90	15.790	1.875		10.10	1 1.00	10.00	15.55	17.81	22.02	26.20	28.98	31.76
34	5.965	64	11.229	1.882		9.56	13.80	18.00	21.33	23.55	27.71	31.86	34.63	37.39
36	6.316	68	11.930	1.889			12.92	17.13	20.48	22.70	26.86	31.01	33.78	36.55
38	6.667	72	12.632	1.895		44.45	12.03	16.26	19.62	21.84	26.01	30.17	32.94	35.70
29	5.088	56	9.825	1.931		11.47	15.67	19.84	23.17	25.38	29.53	33.67	36.44	39.20
28 30	4.912 5.263	56 60	9.825 10.527	2.000 2.000		11.59 10.70	15.79 14.93	19.97 19.11	23.30 22.44	25.51 24.66	29.66 28.82	33.81 32.96	36.57 35.73	39.33 38.49
32	5.614	64	11.229	2.000		9.79	14.95	18.25	21.59	23.81	27.97	32.90	34.89	37.65
34	5.965	68	11.930	2.000		0.70	13.17	17.38	20.73	22.96	27.12	31.27	34.04	36.81
36	6.316	72	12.632	2.000			12.27	16.51	19.87	22.10	26.27	30.42	33.20	35.96
40	7.018	80	14.036	2.000				14.74	18.12	20.37	24.55	28.72	31.50	34.27
56	9.825	112	19.650	2.000							17.50	21.76	24.59	27.39
72	12.632	144	25.264	2.000										20.23
44	7.720	90	15.790	2.045		40.00	45.05	12.58	16.02	18.29	22.51	26.70	29.49	32.27
29 80	5.088	60	10.527	2.069		10.82	15.05	19.24	22.57	24.79	28.95	33.09	35.86	38.63
38	14.036 6.667	168 80	29.475 14.036	2.100 2.105				14.98	18.37	20.61	24.81	28.98	31.76	34.53
34	5.965	72	12.632	2.118			12.51	16.76	20.12	22.35	26.52	30.68	33.46	36.23
68	11.930	144	25.264	2.118										20.69
32	5.614	68	11.930	2.125			13.41	17.63	20.98	23.21	27.38	31.53	34.31	37.07
30	5.263	64	11.229	2.133		10.03	14.29	18.50	21.84	24.07	28.23	32.38	35.15	37.91
28	4.912	60	10.527	2.143		10.94	15.17	19.37	22.70	24.92	29.08	33.23	35.99	38.76
52	9.123	112	19.650	2.154		4044	4440	40.00	04.07	0440	17.97	22.25	25.08	27.89
29 36	5.088 6.316	64 80	11.229 14.036	2.207 2.222		10.14	14.42 10.88	18.63 15.22	21.97 18.61	24.19 20.86	28.36 25.06	32.51 29.23	35.28 32.01	38.05 34.79
32	5.614	72	12.632	2.250			12.74	17.00	20.37	22.60	26.78	30.94	33.72	36.49
40	7.018	90	15.790	2.250			12.77	13.04	16.50	18.78	23.01	27.20	30.00	32.78
64	11.229	144	25.264	2.250										21.15
30	5.263	68	11.930	2.267		9.32	13.65	17.88	21.23	23.46	27.64	31.79	34.57	37.33
28	4.912	64	11.229	2.286		10.26	14.54	18.75	22.10	24.32	28.49	32.64	35.41	38.18
48	8.421	112	19.650	2.333							18.43	22.73	25.56	28.38
72	12.632	168	29.475	2.333		0.40	10.77	40.00	04.00	00.50	07.70	04.00	04.70	07.40
29 34	5.088 5.965	68 80	11.930 14.036	2.345 2.353		9.43	13.77 11.11	18.00 15.46	21.36 18.86	23.59 21.11	27.76 25.31	31.92 29.48	34.70 32.27	37.46 35.04
38	6.667	90	15.790	2.368			11.11	13.27	16.74	19.02	23.25	27.45	30.25	33.03
30	5.263	72	12.632	2.400			12.98	17.25	20.62	22.85	27.03	31.20	33.98	36.75
60	10.527	144	25.264	2.400									18.64	21.61
80	14.036	192	33.686	2.400										
28	4.912	68	11.930	2.429		9.54	13.89	18.13	21.49	23.72	27.89	32.05	34.83	37.59
68	11.930	168	29.475	2.471			40.40	47.0-	00.74	00.00	07.40	04.00	04.40	00.0-
29	5.088 5.614	72 80	12.632	2.483			13.10	17.37 15.69	20.74	22.98	27.16	31.33	34.10 32.52	36.87 35.30
32 36	6.316	90	14.036 15.790	2.500 2.500			11.34	13.49	19.10 16.97	21.36 19.26	25.56 23.50	29.74 27.70	32.52	33.29
44	7.720	112	19.650	2.545				10.40	10.01	14.46	18.89	23.20	26.05	28.87
28	4.912	72	12.632	2.571			13.21	17.49	20.86	23.10	27.29	31.45	34.23	37.00
56	9.825	144	25.264	2.571									19.09	22.06
64	11.229	168	29.475	2.625										
34	5.965	90	15.790	2.647			44.50	13.72	17.21	19.50	23.74	27.95	30.75	33.54
30 72	5.263	102	14.036	2.667			11.56	15.93	19.34	21.60	25.81	29.99	32.78	35.56
72 29	12.632 5.088	192 80	33.686 14.036	2.667 2.759			11.67	16.05	19.46	21.72	25.93	30.12	32.91	35.68
52 52	9.123	144	25.264	2.759			11.07	10.03	19.40	21.12	20.93	30.12	19.53	22.51
40	7.018	112	19.650	2.800						14.90	19.36	23.68	26.53	29.36
60	10.527	168	29.475	2.800						,				
32	5.614	90	15.790	2.813				13.95	17.44	19.73	23.99	28.20	31.00	33.79
68	11.930	192	33.686	2.824										
28	4.912	80	14.036	2.857			11.78	16.17	19.58	21.85	26.06	30.24	33.03	35.81
	Le	ngth Facto	r*		0.80	0.80	0.90	0.90	0.95	0.95	1.00	1.00	1.00	1.05

^{*}This length factor must be used to determine the proper belt width.

Center Distance is greater than eight times the small diameter and the large sprocket is not flanged. See Engineering Section I-10, Use of Flanged Sprockets, on page 134.



				Conto	r Dista	nco In	chac						Sprocket Co	mbinations
													DriveR	DriveN
2800-14MGT P.L 110.236 200 teeth	3150-14MGT P.L 124.016 225 teeth	3360-14MGT P.L 132.283 240 teeth	3500-14MGT P.L 137.795 250 teeth	3850-14MGT P.L 151.575 275 teeth	4326-14MGT P.L 170.315 309 teeth	4578-14MGT P.L 180.236 327 teeth	4956-14MGT P.L 195.118 354 teeth	5320-14MGT P.L 209.449 380 teeth	5740-14MGT P.L 225.984 410 teeth	6160-14MGT P.L 242.520 440 teeth	6860-14MGT P.L 270.079 490 teeth	Speed Ratio	No. of grooves	No. of grooves
39.59	46.49	50.63	53.39	60.29	69.67	74.63	82.08	89.25	97.52	105.79	119.57	1.800	40	72
23.58	30.63	34.82	37.61	44.56	54.00	58.99	66.46	73.64	81.93	90.22	104.02	1.800	80	144
37.90 44.05	44.81 50.94	48.95 55.08	51.72 57.84	58.61 64.73	67.99 74.10	72.96 79.07	80.41 86.51	87.58 93.68	95.85 101.95	104.12 110.22	117.91 124.00	1.818 1.857	44 28	80 52
43.21	50.94	54.24	57.00	63.89	73.27	78.24	85.68	92.85	101.93	109.39	123.17	1.867	30	56
31.08	38.04	42.19	44.97	51.88	61.28	66.26	73.72	80.90	89.17	97.45	111.25	1.867	60	112
42.37	49.27	53.41	56.17	63.06	72.44	77.40	84.85	92.02	100.28	108.56	122.34	1.875	32	60
35.92	42.84	46.98	49.75	56.65	66.04	71.01	78.46	85.63	93.90	102.18	115.97	1.875	48	90
41.53	48.43	52.57	55.33	62.23	71.60	76.57	84.01	91.18	99.45	107.72	121.51	1.882	34	64
40.69	47.60	51.73	54.50	61.39	70.77	75.74	83.18	90.35	98.62	106.89	120.68	1.889	36	68
39.85 43.34	46.76 50.24	50.90 54.38	53.66 57.14	60.55 64.03	69.93 73.40	74.90 78.37	82.35 85.81	89.52 92.98	97.79 101.25	106.06 109.52	119.85 123.30	1.895 1.931	38 29	72 56
43.48	50.38	54.51	57.14	64.16	73.54	78.51	85.95	93.12	101.23	109.66	123.44	2.000	28	56
42.64	49.54	53.67	56.44	63.33	72.71	77.67	85.12	92.29	100.55	108.83	122.61	2.000	30	60
41.80	48.70	52.84	55.60	62.49	71.87	76.84	84.28	91.45	99.72	108.00	121.78	2.000	32	64
40.96	47.86	52.00	54.76	61.66	71.04	76.01	83.45	90.62	98.89	107.16	120.95	2.000	34	68
40.11	47.02	51.16	53.93	60.82	70.20	75.17	82.62	89.79	98.06	106.33	120.12	2.000	36	72
38.42	45.34	49.48	52.25	59.15	68.53	73.50	80.95	88.12	96.39	104.67	118.45	2.000	40	80
31.59 24.54	38.55 31.61	42.71 35.82	45.48 38.62	52.40 45.58	61.81 55.03	66.79 60.02	74.25 67.50	81.43 74.69	89.71 82.99	97.99 91.28	111.78 105.09	2.000 2.000	56 72	112 144
36.43	43.36	47.50	50.02	57.18	66.57	71.54	78.99	86.17	94.44	102.72	116.51	2.045	44	90
42.77	49.67	53.81	56.57	63.46	72.84	77.81	85.25	92.42	100.69	108.96	122.75	2.069	29	60
	26.71	31.00	33.84	40.88	50.39	55.41	62.91	70.13	78.44	86.74	100.57	2.100	80	168
38.68	45.60	49.74	52.51	59.41	68.80	73.77	81.22	88.39	96.66	104.94	118.72	2.105	38	80
40.38	47.29	51.43	54.19	61.09	70.47	75.44	82.89	90.06	98.33	106.60	120.39	2.118	34	72
25.01	32.10	36.31	39.12	46.09	55.54	60.54	68.02	75.22	83.51	91.81	105.62	2.118	68	144
41.22 42.06	48.13 48.97	52.27 53.10	55.03	61.93 62.76	71.31 72.14	76.28 77.11	83.72 84.55	90.89 91.72	99.16 99.99	107.43 108.27	121.22 122.05	2.125 2.133	32 30	68 64
42.00	49.81	53.10	55.87 56.70	63.60	72.14	77.11	85.39	92.56	100.83	109.10	122.88	2.133	28	60
32.09	39.06	43.22	46.00	52.92	62.33	67.32	74.78	81.96	90.24	98.52	112.32	2.154	52	112
42.19	49.10	53.24	56.00	62.89	72.27	77.24	84.69	91.86	100.13	108.40	122.19	2.207	29	64
38.94	45.86	50.01	52.77	59.68	69.06	74.03	81.48	88.66	96.93	105.20	118.99	2.222	36	80
40.64	47.55	51.69	54.46	61.35	70.74	75.71	83.16	90.33	98.60	106.87	120.66	2.250	32	72
36.95	43.88	48.03	50.80	57.70	67.10	72.07	79.53	86.70	94.98	103.25	117.04	2.250	40	90
25.49 41.48	32.59 48.39	36.81	39.62 55.30	46.59 62.19	56.05 71.57	61.05 76.54	68.54 83.99	75.74 91.16	84.04 99.43	92.33 107.71	106.15 121.49	2.250 2.267	64 30	144 68
42.32	49.23	52.53 53.37	56.13	63.03	71.37	77.38	84.82	91.10	100.26	107.71	122.32	2.286	28	64
32.59	39.56	43.73	46.51	53.44	62.86	67.84	75.30	82.49	90.77	99.05	112.85	2.333	48	112
02.00	27.65	31.95	34.81	41.86	51.39	56.42	63.93	71.16	79.47	87.78	101.62	2.333	72	168
41.61	48.52	52.66	55.43	62.33	71.71	76.68	84.12	91.29	99.57	107.84	121.63	2.345	29	68
39.20	46.12	50.27	53.04	59.94	69.33	74.30	81.75	88.92	97.20	105.47	119.26	2.353	34	80
37.20	44.14	48.29	51.06	57.97	67.36	72.34	79.79	86.97	95.24	103.52	117.31	2.368	38	90
40.90	47.81	51.95	54.72	61.62	71.00	75.98	83.42	90.60	98.87	107.14	120.93	2.400	30	72
25.96	33.08	37.30 26.84	40.11 29.78	47.10 36.99	56.56 46.64	61.57 51.70	69.06 59.26	76.26 66.52	84.56 74.86	92.86 83.20	106.68 97.06	2.400 2.400	60 80	144 192
41.74	48.66	52.80	55.56	62.46	71.84	76.81	84.26	91.43	99.70	107.98	121.76	2.429	28	68
	28.11	32.43	35.28	42.35	51.89	56.92	64.44	71.67	79.99	88.30	102.14	2.471	68	168
41.03	47.94	52.09	54.85	61.75	71.14	76.11	83.56	90.73	99.00	107.28	121.06	2.483	29	72
39.46	46.39	50.53	53.30	60.20	69.59	74.57	82.02	89.19	97.47	105.74	119.53	2.500	32	80
37.46	44.40	48.55	51.32	58.23	67.63	72.60	80.06	87.23	95.51	103.79	117.58	2.500	36	90
33.08	40.07	44.24	47.02	53.96	63.38	68.36	75.83	83.01	91.30	99.58	113.39	2.545	44	112
41.16 26.43	48.08 33.56	52.22 37.79	54.99 40.61	61.89 47.60	71.27 57.07	76.24 62.08	83.69 69.57	90.86 76.78	99.14 85.08	107.41 93.38	121.20 107.20	2.571 2.571	28 56	72 144
21.15	28.57	32.90	35.76	42.84	52.39	57.42	64.95	70.76	80.50	88.82	107.20	2.625	64	168
37.71	44.65	48.81	51.58	58.49	67.89	72.87	80.32	87.50	95.78	104.06	117.85	2.647	34	90
39.72	46.65	50.79	53.56	60.47	69.86	74.83	82.29	89.46	97.73	106.01	119.80	2.667	30	80
		27.74	30.70	37.94	47.61	52.69	60.26	67.52	75.88	84.22	98.10	2.667	72	192
39.85	46.78	50.92	53.69	60.60	69.99	74.97	82.42	89.59	97.87	106.15	119.94	2.759	29	80
26.89	34.04	38.28	41.10	48.10	57.58	62.59	70.09	77.30	85.60	93.91	107.73	2.769	52	144
33.58	40.57	44.75	47.53	54.47	63.90	68.89	76.35	83.54	91.83	100.12	113.92	2.800	40	112
21.59	29.03 44.91	33.37 49.07	36.24 51.84	43.33 58.75	52.89 68.15	57.93 73.13	65.46 80.59	72.69 87.77	81.02 96.04	89.34 104.33	103.19	2.800	60 32	168 90
27 07		49.07	01.04	00.70	00.10	73.13	00.09	07.77	90.04		118.12	2.813	1 32	
37.97				38 41	48 N9	53 18	60 76	68 03	76.39	84 73	98 61	2 824	68	192
37.97 39.98	23.63 46.91	28.19 51.05	31.15 53.82	38.41 60.73	48.09 70.12	53.18 75.10	60.76 82.55	68.03 89.73	76.39 98.00	84.73 106.28	98.61 120.07	2.824 2.857	68 28	192 80

^{*}This length factor must be used to determine the proper belt width.

Center Distance is greater than eight times the small diameter and the large sprocket is not flanged. See Engineering Section I-10, Use of Flanged Sprockets, on page 134.



	Sprocket Co	mbinations						Cente	er Dista	nce In	chee			
Driv	veR	Driv	/eN						טופום וב	iiice, iii				
No. of Grooves	Pitch Diameter (Inches)	No. of Grooves	Pitch Diameter (Inches)	Speed Ratio	966-14MGT P.L 38.031 69 teeth	1190-14MGT P.L 46.850 85 teeth	1400-14MGT P.L 55.118 100 teeth	1610-14MGT P.L 63.386 115 teeth	1778-14MGT P.L 70.000 127 teeth	1890-14MGT P.L 74.409 135 teeth	2100-14MGT P.L 82.677 150 teeth	2310-14MGT P.L 90.945 165 teeth	2450-14MGT P.L 96.457 175 teeth	2590-14MGT P.L 101.968 185 teeth
38	6.667	112	19.650	2.947						15.12	19.58	23.91	26.77	29.60
30	5.263	90	15.790	3.000				14.17	17.68	19.97	24.23	28.45	31.25	34.04
48	8.421	144	25.264	3.000									19.97	22.97
56	9.825	168	29.475	3.000										
64	11.229	192	33.686	3.000										
29	5.088	90	15.790	3.103				14.28	17.79	20.09	24.35	28.57	31.38	34.17
36	6.316	112	19.650	3.111						15.34	19.81	24.15	27.01	29.84
60	10.527	192	33.686	3.200										
28	4.912	90	15.790	3.214				14.40	17.91	20.21	24.47	28.69	31.50	34.29
52	9.123	168	29.475	3.231										
44	7.720	144	25.264	3.273								17.29	20.41	23.42
34	5.965	112	19.650	3.294						15.56	20.04	24.39	27.25	30.09
56	9.825	192	33.686	3.429										
32	5.614	112	19.650	3.500					13.25	15.77	20.27	24.62	27.49	30.33
48	8.421	168	29.475	3.500										
40	7.018	144	25.264	3.600								17.71	20.85	23.86
52	9.123	192	33.686	3.692										
30	5.263	112	19.650	3.733					13.46	15.99	20.50	24.85	27.72	30.57
38	6.667	144	25.264	3.789								17.92	21.06	24.09
44	7.720	168	29.475	3.818										
29	5.088	112	19.650	3.862					13.57	16.10	20.61	24.97	27.84	30.69
28	4.912	112	19.650	4.000					13.67	16.21	20.72	25.09	27.96	30.81
36	6.316	144	25.264	4.000								18.13	21.28	24.31
48	8.421	192	33.686	4.000										40.07
40	7.018	168	29.475	4.200								40.04	04.50	18.87
34	5.965	144	25.264	4.235								18.34	21.50	24.53
44	7.720	192	33.686	4.364										40.00
38	6.667	168	29.475	4.421								10.55	04.70	19.08
32	5.614	144	25.264	4.500								18.55	21.72	24.76
36	6.316	168	29.475	4.667								10.70	04.00	19.28
30 40	5.263 7.018	144 192	25.264 33.686	4.800 4.800								18.76	21.93	24.98
34	5.965	168	29.475	4.000										19.48
29	5.088	144	25.264	4.941								18.86	22.04	25.09
38	6.667	192	33.686	5.053								10.00	22.04	25.09
28	4.912	144	25.264	5.053								18.97	22.15	25.20
32	5.614	168	29.475	5.250								10.31	22.10	19.69
36	6.316	192	33.686	5.333										15.05
30	5.263	168	29.475	5.600										19.89
34	5.965	192	33.686	5.647										19.09
29	5.088	168	29.475	5.793										19.99
28	4.912	168	29.475	6.000										20.09
32	5.614	192	33.686	6.000										20.09
30	5.263	192	33.686	6.400										
29	5.088	192	33.686	6.621										
28	4.912	192	33.686	6.857										
-20				0.001	0.00	0.00	0.00	0.00	0.05	0.05	1.00	1.00	1.00	1.05
	Le	ngth Facto	Γ		0.80	0.80	0.90	0.90	0.95	0.95	1.00	1.00	1.00	1.05

^{*}This length factor must be used to determine the proper belt width.

Center Distance is greater than eight times the small diameter and the large sprocket is not flanged. See Engineering Section I-10, Use of Flanged Sprockets, on page 134.

			vei ai	ip G							ux			
				Cente	er Dista	nce, In	ches						Sprocket Co DriveR	ombinations DriveN
2800-14MGT P.L 110.236 200 teeth	3150-14MGT P.L 124.016 225 teeth	3360-14MGT P.L 132.283 240 teeth	3500-14MGT P.L 137.795 250 teeth	3850-14MGT P.L 151.575 275 teeth	4326-14MGT P.L 170.315 309 teeth	4578-14MGT P.L 180.236 327 teeth	4956-14MGT P.L 195.118 354 teeth	5320-14MGT P.L 209.449 380 teeth	5740-14MGT P.L 225.984 410 teeth	6160-14MGT P.L 242.520 440 teeth	6860-14MGT P.L 270.079 490 teeth	Speed Ratio	No. of grooves	No. of grooves
33.83	40.82	45.00	47.79	54.73	64.16	69.15	76.62	83.80	92.09	100.38	114.19	2.947	38	112
38.22	45.17	49.32	52.10	59.02	68.42	73.40	80.85	88.03	96.31	104.59	118.39	3.000	30	90
27.36	34.52	38.77	41.59	48.60	58.09	63.10	70.60	77.81	86.12	94.43	108.26	3.000	48	144
22.02	29.49	33.84	36.71	43.81	53.38	58.43	65.96	73.20	81.53	89.86	103.71	3.000	56	168
	24.06	28.63	31.61	38.88	48.58	53.66	61.25	68.53	76.89	85.24	99.13	3.000	64	192
38.35	45.30	49.45	52.23	59.15	68.55	73.53	80.99	88.17	96.44	104.73	118.52	3.103	29	90
34.07	41.07	45.25	48.04	54.99	64.42	69.41	76.88	84.07	92.36	100.65	114.45	3.111	36	112
	24.49	29.08	32.06	39.34	49.06	54.15	61.75	69.03	77.40	85.75	99.64	3.200	60	192
38.48	45.42	49.58	52.36	59.28	68.68	73.66	81.12	88.30	96.58	104.86	118.66	3.214	28	90
22.46	29.95	34.30	37.18	44.30	53.88	58.92	66.46	73.71	82.04	90.37	104.23	3.231	52	168
27.82	35.00	39.25	42.08	49.09	58.59	63.61	71.11	78.33	86.64	94.95	108.78	3.273	44	144
34.32	41.32	45.51	48.30	55.24	64.67	69.67	77.14	84.33	92.62	100.91	114.72	3.294	34	112
	24.92	29.52	32.51	39.81	49.54	54.64	62.24	69.53	77.90	86.26	100.16	3.429	56	192
34.56	41.57	45.76	48.55	55.50	64.93	69.93	77.40	84.59	92.88	101.17	114.98	3.500	32	112
22.89	30.41	34.77	37.66	44.78	54.37	59.42	66.97	74.21	82.55	90.89	104.75	3.500	48	168
28.28	35.48	39.73	42.56	49.59	59.10	64.12	71.62	78.84	87.16	95.47	109.30	3.600	40	144
	25.35	29.96	32.96	40.28	50.02	55.12	62.73	70.02	78.40	86.77	100.67	3.692	52	192
34.81	41.82	46.01	48.80	55.75	65.19	70.18	77.66	84.85	93.15	101.44	115.25	3.733	30	112
28.51	35.71	39.98	42.81	49.84	59.35	64.37	71.88	79.10	87.42	95.73	109.57	3.789	38	144
23.32	30.86	35.23	38.12	45.26	54.86	59.92	67.47	74.72	83.06	91.40	105.26	3.818	44	168
34.93	41.95	46.14	48.93	55.88	65.32	70.31	77.79	84.98	93.28	101.57	115.38	3.862	29	112
35.05	42.07	46.26	49.05	56.01	65.45	70.44	77.92	85.11	93.41	101.70	115.51	4.000	28	112
28.74	35.95	40.22	43.05	50.08	59.60	64.62	72.13	79.36	87.67	95.99	109.83	4.000	36	144
	25.78	30.41	33.41	40.74	50.50	55.61	63.22	70.52	78.91	87.27	101.18	4.000	48	192
23.75	31.31	35.70	38.59	45.74	55.35	60.41	67.97	75.22	83.57	91.91	105.78	4.200	40	168
28.97	36.19	40.46	43.29	50.33	59.85	64.87	72.39	79.61	87.93	96.25	110.09	4.235	34	144
	26.20	30.84	33.86	41.20	50.97	56.09	63.71	71.01	79.41	87.78	101.69	4.364	44	192
23.97	31.54	35.93	38.83	45.98	55.60	60.66	68.22	75.48	83.83	92.17	106.04	4.421	38	168
29.20	36.43	40.70	43.54	50.58	60.10	65.13	72.64	79.87	88.19	96.51	110.35	4.500	32	144
24.18	31.76	36.16	39.06	46.22	55.84	60.91	68.47	75.73	84.08	92.42	106.30	4.667	36	168
29.43	36.66	40.94	43.78	50.82	60.35	65.38	72.90	80.12	88.45	96.77	110.61	4.800	30	144
04.00	26.63	31.28	34.31	41.66	51.45	56.57	64.20	71.51	79.91	88.28	102.20	4.800	40	192
24.39	31.99	36.39	39.29	46.46	56.08	61.15	68.72	75.98	84.33	92.68	106.56	4.941	34	168
29.54	36.78	41.06	43.90	50.94	60.47	65.50	73.02	80.25	88.58	96.90	110.74	4.966	29	144
00.00	26.84	31.50	34.53	41.89	51.69	56.81	64.45	71.76	80.16	88.53	102.45	5.053	38	192
29.66	36.90	41.18	44.02	51.07	60.60	65.63	73.15	80.38	88.71	97.03	110.87	5.143	28	144
24.61	32.22	36.62	39.53	46.69	56.33	61.40	68.97	76.23	84.59	92.93	106.81	5.250	32	168
04.00	27.05	31.72	34.75	42.12	51.92	57.05	64.69	72.00	80.41	88.79	102.71	5.333	36	192
24.82	32.44	36.85	39.76	46.93	56.57	61.64	69.22	76.48	84.84	93.19	107.07	5.600	30	168 192
24.02	27.26	31.94	34.97	42.35 47.05	52.16	57.29	64.93	72.25	80.65	89.04	102.96	5.647	34 29	
24.93 25.03	32.55 32.67	36.96 37.08	39.87 39.99	47.05 47.17	56.69 56.81	61.77 61.89	69.34 69.46	76.61 76.73	84.97 85.09	93.32 93.44	107.20 107.33	5.793 6.000	29	168 168
20.03	32.67 27.47	32.16	35.20	47.17	52.40	57.53	65.18	76.73	80.90	89.29	107.33	6.000	32	192
	27.47			42.56	52.40	57.53	65.42	72.50	81.15		103.22	6.400	30	192
	27.79	32.38 32.49	35.42 35.53	42.01	52.75	57.77	65.54	72.74	81.28	89.54 89.66	103.47	6.621	29	192
	27.79	32.49	35.64	43.04	52.75	58.01	65.66	72.80	81.40	89.79	103.73	6.857	28	192
1.05												0.007		132
1.05	1.05	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10	1.10			

^{*}This length factor must be used to determine the proper belt width.

Center Distance is greater than eight times the small diameter and the large sprocket is not flanged. See Engineering Section I-10, Use of Flanged Sprockets, on page 134.

5M PowerGrip® GT®2 Power Rating Table — 9mm Belt Width

RPM									(for Sma			١								
of Faster Shaft	18 1.128	19 1.191	20 1.253	21 1.316	22 1.379	23 1.441	24 1.504	25 1.566	26	28	30	32	34	36 2.256	38	40	44	45 2.820	48 3.008	50 3.133	52 3.258	56 3.509	60 3.760	64 4.010	68 4.261
10	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.04
20	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.06	0.06	0.07	0.07	0.08	0.08
40	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.05	0.05	0.06	0.06	0.07	0.07	0.08	0.08	0.09	0.10	0.10	0.11	0.11	0.12	0.13	0.14	0.15
60	0.04	0.04	0.04	0.05	0.05	0.06	0.06	0.06	0.07	0.07	0.08	0.09	0.10	0.11	0.11	0.12	0.13	0.14	0.15	0.16	0.16	0.18	0.19	0.21	0.22
100	0.06	0.06	0.07	0.07	0.08	0.09	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.17	0.18	0.19	0.21	0.22	0.24	0.25	0.26	0.29	0.31	0.33	0.35
200	0.10	0.11	0.12	0.14	0.15	0.16	0.17	0.18	0.20	0.22	0.24	0.27	0.29	0.31	0.33	0.36	0.40	0.41	0.45	0.47	0.49	0.54	0.58	0.62	0.67
300	0.14	0.16	0.18	0.19	0.21	0.23	0.25	0.26	0.28	0.31	0.35	0.38	0.41	0.45	0.48	0.51	0.58	0.60	0.64	0.68	0.71	0.77	0.84	0.90	0.96
400	0.18	0.20	0.22	0.25	0.27	0.29	0.31	0.34	0.36	0.40	0.45	0.49	0.53	0.58	0.62	0.66	0.75	0.77	0.83	0.88	0.92	1.00	1.08	1.17	1.25
500	0.22	0.24	0.27	0.30	0.33	0.35	0.38	0.41	0.44	0.49	0.54	0.60	0.65	0.70	0.76	0.81	0.91	0.94	1.02	1.07	1.12	1.22	1.33	1.43	1.53
600	0.25	0.28	0.32	0.35	0.38	0.41	0.45	0.48	0.51	0.57	0.64	0.70	0.76	0.83	0.89	0.95	1.08	1.11	1.20	1.26	1.32	1.44	1.56	1.68	1.80
800	0.31	0.36	0.40	0.44	0.49	0.53	0.57	0.61	0.65	0.74	0.82	0.90	0.98	1.07	1.15	1.23	1.39	1.43	1.55	1.63	1.70	1.86	2.02	2.17	2.32
1000	0.37	0.43	0.48	0.53	0.58				0.79	0.89	1.00	1.10	1.20	1.30	1.40	1.49	1.69	1.74	1.89	1.98	2.08	2.27	2.46	2.65	2.83
1200	0.43	0.49	0.56	0.62	0.68	0.74	0.80	0.86	0.92	1.04	1.16	1.28	1.40	1.52	1.64	1.75	1.98	2.04	2.21	2.33	2.44	2.66	2.89	3.11	3.33
1400	0.49	0.56	0.63	0.70	0.77	0.84	0.91	0.98	1.05	1.19	1.33	1.47	1.60	1.74	1.87	2.00	2.27	2.34	2.53	2.66	2.79	3.05	3.31	3.56	3.81
1600	0.54	0.62	0.70	0.78	0.86	0.94	1.02	1.10	1.18	1.33	1.49	1.64	1.80	1.95	2.10	2.25	2.55	2.62	2.85	2.99	3.14	3.43	3.71	4.00	4.28
1800	0.59	0.68	0.77	0.86	0.95	1.03	1.12	1.21	1.30	1.47	1.65	1.82	1.99	2.16	2.32	2.49	2.82	2.91	3.15	3.31	3.47	3.80	4.11	4.43	4.74
2000	0.64	0.74	0.83	0.93	1.03	1.13	1.23	1.32	1.42	1.61	1.80	1.99	2.17	2.36	2.54	2.73	3.09	3.18	3.45	3.63	3.80	4.15	4.50	4.84	5.18
2400	0.73	0.85	0.96	1.08	1.19	1.31	1.42	1.53	1.65		2.10	2.32	2.54	2.75	2.97	3.18	3.61	3.72	4.03	4.24	4.44	4.85	5.25	5.65	6.04
2800	0.81	0.95	1.08	1.21	1.35	1.48	1.61	1.74	1.87	2.13	2.38	2.63	2.89	3.14	3.38	3.63	4.11	4.23	4.59	4.82	5.05	5.52	5.97	6.41	6.85
3200	0.89	1.05	1.19	1.34	1.49	1.64	1.79		2.08	2.37	2.66	2.94	3.22	3.50	3.78	4.05	4.59	4.72	5.12		5.64	6.15	6.65	7.14	7.61
3600	0.97	1.14	1.30	1.47	1.64	1.80	1.96	2.12	2.29	2.61	2.92	3.24	3.55	3.86	4.16	4.46	5.05	5.20	5.63	5.92	6.20	6.75	7.29	7.82	8.33
4000	1.04	1.23	1.41	1.59	1.77		2.13	2.31	2.48	2.83	3.18	3.52	3.86	4.20	4.53	4.85	5.49	5.65	6.12	6.43	6.73	7.32	7.90	8.45	8.99
5000	1.20	1.43	1.65	1.87	2.09	2.30	2.52	2.73	2.95	3.37	3.78	4.19	4.59	4.99	5.38	5.77	6.51	6.70	7.24	7.59	7.93	8.60	9.23	9.84	10.4
6000	1.34	1.60	1.86	2.12	2.37	2.62	2.88	3.12	3.37	3.85	4.33	4.80	5.26	5.71	6.15	6.58	7.41	7.61	8.20	8.57	8.94	9.64	10.3	10.9	i I
8000	1.56	1.89	2.21	2.54	2.86	3.17	3.48		4.09	4.68	5.26	5.81	6.35	6.88	7.38	7.86	8.76	8.97	9.57	9.94					
10000	1.69	2.08	2.46	2.84	3.22	3.58	3.94	4.28	4.63	5.29	5.93	6.54	7.11	7.65	8.15	8.62									
12000	1.75		2.61	3.04	3.45	3.84	4.23	4.61	4.98	5.67	6.33	6.93													1
14000	1.72	2.20	2.65	3.10	3.54	3.95	4.36	4.74	5.11	5.79															i I

5M PowerGrip GT2 Power Rating Table — 15mm Belt Width

RPM of														for Sma		ocket Inches)								
Faster Shaft	18 1.128	19 1.191	20 1.253	21 1.316	22 1.379	23 1.441	24 1.504	25 1.566	26 1.629	28 1.754	30 1.880	32 2.005	34 2.130	36 2.256	38 2.381	40 2.506	44 2.757		48 3.008	50 3.133	52 3.258	56 3.509	60 3.760	64 4.010	68 4.261
10	0.01	0.01	0.01	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.04	0.05	0.05	0.05	0.06	0.06	0.07	0.07
20	0.02	0.03	0.03	0.03	0.03		0.04	0.04	0.04		0.05	0.06	0.06	0.06	0.07	0.07	0.08	0.08	0.09		0.10	0.11	0.12	0.13	0.13
40	0.04	0.05	0.05	0.06	0.06	0.06	0.07	0.07	0.08	0.09	0.10	0.10	0.11	0.12	0.13	0.14	0.16	0.16	0.17	0.18	0.19	0.21	0.22	0.24	0.25
60	0.06	0.07	0.07	0.08	0.09	0.09	0.10	0.11	0.11	0.12	0.14	0.15	0.16	0.18	0.19	0.20	0.22	0.23	0.25	0.26	0.27	0.30	0.32	0.35	0.37
100	0.09	0.10	0.11	0.12	0.14	0.15	0.16	0.17	0.18	0.20	0.22	0.24	0.26	0.28	0.30	0.32	0.36	0.37	0.40	0.42	0.44	0.48	0.51	0.55	0.59
200	0.17	0.19	0.21	0.23	0.25	0.27	0.29	0.31	0.33		0.40	0.44	0.48	0.52	0.56	0.59	0.67	0.69	0.74	0.78	0.82	0.89	0.97	1.04	1.11
300	0.24	0.26	0.29	0.32	0.35	0.38	0.41	0.44	0.47		0.58	0.63	0.69	0.75	0.80	0.86	0.96	0.99	1.07	1.13	1.18	1.29	1.39	1.50	1.60
400	0.30	0.34	0.37	0.41	0.45	0.49	0.52	0.56	0.60	0.67	0.75	0.82	0.89	0.96	1.04	1.11	1.25	1.28	1.39	1.46	1.53	1.67	1.81	1.94	2.08
500	0.36	0.41	0.45	0.50	0.54	0.59	0.64	0.68	0.73	0.82	0.91	1.00	1.09	1.17	1.26	1.35	1.52	1.57	1.70	1.78	1.87	2.04	2.21	2.38	2.54
600	0.42	0.47	0.53	0.58	0.64	0.69	0.74	0.80	0.85	0.96	1.06	1.17	1.27	1.38	1.48	1.59	1.79	1.84	2.00	2.10	2.20	2.40	2.60	2.80	3.00
800	0.52	0.60	0.67	0.74	0.81	0.88	0.95	1.02	1.09	1.23	1.37	1.50	1.64	1.78	1.91	2.05	2.31	2.38	2.58	2.71	2.84	3.10	3.36	3.62	3.87
1000	0.62	0.71	0.80	0.89	0.97	1.06	1.15	1.23	1.32	1.49	1.66	1.83	1.99		2.33	2.49	2.82	2.90	3.14	3.30	3.46	3.78	4.10	4.41	4.72
1200	0.72	0.82	0.93	1.03	1.13	1.23	1.34	1.44	1.54	1.74	1.94	2.14	2.34	2.53	2.73	2.92	3.31	3.40	3.69	3.88	4.07	4.44	4.81	5.18	5.55
1400	0.81	0.93	1.05	1.17	1.29	1.40	1.52	1.64	1.75	1.98	2.21	2.44	2.67	2.90	3.12	3.34	3.78	3.89	4.22	4.44	4.65	5.08	5.51	5.93	6.35
1600	0.90	1.03	1.17	1.30	1.43	1.57	1.70	1.83	1.96		2.48	2.74	2.99	3.25	3.50	3.75	4.25	4.37	4.74	4.99	5.23	5.71	6.19	6.66	7.13
1800	0.98	1.13	1.28	1.43	1.58	1.72	1.87	2.02	2.16	2.45	2.74	3.03	3.31	3.59	3.87	4.15	4.71	4.84	5.25	5.52	5.79	6.32	6.85	7.38	7.89
2000	1.06	1.23	1.39	1.55	1.72	1.88	2.04	2.20	2.36	2.68	3.00	3.31	3.62	3.93	4.24	4.55	5.15	5.30	5.75	6.05	6.34	6.92	7.50	8.07	8.64
2400	1.21	1.41	1.60	1.79	1.99	2.18	2.37	2.56	2.75	3.12	3.49	3.86	4.23	4.59	4.95	5.31	6.02	6.19	6.72	7.06	7.40	8.08	8.75	9.41	10.1
2800	1.35	1.58	1.80	2.02	2.24	2.46	2.68	2.90	3.11	3.54	3.97	4.39	4.81	5.23	5.64	6.04	6.85	7.05	7.64	8.04	8.42	9.19	9.95	10.7	11.4
3200	1.49	1.74	1.99	2.24	2.49	2.74	2.98	3.22	3.47	3.95	4.43	4.90	5.37	5.84	6.30	6.75	7.65	7.87	8.53	8.97	9.40	10.2	11.1	11.9	12.7
3600	1.61	1.90	2.17	2.45	2.73	3.00	3.27	3.54	3.81	4.34	4.87	5.40	5.91	6.43	6.93	7.43	8.42	8.66	9.39	9.86	10.3	11.3	12.2	13.0	13.9
4000	1.73	2.04	2.34	2.65	2.95	3.25	3.55	3.84	4.14	4.72	5.30	5.87	6.43	6.99	7.54	8.09	9.16	9.42	10.2	10.7	11.2	12.2	13.2	14.1	15.0
5000	2.00	2.38	2.74	3.11	3.48	3.84	4.20	4.56	4.91	5.61	6.31	6.99	7.66	8.32	8.97	9.61	10.9	11.2	12.1	12.6	13.2	14.3	15.4	16.4	17.4
6000 8000	2.23	2.67	3.10	3.53	3.96	4.37	4.79	5.20	5.62	6.42 7.80	7.22	8.00	8.76	9.51	10.2	11.0	12.3	12.7	13.7	14.3	14.9	16.1	17.1	18.1	
10000	2.59	3.15	3.69 4.11	4.23	4.76 5.36	5.28 5.96	5.80 6.56	6.31 7.14	6.81 7.72	8.82	8.76 9.89	9.69	10.6	11.5 12.7	12.3	13.1	14.6	14.9	15.9	16.6					$\vdash \vdash \vdash$
12000		-					7.06	7.14			10.5	11.5	11.8	12.7	13.6	14.4									
	2.91	3.65	4.36	5.06	5.75	6.41			8.30	9.46	10.5	11.5													
14000	2.86	3.66	4.42	5.17	5.90	6.59	7.26	7.90	8.52	9.65															

Shaded area indicates drive conditions where reduced service life can be expected.

Corrected Horsepower Rating = [Base Rating] \times [Belt Length Correction Factor]

5M PowerGrip® GT®2 Power Rating Table — 25mm Belt Width

RPM of														for Sma		ocket Inches)								
Faster	18	19	20	21	22	23	24	25	26	28	30	32	34	36	38	40	44	45	48	50	52	56	60	64	68
Shaft	1.128	1.191	1.253	1.316	1.379	1.441	1.504	1.566	1.629	1.754	1.880	2.005	2.130	2.256	2.381	2.506	2.757	2.820	3.008	3.133	3.258	3.509	3.760	4.010	4.261
10	0.02	0.02	0.02	0.03	0.03	0.03	0.03	0.03	0.04	0.04	0.04	0.05	0.05	0.06	0.06	0.06	0.07	0.07	0.08	0.08	0.09	0.10	0.10	0.11	0.12
20	0.04	0.04	0.05	0.05	0.05	0.06	0.06	0.07	0.07	0.08	0.08	0.09	0.10	0.11	0.11	0.12	0.14	0.14	0.15	0.16	0.17	0.18	0.20	0.21	0.22
40	0.07	0.08	0.09	0.09	0.10	0.11	0.11	0.12	0.13	0.14	0.16	0.17	0.19	0.20	0.22	0.23	0.26	0.27	0.29	0.30	0.31	0.34	0.37	0.40	0.42
60	0.10	0.11	0.12	0.13	0.14	0.15	0.17	0.18	0.19	0.21	0.23	0.25	0.27	0.29	0.31	0.33	0.37	0.38	0.42	0.44	0.46	0.50	0.54	0.58	0.62
100	0.16	0.17	0.19	0.21	0.23	0.24	0.26	0.28	0.29	0.33	0.36	0.40	0.43	0.46	0.50	0.53	0.60	0.61	0.66	0.69	0.73	0.79	0.86	0.92	0.98
200	0.28	0.31	0.35	0.38	0.41	0.45	0.48	0.51	0.54	0.61	0.67	0.74	0.80	0.86	0.93	0.99	1.12	1.15	1.24	1.30	1.36	1.49	1.61	1.73	1.85
300	0.39		0.49	0.54	0.59	0.63	0.68	0.73	0.78	0.87	0.96	1.06	1.15	1.24	1.33	1.43	1.61	1.65	1.79	1.88	1.97	2.15	2.32	2.50	2.67
400	0.50		0.62	0.69	0.75	0.81	0.87	0.94	1.00	1.12	1.24	1.36	1.48	1.61	1.73	1.84	2.08	2.14	2.32	2.43	2.55	2.78	3.01	3.24	3.47
500	0.60	0.68	0.75	0.83	0.91	0.98	1.06	1.13	1.21	1.36	1.51	1.66	1.81	1.96	2.10	2.25	2.54	2.61	2.83	2.97	3.11	3.40	3.68	3.96	4.24
600	0.69		0.88	0.97	1.06	1.15	1.24	1.33	1.42	1.60	1.77	1.95	2.12	2.30	2.47	2.64	2.99	3.07	3.33		3.67	4.00	4.33	4.66	4.99
800	0.87	0.99	1.11	1.23	1.35	1.47	1.58	1.70	1.82	2.05	2.28	2.51	2.73	2.96	3.19	3.41	3.86	3.97	4.30	4.52	4.74	5.17	5.60	6.03	6.46
1000	1.04	1.19	1.33	1.48	1.62	1.77	1.91	2.05	2.20	2.48	2.76	3.04	3.32	3.60	3.88	4.15	4.70	4.83	5.24		5.77	6.30	6.83	7.35	7.87
1200	1.20	1.37	1.54	1.72	1.89	2.06	2.23	2.40	2.57	2.90	3.23	3.56	3.89	4.22	4.55	4.87	5.51	5.67	6.15		6.78	7.40	8.02	8.64	9.25
1400	1.35	1.55	1.75	1.95	2.14	2.34	2.53	2.73	2.92	3.31	3.69	4.07	4.45	4.83	5.20	5.57	6.31	6.49	7.04	7.40	7.76	8.47	9.18	9.89	10.6
1600	1.49	1.72	1.94	2.17	2.39	2.61	2.83	3.05	3.27	3.70	4.14	4.56	4.99	5.41	5.83	6.25	7.08	7.29	7.90	8.31	8.71	9.52	10.3	11.1	11.9
1800	1.63	1.89	2.13	2.38	2.63	2.87	3.12	3.36	3.61	4.09	4.57	5.05	5.52	5.99	6.46	6.92	7.84	8.07	8.75	9.20	9.65	10.5	11.4	12.3	13.2
2000	1.77		2.32	2.59	2.86	3.13	3.40	3.67	3.94	4.47	5.00	5.52	6.04	6.56	7.07	7.58	8.59	8.84	9.58	10.1	10.6	11.5	12.5	13.5	14.4
2400	2.02	2.35	2.67	2.99	3.31	3.63	3.95	4.26	4.58	5.20	5.82	6.44	7.04	7.65	8.25	8.85	10.0	10.3	11.2	11.8	12.3	13.5	14.6	15.7	16.8
2800	2.26		3.00	3.37	3.74	4.10	4.47	4.83	5.19	5.90	6.62	7.32	8.01	8.71	9.39	10.1	11.4	11.8	12.7	13.4	14.0	15.3	16.6	17.8	19.0
3200	2.48	2.90	3.32	3.74	4.15	4.56	4.97	5.37	5.78	6.58	7.38	8.17	8.95	9.73	10.5	11.3	12.8	13.1	14.2	14.9	15.7	17.1	18.5	19.8	21.2
3600	2.69	3.16	3.62	4.08	4.54	5.00	5.45	5.90	6.35	7.24	8.12	8.99	9.85	10.7	11.6	12.4	14.0	14.4	15.6	16.4	17.2	18.8	20.3	21.7	23.1
4000	2.89	3.40	3.91	4.42	4.92	5.42	5.92	6.41	6.90	7.87	8.84	9.79	10.7	11.7	12.6	13.5	15.3	15.7	17.0	17.9	18.7	20.3	21.9	23.5	25.0
5000	3.34	3.96	4.57	5.19	5.80	6.40	7.00	7.59	8.19	9.35	10.5	11.6	12.8	13.9	15.0	16.0	18.1	18.6	20.1	21.1	22.0	23.9	25.7	27.3	28.9
6000	3.72	4.45	5.17	5.88	6.60	7.29	7.99	8.67	9.36	10.7	12.0	13.3	14.6	15.9	17.1	18.3	20.6	21.1	22.8	23.8	24.8	26.8	28.6	30.2	
8000	4.32		6.14	7.04	7.93	8.80	9.67	10.5	11.4	13.0	14.6	16.1	17.6	19.1	20.5	21.8	24.3	24.9	26.6	27.6					
10000	4.70	5.79	6.85	7.90	8.94	9.94	10.9	11.9	12.9	14.7	16.5	18.2	19.7	21.2	22.6	23.9									
12000	4.85		7.26	8.44	9.58	10.7	11.8	12.8	13.8	15.8	17.6	19.2													
14000	4.77	6.10	7.37	8.63	9.84	11.0	12.1	13.2	14.2	16.1															

Shaded area indicates drive conditions where reduced service life can be expected.

 $Corrected\ Horsepower\ Rating = [Base\ Rating] \times [Belt\ Length\ Correction\ Factor]$

5M PowerGrip GT2 Belt Length Correction Factor Table

Pitch/Length Designation	No. of Teeth	Correction Factor									
5MR-300	60	0.77	5MR-500	100	0.90	5MR-700	140	1.00	5MR-1300	260	1.16
5MR-355	71	0.81	5MR-535	107	0.92	5MR-750	150	1.01	5MR-1450	290	1.19
5MR-375	75	0.83	5MR-565	113	0.94	5MR-800	160	1.03	5MR-1600	320	1.22
5MR-400	80	0.84	5MR-580	116	0.95	5MR-850	170	1.05	5MR-1720	344	1.24
5MR-405	81	0.85	5MR-600	120	0.95	5MR-900	180	1.06	5MR-2100	420	1.29
5MR-425	85	0.86	5MR-625	125	0.97	5MR-1000	200	1.09			
5MR-450	90	0.88	5MR-650	130	0.98	5MR-1150	230	1.13			

8M PowerGrip® GT®2 Power Rating Table — 20mm Belt Width

RPM of							Base Rateo umber of G									
Faster Shaft	22 2.206	24 2.406	26 2.607	28 2.807	30 3.008	32 3.208	34 3.409	36 3.609	38 3.810	40 4.010	44 4.411	48 4.812	56 5.614	64 6.416	72 7.218	80 8.020
*10	0.07	0.07	0.08	0.09	0.10	0.11	0.12	0.13	0.14	0.15	0.16	0.18	0.22	0.25	0.29	0.32
*20	0.12	0.14	0.16	0.18	0.20	0.21	0.23	0.25	0.27	0.28	0.32	0.35	0.42	0.49	0.55	0.62
*40	0.24	0.27	0.31	0.34	0.37	0.41	0.44	0.48	0.51	0.54	0.61	0.68	0.81	0.94	1.07	1.20
*60	0.35	0.40	0.45	0.50	0.55	0.60	0.65	0.69	0.74	0.79	0.89	0.99	1.18	1.38	1.57	1.76
*100	0.55	0.63	0.72	0.80	0.88	0.96	1.04	1.12	1.20	1.28	1.44	1.60	1.91	2.23	2.54	2.84
*200	1.04	1.20	1.36	1.52	1.67	1.83	1.98	2.14	2.29	2.45	2.75	3.06	3.67	4.27	4.87	5.46
*300	1.51	1.74	1.97	2.20	2.44	2.66	2.89	3.12	3.35	3.57	4.02	4.47	5.36	6.24	7.12	7.99
*400	1.96	2.27	2.57	2.87	3.18	3.48	3.78	4.07	4.37	4.67	5.26	5.85	7.02	8.17	9.32	10.5
*500	2.40	2.78	3.16	3.53	3.90	4.27	4.64	5.01	5.38	5.74	6.47	7.20	8.64	10.1	11.5	12.9
*600	2.83	3.28	3.73	4.17	4.62	5.06	5.50	5.93	6.37	6.80	7.67	8.53	10.2	11.9	13.6	15.3
700	3.26	3.78	4.29	4.80	5.32	5.83	6.34	6.84	7.35	7.85	8.85	9.84	11.8	13.8	15.7	17.6
800	3.68	4.26	4.85	5.43	6.01	6.59	7.17	7.74	8.31	8.88	10.0	11.1	13.4	15.6	17.8	20.0
870	3.96	4.60	5.23	5.86	6.49	7.12	7.74	8.36	8.98	9.60	10.8	12.0	14.5	16.9	19.2	21.6
1000	4.49	5.22	5.94	6.66	7.38	8.09	8.80	9.50	10.2	10.9	12.3	13.7	16.5	19.2	21.	24.5
1160	5.13	5.97	6.80	7.62	8.45	9.26	10.1	10.9	11.7	12.5	14.1	15.7	18.9	22.0	25.1	28.1
1200	5.29	6.15	7.01	7.86	8.71	9.56	10.4	11.2	12.1	12.9	14.6	16.2	19.5	22.7	25.9	29.0
1400	6.07	7.07	8.06	9.04	10.0	11.0	12.0	12.9	13.9	14.9	16.8	18.7	22.4	26.1	29.8	33.4
1600	6.84	7.97	9.09	10.2	11.3	12.4	13.5	14.6	15.7	16.8	19.0	21.1	25.3	29.5	33.6	37.7
1750	7.41	8.64	9.86	11.1	12.3	13.5	14.7	15.9	17.1	18.2	20.6	22.9	27.5	32.0	36.5	40.8
2000	8.35	9.73	11.1	12.5	13.9	15.2	16.6	17.9	19.3	20.6	23.2	25.8	31.0	36.1	41.1	45.9
2400	9.81	11.4	13.1	14.7	16.3	17.9	19.5	21.1	22.7	24.3	27.4	30.5	36.5	42.4	48.2	53.8
2800	11.2	13.1	15.0	16.9	18.7	20.6	22.4	24.2	26.0	27.8	31.4	34.9	41.8	48.5	54.9	61.2
3200	12.6	14.8	16.9	19.0	21.1	23.2	25.2	27.3	29.3	31.3	35.3	39.2	46.9	54.2	61.3	
3450	13.5	15.8	18.0	20.3	22.5	24.8	27.0	29.1	31.3	33.5	37.7	41.9	50.0	57.7	65.1	
4000	15.3	17.9	20.5	23.1	25.6	28.2	30.7	33.1	35.6	38.0	42.8	47.4	56.4			
4500	16.9	19.8	22.7	25.5	28.4	31.1	33.9	36.6	39.3	42.0	47.2	52.2				
5000	18.5	21.7	24.8	27.9	31.0	34.0	37.0	40.0	42.9	45.7	51.3	56.7				
5500	20.0	23.5	26.9	30.2	33.6	36.8	40.0	43.2	46.3	49.3	55.3					

8M PowerGrip GT2 Power Rating Table — 30mm Belt Width

RPM of								d Horsepow rooves and								
Faster Shaft	22 2.206	24 2.406	26 2.607	28 2.807	30 3.008	32 3.208	34 3.409	36 3.609	38 3.810	40 4.010	44 4.411	48 4.812	56 5.614	64 6.416	72 7.218	80 8.020
*10	0.10	0.12	0.13	0.15	0.16	0.17	0.19	0.20	0.22	0.23	0.26	0.29	0.34	0.40	0.45	0.51
*20	0.20	0.22	0.25	0.28	0.31	0.33	0.36	0.39	0.42	0.44	0.50	0.55	0.66	0.76	0.87	0.98
*40	0.37	0.43	0.48	0.53	0.59	0.64	0.69	0.75	0.80	0.85	0.96	1.06	1.27	1.47	1.68	1.88
*60	0.54	0.62	0.70	0.78	0.86	0.94	1.01	1.09	1.17	1.25	1.40	1.55	1.86	2.16	2.46	2.76
*100	0.87	1.00	1.12	1.25	1.38	1.51	1.63	1.76	1.89	2.01	2.26	2.51	3.00	3.49	3.98	4.47
*200	1.64	1.89	2.13	2.38	2.63	2.87	3.12	3.36	3.60	3.84	4.33	4.80	5.76	6.70	7.64	8.58
*300	2.37	2.74	3.10	3.46	3.82	4.18	4.54	4.90	5.25	5.61	6.32	7.02	8.42	9.80	11.2	12.5
*400	3.08	3.56	4.04	4.51	4.99	5.46	5.93	6.40	6.87	7.33	8.26	9.18	11.0	12.8	14.6	16.4
*500	3.77	4.36	4.95	5.54	6.13	6.71	7.29	7.87	8.45	9.02	10.2	11.3	13.6	15.8	18.0	20.2
*600	4.45	5.15	5.85	6.55	7.25	7.94	8.63	9.31	10.0	10.7	12.0	13.4	16.1	18.7	21.4	24.0
700	5.11	5.93	6.74	7.54	8.35	9.15	9.95	10.7	11.5	12.3	13.9	15.5	18.6	21.6	24.7	27.7
800	5.77	6.69	7.61	8.52	9.44	10.3	11.2	12.1	13.0	13.9	15.7	17.5	21.0	24.5	27.9	31.4
870	6.22	7.22	8.22	9.20	10.2	11.2	12.2	13.1	14.1	15.1	17.0	18.9	22.7	26.5	30.2	33.9
1000	7.05	8.19	9.33	10.5	11.6	12.7	13.8	14.9	16.0	17.1	19.3	21.5	25.8	30.1	34.3	38.5
1160	8.06	9.37	10.7	12.0	13.3	14.5	15.8	17.1	18.4	19.6	22.2	24.7	29.6	34.5	39.4	44.2
1200	8.31	9.66	11.0	12.3	13.7	15.0	16.3	17.6	19.0	20.3	22.9	25.4	30.6	35.6	40.6	45.6
1400	9.54	11.1	12.7	14.2	15.7	17.3	18.8	20.3	21.8	23.3	26.3	29.3	35.2	41.0	46.8	52.4
1600	10.7	12.5	14.3	16.0	17.8	19.5	21.2	23.0	24.7	26.4	29.8	33.1	39.8	46.3	52.8	59.1
1750	11.6	13.6	15.5	17.4	19.3	21.2	23.0	24.9	26.8	28.6	32.3	36.0	43.2	50.3	57.2	64.1
2000	13.1	15.3	17.5	19.6	21.8	23.9	26.0	28.1	30.2	32.3	36.5	40.6	48.7	56.7	64.5	72.1
2400	15.4	18.0	20.5	23.1	25.6	28.1	30.7	33.1	35.6	38.1	43.0	47.8	57.3	66.6	75.6	84.4
2800	17.6	20.6	23.6	26.5	29.4	32.3	35.2	38.0	40.9	43.7	49.3	54.8	65.6	76.1	86.2	96.0
3200	19.8	23.2	26.5	29.8	33.1	36.4	39.6	42.8	46.0	49.2	55.4	61.6	73.6	85.2	96.2	
3450	21.1	24.7	28.3	31.9	35.4	38.9	42.3	45.8	49.2	52.5	59.2	65.7	78.4	90.6	102.2	
4000	24.0	28.1	32.2	36.2	40.3	44.2	48.1	52.0	55.9	59.7	67.1	74.5	88.5			
4500	26.6	31.1	35.6	40.1	44.5	48.9	53.2	57.5	61.7	65.9	74.0	82.0				
5000	29.0	34.0	39.0	43.8	48.7	53.4	58.1	62.8	67.3	71.8	80.6	89.1				
5500	31.4	36.8	42.2	47.5	52.7	57.8	62.9	67.8	72.7	77.5	86.8					

^{*}Refer to page 15 for additional Service Factors for speeds of 600 rpm or less.

Corrected Horsepower Rating = [Base Rating] \times [Belt Length Correction Factor]

8M PowerGrip® GT®2 Power Rating Table — 50mm Belt Width

RPM of								Small Sprock Diameter, Inc					
Faster Shaft	28 2.807	30 3.008	32 3.208	34 3.409	36 3.609	38 3.810	40 4.010	44 4.411	48 4.812	56 5.614	64 6.416	72 7.218	80 8.020
*10	0.25	0.28	0.30	0.33	0.35	0.38	0.40	0.45	0.50	0.59	0.69	0.78	0.88
*20	0.49	0.53	0.58	0.63	0.68	0.72	0.77	0.86	0.96	1.14	1.33	1.51	1.70
*40	0.93	1.02	1.11	1.21	1.30	1.39	1.48	1.66	1.84	2.20	2.56	2.92	3.27
*60	1.35	1.49	1.63	1.76	1.90	2.03	2.17	2.43	2.70	3.23	3.75	4.28	4.80
*100	2.18	2.40	2.62	2.84	3.06	3.28	3.50	3.93	4.36	5.22	6.08	6.92	7.77
*200	4.14	4.57	4.99	5.42	5.84	6.26	6.68	7.52	8.35	10.0	11.7	13.3	14.9
*300	6.02	6.65	7.27	7.90	8.52	9.14	9.75	11.0	12.2	14.6	17.0	19.4	21.8
*400	7.85	8.67	9.49	10.3	11.1	11.9	12.7	14.4	16.0	19.2	22.3	25.5	28.6
*500	9.63	10.7	11.7	12.7	13.7	14.7	15.7	17.7	19.7	23.6	27.5	31.4	35.2
*600	11.4	12.6	13.8	15.0	16.2	17.4	18.6	20.9	23.3	28.0	32.6	37.2	41.7
700	13.1	14.5	15.9	17.3	18.7	20.1	21.4	24.2	26.9	32.3	37.6	42.9	48.2
800	14.8	16.4	18.0	19.6	21.1	22.7	24.2	27.3	30.4	36.5	42.6	48.6	54.5
870	16.0	17.7	19.4	21.1	22.8	24.5	26.2	29.5	32.9	39.5	46.0	52.5	58.9
1000	18.2	20.1	22.1	24.0	25.9	27.9	29.8	33.6	37.4	44.9	52.4	59.7	67.0
1160	20.8	23.1	25.3	27.5	29.7	32.0	34.1	38.5	42.9	51.5	60.0	68.5	76.8
1200	21.5	23.8	26.1	28.4	30.7	33.0	35.2	39.8	44.2	53.1	61.9	70.6	79.2
1400	24.7	27.4	30.0	32.7	35.3	38.0	40.6	45.8	51.0	61.2	71.3	81.3	91.2
1600	27.9	30.9	33.9	36.9	39.9	42.9	45.9	51.8	57.6	69.2	80.6	91.8	102.9
1750	30.2	33.5	36.8	40.1	43.3	46.6	49.8	56.2	62.5	75.0	87.4	99.5	111.4
2000	34.1	37.8	41.5	45.2	48.9	52.6	56.2	63.4	70.6	84.7	98.5	112.1	125.4
2400	40.2	44.6	48.9	53.3	57.6	62.0	66.2	74.7	83.1	99.7	115.8	131.5	146.8
2800	46.1	51.2	56.2	61.2	66.2	71.1	76.0	85.7	95.3	114.1	132.3	149.9	166.9
3200	51.9	57.6	63.2	68.9	74.5	80.0	85.5	96.4	107.1	128.0	148.1	167.4	
3450	55.4	61.5	67.6	73.6	79.6	85.5	91.3	102.9	114.3	136.4	157.5	177.7	
4000	63.0	70.0	76.9	83.7	90.4	97.1	103.7	116.8	129.5	154.0			
4500	69.7	77.4	85.0	92.6	100.0	107.3	114.5	128.7	142.5				
5000	76.2	84.7	92.9	101.1	109.1	117.1	124.9	140.1	154.9				
5500	82.5	91.6	100.5	109.3	117.9	126.4	134.7	150.9					

^{*}Refer to page 15 for additional Service Factors for speeds of 600 rpm or less.

 $Corrected\ Horsepower\ Rating = [Base\ Rating] \times [Belt\ Length\ Correction\ Factor]$

8M PowerGrip GT2 Belt Length Correction Factor

									~ -		
Pitch/Length Designation	No. of Teeth	Correction Factor									
384-8MGT	48	0.70	920-8MGT	115	1.00	1440-8MGT	180	1.10	2600-8MGT	325	1.20
480-8MGT	60	0.80	960-8MGT	120	1.00	1512-8MGT	189	1.10	2800-8MGT	350	1.20
560-8MGT	70	0.80	1040-8MGT	130	1.00	1584-8MGT	198	1.10	3048-8MGT	381	1.20
600-8MGT	75	0.80	1064-8MGT	133	1.00	1600-8MGT	200	1.10	3280-8MGT	410	1.20
640-8MGT	80	0.90	1120-8MGT	140	1.00	1760-8MGT	220	1.10	3600-8MGT	450	1.20
720-8MGT	90	0.90	1160-8MGT	145	1.00	1800-8MGT	225	1.20	4400-8MGT	550	1.20
800-8MGT	100	0.90	1200-8MGT	150	1.00	2000-8MGT	250	1.20			
840-8MGT	105	0.90	1224-8MGT	153	1.00	2200-8MGT	275	1.20			
880-8MGT	110	0.90	1280-8MGT	160	1.10	2400-8MGT	300	1.20			

8M PowerGrip GT2 Power Rating Table — 85mm Belt Width

RPM of						ver for Small Spro l Pitch Diameter,				
Faster Shaft	34 3.409	36 3.609	38 3.810	40 4.010	44 4.411	48 4.812	56 5.614	64 6.416	72 7.218	80 8.020
*10	0.57	0.61	0.65	0.70	0.78	0.87	1.03	1.20	1.36	1.53
*20	1.09	1.18	1.26	1.34	1.50	1.67	1.99	2.31	2.63	2.95
*40	2.10	2.26	2.42	2.57	2.89	3.21	3.83	4.46	5.07	5.69
*60	3.07	3.30	3.53	3.77	4.23	4.70	5.62	6.53	7.44	8.34
*100	4.94	5.32	5.70	6.08	6.84	7.59	9.09	10.6	12.0	13.5
*200	9.43	10.2	10.9	11.6	13.1	14.5	17.4	20.3	23.1	25.9
*300	13.7	14.8	15.9	17.0	19.1	21.2	25.5	29.7	33.8	38.0
*400	17.9	19.4	20.8	22.2	25.0	27.8	33.3	38.8	44.3	49.7
*500	22.1	23.8	25.6	27.3	30.8	34.2	41.0	47.8	54.6	61.2
*600	26.1	28.2	30.3	32.3	36.4	40.5	48.6	56.7	64.7	72.6
700	30.1	32.5	34.9	37.3	42.0	46.8	56.1	65.4	74.7	83.8
800	34.0	36.8	39.5	42.2	47.6	52.9	63.6	74.1	84.5	94.9
870	36.8	39.7	42.7	45.6	51.4	57.2	68.7	80.1	91.4	102.5
1000	41.8	45.1	48.5	51.8	58.5	65.1	78.2	91.1	103.9	116.6
1160	47.9	51.7	55.6	59.4	67.0	74.6	89.6	104.5	119.1	133.6
1200	49.4	53.4	57.4	61.3	69.2	77.0	92.5	107.8	122.9	137.8
1400	56.9	61.5	66.1	70.6	79.7	88.7	106.5	124.1	141.5	158.6
1600	64.3	69.4	74.6	79.8	90.1	100.2	120.4	140.2	159.7	179.0
1750	69.7	75.4	81.0	86.6	97.7	108.8	130.6	152.0	173.1	193.9
2000	78.7	85.1	91.4	97.8	110.3	122.8	147.3	171.4	195.0	218.2
2400	92.8	100.3	107.8	115.2	130.0	144.6	173.4	201.4	228.8	255.4
2800	106.5	115.1	123.7	132.3	149.2	165.9	198.5	230.2	260.9	290.5
3200	119.9	129.6	139.3	148.8	167.7	186.4	222.7	257.6	291.2	
3450	128.1	138.4	148.7	158.9	179.1	198.8	237.3	274.1	309.1	
4000	145.6	157.4	169.0	180.5	203.1	225.3	267.9			
4500	161.0	173.9	186.7	199.3	224.0	248.0				
5000	175.9	189.9	203.7	217.3	243.8	269.4				
5500	190.2	205.2	220.0	234.4	262.5					

^{*}Refer to page 15 for additional Service Factors for speeds of 600 rpm or less.

Corrected Horsepower Rating = [Base Rating] × [Belt Length Correction Factor]

8M PowerGrip GT2 Belt Length Correction Factor

Pitch/Length Designation	No. of Teeth	Correction Factor									
384-8MGT	48	0.70	920-8MGT	115	1.00	1440-8MGT	180	1.10	2600-8MGT	325	1.20
480-8MGT	60	0.80	960-8MGT	120	1.00	1512-8MGT	189	1.10	2800-8MGT	350	1.20
560-8MGT	70	0.80	1040-8MGT	130	1.00	1584-8MGT	198	1.10	3048-8MGT	381	1.20
600-8MGT	75	0.80	1064-8MGT	133	1.00	1600-8MGT	200	1.10	3280-8MGT	410	1.20
640-8MGT	80	0.90	1120-8MGT	140	1.00	1760-8MGT	220	1.10	3600-8MGT	450	1.20
720-8MGT	90	0.90	1160-8MGT	145	1.00	1800-8MGT	225	1.20	4400-8MGT	550	1.20
800-8MGT	100	0.90	1200-8MGT	150	1.00	2000-8MGT	250	1.20			
840-8MGT	105	0.90	1224-8MGT	153	1.00	2200-8MGT	275	1.20			
880-8MGT	110	0.90	1280-8MGT	160	1.10	2400-8MGT	300	1.20			

14M PowerGrip® GT®2 Power Rating Table — 40mm Belt Width

RPM of									epower fo s and Pitcl								
Faster Shaft	28 4.912	29 5.088	30 5.263	32 5.614	34 5.965	36 6.316	38 6.667	40 7.018	44 7.720	48 8.421	52 9.123	56 9.825	60 10.527	64 11.229	68 11.930	72 12.632	80 14.036
*10	0.56	0.58	0.60	0.65	0.70	0.74	0.79	0.83	0.92	1.01	1.10	1.19	1.28	1.37	1.46	1.55	1.72
*20	1.04	1.09	1.13	1.22	1.31	1.40	1.48	1.57	1.74	1.91	2.08	2.25	2.42	2.59	2.75	2.92	3.25
*40	1.95	2.04	2.12	2.29	2.46	2.62	2.79	2.95	3.27	3.60	3.92	4.24	4.55	4.87	5.18	5.49	6.11
*60	2.81	2.94	3.06	3.30	3.54	3.78	4.02	4.26	4.73	5.19	5.66	6.12	6.58	7.03	7.49	7.94	8.83
*100	4.44	4.64	4.83	5.22	5.60	5.98	6.36	6.74	7.49	8.23	8.97	9.71	10.4	11.2	11.9	12.6	14.0
*200	8.21	8.58	8.94	9.67	10.4	11.1	11.8	12.5	13.9	15.3	16.7	18.1	19.4	20.8	22.1	23.5	26.1
*300	11.7	12.3	12.8	13.8	14.9	15.9	16.9	17.9	20.0	22.0	23.9	25.9	27.9	29.8	31.7	33.6	37.4
*400	15.1	15.8	16.4	17.8	19.1	20.5	21.8	23.1	25.7	28.3	30.9	33.4	35.9	38.4	40.9	43.4	48.3
*500	18.3	19.1	20.0	21.6	23.3	24.9	26.5	28.1	31.3	34.5	37.6	40.7	43.7	46.8	49.8	52.8	58.7
*600	21.4	22.4	23.4	25.3	27.3	29.2	31.1	33.0	36.7	40.4	44.1	47.7	51.3	54.8	58.4	61.9	68.8
800	27.5	28.7	30.0	32.5	35.0	37.4	39.9	42.3	47.1	51.9	56.6	61.2	65.8	70.3	74.8	79.3	88.0
870	29.5	30.9	32.2	34.9	37.6	40.2	42.9	45.5	50.6	55.7	60.8	65.8	70.7	75.6	80.4	85.1	94.5
1000	33.2	34.8	36.3	39.3	42.3	45.3	48.3	51.2	57.1	62.8	68.5	74.1	79.6	85.0	90.4	95.7	106.2
1160	37.7	39.4	41.1	44.6	48.0	51.4	54.8	58.1	64.7	71.2	77.6	84.0	90.2	96.3	102.3	108.3	119.9
1200	38.7	40.6	42.3	45.9	49.4	52.9	56.4	59.8	66.6	73.3	79.9	86.4	92.8	99.0	105.2	111.3	123.2
1400	44.1	46.2	48.2	52.3	56.3	60.3	64.2	68.1	75.8	83.4	90.8	98.1	105.3	112.3	119.2	126.0	139.2
1600	49.3	51.6	53.9	58.4	62.9	67.3	71.7	76.1	84.7	93.1	101.3	109.4	117.2	125.0	132.5	139.8	154.0
1750	53.1	55.5	58.0	62.9	67.7	72.5	77.2	81.9	91.1	100.1	108.9	117.4	125.8	134.0	141.9	149.6	164.3
2000	59.2	61.9	64.7	70.1	75.5	80.8	86.1	91.3	101.4	111.3	120.9	130.2	139.3	148.0	156.5		
2400	68.5	71.7	74.9	81.2	87.3	93.4	99.4	105.3	116.8	127.9	138.6	148.8					
2800	77.3	80.9	84.4	91.5	98.4	105.2	111.8	118.3	130.9	142.9							
+3200	85.5	89.5	93.4	101.1	108.6	116.0	123.2	130.1	143.5								
+3600	93.2	97.5	101.7	110.0	118.1	125.9	133.5										
+4000	100.4	105.0	109.5	118.2	126.7	134.8											

14M PowerGrip GT2 Power Rating Table — 55mm Belt Width

RPM									epower fo								
of				1	1	1	`	i	s and Pitcl								
Faster Shaft	28 4.912	29 5.088	30 5.263	32 5.614	34 5.965	36 6.316	38 6.667	40 7.018	44 7.720	48 8.421	52 9.123	56 9.825	60 10.527	64 11.229	68 11.930	72 12.632	80 14.036
*10	0.83	0.87	0.90	0.97	1.04	1.11	1.18	1.25	1.39	1.52	1.66	1.79	1.92	2.06	2.19	2.32	2.58
*20	1.57	1.63	1.70	1.83	1.96	2.09	2.23	2.36	2.61	2.87	3.13	3.38	3.63	3.88	4.13	4.38	4.87
*40	2.93	3.06	3.18	3.43	3.68	3.93	4.18	4.42	4.91	5.40	5.88	6.36	6.83	7.30	7.77	8.24	9.17
*60	4.22	4.40	4.59	4.95	5.31	5.67	6.03	6.38	7.09	7.79	8.49	9.18	9.87	10.6	11.2	11.9	13.2
*100	6.66	6.96	7.25	7.82	8.40	8.97	9.54	10.1	11.2	12.4	13.5	14.6	15.7	16.7	17.8	18.9	21.0
*200	12.3	12.9	13.4	14.5	15.6	16.7	17.7	18.8	20.9	23.0	25.0	27.1	29.1	31.2	33.2	35.2	39.1
*300	17.6	18.4	19.2	20.7	22.3	23.8	25.4	26.9	29.9	32.9	35.9	38.9	41.8	44.7	47.6	50.5	56.1
*400	22.6	23.7	24.7	26.7	28.7	30.7	32.7	34.7	38.6	42.5	46.3	50.1	53.9	57.7	61.4	65.1	72.4
*500	27.5	28.7	30.0	32.4	34.9	37.3	39.8	42.2	47.0	51.7	56.4	61.0	65.6	70.2	74.7	79.2	88.0
*600	32.2	33.6	35.1	38.0	40.9	43.8	46.6	49.4	55.1	60.6	66.1	71.5	76.9	82.3	87.6	92.8	103.2
800	41.2	43.1	45.0	48.7	52.4	56.1	59.8	63.5	70.7	77.8	84.8	91.8	98.7	105.5	112.2	118.9	132.0
870	44.2	46.3	48.3	52.4	56.4	60.3	64.3	68.2	76.0	83.6	91.2	98.7	106.0	113.3	120.6	127.7	141.7
1000	49.8	52.1	54.4	59.0	63.5	68.0	72.4	76.9	85.6	94.2	102.7	111.1	119.4	127.6	135.6	143.6	159.2
1160	56.5	59.1	61.7	66.9	72.0	77.1	82.2	87.2	97.1	106.9	116.5	125.9	135.3	144.5	153.5	162.4	179.8
1200	58.1	60.8	63.5	68.8	74.1	79.4	84.6	89.7	99.9	110.0	119.8	129.6	139.1	148.6	157.8	167.0	184.8
1400	66.1	69.2	72.3	78.4	84.4	90.4	96.3	102.2	113.7	125.1	136.2	147.2	158.0	168.5	178.9	189.0	208.7
1600	73.9	77.4	80.8	87.6	94.3	101.0	107.6	114.2	127.0	139.6	152.0	164.0	175.9	187.4	198.7	209.7	231.0
1750	79.6	83.3	87.0	94.3	101.6	108.8	115.9	122.9	136.7	150.1	163.3	176.2	188.7	200.9	212.8	224.4	246.5
2000	88.7	92.9	97.0	105.2	113.3	121.3	129.1	136.9	152.1	166.9	181.3	195.3	208.9	222.0	234.7		
2400	102.7	107.5	112.3	121.7	131.0	140.2	149.1	158.0	175.2	191.9	207.9	223.3					
+2800	115.9	121.3	126.7	137.2	147.6	157.7	167.7	177.5	196.3	214.3							
+3200	128.3	134.2	140.1	151.7	163.0	174.0	184.7	195.2	215.3								
+3600	139.8	146.3	152.6	165.0	177.1	188.8	200.2										
+4000	150.6	157.5	164.2	177.3	190.0	202.2											

^{*} Refer to Page 15 for additional Service Factors for speeds of 600 rpm or less.

Corrected Horsepower Rating = [Base Rating] \times [Belt Length Correction Factor]

14M PowerGrip GT2 Belt Length Correction Factor Table

	Pitch/Length Designation	No. of Teeth	Correction Factor									
	966-14MGT	69	0.80	1890-14MGT	135	0.95	2800-14MGT	200	1.05	4326-14MGT	309	1.10
	1190-14MGT	85	0.80	2100-14MGT	150	1.00	3150-14MGT	225	1.05	4578-14MGT	327	1.10
	1400-14MGT	100	0.90	2310-14MGT	165	1.00	3360-14MGT	240	1.10	4956-14MGT	354	1.10
	1610-14MGT	115	0.90	2450-14MGT	175	1.00	3500-14MGT	250	1.10	5320-14MGT	380	1.10
L	1778-14MGT	127	0.95	2590-14MGT	185	1.05	3850-14MGT	275	1.10	5740-14MGT	410	1.10

⁺ Drives within this speed range may generate an objectionable noise level. This can be reduced by using commercially available acoustical damping material in the belt guard. Contact Gates for recommendations on any drive to be installed in a noise sensitive area.

14M PowerGrip® GT®2 Power Rating Table — 85mm Belt Width

RPM of									epower fo s and Pitcl								
Faster Shaft	28 4.912	29 5.088	30 5.263	32 5.614	34 5.965	36 6.316	38 6.667	40 7.018	44 7.720	48 8.421	52 9.123	56 9.825	60 10.527	64 11.229	68 11.930	72 12.632	80 14.036
*10	1.39	1.45	1.51	1.62	1.74	1.85	1.97	2.08	2.31	2.54	2.76	2.98	3.20	3.43	3.64	3.86	4.30
*20	2.61	2.72	2.83	3.05	3.27	3.49	3.71	3.93	4.36	4.78	5.21	5.63	6.05	6.47	6.88	7.30	8.12
*40	4.89	5.10	5.30	5.72	6.14	6.55	6.96	7.37	8.19	8.99	9.80	10.6	11.4	12.2	13.0	13.7	15.3
*60	7.03	7.34	7.64	8.25	8.85	9.45	10.0	10.6	11.8	13.0	14.1	15.3	16.4	17.6	18.7	19.8	22.1
*100	11.1	11.6	12.1	13.0	14.0	15.0	15.9	16.8	18.7	20.6	22.4	24.3	26.1	27.9	29.7	31.5	35.0
*200	20.5	21.5	22.4	24.2	26.0	27.8	29.5	31.3	34.8	38.3	41.7	45.2	48.6	51.9	55.3	58.6	65.2
*300	29.3	30.7	32.0	34.6	37.2	39.7	42.3	44.8	49.9	54.9	59.9	64.8	69.7	74.5	79.3	84.1	93.6
*400	37.7	39.4	41.1	44.5	47.8	51.2	54.5	57.8	64.3	70.8	77.2	83.6	89.9	96.1	102.3	108.5	120.7
*500	45.8	47.9	49.9	54.1	58.2	62.2	66.3	70.3	78.3	86.1	93.9	101.7	109.3	116.9	124.5	131.9	146.7
*600	53.6	56.1	58.5	63.3	68.2	72.9	77.7	82.4	91.8	101.0	110.2	119.2	128.2	137.1	145.9	154.7	171.9
800	68.6	71.8	74.9	81.2	87.4	93.6	99.7	105.8	117.8	129.6	141.4	153.0	164.5	175.8	187.1	198.2	220.1
870	73.7	77.2	80.5	87.3	93.9	100.6	107.1	113.7	126.6	139.4	152.0	164.4	176.7	188.9	200.9	212.8	236.2
1000	83.0	86.9	90.7	98.3	105.8	113.3	120.7	128.1	142.7	157.0	171.2	185.2	199.0	212.6	226.1	239.3	265.4
1160	94.1	98.5	102.9	111.5	120.1	128.6	137.0	145.3	161.9	178.1	194.1	209.9	225.4	240.8	255.8	270.7	299.7
1200	96.9	101.4	105.8	114.7	123.6	132.3	141.0	149.6	166.6	183.3	199.7	215.9	231.9	247.6	263.1	278.3	308.0
1400	110.2	115.4	120.5	130.6	140.7	150.6	160.5	170.3	189.6	208.5	227.1	245.3	263.3	280.9	298.1	315.1	347.9
1600	123.2	129.0	134.7	146.0	157.2	168.4	179.4	190.3	211.7	232.7	253.3	273.4	293.1	312.4	331.2	349.6	385.0
1750	132.6	138.8	145.0	157.2	169.3	181.3	193.1	204.8	227.8	250.2	272.2	293.6	314.5	334.9	354.7	374.0	410.8
+2000	147.9	154.9	161.7	175.3	188.8	202.1	215.2	228.1	253.5	278.2	302.2	325.6	348.2	370.1	391.2		
+2400	171.2	179.2	187.2	202.9	218.4	233.6	248.6	263.3	292.1	319.8	346.5	372.1					
+2800	193.2	202.2	211.1	228.7	246.0	262.9	279.5	295.8	327.2	357.2							
+3200	213.8	223.7	233.5	252.8	271.6	290.0	307.9	325.4	358.8								
+3600	233.1	243.8	254.4	275.1	295.2	314.7	333.7										
+4000	251.0	262.4	273.6	295.5	316.7	337.1											

14M PowerGrip GT2 Power Rating Table — 115mm Belt Width

RPM of										r Small Sp n Diamete							
Faster Shaft	28 4.912	29 5.088	30 5.263	32 5.614	34 5.965	36 6.316	38 6.667	40 7.018	44 7.720	48 8.421	52 9.123	56 9.825	60 10.527	64 11.229	68 11.930	72 12.632	80 14.036
*10	1.94	2.03	2.11	2.27	2.43	2.59	2.75	2.92	3.23	3.55	3.86	4.18	4.49	4.80	5.10	5.41	6.02
*20	3.65	3.81	3.96	4.27	4.58	4.89	5.19	5.50	6.10	6.70	7.29	7.88	8.47	9.06	9.64	10.2	11.4
*40	6.84	7.13	7.43	8.01	8.59	9.17	9.75	10.3	11.5	12.6	13.7	14.8	15.9	17.0	18.1	19.2	21.4
*60	9.85	10.3	10.7	11.5	12.4	13.2	14.1	14.9	16.5	18.2	19.8	21.4	23.0	24.6	26.2	27.8	30.9
*100	15.5	16.2	16.9	18.3	19.6	20.9	22.3	23.6	26.2	28.8	31.4	34.0	36.5	39.1	41.6	44.1	49.0
*200	28.8	30.0	31.3	33.8	36.4	38.9	41.3	43.8	48.7	53.6	58.4	63.2	68.0	72.7	77.4	82.1	91.3
*300	41.1	42.9	44.7	48.4	52.0	55.6	59.2	62.8	69.9	76.9	83.8	90.7	97.5	104.3	111.1	117.8	131.0
*400	52.8	55.2	57.6	62.3	67.0	71.7	76.3	80.9	90.1	99.1	108.1	117.0	125.8	134.6	143.2	151.8	168.9
*500	64.1	67.0	69.9	75.7	81.4	87.1	92.8	98.4	109.6	120.6	131.5	142.3	153.1	163.7	174.2	184.7	205.4
*600	75.1	78.5	81.9	88.7	95.4	102.1	108.8	115.4	128.5	141.4	154.2	166.9	179.5	192.0	204.3	216.5	240.7
800	96.1	100.5	104.9	113.7	122.4	131.0	139.5	148.1	164.9	181.5	197.9	214.2	230.3	246.2	261.9	277.4	308.1
870	103.2	108.0	112.7	122.2	131.5	140.8	150.0	159.1	177.3	195.1	212.8	230.2	247.4	264.5	281.3	298.0	330.7
1000	116.2	121.6	127.0	137.6	148.2	158.6	169.0	179.3	199.7	219.8	239.7	259.2	278.6	297.7	316.5	335.1	371.6
1160	131.8	137.9	144.0	156.1	168.1	180.0	191.8	203.5	226.6	249.3	271.8	293.8	315.6	337.1	358.1	379.0	419.6
1200	135.6	141.9	148.2	160.6	173.0	185.2	197.4	209.4	233.2	256.6	279.6	302.3	324.7	346.7	368.3	389.6	431.2
+1400	154.3	161.5	168.7	182.9	197.0	210.9	224.7	238.4	265.4	291.9	317.9	343.5	368.6	393.2	417.4	441.1	487.1
+1600	172.5 185.7	180.5 194.4	188.5 203.0	204.4	220.1	235.7	251.1	266.4	296.4	325.8 350.3	354.6	382.8 411.0	410.4 440.3	437.4	463.7	489.4	538.9
+1750 +2000	207.1	216.8	203.0	220.1 245.5	237.0 264.3	253.8 282.9	270.3 301.3	286.7 319.4	318.9 354.9	389.5	381.0 423.1	455.8	440.3	468.8 518.1	496.6 547.7	523.5	575.1
+2400	239.7	250.9	262.0	284.0	305.7	327.0	348.0			447.7	485.1	521.0	407.4	516.1	547.7		
+2400	270.4	283.1	295.5	320.2	344.4	368.1	348.0	368.7 414.1	408.9 458.1	500.1	400.1	5∠1.0					
+3200	299.3	313.2	326.9	353.9	380.2	406.0	431.1	455.5	502.4	300.1							
+3600	326.3	341.3	356.1	385.1	413.3	440.6	467.1	400.0	302.4								
+4000	351.4	367.4	383.1	413.7	443.3	471.9	407.1										
+4000	JU 1.4	307.4	J0J. I	413.7	443.3	4/1.9											

^{*} Refer to Page 15 for additional Service Factors for speeds of 600 rpm or less.

Corrected Horsepower Rating = [Base Rating] × [Belt Length Correction Factor]

⁺ Drives within this speed range may generate an objectionable noise level. This can be reduced by using commercially available acoustical damping material in the belt guard. Contact Gates for recommendations on any drive to be installed in a noise sensitive area.

14M PowerGrip® GT®2 Power Rating Table — 170mm Belt Width

RPM of							ver for Small S Pitch Diamete					
Faster Shaft	36 6.316	38 6.667	40 7.018	44 7.720	48 8.421	52 9.123	56 9.825	60 10.527	64 11.229	68 11.930	72 12.632	80 14.036
*10	3.94	4.19	4.43	4.91	5.39	5.87	6.35	6.82	7.29	7.76	8.22	9.15
*20	7.43	7.89	8.35	9.27	10.2	11.1	12.0	12.9	13.8	14.6	15.5	17.3
*40	13.9	14.8	15.7	17.4	19.1	20.8	22.5	24.2	25.9	27.6	29.2	32.5
*60	20.1	21.4	22.6	25.1	27.6	30.1	32.6	35.0	37.4	39.8	42.2	47.0
*100	31.8	33.8	35.9	39.8	43.8	47.7	51.6	55.5	59.4	63.2	67.0	74.5
*200	59.1	62.8	66.6	74.1	81.5	88.8	96.1	103.4	110.5	117.7	124.8	138.8
*300	84.6	90.0	95.4	106.2	116.8	127.4	137.9	148.3	158.6	168.8	179.0	199.1
*400	108.9	116.0	123.0	136.9	150.6	164.3	177.8	191.2	204.5	217.7	230.8	256.8
*500	132.4	141.0	149.6	166.5	183.3	199.9	216.3	232.7	248.8	264.8	280.8	312.2
*600	155.2	165.3	175.4	195.3	214.9	234.4	253.7	272.8	291.8	310.5	329.1	365.9
800	199.1	212.1	225.0	250.6	275.9	300.9	325.6	350.0	374.2	398.0	421.7	468.3
870	214.0	228.0	241.9	269.4	296.6	323.4	349.9	376.1	402.0	427.6	452.9	502.7
1000	241.1	256.9	272.6	303.6	334.1	364.3	394.1	423.4	452.4	481.0	509.3	564.8
1160	273.6	291.5	309.3	344.4	379.0	413.1	446.7	479.7	512.3	544.4	576.0	637.8
+1200	281.6	300.0	318.3	354.4	390.0	425.0	459.5	493.5	526.9	559.8	592.2	655.5
+1400	320.6	341.6	362.4	403.4	443.6	483.2	522.1	560.2	597.7	634.4	670.4	740.4
+1600	358.3	381.7	404.9	450.5	495.2	539.0	581.8	623.8	664.8	704.8	743.9	819.2
+1750	385.8	410.9	435.8	484.7	532.5	579.2	624.8	669.3	712.6	754.8	795.8	874.2
+2000	430.0	457.9	485.5	539.5	592.0	643.1	692.8	740.9	787.5	832.4		
+2400	497.1	529.0	560.3	621.5	680.5	737.3	791.9					
+2800	559.5	594.8	629.4	696.3	760.1							
+3200	617.1	655.2	692.4	763.6								
+3600	669.7	710.0										
+4000	717.3											

^{*} Refer to Page 15 for additional Service Factors for speeds of 600 rpm or less.

Corrected Horsepower Rating = [Base Rating] × [Belt Length Correction Factor]

14M PowerGrip GT2 Belt Length Correction Factor Table

Pitch/Length Designation	No. of Teeth	Correction Factor									
966-14MGT	69	0.80	1890-14MGT	135	0.95	2800-14MGT	200	1.05	4326-14MGT	309	1.10
1190-14MGT	85	0.80	2100-14MGT	150	1.00	3150-14MGT	225	1.05	4578-14MGT	327	1.10
1400-14MGT	100	0.90	2310-14MGT	165	1.00	3360-14MGT	240	1.10	4956-14MGT	354	1.10
1610-14MGT	115	0.90	2450-14MGT	175	1.00	3500-14MGT	250	1.10	5320-14MGT	380	1.10
1778-14MGT	127	0.95	2590-14MGT	185	1.05	3850-14MGT	275	1.10	5740-14MGT	410	1.10

⁺ Drives within this speed range may generate an objectionable noise level. This can be reduced by using commercially available acoustical damping material in the belt guard. Contact Gates for recommendations on any drive to be installed in a noise sensitive area.

	Pulley Con	nbinations	3								_								
Dri	iveR	Dri	veN								Center	Distance,	Inches						
No. of grooves	Pitch Diameter (inches)	No. of grooves	Pitch Diameter (inches)	Speed Ratio	2000-20M P.L. 78.740 100 teeth	2500-20M P.L. 98.425 125 teeth	3400-20M P.L. 133.858 170 teeth	3800-20M P.L. 149.606 190 teeth	4200-20M P.L. 165.354 210 teeth	4600-20M P.L. 181.102 230 teeth	5000-20M P.L. 196.850 250 teeth	5200-20M P.L. 204.724 260 teeth	5400-20M P.L. 212.598 270 teeth	5600-20M P.L. 220.472 280 teeth	5800-20M P.L. 228.346 290 teeth	6000-20M P.L. 236.220 300 teeth	6200-20M P.L. 244.094 310 teeth	6400-20M P.L. 251.969 320 teeth	6600-20M P.L. 259.843 330 teeth
34	8.522	34	8.522	1.000	25.98	35.83	53.54	61.42	69.29	77.16	85.04	88.98	92.91	96.85	100.79	104.72	108.66	112.60	116.54
36	9.023	36	9.023	1.000	25.20	35.04	52.76	60.63	68.50	76.38	84.25	88.19	92.13	96.06	100.00	103.94	107.87	111.81	115.75
38	9.524	38	9.524	1.000	24.41	34.25	51.97	59.84	67.72	75.59	83.46	87.40	91.34	95.28	99.21	103.15	107.09	111.02	114.96
40 44	10.025 11.028	40 44	10.025 11.028	1.000 1.000	23.62 22.05	33.47 31.89	51.18 49.61	59.06 57.48	66.93 65.35	74.80 73.23	82.68 81.10	86.61 85.04	90.55 88.98	94.49 92.91	98.43 96.85	102.36 100.79	106.30 104.72	110.24 108.66	114.17 112.60
48	12.031	48	12.031	1.000	20.47	30.31	48.03	55.90	63.78	71.65	79.53	83.46	87.40	91.34	95.27	99.21	104.72	107.09	111.02
52	13.033	52	13.033	1.000	18.90	28.74	46.46	54.33	62.20	70.08	77.95	81.89	85.83	89.76	93.70	97.64	103.13	105.51	109.45
56	14.036	56	14.036	1.000	17.32	27.16	44.88	52.76	60.63	68.50	76.38	80.31	84.25	88.19	92.13	96.06	100.00	103.94	107.87
60	15.038	60	15.038	1.000		25.59	43.31	51.18	59.06	66.93	74.80	78.74	82.68	86.61	90.55	94.49	98.43	102.36	106.30
64	16.041	64	16.041	1.000		24.02	41.73	49.61	57.48	65.35	73.23	77.16	81.10	85.04	88.98	92.91	96.85	100.79	104.72
68	17.043	68	17.043	1.000		22.44	40.16	48.03	55.91	63.78	71.65	75.59	79.53	83.46	87.40	91.34	95.28	99.21	103.15
72	18.046	72	18.046	1.000		20.87	38.58	46.46	54.33	62.20	70.08	74.02	77.95	81.89	85.83	89.76	93.70	97.64	101.57
80	20.051	80	20.051	1.000			35.43	43.31	51.18	59.05	66.93	70.87	74.80	78.74	82.68	86.61	90.55	94.49	98.43 94.49
90 38	22.557 9.524	90 40	22.557 10.025	1.000 1.053	24.01	33.86	31.50 51.57	39.37 59.45	47.24 67.32	55.12 75.20	62.99 83.07	66.93 87.01	70.87 90.94	74.80 94.88	78.74 98.82	82.68 102.76	86.61 106.69	90.55 110.63	114.57
36	9.023	38	9.524	1.056	24.01	34.64	52.36	60.24	68.11	75.20	83.86	87.79	91.73	95.67	99.61	102.76	100.09	111.42	115.35
34	8.522	36	9.023	1.059	25.59	35.43	53.15	61.02	68.90	76.77	84.64	88.58	92.52	96.46	100.39	104.33	108.27	112.20	116.14
68	17.043	72	18.046	1.059	20.00	21.65	39.37	47.24	55.12	62.99	70.86	74.80	78.74	82.68	86.61	90.55	94.49	98.42	102.36
64	16.041	68	17.043	1.063		23.22	40.94	48.82	56.69	64.56	72.44	76.38	80.31	84.25	88.19	92.12	96.06	100.00	103.94
60	15.038	64	16.041	1.067		24.80	42.52	50.39	58.27	66.14	74.01	77.95	81.89	85.83	89.76	93.70	97.64	101.57	105.51
56	14.036	60	15.038	1.071	16.53	26.37	44.09	51.97	59.84	67.71	75.59	79.53	83.46	87.40	91.34	95.27	99.21	103.15	107.09
52	13.033	56	14.036	1.077	18.10	27.95	45.67	53.54	61.42	69.29	77.16	81.10	85.04	88.97	92.91	96.85	100.79	104.72	108.66
48 44	12.031 11.028	52 48	13.033 12.031	1.083	19.68 21.25	29.52 31.10	47.24 48.82	55.12 56.69	62.99 64.56	70.86	78.74	82.68 84.25	86.61	90.55 92.12	94.49 96.06	98.42	102.36 103.94	106.30	110.24
44	10.025	48	11.028	1.091 1.100	22.83	31.10	50.39	58.27	66.14	72.44 74.01	80.31 81.89	85.83	88.19 89.76	93.70	96.06	100.00 101.57	103.94	107.87 109.45	111.81 113.39
36	9.023	40	10.025	1.111	24.40	34.25	51.97	59.84	67.71	75.59	83.46	87.40	91.34	95.27	99.21	103.15	107.09	111.02	114.96
72	18.046	80	20.051	1.111	21.10	01.20	36.99	44.87	52.75	60.62	68.50	72.43	76.37	80.31	84.25	88.18	92.12	96.06	100.00
34	8.522	38	9.524	1.118	25.19	35.04	52.75	60.63	68.50	76.38	84.25	88.19	92.12	96.06	100.00	103.94	107.87	111.81	115.75
64	16.041	72	18.046	1.125		22.42	40.14	48.02	55.90	63.77	71.65	75.58	79.52	83.46	87.40	91.33	95.27	99.21	103.14
80	20.051	90	22.557	1.125			33.44	41.32	49.20	57.07	64.95	68.89	72.82	76.76	80.70	84.64	88.57	92.51	96.45
60	15.038	68	17.043	1.133		24.00	41.72	49.60	57.47	65.35	73.22	77.16	81.10	85.03	88.97	92.91	96.85	100.78	104.72
56 52	14.036 13.033	64 60	16.041 15.038	1.143 1.154	17.29	25.57 27.15	43.29 44.87	51.17 52.75	59.05 60.62	66.92 68.50	74.80 76.37	78.73 80.31	82.67 84.25	86.61 88.18	90.55 92.12	94.48 96.06	98.42 100.00	102.36 103.93	106.29 107.87
38	9.524	44	11.028	1.154	23.22	33.06	50.78	58.66	66.53	74.41	82.28	86.22	90.15	94.09	98.03	101.97	105.90	103.93	113.78
48	12.031	56	14.036	1.167	18.87	28.72	46.45	54.32	62.20	70.07	77.95	81.88	85.82	89.76	93.69	97.63	103.90	105.51	109.44
34	8.522	40	10.025	1.176	24.79	34.64	52.36	60.23	68.11	75.98	83.85	87.79	91.73	95.67	99.60	103.54	107.48	111.42	115.35
68	17.043	80	20.051	1.176		20.02	37.77	45.64	53.52	61.40	69.28	73.21	77.15	81.09	85.03	88.96	92.90	96.84	100.78
44	11.028	52	13.033	1.182	20.45	30.30	48.02	55.90	63.77	71.65	79.52	83.46	87.40	91.33	95.27	99.21	103.14	107.08	111.02
40	10.025	48	12.031	1.200	22.02	31.87	49.60	57.47	65.35	73.22	81.10	85.03	88.97	92.91	96.85	100.78	104.72	108.66	112.59
60	15.038	72	18.046	1.200		23.18	40.92	48.80	56.67	64.55	72.43	76.36	80.30	84.24	88.18	92.11	96.05	99.99	103.93
56 36	14.036 9.023	68 44	17.043 11.028	1.214 1.222	23.60	24.76 33.45	42.49 51.17	50.37 59.05	58.25 66.92	66.12 74.80	74.00 82.67	77.94 86.61	81.88 90.55	85.81 94.48	89.75 98.42	93.69 102.36	97.63 106.29	101.56 110.23	105.50 114.17
52	13.033	44 64	16.041	1.222	23.60 16.47	26.33	44.07	59.05	59.82	67.70	82.67 75.58	79.51	90.55 83.45	94.48 87.39	98.42	95.26	99.20	103.14	107.08
90	22.557	112	28.071	1.244	10.47	20.00	27.03	34.93	42.83	50.71	58.60	62.54	66.48	70.42	74.36	78.30	82.24	86.18	90.12
				1.2.17	0.80	0.85	.095	0 1.00	1.0	00.71	00.00	1.0		70.72	, 1.50	, 0.00	1.1	00.10	00.12
	Length Factor*		UI		0.00	บ.อง	.บซอ		1.0			1.0	UJ				1.1		

^{*}This length factor must be used to determine the proper belt width.

20mm Pitch PowerGrip® GT®2 Belts — (continued)

		Pulley Con	nbinations	;		_														
		veR		veN								Center I	Distance,	Inches						
	lo. of ooves	Pitch Diameter (inches)	No. of grooves	Pitch Diameter (inches)	Speed Ratio	2000-20M P.L. 78.740 100 teeth	2500-20M P.L. 98.425 125 teeth	3400-20M P.L. 133.858 170 teeth	3800-20M P.L. 149.606 190 teeth	4200-20M P.L. 165.354 210 teeth	4600-20M P.L. 181.102 230 teeth	5000-20M P.L. 196.850 250 teeth	5200-20M P.L. 204.724 260 teeth	5400-20M P.L. 212.598 270 teeth	5600-20M P.L. 220.472 280 teeth	5800-20M P.L. 228.346 290 teeth	6000-20M P.L. 236.220 300 teeth	6200-20M P.L. 244.094 310 teeth	6400-20M P.L. 251.969 320 teeth	6600-20M P.L. 259.843 330 teeth
	48	12.031	60	15.038	1.250	18.05	27.91	45.64	53.52	61.40	69.27	77.15	81.09	85.03	88.96	92.90	96.84	100.78	104.71	108.65
	64	16.041	80	20.051	1.250		20.77	38.53	46.41	54.29	62.17	70.05	73.99	77.93	81.86	85.80	89.74	93.68	97.62	101.56
	72 38	18.046 9.524	90 48	22.557 12.031	1.250 1.263	22.41	32.26	34.97 49.98	42.85 57.86	50.74 65.74	58.62 73.61	66.50 81.49	70.44 85.42	74.38 89.36	78.31 93.30	82.25 97.24	86.19 101.17	90.13 105.11	94.07 109.05	98.01 112.99
\vdash	44	11.028	56	14.036	1.273	19.63	29.49	47.22	55.10	62.97	70.85	78.73	82.66	86.60	90.54	94.48	98.41	102.35	106.29	110.23
	56	14.036	72	18.046	1.286	10.00	23.93	41.68	49.57	57.44	65.32	73.20	77.14	81.08	85.02	88.95	92.89	96.83	100.77	104.71
VI.	34	8.522	44	11.028	1.294	23.98	33.83	51.56	59.44	67.31	75.19	83.06	87.00	90.94	94.87	98.81	102.75	106.69	110.62	114.56
∟(و	40	10.025	52	13.033	1.300	21.21	31.07	48.80	56.67	64.55	72.43	80.30	84.24	88.18	92.11	96.05	99.99	103.93	107.86	111.80
7	52 68	13.033 17.043	68 90	17.043 22.557	1.308 1.324		25.51	43.26 35.72	51.14 43.61	59.02 51.50	66.90 59.39	74.78 67.27	78.71 71.21	82.65 75.15	86.59 79.09	90.53 83.03	94.47 86.96	98.40 90.90	102.34 94.84	106.28 98.78
	36	9.023	48	12.031	1.333	22.78	32.64	50.37	58.25	66.12	74.00	81.88	85.81	89.75	93.69	97.63	101.56	105.50	109.44	113.38
	48	12.031	64	16.041	1.333	17.21	27.09	44.84	52.72	60.60	68.47	76.35	80.29	84.23	88.17	92.10	96.04	99.98	103.92	107.86
	60	15.038	80	20.051	1.333		21.51	39.29	47.18	55.06	62.94	70.82	74.76	78.70	82.64	86.58	90.52	94.45	98.39	102.33
	44	11.028	60	15.038	1.364	18.79	28.67	46.41	54.29	62.17	70.05	77.93	81.87	85.80	89.74	93.68	97.62	101.56	105.49	109.43
	38	9.524	52	13.033	1.368	21.58	31.45	49.18	57.06	64.94	72.81	80.69	84.63	88.57	92.50	96.44 89.73	100.38	104.32	108.25	112.19
\vdash	52 40	13.033 10.025	72 56	18.046 14.036	1.385 1.400	20.37	24.68 30.25	42.45 47.99	50.33 55.87	58.21 63.75	66.09 71.63	73.97 79.50	77.91 83.44	81.85 87.38	85.79 91.32	95.25	93.67 99.19	97.61 103.13	101.54 107.07	105.48 111.01
	80	20.051	112	28.071	1.400	20.01	30.23	28.85	36.79	44.70	52.60	60.50	64.44	68.39	72.33	76.27	80.21	84.16	88.10	92.04
	64	16.041	90	22.557	1.406			36.47	44.37	52.26	60.15	68.03	71.97	75.91	79.85	83.79	87.73	91.67	95.61	99.55
L	34	8.522	48	12.031	1.412	23.16	33.02	50.76	58.63	66.51	74.39	82.26	86.20	90.14	94.08	98.02	101.95	105.89	109.83	113.77
	48	12.031	68	17.043	1.417	16.34	26.26	44.02	51.91	59.79	67.67	75.55	79.49	83.43	87.37	91.30	95.24	99.18	103.12	107.06
	56	14.036	80	20.051	1.429	04.00	22.24	40.04	47.94	55.82	63.71	71.59	75.53	79.47	83.41 92.89	87.35	91.29	95.23	99.17	103.11
	36 44	9.023 11.028	52 64	13.033 16.041	1.444 1.455	21.96 17.93	31.83 27.84	49.57 45.60	57.45 53.48	65.32 61.37	73.20 69.25	81.08 77.12	85.02 81.06	88.95 85.00	92.89 88.94	96.83 92.88	100.77 96.82	104.71 100.76	108.64 104.69	112.58 108.63
\vdash	38	9.524	56	14.036	1.474	20.74	30.63	48.37	56.25	64.13	72.01	79.89	83.83	87.77	91.70	95.64	99.58	103.52	107.46	111.39
	40	10.025	60	15.038	1.500	19.52	29.42	47.18	55.06	62.94	70.82	78.70	82.64	86.58	90.52	94.46	98.39	102.33	106.27	110.21
	48	12.031	72	18.046	1.500		25.41	43.20	51.09	58.98	66.86	74.74	78.68	82.62	86.56	90.50	94.44	98.38	102.32	106.26
\vdash	60	15.038	90	22.557	1.500	00.00	00.00	37.21	45.12	53.02	60.91	68.80	72.74	76.68	80.62	84.56	88.50	92.44	96.38	100.32
	34 52	8.522 13.033	52 80	13.033 20.051	1.529 1.538	22.33	32.20 22.96	49.95 40.79	57.83 48.69	65.71 56.58	73.59 64.47	81.46 72.36	85.40 76.30	89.34 80.24	93.28 84.18	97.22 88.12	101.16 92.06	105.09 96.00	109.03 99.94	112.97 103.88
	44	11.028	68	17.043	1.545	17.06	27.00	44.78	52.67	60.56	68.44	76.32	80.26	84.20	88.14	92.08	96.02	99.95	103.89	103.00
	36	9.023	56	14.036	1.556	21.11	31.00	48.75	56.64	64.52	72.40	80.28	84.21	88.15	92.09	96.03	99.97	103.91	107.84	111.78
	72	18.046	112	28.071	1.556			30.29	38.25	46.18	54.10	62.00	65.95	69.90	73.85	77.79	81.74	85.68	89.62	93.57
	38	9.524	60	15.038	1.579	19.89	29.79	47.56	55.44	63.33	71.21	79.09	83.03	86.96	90.90	94.84	98.78	102.72	106.66	110.60
	40 90	10.025 22.557	64 144	16.041 36.092	1.600 1.600	18.65	28.58	46.36	54.25	62.13 35.98	70.01 43.97	77.89 51.92	81.83 55.89	85.77 59.85	89.71 63.81	93.65 67.77	97.59 71.73	101.53 75.68	105.47 79.63	109.41 83.58
\vdash	56	14.036	90	22.557	1.607		20.02	37.95	45.86	53.77	61.66	69.55	73.50	77.44	81.38	85.33	89.27	93.21	97.15	101.09
	44	11.028	72	18.046	1.636	16.15	26.14	43.95	51.85	59.74	67.63	75.51	79.45	83.39	87.33	91.27	95.21	99.15	103.09	107.03
	34	8.522	56	14.036	1.647	21.48	31.37	49.13	57.02	64.90	72.78	80.66	84.60	88.54	92.48	96.42	100.36	104.29	108.23	112.17
L	68	17.043	112	28.071	1.647			31.00	38.98	46.92	54.84	62.75	66.70	70.65	74.60	78.55	82.49	86.44	90.38	94.33
	36	9.023	60	15.038	1.667	20.25	30.16	47.94	55.82	63.71	71.59	79.47	83.41	87.35	91.29	95.23	99.17	103.11	107.04	110.98
	48 38	12.031 9.524	80 64	20.051 16.041	1.667 1.684	19.01	23.67 28.95	41.54 46.74	49.44 54.63	57.34 62.51	65.23 70.40	73.12 78.28	77.06 82.22	81.00 86.16	84.94 90.10	88.89 94.04	92.83 97.98	96.77 101.92	100.71 105.86	104.65 109.79
	40	10.025	68	17.043	1.700	17.76	27.73	45.53	53.43	61.32	69.20	77.09	81.03	84.97	88.91	94.04	96.79	101.92	103.60	109.79
┢			ngth Fact			0.80	0.85	.095	555	1.0	55.20	50	1.0		55.51	02.50	000	1.1		

20mm Pitch PowerGrip® GT®2 Belts — (continued)

	Pulley Com	binations																	
D	riveR	Driv	reN								Center	Distance,	Inches						
No. of grooves	Pitch Diameter (inches)	grooves	Pitch Diameter (inches)	Speed Ratio	2000-20M P.L. 78.740 100 teeth	2500-20M P.L. 98.425 125 teeth	3400-20M P.L. 133.858 170 teeth	3800-20M P.L. 149.606 190 teeth	4200-20M P.L. 165.354 210 teeth	4600-20M P.L. 181.102 230 teeth	5000-20M P.L. 196.850 250 teeth	5200-20M P.L. 204,724 260 teeth	5400-20M P.L. 212.598 270 teeth	5600-20M P.L. 220.472 280 teeth	5800-20M P.L. 228.346 290 teeth	6000-20M P.L. 236.220 300 teeth	6200-20M P.L. 244.094 310 teeth	6400-20M P.L. 251.969 320 teeth	6600-20M P.L. 259.843 330 teeth
52 64 34 36	13.033 16.041 8.522 9.023	90 112 60 64	22.557 28.071 15.038 16.041	1.731 1.750 1.765 1.778	20.61 19.37	20.71 30.53 29.32	38.68 31.71 48.32 47.11	46.61 39.70 56.20 55.01	54.52 47.65 64.09 62.89	62.42 55.58 71.97 70.78	70.31 63.49 79.85 78.66	74.26 67.45 83.79 82.60	78.20 71.40 87.73 86.54	82.15 75.35 91.67 90.48	86.09 79.30 95.61 94.42	90.03 83.25 99.55 98.36	93.97 87.19 103.49 102.30	97.92 91.14 107.43 106.24	101.86 95.09 111.37 110.18
38 40 80 44	9.524 10.025 20.051 11.028	68 72 144 80	17.043 18.046 36.092 20.051	1.789 1.800 1.800 1.818	18.11 16.84	28.09 26.87 24.38	45.91 44.70 42.28	53.81 52.60 29.62 50.19	61.70 60.50 37.73 58.09	69.58 68.39 45.75 65.99	77.47 76.27 53.73 73.88	81.41 80.21 57.71 77.82	85.35 84.16 61.68 81.77	89.29 88.10 65.65 85.71	93.23 92.04 69.62 89.65	97.17 95.98 73.58 93.59	101.11 99.92 77.54 97.53	105.05 103.86 81.49 101.47	108.99 107.80 85.45 105.42
60 90 48 34	15.038 22.557 12.031 8.522	112 168 90 64	28.071 42.107 22.557 16.041	1.867 1.867 1.875 1.882	19.72	21.40 29.68	32.41 39.41 47.49	40.42 47.34 55.38	48.38 55.26 63.27	56.32 38.52 63.17 71.16	64.24 46.61 71.06 79.04	68.19 50.63 75.01 82.99	72.15 54.64 78.96 86.93	76.10 58.63 82.90 90.87	80.05 62.62 86.85 94.81	84.00 66.60 90.79 98.75	87.95 70.58 94.74 102.69	91.90 74.56 98.68 106.63	95.84 78.53 102.62 110.57
36 38 34 36	9.023 9.524 8.522 9.023	68 72 68 72	17.043 18.046 17.043 18.046	1.889 1.895 2.000 2.000	18.46 17.19 18.81 17.53	28.46 27.22 28.82 27.58	46.28 45.07 46.66 45.44	54.18 52.98 54.56 53.35	62.08 60.87 62.45 61.25	69.96 68.77 70.34 69.14	77.85 76.65 78.23 77.03	81.79 80.60 82.17 80.98	85.73 84.54 86.11 84.92	89.67 88.48 90.06 88.86	93.61 92.42 94.00 92.80	97.56 96.36 97.94 96.74	101.50 100.30 101.88 100.69	105.44 104.24 105.82 104.63	109.38 108.18 109.76 108.57
40 56 72 44	10.025 14.036 18.046 11.028	80 112 144 90	20.051 28.071 36.092 22.557	2.000 2.000 2.000 2.045	17.50	25.09	43.01 33.11 40.14	50.93 41.13 30.96 48.08	58.84 49.10 39.11 56.00	66.74 57.05 47.17 63.91	74.63 64.97 55.17 71.82	78.58 68.93 59.15 75.77	82.53 72.89 63.13 79.71	86.47 76.84 67.11 83.66	90.41 80.80 71.08 87.61	94.36 84.75 75.05 91.55	98.30 88.70 79.01 95.50	102.24 92.65 82.97 99.44	106.18 96.60 86.93 103.38
80 38 34 68	20.051 9.524 8.522 17.043	168 80 72 144	42.107 20.051 18.046 36.092	2.100 2.105 2.118 2.118	17.87	25.44 27.94	43.38 45.81	51.30 53.73 31.63	31.93 59.21 61.63 39.80	40.21 67.12 69.52 47.87	48.34 75.01 77.41 55.88	52.38 78.96 81.36 59.87	56.40 82.90 85.30 63.86	60.41 86.85 89.24 67.83	64.41 90.79 93.18 71.81	68.40 94.74 97.13 75.78	72.39 98.68 101.07 79.75	76.37 102.62 105.01 83.71	80.34 106.56 108.95 87.67
90 52 36 40	22.557 13.033 9.023 10.025	192 112 80 90	48.122 28.071 20.051 22.557	2.133 2.154 2.222 2.250		25.79 22.75	33.81 43.75 40.86	41.84 51.67 48.81	49.83 59.59 56.74	57.78 67.49 64.66	40.90 65.71 75.39 72.56	45.02 69.67 79.34 76.52	49.11 73.63 83.28 80.47	53.18 77.59 87.23 84.41	57.23 81.54 91.17 88.36	61.26 85.50 95.12 92.31	65.28 89.45 99.06 96.25	69.29 93.40 103.00 100.20	73.29 97.35 106.94 104.14
64 48 72 34	16.041 12.031 18.046 8.522	144 112 168 80	36.092 28.071 42.107 20.051	2.250 2.333 2.333 2.353	15.87	26.13	34.50 44.11	32.29 42.55 52.04	40.48 50.54 33.23 59.96	48.57 58.50 41.55 67.86	56.59 66.44 49.72 75.76	60.59 70.41 53.77 79.71	64.57 74.37 57.80 83.66	68.56 78.33 61.82 87.61	72.53 82.29 65.83 91.55	76.51 86.24 69.83 95.49	80.48 90.19 73.82 99.44	84.44 94.15 77.81 103.38	88.41 98.10 81.79 107.33
38 60 80 90	9.524 15.038 20.051 22.557	90 144 192 216	22.557 36.092 48.122 54.138	2.368 2.400 2.400 2.400		23.09	41.22	49.17 32.95	57.11 41.17	65.03 49.26	72.94 57.30 42.55	76.89 61.30 46.69	80.84 65.29 50.80 43.14	84.79 69.28 54.89 47.34	88.74 73.26 58.95 51.50	92.68 77.23 63.00 55.62	96.63 81.21 67.03 59.71	100.58 85.18 71.05 63.78	104.52 89.14 75.06 67.84
68 36 44 56	17.043 9.023 11.028 14.036	168 90 112 144	42.107 22.557 28.071 36.092	2.471 2.500 2.545 2.571		23.43	41.57 35.18	49.54 43.25 33.61	33.88 57.48 51.26 41.84	42.22 65.40 59.23 49.96	50.40 73.31 67.18 58.00	54.46 77.26 71.14 62.01	58.50 81.21 75.11 66.01	62.52 85.16 79.07 70.00	66.53 89.11 83.03 73.98	70.54 93.06 86.98 77.96	74.53 97.01 90.94 81.93	78.53 100.95 94.89 85.91	82.51 104.90 98.85 89.87
64 34 72 80	16.041 8.522 18.046 20.051	168 90 192 216	42.107 22.557 48.122 54.138	2.625 2.647 2.667 2.700		23.76	41.93	49.90	34.52 57.84	42.89 65.77 35.33	51.08 73.68 43.85	55.15 77.64 48.02 40.45	59.19 81.59 52.15 44.74	63.22 85.54 56.25 48.97	67.24 89.49 60.32 53.15	71.25 93.44 64.38 57.29	75.25 97.38 68.42 61.40	79.24 101.33 72.45 65.49	83.23 105.28 76.47 69.55
	Len	gth Facto	r*		0.80	0.85	.095		1.0			1.0)5				1.1		

^{*}This length factor must be used to determine the proper belt width.

Center Distance is greater than eight times the small diameter and the large sprocket is not flanged. See Engineering Section I-10, Use of Flanged Sprockets, on page 134.

The Driving Force in Power Transmission.

20mm Pitch PowerGrip® GT®2 Belts — (continued)

		Pulley Con	nbinations	3								0	D' - L	1						
	Dri	veR	Dri	veN								Center	Distance,	inches						
	No. of grooves	Pitch Diameter (inches)	No. of grooves	Pitch Diameter (inches)	Speed Ratio	2000-20M P.L. 78.740 100 teeth	2500-20M P.L. 98.425 125 teeth	3400-20M P.L. 133.858 170 teeth	3800-20M P.L. 149.606 190 teeth	4200-20M P.L. 165.354 210 teeth	4600-20M P.L. 181.102 230 teeth	5000-20M P.L. 196.850 250 teeth	5200-20M P.L. 204.724 260 teeth	5400-20M P.L. 212.598 270 teeth	5600-20M P.L. 220.472 280 teeth	5800-20M P.L. 228.346 290 teeth	6000-20M P.L. 236.220 300 teeth	6200-20M P.L. 244.094 310 teeth	6400-20M P.L. 251.969 320 teeth	6600-20M P.L. 259.843 330 teeth
ſ	52	13.033	144	36.092	2.769			25.72	34.26	42.52	50.65	58.71	62.72	66.72	70.71	74.70	78.68	82.66	86.63	90.60
	40	10.025	112	28.071	2.800			35.87	43.95	51.97	59.95	67.90	71.87	75.84	79.80	83.77	87.73	91.68	95.64	99.59
	60	15.038	168	42.107	2.800					35.16	43.55	51.76	55.83	59.88	63.92	67.94	71.95	75.96	79.95	83.95
⊢	68 38	17.043 9.524	192 112	48.122 28.071	2.824 2.947			36.21	44.30	52.33	35.96 60.31	44.50 68.27	48.68 72.24	52.82 76.21	56.92 80.17	61.00 84.13	65.06 88.09	69.11 92.05	73.15 96.01	77.17 99.96
	30 48	12.031	144	36.092	3.000			26.33	34.91	43.19	51.34	59.41	63.42	67.43	71.42	75.42	79.40	83.38	87.36	99.96
	56	14.036	168	42.107	3.000			20.00	04.51	35.79	44.21	52.44	56.52	60.57	64.61	68.64	72.66	76.66	80.67	84.66
W L	64	16.041	192	48.122	3.000					555	36.58	45.15	49.34	53.48	57.59	61.68	65.75	69.80	73.84	77.87
91	72	18.046	216	54.138	3.000							37.27	41.70	46.02	50.27	54.46	58.62	62.74	66.84	70.92
	36	9.023	112	28.071	3.111			36.55	44.65	52.68	60.67	68.63	72.60	76.57	80.54	84.50	88.46	92.42	96.38	100.34
	68	17.043	216	54.138	3.176							37.88	42.32	46.66	50.91	55.12	59.28	63.41	67.52	71.60
! -	60	15.038	192 168	48.122	3.200					00.40	37.20	45.80	49.99	54.15	58.27	62.36	66.43	70.49	74.54	78.57
.	52 44	13.033 11.028	144	42.107 36.092	3.231 3.273			26.95	35.56	36.43 43.87	44.87 52.03	53.12 60.11	57.20 64.13	61.26 68.14	65.30 72.14	69.34 76.13	73.36 80.12	77.37 84.10	81.38 88.08	85.37 92.06
.	34	8.522	112	28.071	3.294			36.89	45.00	53.03	61.03	68.99	72.97	76.94	80.90	84.87	88.83	92.79	96.75	100.71
.	64	16.041	216	54.138	3.375			00.00	10.00	00.00	01.00	38.49	42.95	47.29	51.56	55.77	59.94	64.08	68.19	72.28
·	56	14.036	192	48.122	3.429						37.82	46.44	50.65	54.81	58.94	63.04	67.12	71.18	75.23	79.26
	48	12.031	168	42.107	3.500				28.16	37.06	45.52	53.79	57.88	61.94	66.00	70.03	74.06	78.07	82.08	86.08
ı	40	10.025	144	36.092	3.600			27.57	36.21	44.54	52.71	60.80	64.83	68.84	72.85	76.84	80.84	84.82	88.81	92.78
L	60	15.038	216	54.138	3.600						20.44	39.10	43.57	47.92	52.20	56.42	60.60	64.74	68.86	72.96
	52	13.033	192	48.122	3.692			07.07	00.50	44.07	38.44	47.09	51.30	55.47	59.60	63.71	67.80	71.86	75.92	79.96
٠	38 44	9.524 11.028	144 168	36.092 42.107	3.789 3.818			27.87	36.53 28.76	44.87 37.69	53.05 46.18	61.15 54.46	65.18 58.56	69.19 62.63	73.20 66.68	77.20 70.73	81.19 74.76	85.18 78.78	89.17 82.79	93.15 86.79
.	56	14.036	216	54.138	3.857				20.70	37.09	40.10	39.70	44.19	48.55	52.84	57.07	61.25	65.41	69.53	73.63
' F	36	9.023	144	36.092	4.000			28.18	36.86	45.20	53.39	61.50	65.53	69.54	73.55	77.56	81.55	85.54	89.53	93.51
	48	12.031	192	48.122	4.000						39.06	47.73	51.95	56.13	60.27	64.38	68.47	72.55	76.60	80.65
.	52	13.033	216	54.138	4.154							40.31	44.80	49.18	53.48	57.72	61.91	66.07	70.20	74.30
╵┟	40	10.025	168	42.107	4.200				29.36	38.32	46.83	55.13	59.23	63.31	67.37	71.42	75.45	79.48	83.49	87.50
	34	8.522 11.028	144 192	36.092 48.122	4.235 4.364			28.48	37.18	45.53	53.73	61.84 48.37	65.87	69.90	73.91	77.91	81.91	85.90	89.89 77.29	93.87 81.34
	44 38	9.524	168	48.122	4.364				29.65	30.35 38.64	39.67 47.16	48.37 55.46	52.60 59.57	56.79 63.65	60.93 67.72	65.05 71.76	69.15 75.80	73.23 79.83	83.85	81.34 87.86
.	48	12.031	216	54.138	4.500				29.00	30.04	47.10	40.91	45.42	49.81	54.12	58.36	62.56	66.73	70.86	74.98
F	36	9.023	168	42.107	4.667				29.95	38.95	47.48	55.80	59.91	63.99	68.06	72.11	76.15	80.18	84.20	88.21
·	40	10.025	192	48.122	4.800					30.93	40.29	49.01	53.25	57.44	61.60	65.72	69.83	73.91	77.98	82.03
	44	11.028	216	54.138	4.909							41.51	46.04	50.44	54.75	59.01	63.22	67.39	71.53	75.65
L	34	8.522	168	42.107	4.941				30.24	39.26	47.81	56.13	60.24	64.33	68.40	72.45	76.50	80.53	84.55	88.56
	38	9.524	192	48.122	5.053					31.22	40.60	49.32	53.57	57.77	61.93	66.06	70.16	74.25	78.32	82.38
	36	9.023 10.025	192 216	48.122 54.138	5.333 5.400					31.51	40.90	49.64	53.89	58.10	62.26 55.39	66.39	70.50	74.59	78.66	82.72 76.32
	40 34	8.522	192	48.122	5.647					31.80	41.21	42.11 49.96	46.65 54.22	51.06 58.42	62.59	59.65 66.73	63.87 70.84	68.05 74.93	72.19 79.00	83.06
┢	38	9.524	216	54.138	5.684					31.00	32.56	49.90	46.96	51.38	55.71	59.97	64.19	68.37	79.00	76.65
	36	9.023	216	54.138	6.000						32.84	42.71	47.26	51.69	56.02	60.30	64.52	68.70	72.86	76.99
	34	8.522	216	54.138	6.353						33.12	43.01	47.57	52.00	56.34	60.62	64.84	69.03	73.19	77.32
		Ler	igth Fact	or*		0.80	0.85	.095		1.0			1.0)5				1.1		

^{*}This length factor must be used to determine the proper belt width.

Center Distance is greater than eight times the small diameter and the large sprocket is not flanged. See Engineering Section I-10, Use of Flanged Sprockets, on page 134.

20M PowerGrip® GT®2 Power Rating Table — 115mm Belt Width

RPM of					(er For Smal Pitch Diam		:)				
Faster Shaft	34 8.522	36 9.023	38 9.524	40 10.026	44 11.028	48 12.031	52 13.033	56 14.036	60 15.038	64 16.041	68 17.043	72 18.046	80 20.051	90 22.557
*10	2.7	2.9	3.1	3.3	3.6	4.0	4.3	4.6	4.9	5.1	5.4	5.6	6.1	6.7
*20	5.4	5.8	6.1	6.5	7.3	7.9	8.6	9.2	9.8	10.3	10.8	11.3	12.3	13.5
*30	8.1	8.6	9.2	9.8	10.9	11.9	12.9	13.8	14.6	15.4	16.2	16.9	18.4	20.2
*40	10.7	11.5	12.3	13.0	14.5	15.8	17.1	18.5	19.5	20.6	21.6	22.6	24.5	26.9
*50	13.4	14.4	15.4	16.3	18.1	19.8	21.4	23.1	24.4	25.7	27.0	28.2	30.7	33.6
*60	16.1	17.3	18.4	19.6	21.8	23.7	25.7	27.7	29.3	30.8	32.4	33.9	36.8	40.3
*80	21.5	23.0	24.6	26.1	29.0	31.7	34.3	36.9	39.0	41.1	43.1	45.1	49.0	53.8
*100	26.9	28.8	30.7	32.6	36.3	39.6	42.9	46.1	48.8	51.4	53.9	56.4	61.3	67.2
*150	40.3	43.2	46.1	48.9	54.4	59.3	64.2	69.2	73.1	77.0	80.8	84.5	91.7	100.5
*200	53.7	57.5	61.4	65.2	72.4	79.0	85.6	92.1	97.4	102.5	107.5	112.4	122.1	133.7
*300	77.9	83.3	88.8	94.4	105.9	117.7	125.5	133.0	140.3	147.5	154.5	161.4	174.8	190.7
*400	98.0	104.7	111.6	118.5	132.8	147.4	156.9	165.9	174.8	183.4	191.8	200.0	215.7	234.2
*500	116.8	124.7	132.8	140.9	157.6	174.7	185.6	196.0	206.0	215.8	225.2	234.3	251.6	271.4
*600	134.5	143.5	152.6	161.8	180.7	199.9	212.0	223.4	234.3	244.8	254.9	264.5	282.5	302.4
730	155.9	166.1	176.5	187.0	208.3	229.9	243.0	255.3	266.9	277.9	288.2	297.9	315.2	333.1
800	166.8	177.6	188.5	199.6	222.0	244.7	258.3	270.8	282.5	293.5	303.7	313.1	329.3	344.9
870	177.2	188.6	200.1	211.7	235.1	258.7	272.5	285.1	296.8	307.6	317.4	326.2	340.8	353.3
970	191.4	203.5	215.6	227.9	252.5	277.2	291.1	303.5	314.8	324.9	333.7	341.3	352.6	
1170	217.3	230.4	243.6	256.7	283.0	308.8	321.9	332.9	342.0	349.3	354.6	358.0	358.4	
+1200	220.9	234.1	247.4	260.6	287.0	313.0	325.8	336.4	345.0	351.7	356.3	358.8	357.1	
+1460	248.9	262.8	276.5	290.0	316.5	341.6	350.8	356.6	359.2	358.6	354.4			
+1600	261.6	275.5	289.1	302.4	327.9	351.6	357.6	359.4	357.2					
+1750	273.4	287.0	300.2	312.9	336.7	357.7	359.4	355.8						
+2000	288.5	301.0	312.6	323.5	342.4	357.0								

20M PowerGrip GT2 Power Rating Table — 170mm Belt Width

RPM of		Base Rated Horsepower For Small Sprocket (Number of Grooves and Pitch Diameter, Inches)												
Faster Shaft	34 8.522	36 9.023	38 9.524	40 10.026	44 11.028	48 12.031	52 13.033	56 14.036	60 15.038	64 16.041	68 17.043	72 18.046	80 20.051	90 22.557
*10	4.2	4.5	4.8	5.1	5.6	6.1	6.7	7.2	7.6	8.0	8.4	8.8	9.5	10.4
*20	8.3	8.9	9.5	10.1	11.3	12.3	13.3	14.3	15.2	16.0	16.8	17.5	19.0	20.9
*30	12.5	13.4	14.3	15.2	16.9	18.4	20.0	21.5	22.7	23.9	25.1	26.3	28.6	31.3
*40	16.7	17.9	19.1	20.3	22.5	24.6	26.6	28.7	30.3	31.9	33.5	35.1	38.1	41.8
*50	20.9	22.4	23.9	25.3	28.2	30.7	33.3	35.8	37.9	39.9	41.9	43.8	47.6	52.2
*60	25.0	26.8	28.6	30.4	33.8	36.9	39.9	43.0	45.5	47.9	50.2	52.6	57.1	62.6
*80	33.4	35.8	38.2	40.5	45.0	49.2	53.2	57.3	60.6	63.8	67.0	70.1	76.1	83.5
*100	41.7	44.7	47.7	50.6	56.3	61.4	66.5	71.6	75.8	79.8	83.7	87.6	95.1	104.3
*150	62.5	67.0	71.5	75.9	84.4	92.1	99.8	107.4	113.6	119.5	125.4	131.2	142.5	156.1
*200	83.4	89.4	95.3	101.2	112.5	122.7	132.9	143.1	151.3	159.2	167.0	174.6	189.6	207.6
*300	120.9	129.3	137.8	146.6	164.4	182.8	194.9	206.5	217.9	229.1	240.0	250.7	271.5	296.4
*400	152.3	162.7	173.3	184.1	206.3	229.0	243.7	257.8	271.6	285.0	298.1	310.8	335.4	364.3
*500	181.5	193.8	206.3	218.9	244.9	271.5	288.4	304.6	320.2	335.4	350.1	364.3	391.3	422.5
*600	208.9	222.9	237.1	251.4	280.8	310.7	329.5	347.3	364.4	380.8	396.6	411.7	439.9	471.3
730	242.3	258.2	274.3	290.6	323.8	357.5	378.0	397.2	415.4	432.7	448.9	464.2	491.7	520.3
800	259.2	276.1	293.1	310.3	345.3	380.7	401.9	421.5	440.0	457.3	473.4	488.2	514.3	539.7
870	275.5	293.2	311.1	329.1	365.7	402.6	424.2	444.0	462.5	479.5	495.1	509.2	533.0	553.9
970	297.7	316.5	335.4	354.5	393.0	431.6	453.4	473.1	491.0	507.1	521.4	533.7	552.6	
1170	338.1	358.6	379.2	399.8	440.9	481.6	502.3	520.0	534.9	547.0	556.3	562.5	565.6	
+1200	343.8	364.5	385.2	405.9	447.3	488.1	508.6	525.7	539.9	551.2	559.4	564.3	564.3	
+1460	387.9	409.7	431.3	452.6	494.4	534.3	549.6	559.8	565.2	565.8	561.2			
+1600	408.1	430.0	451.5	472.5	513.1	551.0	561.7	566.1	564.5					
+1750	426.9	448.4	469.4	489.6	527.8	562.1	566.4	562.9						
+2000	451.5	471.5	490.3	508.0	539.3	564.2								

Shaded area indicates drive conditions where reduced service life can be expected.

Corrected Horsepower Rating = [Base Rating] × [Belt Length Correction Factor]

^{*} Refer to Page 15 for additional Service Factors for speeds of 600 rpm or less.

⁺ Drives within this speed range may generate an objectionable noise level. This can be reduced by using commercially available acoustical damping material in the belt guard. Contact Gates for recommendations on any drive to be installed in a noise sensitive area.

20M PowerGrip® GT®2 Power Rating Table — 230mm Belt Width

RPM of						ated Horsepow of Grooves and						
Faster Shaft	38 9.524	40 10.026	44 11.028	48 12.031	52 13.033	56 14.036	60 15.038	64 16.041	68 17.043	72 18.046	80 20.051	90 22.557
*10	6.6	7.0	7.8	8.5	9.2	10.0	10.5	11.1	11.6	12.2	13.2	14.5
*20	13.2	14.1	15.6	17.1	18.5	19.9	21.1	22.2	23.3	24.3	26.4	29.0
*30	19.9	21.1	23.5	25.6	27.7	29.9	31.6	33.2	34.9	36.5	39.7	43.5
*40	26.5	28.1	31.3	34.1	37.0	39.8	42.1	44.3	46.5	48.7	52.9	58.0
*50	33.1	35.2	39.1	42.7	46.2	49.8	52.6	55.4	58.1	60.8	66.1	72.5
*60	39.7	42.2	46.9	51.2	55.5	59.7	63.1	66.5	69.8	73.0	79.3	87.0
*80	53.0	56.3	62.5	68.2	73.9	79.6	84.2	88.6	93.0	97.3	105.7	115.9
*100	66.2	70.3	78.2	85.3	92.4	99.5	105.2	110.8	116.2	121.6	132.1	144.8
*150	99.3	105.4	117.2	127.9	138.5	149.1	157.7	166.0	174.1	182.2	197.8	216.8
*200	132.3	140.5	156.2	170.4	184.5	198.6	210.0	221.0	231.9	242.5	263.3	288.3
*300	191.4	203.5	228.3	253.9	270.6	286.8	302.6	318.1	333.3	348.2	377.1	411.7
*400	240.7	255.7	286.4	318.0	338.4	358.0	377.2	395.8	414.0	431.7	465.9	506.1
*500	286.4	304.0	340.1	377.0	400.5	423.0	444.8	466.0	486.4	506.2	543.8	587.3
*600	329.2	349.2	390.0	431.6	457.7	482.5	506.3	529.2	551.2	572.2	611.6	655.6
730	381.0	403.7	449.8	496.6	525.2	552.0	577.4	601.5	624.3	645.6	684.3	724.6
800	407.2	431.1	479.7	529.0	558.5	585.9	611.7	635.9	658.5	679.4	716.1	752.2
870	432.2	457.3	508.2	559.5	589.7	617.4	643.2	667.1	689.0	708.9	742.6	772.8
970	466.1	492.6	546.2	600.0	630.5	658.1	683.3	705.9	726.1	743.7	770.9	
+1170	527.1	555.8	613.2	670.0	699.2	724.1	745.4	762.8	776.2	785.6	791.6	
+1200	535.6	564.5	622.2	679.2	708.0	732.2	752.6	768.8	780.8	788.5	790.3	
+1460	600.1	630.0	688.5	744.5	766.4	781.4	790.0	791.9	786.8			
+1600	628.6	658.1	715.1	768.5	784.3	791.6	790.7					
+1750	654.0	682.5	736.4	785.0	792.3	788.8						
+2000	684.2	709.3	754.1	790.2		1						

20M PowerGrip GT2 Power Rating Table — 290mm Belt Width

RPM of					ver For Small Sprock I Pitch Diameter, Inc			
Faster Shaft	52 13.033	56 14.036	60 15.038	64 16.041	68 17.043	72 18.046	80 20.051	90 22.557
*10	11.8	12.7	13.5	14.2	14.9	15.6	16.9	18.6
*20	23.7	25.5	26.9	28.4	29.8	31.1	33.8	37.1
*30	35.5	38.2	40.4	42.5	44.6	46.7	50.8	55.7
*40	47.3	50.9	53.9	56.7	59.5	62.3	67.7	74.2
*50	59.1	63.7	67.3	70.9	74.4	77.8	84.6	92.8
*60	71.0	76.4	80.8	85.1	89.3	93.4	101.5	111.3
*80	94.6	101.9	107.7	113.4	119.0	124.5	135.3	148.3
*100	118.2	127.3	134.6	141.7	148.7	155.6	169.0	185.3
*150	177.3	190.8	201.8	212.4	222.9	233.1	253.2	277.5
*200	236.2	254.2	268.8	282.9	296.7	310.4	336.9	369.0
*300	346.3	367.0	387.3	407.1	426.6	445.6	482.6	527.0
*400	433.1	458.2	482.8	506.7	529.9	552.7	596.4	648.0
*500	512.7	541.5	569.4	596.5	622.7	648.1	696.3	752.1
*600	585.9	617.6	648.2	677.5	705.7	732.7	783.3	839.9
730	672.4	706.8	739.4	770.4	799.6	827.1	876.8	928.9
800	715.1	750.3	783.5	814.6	843.6	870.5	917.9	964.7
870	755.1	790.8	823.9	854.7	882.9	908.6	952.2	991.6
+970	807.6	843.1	875.5	904.8	930.8	953.7	989.2	
+1170	896.1	928.3	955.8	978.5	996.2	1008.7	1017.6	
+1200	907.4	938.8	965.2	986.4	1002.3	1012.7	1016.4	
+1460	983.3	1003.1	1014.8	1018.0	1012.4			
+1600	1007.0	1017.0	1016.8					
+1750	1018.1	1014.8						

Shaded area indicates drive conditions where reduced service life can be expected.

Corrected Horsepower Rating = [Base Rating] × [Belt Length Correction Factor]

PowerGrip® GT®2 Belt Length Correction Factors

Pitch/Length Designation	No. of Teeth	Correction Factor									
2000-20M	100	0.80	4200-20M	210	1.00	5400-20M	270	1.05	6200-20M	310	1.10
2500-20M	125	0.85	4600-20M	230	1.00	5600-20M	280	1.05	6400-20M	320	1.10
3400-20M	170	0.95	5000-20M	250	1.05	5800-20M	290	1.10	6600-20M	330	1.10
3800-20M	190	1.00	5200-20M	260	1.05	6000-20M	300	1.10			

^{*} Refer to Page 15 for additional Service Factors for speeds of 600 rpm or less.

⁺ Drives within this speed range may generate an objectionable noise level. This can be reduced by using commercially available acoustical damping material in the belt guard. Contact Gates for recommendations on any drive to be installed in a noise sensitive area.

20M PowerGrip® GT®2 Power Rating Table — 340mm Belt Width

RPM of					ver For Small Sprock I Pitch Diameter, Inc			
Faster Shaft	52 13.033	56 14.036	60 15.038	64 16.041	68 17.043	72 18.046	80 20.051	90 22.557
*10	14.0	15.1	15.9	16.8	17.6	18.4	20.0	21.9
*20	28.0	30.1	31.9	33.5	35.2	36.8	40.0	43.9
*30	41.9	45.2	47.8	50.3	52.8	55.2	60.0	65.8
*40	55.9	60.2	63.7	67.1	70.4	73.6	80.0	87.7
*50	69.9	75.3	79.6	83.8	88.0	92.0	100.0	109.7
*60	83.9	90.3	95.5	100.6	105.5	110.4	120.0	131.6
*80	111.8	120.4	127.4	134.1	140.7	147.2	159.9	175.4
*100	139.8	150.5	159.2	167.6	175.8	183.9	199.8	219.1
*150	209.5	225.6	238.6	251.1	263.5	275.6	299.3	328.0
*200	279.2	300.5	317.8	334.4	350.8	366.9	398.3	436.3
*300	409.4	433.9	457.8	481.3	504.3	526.8	570.6	623.0
*400	512.0	541.8	570.8	599.0	626.6	653.4	705.1	766.2
*500	606.1	640.2	673.3	705.3	736.3	766.3	823.4	889.5
+*600	692.8	730.3	766.4	801.2	834.5	866.5	926.3	993.4
+730	795.1	835.8	874.4	911.1	945.7	978.3	1037.3	1099.2
+800	845.7	887.3	926.6	963.4	997.8	1029.8	1086.0	1141.8
+870	893.0	935.2	974.5	1011.0	1044.5	1075.0	1126.9	1174.0
+970	955.2	997.3	1035.7	1070.4	1101.4	1128.6	1171.1	
+1170	1060.1	1098.4	1131.2	1158.3	1179.5	1194.6	1206.0	
+1200	1073.5	1110.9	1142.4	1167.8	1186.9	1199.6	1204.7	
+1460	1164.0	1187.8	1202.1	1206.4	1200.4			
+1600	1192.5	1204.9	1205.3					
+1750	1206.4	1203.1						

^{*} Refer to Page 15 for additional Service Factors for speeds of 600 rpm or less.

 $Corrected\ Horsepower\ Rating = [Base\ Rating] \times [Belt\ Length\ Correction\ Factor]$

PowerGrip® GT®2 Belt Length Correction Factors

Pitch/Length Designation	No. of Teeth	Correction Factor									
2000-20M	100	0.80	4200-20M	210	1.00	5400-20M	270	1.05	6200-20M	310	1.10
2500-20M	125	0.85	4600-20M	230	1.00	5600-20M	280	1.05	6400-20M	320	1.10
3400-20M	170	0.95	5000-20M	250	1.05	5800-20M	290	1.10	6600-20M	330	1.10
3800-20M	190	1.00	5200-20M	260	1.05	6000-20M	300	1.10			

⁺ Drives within this speed range may generate an objectionable noise level. This can be reduced by using commercially available acoustical damping material in the belt guard. Contact Gates for recommendations on any drive to be installed in a noise sensitive area.

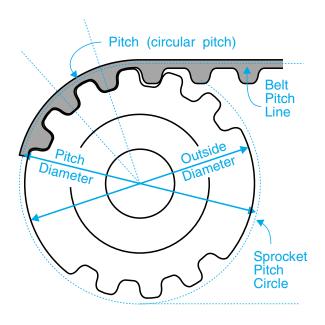
PowerGrip® Timing Belt Drives

PowerGrip Timing Belt drives operate with the molded teeth of the belt designed to make positive engagement with the matching grooves on the pulleys. Gates PowerGrip belts have helically-wound fiberglass tension members embedded in a Neoprene body with the belt teeth faced with a tough wear-resistant nylon fabric.

The three principal dimensions, in inches, shown below, are used to specify a Timing belt.

330	XL	025
33.0∅ pitch length	.200Ø pitch	.25∅ wide

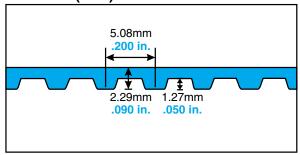
Belt pitch is the distance in inches between two adjacent tooth centers as measured on the pitch line of the belt. Belt pitch length is the total length (circumference) in inches as measured along the pitch line. The theoretical pitch line of a Timing belt lies within the tensile member.



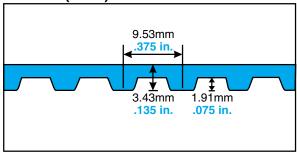
The three principal dimensions used to specify a pulley number of grooves, pitch and belt width in inches are shown below.

20	XL	025
Number of grooves	Pitch	Belt Width (¼Ø)

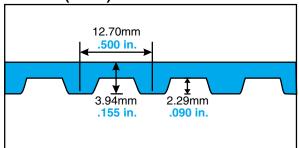
XL Pitch (.200) - Reference Dimensions



L Pitch (.375") – Reference Dimensions



H Pitch (.500") - Reference Dimensions



Gates PowerGrip® Timing Belts

Stock Belts

0.200" pitch extra light (XL) Available in

1/4" and 3/8" widths

Length and Pitch Designation	Pitch Length (in)	Number of Teeth
50XL	5.0	25
60XL	6.0	30
70XL	7.0	35
80XL	8.0	40
90XL	9.0	45
100XL	10.0	50
110XL	11.0	55
120XL	12.0	60
130XL	13.0	65
140XL	14.0	70
150XL	15.0	75
160XL	16.0	80
170XL	17.0	85
180XL	18.0	90
190XL	19.0	95
200XL	20.0	100
210XL	21.0	105
220XL	22.0	110
230XL	23.0	115
240XL	24.0	120
250XL	25.0	125
260XL	26.0	130
280XL	28.0	140
290XL	29.0	145
300XL	30.0	150
310XL	31.0	155
330XL	33.0	165
340XL	34.0	170
350XL	35.0	175
370XL	37.0	185
380XL	38.0	190
390XL	39.0	195
400XL	40.0	200
420XL	42.0	210
450XL	45.0	225
460XL	46.0	230
480XL	48.0	240
500XL	50.0	250
570XL	57.0	285
630XL	63.0	315
770XL	77.0	385

0.375" pitch light **(L)** Available in

 $\frac{1}{2}$ ", $\frac{3}{4}$ " and 1" widths

Length and Pitch Designation	Pitch Length (in)	Number of Teeth
124L	12.375	33
135L	12.5	36
150L	15.0	40
165L	16.5	44
187L	18.75	50
195L	19.50	52
210L	21.0	56
225L	22.5	60
240L	24.0	64
255L	25.5	68
270L	27.0	72
285L	28.5	76
300L	30.0	80
315L	31.5	84
322L	32.25	86
345L	34.5	92
367L	36.75	98
390L	39.0	104
420L	42.0	112
450L	45.0	120
480L	48.0	128
510L	51.0	136
540L	54.0	144
600L	60.0	160
660L	66.0	176
817L	81.75	218
900L	90.0	240

0.500" pitch heavy (H)

Available in

 $\frac{3}{4}$ ", 1", $\frac{1}{2}$ " 2" and 3" widths

Length and Pitch Designation	Pitch Length (in)	Number of Teeth
210H	21.0	42
220H	22.0	44
230H	23.0	46
240H	24.0	48
270H	27.0	54
300H	30.0	60
320H	32.0	64
330H	33.0	66
340H	34.0	68
350H	35.0	70
360H	36.0	72
370H	37.0	74
390H	39.0	78
400H	40.0	80
410H	41.0	82
420H	42.0	84
450H	45.0	90
480H	48.0	96
490H	49.0	98
510H	51.0	102
540H	54.0	108
560H	56.0	112
570H	57.0	114
585H	58.5	117
600H	60.0	120
630H	63.0	126
645H	64.5	129
660H	66.0	132
700H	70.0	140
730H	73.0	146
750H	75.0	150
780H	78.0	156
800H	80.0	160
820H 840H	82.0 84.0	164 168
840H 850H	84.0 85.0	170
900H	90.9	180
900H 960H	96.0	192
1000H	100.0	200
1100H	110.0	220
1140H	114.0	228
1250H	125.0	250
1400H	140.0	280
1550H	155.0	310
1700H	170.0	340
		0.0

NOTE: Belt lengths other than those shown may be available as a made-to-order item. Contact your local Gates representative for details.

XL, 0.200" Pitch Belts

Drive Selection Table

DriveN Speed Sprocket Combinations								Center Distance, Inches																				
For m	otor sp	eed of	DriveR		Dri	veN		8-	# 00	90	8£	8	8	8	8	8.4	8.4	9. ₄	8.4	8	8.5	8.5	8.5	8.£	9. #.	9. #	8.£	8.5
1160 RPM	1750 RPM	3450 RPM	No. of grooves	Pitch diam. inches	No. of grooves		Speed Ratio	60XL P.L. 6.00 30 Teeth	70XL P.L. 7. 35 Tee	80XL P.L. 8. 40 Tee	90XL P.L. 9. 45 Tee	100XL P.L. 10. 50 Teeth	110XL P.L. 11.0 55 Teeth	120XL P.L. 12. 60 Teeth	130XL P.L. 13. 65 Teeth		150XL P.L. 15. 75 Teeth	160XL P.L. 16.00 80 Teeth	170XL P.L. 17.0 85 Teeth	180XL P.L. 18. 90 Teeth	190XL P.L. 19.00 95 Teeth	200XL P.L. 20.00 100 Teeth	210XL P.L. 21.00 105 Teeth		230XL P.L. 23.00 115 Teeth	240XL P.L. 24.00 120 Teeth	250XL P.L. 25.(125 Teet	
1160 1160 1160 1160	1750 1750 1750 1750	3450 3450 3450 3450	10 11 12 14	0.637 0.700 0.764 0.891	10 11 12 14	0.637 0.700 0.764 0.891	1.000 1.000 1.000 1.000	2.00 1.90 1.80 1.60	2.50 2.40 2.30 2.10	3.00 2.90 2.80 2.60	3.50 3.40 3.30 3.10	4.00 3.90 3.80 3.60	4.50 4.40 4.30 4.10	5.00 4.90 4.80 4.60	5.50 5.40 5.30 5.10	6.00 5.90 5.80 5.60	6.50 6.40 6.30 6.10	7.00 6.90 6.80 6.60	7.50 7.40 7.30 7.10	8.00 7.90 7.80 7.60	8.50 8.40 8.30 8.10	9.00 8.90 8.80 8.60	9.50 9.40 9.30 9.10	10.00 9.90 9.80 9.60	10.50 10.40 10.30 10.10	11.00 10.90 10.80 10.60	11.50 11.40 11.30 11.10	12.00 11.90 11.80 11.60
1160 1160 1160 1160	1750 1750 1750 1750	3450 3450 3450 3450	15 16 18 20	0.955 1.019 1.146 1.273	15 16 18 20	0.955 1.019 1.146 1.273	1.000 1.000 1.000 1.000	1.50 1.40	2.00 1.90 1.70	2.50 2.40 2.20 2.00	3.00 2.90 2.70 2.50	3.50 3.40 3.20 3.00	4.00 3.90 3.70 3.50	4.50 4.40 4.20 4.00	5.00 4.90 4.70 4.50	5.50 5.40 5.20 5.00	6.00 5.90 5.70 5.50	6.50 6.40 6.20 6.00	7.00 6.90 6.70 6.50	7.50 7.40 7.20 7.00	8.00 7.90 7.70 7.50	8.50 8.40 8.20 8.00	9.00 8.90 8.70 8.50	9.50 9.40 9.20 9.00	10.00 9.90 9.70 9.50	10.50 10.40 10.20 10.00	11.00 10.90 10.70 10.50	11.50 11.40 11.20 11.00
1160 1160 1160 1160	1750 1750 1750 1750	3450 3450 3450 3450	21 22 24 28	1.337 1.401 1.528 1.783	21 22 24 28	1.337 1.401 1.528 1.783	1.000 1.000 1.000 1.000			1.90 1.80	2.40 2.30 2.10	2.90 2.80 2.60 2.20	3.40 3.30 3.10 2.70	3.90 3.80 3.60 3.20	4.40 4.30 4.10 3.70	4.90 4.80 4.60 4.20	5.40 5.30 5.10 4.70	5.90 5.80 5.60 5.20	6.40 6.30 6.10 5.70	6.90 6.80 6.60 6.20	7.40 7.30 7.10 6.70	7.90 7.80 7.60 7.20	8.40 8.30 8.10 7.70	8.90 8.80 8.60 8.20	9.40 9.30 9.10 8.70	9.90 9.80 9.60 9.20	10.40 10.30 10.10 9.70	10.90 10.80 10.60 10.20
1160 1107 1105 1088	1750 1670 1667 1641	3450 3293 3286 3234	30 21 20 15	1.910 1.337 1.273 0.955	30 22 21 16	1.910 1.401 1.337 1.019	1.000 1.048 1.050 1.067	1.45	1.95	1.85 1.95 2.45	2.35 2.45 2.95	2.85 2.95 3.45	2.50 3.35 3.45 3.95	3.00 3.85 3.95 4.45	3.50 4.35 4.45 4.95	4.00 4.85 4.95 5.45	4.50 5.35 5.45 5.95	5.00 5.85 5.95 6.45	5.50 6.35 6.45 6.95	6.00 6.85 6.95 7.45	6.50 7.35 7.45 7.95	7.00 7.85 7.95 8.45	7.50 8.35 8.45 8.95	8.00 8.85 8.95 9.45	8.50 9.35 9.45 9.95	9.00 9.85 9.95 10.45	9.50 10.35 10.45 10.95	10.00 10.85 10.95 11.45
1088 1083 1083 1063	1641 1633 1633 1604	3234 3220 3220 3163	30 14 28 11	1.910 0.891 1.783 0.700	32 15 30 12	2.037 0.955 1.910 0.764	1.067 1.071 1.071 1.091	1.55 1.85	2.05 2.35	2.55 2.85	3.05 3.35	3.55 3.85	2.40 4.05 2.60 4.35	2.90 4.55 3.10 4.85	3.40 5.05 3.60 5.35	3.90 5.55 4.10 5.85	4.40 6.05 4.60 6.35	4.90 6.55 5.10 6.85	5.40 7.05 5.60 7.35	5.90 7.55 6.10 7.85	6.40 8.05 6.60 8.35	6.90 8.55 7.10 8.85	7.40 9.05 7.60 9.35	7.90 9.55 8.10 9.85	8.40 10.05 8.60 10.35	8.90 10.55 9.10 10.85	9.40 11.05 9.60 11.35	9.90 11.55 10.10 11.85
1063 1055 1055 1044	1604 1591 1591 1575	3163 3136 3136 3105	22 10 20 18	1.401 0.637 1.273 1.146	24 11 22 20	1.528 0.700 1.401 1.273	1.091 1.100 1.100 1.111	1.95	2.45	2.95 1.90 2.10	2.20 3.45 2.40 2.60	2.70 3.95 2.90 3.10	3.20 4.45 3.40 3.60	3.70 4.95 3.90 4.10	4.20 5.45 4.40 4.60	4.70 5.95 4.90 5.10	5.20 6.45 5.40 5.60	5.70 6.95 5.90 6.10	6.20 7.45 6.40 6.60	6.70 7.95 6.90 7.10	7.20 8.45 7.40 7.60	7.70 8.95 7.90 8.10	8.20 9.45 8.40 8.60	8.70 9.95 8.90 9.10	9.20 10.45 9.40 9.60	9.70 10.95 9.90 10.10	10.20 11.45 10.40 10.60	10.70 11.95 10.90 11.10
1031 1015 1015 1015	1556 1531 1531 1531	3067 3019 3019 3019	16 14 21 28	1.019 0.891 1.337 1.783	18 16 24 32	1.146 1.019 1.528 2.037	1.125 1.143 1.143 1.143	1.50	1.80 2.00	2.30 2.50	2.80 3.00 2.25	3.30 3.50 2.75	3.80 4.00 3.25 2.50	4.30 4.50 3.75 3.00	4.80 5.00 4.25 3.50	5.30 5.50 4.75 4.00	5.80 6.00 5.25 4.50	6.30 6.50 5.75 5.00	6.80 7.00 6.25 5.50	7.30 7.50 6.75 6.00	7.80 8.00 7.25 6.50	8.30 8.50 7.75 7.00	8.80 9.00 8.25 7.50	9.30 9.50 8.75 8.00	9.80 10.00 9.25 8.50	10.30 10.50 9.75 9.00	10.80 11.00 10.25 9.50	11.30 11.50 10.75 10.00
994 994 994 967	1500 1500 1500 1458	2957 2957 2957 2875	12 18 24 10	0.764 1.146 1.528 0.637	14 21 28 12	0.891 1.337 1.783 0.764	1.167 1.167 1.167 1.200	1.70	2.20	2.70 2.05 2.90	3.20 2.55 3.40	3.70 3.05 2.40 3.90	4.20 3.55 2.90 4.40	4.70 4.05 3.40 4.90	5.20 4.55 3.90 5.40	5.70 5.05 4.40 5.90	6.20 5.55 4.90 6.40	6.70 6.05 5.40 6.90	7.20 6.55 5.90 7.40	7.70 7.05 6.40 7.90	8.20 7.55 6.90 8.40	8.70 8.05 7.40 8.90	9.20 8.55 7.90 9.40	9.70 9.05 8.40 9.90	10.20 9.55 8.90 10.40	10.70 10.05 9.40 10.90	11.20 10.55 9.90 11.40	11.70 11.05 10.40 11.90
967 967 967 949	1458 1458 1458 1432	2875 2875 2875 2823	15 20 30 18	0.955 1.273 1.910 1.146	18 24 36 22	1.146 1.528 2.292 1.401	1.200 1.200 1.200 1.222		1.85	2.35 1.80 2.00	2.85 2.30 2.50	3.35 2.80 3.00	3.85 3.30 3.50	4.35 3.80 2.69 4.00	4.85 4.30 3.19 4.50	5.35 4.80 3.69 5.00	5.85 5.30 4.20 5.50	6.35 5.80 4.70 6.00	6.85 6.30 5.20 6.50	7.35 6.80 5.70 7.00	7.85 7.30 6.20 7.50	8.35 7.80 6.70 8.00	8.85 8.30 7.20 8.50	9.35 8.80 7.70 9.00	9.85 9.30 8.20 9.50	10.35 9.80 8.70 10.00	10.85 10.30 9.20 10.50	11.35 10.80 9.70 11.00
928 928 928 911	1400 1400 1400 1375	2760 2760 2760 2711	12 16 24 11	0.764 1.019 1.528 0.700	15 20 30 14	0.955 1.273 1.910 0.891	1.250 1.250 1.250 1.273	1.65	2.15 1.70 2.25	2.65 2.20 2.75	3.15 2.70 3.25	3.65 3.20 2.29 3.75	4.15 3.70 2.79 4.25	4.65 4.20 3.29 4.75	5.15 4.70 3.79 5.25	5.65 5.20 4.30 5.75	6.15 5.70 4.80 6.25	6.65 6.20 5.30 6.75	7.15 6.70 5.80 7.25	7.65 7.20 6.30 7.75	8.15 7.70 6.80 8.25	8.65 8.20 7.30 8.75	9.15 8.70 7.80 9.25	9.65 9.20 8.30 9.75	10.15 9.70 8.80 10.25	10.65 10.20 9.30 10.75	11.15 10.70 9.80 11.25	11.65 11.20 10.30 11.75
911 902 902 884	1375 1361 1361 1333	2711 2683 2683 2629	22 14 28 16	1.401 0.891 1.783 1.019	28 18 36 21	1.783 1.146 2.292 1.337	1.273 1.286 1.286 1.313	1.39	1.90 1.64	2.40 2.14	1.99 2.90 2.64	2.49 3.40 3.15	2.99 3.90 2.29 3.65	3.49 4.40 2.79 4.15	3.99 4.90 3.29 4.65	4.50 5.40 3.79 5.15	5.00 5.90 4.29 5.65	5.50 6.40 4.79 6.15	6.00 6.90 5.29 6.65	6.50 7.40 5.79 7.15	7.00 7.90 6.29 7.65	7.50 8.40 6.79 8.15	8.00 8.90 7.30 8.65	8.50 9.40 7.80 9.15	9.00 9.90 8.30 9.65	9.50 10.40 8.80 10.15	10.00 10.90 9.30 10.65	10.50 11.40 9.80 11.15
870 870 870 870	1313 1313 1313 1313	2588 2588 2588 2588	12 15 18 21	0.764 0.955 1.146 1.337	16 20 24 28	1.019 1.273 1.528 1.783	1.333 1.333 1.333 1.333	1.59	2.10 1.74	2.60 2.24 1.89	3.10 2.75 2.39 2.04	3.60 3.25 2.89 2.54	4.10 3.75 3.39 3.04	4.60 4.25 3.90 3.54	5.10 4.75 4.40 4.04	5.60 5.25 4.90 4.54	6.10 5.75 5.40 5.04	6.60 6.25 5.90 5.55	7.10 6.75 6.40 6.05	7.60 7.25 6.90 6.55	8.10 7.75 7.40 7.05	8.60 8.25 7.90 7.55	9.10 8.75 8.40 8.05	9.60 9.25 8.90 8.55	10.10 9.75 9.40 9.05	10.60 10.25 9.90 9.55	11.10 10.75 10.40 10.05	11.60 11.25 10.90 10.55
870 870	1313 1313	2588 2588	24 30	1.528 1.910	32 40	2.037 2.546	1.333 1.333					2.19	2.69	3.19 2.48	3.69 2.98	4.19 3.49	4.69 3.99	5.19 4.49	5.69 4.99	6.19 5.49	6.70 5.99	7.20 6.49	7.70 6.99	8.20 7.49	8.70 7.99	9.20 8.49	9.70 8.99	10.20 9.49

Key to Horsepower Correction Factor = 1.0 = 0.8 = =0.6



XL, 0.200" Pitch Belts

Dri	veN Sp	eed	Spi	rocket Co	ombinati	ons		Center Distance, Inches																				
For m	otor sp	peed of	Dri	veR	DriveN			8∉	90 th	8.5	₽ ₽	8. ₄	8. ‡	8.5	 Th	1.00 th	5.00 th	0.0 th	.00. th	8. ₄	8.4).00 eth	8:E	:.0 eth	5.00 eth	e:0	5.00 eth	e;e
1160 RPM	1750 RPM	3450 RPM	No. of grooves	Pitch diam. inches	No. of grooves		Speed Ratio	60XL P.L. 6.00 30 Teeth	70XL P.L. 7.00 35 Teeth	80XL P.L. 8.00 40 Teeth	90XL P.L. 9.00 45 Teeth	100XL P.L. 10.0 50 Teeth	110XL P.L. 11.00 55 Teeth	120XL P.L. 12.0 60 Teeth	130XL P.L. 13. 65 Teeth	140XL P.L. 14.0 70 Teeth	150XL P.L. 15.0 75 Teeth	160XL P.L. 16.0 80 Teeth	170XL P.L. 17.0 85 Teeth	180XL P.L. 18.0 90 Teeth	190XL P.L. 19.0 95 Teeth	200XL P.L. 20.00 100 Teeth	210XL P.L. 21.00 105 Teeth	220XL P.L. 22.00 110 Teeth	230XL P.L. 23.00 115 Teeth	240XL P.L. 24.00 120 Teeth	250XL P.L. 25.00 125 Teeth	260XL P.L. 26.00 130 Teeth
851 851 844 829	1283 1283 1273 1250	2530 2530 2509 2464	11 22 16 10	0.700 1.401 1.019 0.637	15 30 22 14	1.910 1.401	1.364 1.364 1.375 1.400	1.70	2.20 1.59 2.30	2.70 2.09 2.80	3.20 2.59 3.30	3.70 2.39 3.09 3.80	4.20 2.89 3.59 4.30	4.70 3.39 4.09 4.80	5.20 3.89 4.60 5.30	5.70 4.39 5.10 5.80	6.20 4.89 5.60 6.30	6.70 5.39 6.10 6.80	7.20 5.89 6.60 7.30	7.70 6.39 7.10 7.80	8.20 6.89 7.60 8.30	8.70 7.40 8.10 8.80	9.20 7.90 8.60 9.30	9.70 8.40 9.10 9.80	10.20 8.90 9.60 10.30	10.70 9.40 10.10 10.80	11.20 9.90 10.60 11.30	11.70 10.40 11.10 11.80
829 829 829 812	1250 1250 1250 1250 1225	2464 2464 2464 2415	15 20 30 14	0.955 1.273 1.910 0.891	21 28 42 20	1.337 1.783 2.674 1.273	1.400 1.400 1.400 1.429		1.69	2.19	2.69 2.08 2.79	3.19 2.59 3.29	3.69 3.09 3.80	4.20 3.59 4.30	4.70 4.09 2.87 4.80	5.20 4.59 3.38 5.30	5.70 5.09 3.88 5.80	6.20 5.59 4.38 6.30	6.70 6.09 4.88 6.80	7.20 6.59 5.39 7.30	7.70 7.10 5.89 7.80	8.20 7.60 6.39 8.30	8.70 8.10 6.89 8.80	9.20 8.60 7.39 9.30	9.70 9.10 7.89 9.80	10.20 9.60 8.39 10.30	10.70 10.10 8.89 10.80	11.20 10.60 9.39 11.30
812 812 798 798	1225 1225 1203 1203	2415 2415 2372 2372	21 28 11 22	1.337 1.783 0.700 1.401	30 40 16 32	1.910 2.546	1.429 1.429 1.455 1.455	1.64	2.14	2.65	3.15	2.43 3.65 2.28	2.94 4.15 2.78	3.44 2.57 4.65 3.28	3.94 3.08 5.15 3.79	4.44 3.58 5.65 4.29	4.94 4.08 6.15 4.79	5.44 4.58 6.65 5.29	5.94 5.09 7.15 5.79	6.44 5.59 7.65 6.29	6.94 6.09 8.15 6.79	7.44 6.59 8.65 7.29	7.94 7.09 9.15 7.79	8.44 7.59 9.65 8.29	8.95 8.09 10.15 8.79	9.45 8.59 10.65 9.29	9.95 9.09 11.15 9.79	10.45 9.59 11.65 10.29
791 791 773 773	1193 1193 1167 1167	2352	15 30 10 12	0.955 1.910 0.637 0.764	22 44 15 18	1.401 2.801 0.955	1.467 1.467 1.500 1.500	1.74 1.49	1.63 2.24 1.99	2.14 2.75 2.49	2.64 3.25 2.99	3.14 3.75 3.49	3.64 4.25 4.00	4.14 4.75 4.50	4.64 2.76 5.25 5.00	5.14 3.27 5.75 5.50	5.65 3.77 6.25 6.00	6.15 4.28 6.75 6.50	6.65 4.78 7.25 7.00	7.15 5.28 7.75 7.50	7.65 5.78 8.25 8.00	8.15 6.28 8.75 8.50	8.65 6.79 9.25 9.00	9.15 7.29 9.75 9.50	9.65 7.79 10.25 10.00	10.15 8.29 10.75 10.50	10.65 8.79 11.25 11.00	11.15 9.29 11.75 11.50
773 773 773 773	1167 1167 1167 1167	2300 2300 2300 2300 2300	14 16 20 24	0.891 1.019 1.273 1.528	21 24 30 36	1.337 1.528 1.910	1.500 1.500 1.500 1.500		1.74	2.24 1.98	2.74 2.49 1.97	3.24 2.99 2.48	3.74 3.49 2.98 2.47	4.24 3.99 3.49 2.98	4.74 4.49 3.99 3.48	5.25 4.99 4.49 3.98	5.75 5.49 4.99 4.48	6.25 5.99 5.49 4.99	6.75 6.49 5.99 5.49	7.25 6.99 6.49 5.99	7.75 7.50 6.99 6.49	8.25 8.00 7.49 6.99	8.75 8.50 7.99 7.49	9.25 9.00 8.49 7.99	9.75 9.50 8.99 8.49	10.25 10.00 9.49 8.99	10.75 10.50 10.00 9.49	11.25 11.00 10.50 9.99
773 761 746 738	1167 1148 1125 1114	2218 2195	28 21 18 14	1.783 1.337 1.146 0.891	42 32 28 22	2.037 1.783 1.401	1.500 1.524 1.556 1.571		1.68	2.18	2.18 2.69	2.32 2.68 3.19	2.83 3.18 3.69	2.46 3.33 3.69 4.19	2.97 3.83 4.19 4.69	3.47 4.34 4.69 5.19	3.97 4.84 5.19 5.69	4.48 5.34 5.69 6.19	4.98 5.84 6.19 6.70	5.48 6.34 6.69 7.20	5.98 6.84 7.19 7.70	6.48 7.34 7.69 8.20	6.99 7.84 8.19 8.70	7.49 8.34 8.69 9.20	7.99 8.84 9.19 9.70	8.49 9.34 9.69 10.20	8.99 9.84 10.19 10.70	9.49 10.34 10.69 11.20
738 725 725 725	1114 1094 1094 1094	2195 2156 2156 2156	28 10 15 20	1.783 0.637 0.955 1.273	44 16 24 32		1.571 1.600 1.600 1.600	1.69	2.19	2.69 2.03	3.19 2.53 1.86	3.69 3.04 2.37	4.20 3.54 2.87	4.70 4.04 3.38	2.85 5.20 4.54 3.88	3.36 5.70 5.04 4.38	3.87 6.20 5.54 4.89	4.37 6.70 6.04 5.39	4.87 7.20 6.54 5.89	5.38 7.70 7.04 6.39	5.88 8.20 7.54 6.89	6.38 8.70 8.04 7.39	6.88 9.20 8.55 7.89	7.38 9.70 9.05 8.39	7.88 10.20 9.55 8.89	8.38 10.70 10.05 9.39	8.89 11.20 10.55 9.89	9.39 11.70 11.05 10.39
725 709 709 696	1094 1069 1069 1050		30 11 22 12	1.910 0.700 1.401 0.764	48 18 36 20	1.146 2.292 1.273	1.600 1.636 1.636 1.667	1.53	2.04	2.54	3.04 2.89	3.54 2.05 3.39	4.04 2.56 3.89	4.54 3.07 4.39	5.05 3.57 4.89	3.05 5.55 4.08 5.39	3.55 6.05 4.58 5.89	4.06 6.55 5.08 6.40	4.56 7.05 5.58 6.90	5.07 7.55 6.08 7.40	5.57 8.05 6.58 7.90	6.07 8.55 7.09 8.40	6.57 9.05 7.59 8.90	7.08 9.55 8.09 9.40	7.58 10.05 8.59 9.90	8.08 10.55 9.09 10.40	8.58 11.05 9.59 10.90	9.08 11.55 10.09 11.40
696 696 677 677	1050 1050 1021 1021	2070 2013 2013	18 24 14 21	1.146 1.528 0.891 1.337	30 40 24 36	2.546 1.528	1.667 1.667 1.714 1.714		1.57	2.08	2.06 2.58	2.57 3.08 2.10	3.08 2.24 3.59 2.61	3.58 2.75 4.09 3.11	4.08 3.26 4.59 3.62	4.58 3.77 5.09 4.12	5.09 4.27 5.59 4.63	5.59 4.77 6.09 5.13	6.09 5.28 6.59 5.63	6.59 5.78 7.09 6.13	7.09 6.28 7.59 6.63	7.59 6.78 8.09 7.13	8.09 7.28 8.59 7.63	8.59 7.78 9.09 8.14	9.09 8.28 9.59 8.64	9.59 8.79 10.10 9.14	10.09 9.29 10.60 9.64	10.59 9.79 11.10 10.14
677 663 663 663	1021 1000 1000 1000	2013 1971 1971 1971	28 12 16 24	1.783 0.764 1.019 1.528	48 21 28 42		1.714 1.750 1.750 1.750		1.83	2.33 1.76	2.84 2.27	3.34 2.77	3.84 3.28	4.34 3.78 2.64	2.62 4.84 4.28 3.15	3.13 5.34 4.78 3.65	3.64 5.84 5.29 4.16	4.15 6.34 5.79 4.66	4.66 6.84 6.29 5.17	5.16 7.34 6.79 5.67	5.66 7.84 7.29 6.17	6.17 8.34 7.79 6.68	6.67 8.85 8.29 7.18	7.17 9.35 8.79 7.68	7.67 9.85 9.29 8.18	8.17 10.35 9.79 8.68	8.68 10.85 10.29 9.18	9.18 11.35 10.79 9.68
653 644 644 638	984 972 972 963	1917 1898	18 10 20 11	1.146 0.637 1.273 0.700	32 18 36 20	1.146 2.292 1.273	1.778 1.800 1.800 1.818	1.58	2.08	2.59 2.43	1.95 3.09 2.94	2.46 3.59 2.14 3.44	2.97 4.09 2.65 3.94	3.47 4.59 3.16 4.44	3.98 5.09 3.66 4.94	4.48 5.59 4.17 5.44	4.98 6.09 4.67 5.94	5.48 6.59 5.17 6.44	5.98 7.10 5.68 6.94	6.48 7.60 6.18 7.44	6.99 8.10 6.68 7.95	7.49 8.60 7.18 8.45	7.99 9.10 7.68 8.95	8.49 9.60 8.18 9.45	8.99 10.10 8.69 9.95	9.49 10.60 9.19 10.45	9.99 11.10 9.69 10.95	10.49 11.60 10.19 11.45
638 633 633 621	963 955 955 938	1898 1882 1882 1848	22 12 24 15	1.401 0.764 1.528 0.955	40 22 44 28	1.401 2.801	1.818 1.833 1.833 1.867		1.77	2.28	2.78 2.31	3.28 2.82	2.33 3.79 3.32	2.84 4.29 2.52 3.83	3.35 4.79 3.03 4.33	3.86 5.29 3.54 4.83	4.36 5.79 4.05 5.33	4.87 6.29 4.56 5.83	5.37 6.79 5.06 6.34	5.87 7.29 5.56 6.84	6.37 7.79 6.07 7.34	6.88 8.29 6.57 7.84	7.38 8.79 7.07 8.34	7.88 9.29 7.57 8.84	8.38 9.79 8.07 9.34	8.88 10.29 8.58 9.84	9.38 10.79 9.08 10.34	9.88 11.30 9.58 10.84





The Driving Force in Power Transmission.

XL, 0.200" Pitch Belts

Dri	veN Spe	ed	Spi	ocket Co	mbinati	ons										Cen	ter Di	stanc	e, Inc	hes								
For m	otor spe	ed of	Dri		Dri	veN]	8-)0 h	8 =)0 h	8.4	8	.00 h	8.4	9. d	8. ₄	.00 h	8.4	.00 h	.00 h	9. #.	8.5	8,5	8.5	.00 th	.00 th	8.5
1160 RPM	1750 RPM	3450 RPM	No. of grooves	Pitch diam. inches	No. of grooves	Pitch diam. inches	Speed Ratio	60XL P.L. 6.00 30 Teeth	70XL P.L. 7.00 35 Teeth	80XL P.L. 8.00 40 Teeth	90XL P.L. 9.00 45 Teeth	100XL P.L. 10.0 50 Teeth	110XL P.L. 11.0 55 Teeth	120XL P.L. 12.0 60 Teeth	130XL P.L. 13.0 65 Teeth	140XL P.L. 14.0 70 Teeth	150XL P.L. 15.0 75 Teeth	160XL P.L. 16.0 80 Teeth	170XL P.L. 17.0 85 Teeth	180XL P.L. 18.0 90 Teeth	190XL P.L. 19.0 95 Teeth	200XL P.L. 20.00 100 Teeth	210XL P.L. 21.00 105 Teeth	220XL P.L. 22.00 110 Teeth	230XL P.L. 23.00 115 Teeth	240XL P.L. 24.00 120 Teeth	250XL P.L. 25.00 125 Teeth	260XL P.L. 26.00 130 Teeth
619 609 608 608	933 919 917 917	1840 1811 1807 1807	16 21 11 22	1.019 1.337 0.700 1.401	30 40 21 42	1.910 2.546 1.337 2.674	1.875 1.905 1.909 1.909	1.36	1.87	2.38	2.15	2.66 3.39	3.17 2.37 3.89	3.67 2.89 4.39 2.72	4.18 3.40 4.89 3.24	4.68 3.90 5.39 3.75	5.18 4.41 5.89 4.25	5.68 4.91 6.39 4.76	6.18 5.42 6.89 5.26	6.68 5.92 7.39 5.76	7.19 6.42 7.89 6.27	7.69 6.92 8.39 6.77	8.19 7.43 8.89 7.27	8.69 7.93 9.39 7.77	9.19 8.43 9.90 8.28	9.69 8.93 10.40 8.78	10.19 9.43 10.90 9.28	10.69 9.93 11.40 9.78
580 580 580 580	875 875 875 875	1725 1725 1725 1725		0.637 0.700 0.764 0.891	20 22 24 28	1.273 1.401 1.528 1.783	2.000 2.000 2.000 2.000	1.47	1.97 1.82 1.66	2.48 2.32 2.17 1.85	2.98 2.83 2.67 2.36	3.49 3.33 3.18 2.87	3.99 3.83 3.68 3.37	4.49 4.34 4.18 3.87	4.99 4.84 4.68 4.38	5.49 5.34 5.19 4.88	5.99 5.84 5.69 5.38	6.49 6.34 6.19 5.88	6.99 6.84 6.69 6.38	7.49 7.34 7.19 6.89	7.99 7.84 7.69 7.39	8.49 8.34 8.19 7.89	8.99 8.84 8.69 8.39	9.49 9.34 9.19 8.89	9.99 9.84 9.69 9.39	10.50 10.34 10.19 9.89	11.00 10.84 10.69 10.39	11.5 11.34 11.19 10.89
580 580 580 580	875 875 875 875	1725 1725 1725 1725	15 16 18 20	0.955 1.019 1.146 1.273	30 32 36 40	1.910 2.037 2.292 2.546	2.000 2.000 2.000 2.000				2.20 2.04	2.71 2.55 2.23	3.21 3.06 2.74 2.42	3.72 3.56 3.25 2.93	4.22 4.07 3.76 3.44	4.73 4.57 4.26 3.95	5.23 5.07 4.77 4.46	5.73 5.58 5.27 4.96	6.23 6.08 5.77 5.46	6.73 6.58 6.27 5.97	7.23 7.08 6.78 6.47	7.74 7.58 7.28 6.97	8.24 8.08 7.78 7.47	8.74 8.58 8.28 7.98	9.24 9.09 8.78 8.48	9.74 9.59 9.28 8.98	10.24 10.09 9.78 9.48	10.74 10.59 10.28 9.98
580 580 580 580	875 875 875 875	1725 1725 1725 1725	21 22 24 30	1.337 1.401 1.528 1.910	42 44 48 60	2.674 2.801 3.056 3.820	2.000 2.000 2.000 2.000						2.25	2.77 2.61	3.28 3.12 2.79	3.79 3.63 3.31	4.30 4.14 3.82	4.80 4.65 4.33 3.36	5.31 5.15 4.84 3.88	5.81 5.66 5.35 4.40	6.31 6.16 5.85 4.91	6.82 6.66 6.35 5.42	7.32 7.17 6.86 5.92	7.82 7.67 7.36 6.43	8.32 8.17 7.86 6.93	8.82 8.67 8.36 7.44	9.33 9.17 8.87 7.94	9.83 9.67 9.37 8.45
554 552 552 544	835 833 833 820	1647 1643 1643 1617	21 10 20 15	1.337 0.637 1.273 0.955	44 21 42 32	2.801 1.337 2.674 2.037	2.095 2.100 2.100 2.133	1.41	1.92	2.42	2.93 2.08	3.43 2.59	3.93 2.29 3.10	2.65 4.44 2.81 3.61	3.16 4.94 3.33 4.11	3.68 5.44 3.84 4.62	4.19 5.94 4.34 5.12	4.69 6.44 4.85 5.62	5.20 6.94 5.35 6.13	5.70 7.44 5.86 6.63	6.21 7.94 6.36 7.13	6.71 8.44 6.86 7.63	7.21 8.94 7.37 8.13	7.72 9.44 7.87 8.63	8.22 9.94 8.37 9.13	8.72 10.44 8.87 9.63	9.22 10.94 9.37 10.14	9.72 11.44 9.88 10.64
541 541 532 532	817 817 802 802	1610 1610 1581 1581	14 28 11 22	0.891 1.783 0.700 1.401	30 60 24 48	1.910 3.820 1.528 3.056	2.143 2.143 2.182 2.182		1.70	2.21	2.24	3.22	3.26 3.73	3.77 4.23	4.27 4.73 2.88	4.77 5.23 3.40	5.28 5.74 3.91	5.78 3.45 6.24 4.42	6.28 3.97 6.74 4.93	6.78 4.48 7.24 5.44	7.28 5.00 7.74 5.94	7.78 5.50 8.24 6.45	8.28 6.01 8.74 6.95	8.79 6.52 9.24 7.45	9.29 7.03 9.74 7.96	9.79 7.53 10.24 8.46	10.29 8.03 10.74 8.96	10.79 8.54 11.24 9.46
527 527 522 516	795 795 788 778	1568 1568 1553 1533	10 20 18 16	0.637 1.273 1.146 1.019	22 44 40 36	1.401 2.801 2.546 2.292	2.200 2.200 2.222 2.250		1.86	2.37	2.87	2.31	3.88 2.50 2.83	4.38 2.69 3.02 3.34	4.88 3.21 3.53 3.85	5.39 3.72 4.04 4.35	5.89 4.23 4.55 4.86	6.39 4.74 5.05 5.36	6.89 5.24 5.56 5.86	7.39 5.75 6.06 6.37	7.89 6.25 6.56 6.87	8.39 6.76 7.07 7.37	8.89 7.26 7.57 7.87	9.39 7.76 8.07 8.38	9.89 8.26 8.57 8.88	10.39 8.77 9.07 9.38	9.27 9.57 9.88	9.77 10.08 10.38
508 508 497 497	766 766 750 750	1509 1509 1479 1479	14 21 12 18	0.891 1.337 0.764 1.146	32 48 28 42	2.037 3.056 1.783 2.674	2.286 2.286 2.333 2.333			1.93	2.12	2.64	3.15 3.46 2.38	3.66 2.39 3.97 2.90	4.16 2.92 4.47 3.41	4.67 3.44 4.97 3.93	5.17 3.96 5.48 4.43	5.67 4.47 5.98 4.94	6.17 4.98 6.48 5.45	6.68 5.48 6.98 5.95	7.18 5.99 7.48 6.45	7.68 6.49 7.98 6.96	8.18 7.00 8.48 7.46	8.68 7.50 8.99 7.96	9.18 8.00 9.49 8.47	9.68 8.51 9.99 8.97	10.18 9.01 10.49 9.47	10.68 9.51 10.99 9.97
483 483 483 483	729 729 729 729	1438 1438 1438 1438	10 15 20 30	0.637 0.955 1.273 1.910	24 36 48 72	1.528 2.292 3.056 4.584	2.400 2.400 2.400 2.400		1.74	2.26	2.76 1.83	3.27 2.35	3.77 2.87	4.28 3.38 2.43	4.78 3.89 2.96	5.28 4.40 3.49	5.78 4.90 4.00	6.28 5.41 4.51	6.78 5.91 5.02	7.29 6.41 5.53 3.65	7.79 6.92 6.03 4.18	8.29 7.42 6.54 4.71	8.79 7.92 7.04 5.23	9.29 8.42 7.55 5.74	9.79 8.92 8.05 6.26	9.43 8.55 6.77	10.79 9.93 9.06 7.28	11.29 10.43 9.56 7.78
475 464 464 464	716 700 700 700	1411 1380 1380 1380	18 12 16 24	1.146 0.764 1.019 1.528	44 30 40 60	2.801 1.910 2.546 3.820	2.444 2.500 2.500 2.500			1.81	2.33	2.84 2.06	2.25 3.35 2.59	2.78 3.86 3.11	3.30 4.36 3.62	3.81 4.87 4.13	4.32 5.37 4.64 3.08	4.83 5.87 5.14 3.62	5.34 6.37 5.65 4.14	5.84 6.88 6.15 4.66	6.35 7.38 6.66 5.17	6.85 7.88 7.16 5.68	7.35 8.38 7.66 6.19	7.86 8.88 8.16 6.70	8.36 9.38 8.67 7.21	8.86 9.88 9.17 7.71	9.36 10.38 9.67 8.22	9.87 10.88 10.17 8.72
456 451 451 442	688 681 681 667	1355 1342 1342 1314	11 14 28 16	0.700 0.891 1.783 1.019	28 36 72 42	1.783 2.292 4.584 2.674	2.545 2.571 2.571 2.625			1.98	2.49 1.87	3.00 2.40	3.51 2.92 2.46	4.01 3.43 2.98	4.52 3.94 3.50	5.02 4.44 4.01	5.52 4.95 4.52	6.03 5.46 5.03	6.53 5.96 5.54	7.03 6.46 3.73 6.04	7.53 6.96 4.27 6.55	8.03 7.47 4.79 7.05	8.53 7.97 5.31 7.55	9.03 8.47 5.83 8.06	9.53 8.97 6.34 8.56	10.04 9.47 6.86 9.06	10.54 9.98 7.37 9.56	11.04 10.48 7.87 10.07
435 435 435 425 425	656 656 656 642 642	1294 1294 1294 1265 1265	12 15 18 11 22	0.764 0.955 1.146 0.700 1.401	32 40 48 30 60	2.037 2.546 3.056 1.910 3.820	2.667 2.667 2.667 2.727 2.727		_	1.68	2.21	2.73 2.10 2.89	3.24 2.63 3.40	3.75 3.15 2.52 3.90	4.25 3.66 3.05 4.41	4.76 4.17 3.57 4.91	5.26 4.68 4.09 5.42 3.17	5.76 5.19 4.60 5.92 3.70	6.27 5.69 5.11 6.42 4.23	6.77 6.20 5.62 6.92 4.74	7.27 6.70 6.13 7.43 5.26	7.77 7.21 6.63 7.93 5.77	8.28 7.71 7.14 8.43 6.28	8.78 8.21 7.64 8.93 6.79	9.28 8.71 8.14 9.43 7.30	9.78 9.22 8.65 9.93 7.81	10.28 9.72 9.15 10.43 8.31	10.78 10.22 9.65 10.93 8.82



XL, 0.200" Pitch Belts

Dri	veN Sp	eed	Spi	ocket Co	mbinatio	ons										Cen	ter Di	stanc	e, Inc	hes								
For m	otor sp	eed of	Dri	veR Pitch	Dri	veN Pitch		6.00 eeth	8.5	.00 th	99 # 9	9. ₄	1.00 th	65. #	3.00 th	1.00 th	5.00 th	3.00 th	7.00 th	3.00 th	5.00 th).00 eth	1.00 eth	2.00 eth	3.00 eth	t.00	5.00 eth	5.00 eth
1160 RPM	1750 RPM	3450 RPM	No. of grooves	diam. inches	No. of grooves	diam.	Speed Ratio	60XL P.L. 6.00 30 Teeth	70XL P.L. 7.00 35 Teeth	80XL P.L. 8.00 40 Teeth	90XL P.L. 9.00 45 Teeth	100XL P.L. 10.0 50 Teeth	110XL P.L. 11.0 55 Teeth	120XL P.L. 12.0 60 Teeth	130XL P.L. 13. 65 Teeth	140XL P.L. 14.0 70 Teeth	150XL P.L. 15.0 75 Teeth	160XL P.L. 16.0 80 Teeth	170XL P.L. 17.0 85 Teeth	180XL P.L. 18.0 90 Teeth	190XL P.L. 19.0 95 Teeth	200XL P.L. 20.00 100 Teeth	210XL P.L. 21.00 105 Teeth	220XL P.L. 22.00 110 Teeth	230XL P.L. 23.00 115 Teeth	240XL P.L. 24.00 120 Teeth	250XL P.L. 25.00 125 Teeth	
422 414 414 406	636 625 625 613	1255 1232 1232 1208	16 10 15	1.019 0.637 0.955 0.891	44 28 42	2.801 1.783 2.674 2.546	2.750 2.800 2.800 2.857			2.02	2.53	3.05	2.33 3.55 2.50 2.67	2.86 4.06 3.03 3.19	3.38 4.56 3.55 3.71	3.90 5.07 4.06 4.22	4.41 5.57 4.57 4.73	4.92 6.07 5.08 5.24	5.43 6.57 5.58 5.74	5.93 7.08 6.09 6.25	6.44 7.58 6.59 6.75	6.94 8.08 7.10 7.25	7.45 8.58 7.60 7.76	7.95 9.08 8.10 8.26	8.45 9.58 8.61 8.76	8.96 10.08 9.11 9.26	9.46 10.58 9.61 9.77	9.96 11.08 10.11 10.27
406 399 395 387	613 602 597	1208 1186 1176	21 11 15	1.337 0.700 0.955	40 60 32 44	3.820 2.037 2.801	2.857 2.909 2.933 3.000			1.72	2.25	2.77	3.28 2.37	3.79 2.90 3.95	4.30 3.42 4.45	4.80 3.94	3.21 5.31 4.45	3.74 5.81 4.96 5.97	4.27 6.31 5.47	4.79 6.82 5.98	5.30 7.32 6.48	5.82 7.82 6.99	6.33 8.32 7.49	6.84 8.83 8.00	7.34 9.33 8.50	7.85 9.83 9.00	8.36 10.33 9.51	8.86 10.83 10.01
387 387 387 387 387	583 583 583 583 583	1150 1150 1150 1150 1150	10 12 14 16 20	0.637 0.764 0.891 1.019 1.273	30 36 42 48 60	1.910 2.292 2.674 3.056 3.820	3.000 3.000 3.000 3.000 3.000			1.89	1.95	2.93 2.48 2.00	3.44 3.00 2.54	3.95 3.52 3.07 2.60	4.45 4.03 3.59 3.13	4.96 4.54 4.10 3.66	5.46 5.04 4.61 4.17 3.25	5.97 5.55 5.12 4.69 3.78	6.47 6.05 5.63 5.20 4.31	6.97 6.56 6.14 5.71 4.83	7.47 7.06 6.64 6.22 5.35	7.97 7.56 7.14 6.72 5.86	8.48 8.06 7.65 7.23 6.37	8.98 8.57 8.15 7.73 6.88	9.48 9.07 8.65 8.24 7.39	9.98 9.57 9.16 8.74 7.90	10.48 10.07 9.66 9.24 8.40	10.98 10.57 10.16 9.75 8.91
387 369 363 363	583 557 547 547	1150 1098 1078 1078	24 14 10 15	1.528 0.891 0.637 0.955	72 44 32 48	4.584 2.801 2.037 3.056	3.000 3.143 3.200 3.200			1.76	2.29	2.81	2.41	2.94 3.84 2.64	3.47 4.34 3.17	3.99 4.85 3.70	4.50 5.35 4.22	5.76 5.01 5.86 4.73	3.34 5.52 6.36 5.24	3.90 6.02 6.86 5.75	4.43 6.53 7.37 6.26	4.96 7.04 7.87 6.77	5.49 7.54 8.37 7.27	6.00 8.04 8.87 7.78	6.52 8.55 9.37 8.28	7.03 9.05 9.88 8.79	7.54 9.55 10.38 9.29	8.05 10.05 10.88 9.79
354 354 348 348	535 535 525 525	1054 1054 1035 1035	11 22 12 18	0.700 1.401 0.764 1.146	36 72 40 60	2.292 4.584 2.546 3.820	3.273 3.273 3.333 3.333 3.333				1.99	2.52	3.05 2.75	3.56	4.07	4.58 4.31 2.77	5.09 4.82 3.33	5.59 5.33 3.87	6.10 3.42 5.83 4.39	6.60 3.98 6.34 4.92	7.11 4.52 6.84 5.43	7.61 5.05 7.35 5.95	8.11 5.57 7.85 6.46	8.61 6.09 8.35 6.97	9.12 6.61 8.86 7.48	9.62 7.12 9.36 7.99	10.12 7.63 9.86 8.49	10.62 8.14 10.36 9.00
338 338 331 322	510 510 500 486	1006 1006 986 958	14 21 12 10	0.891 1.337 0.764 0.637	48 72 42 36	3.056 4.584 2.674 2.292	3.429 3.429 3.500 3.600				2.03	2.08 2.56	2.62 3.09	2.68 3.15 3.60	3.22 3.68 4.12	3.74 4.19 4.63	4.26 4.70 5.13	4.78 5.21 5.64	5.29 3.46 5.72 6.14	5.80 4.02 6.23 6.65	6.31 4.56 6.73 7.15	6.81 5.09 7.24 7.65	7.32 5.61 7.74 8.16	7.83 6.13 8.24 8.66	8.33 6.65 8.75 9.16	8.83 7.16 9.25 9.66	9.34 7.68 9.75 10.17	9.84 8.19 10.26 10.67
322 319 316 309	486 481 477 467	958 949 941 920	20 11 12 16	1.273 0.700 0.764 1.019	72 40 44 60	4.584 2.546 2.801 3.820	3.600 3.636 3.667 3.750					2.26	2.80 2.49	3.32 3.03	3.84 3.55	4.35 4.07 2.85	4.86 4.59 3.41	5.37 5.10 3.95	3.50 5.88 5.61 4.48	4.06 6.38 6.12 5.00	4.60 6.89 6.62 5.52	5.13 7.39 7.13 6.04	5.66 7.90 7.63 6.55	6.18 8.40 8.14 7.06	6.69 8.90 8.64 7.57	7.21 9.41 9.14 8.08	7.72 9.91 9.65 8.58	8.23 10.41 10.15 9.09
304 290 290 290	458 438 438 438	904 863 863 863	11 10 11 12	0.700 0.637 0.700 0.764	42 40 44 48	2.674 2.546 2.801 3.056	3.818 4.000 4.000 4.000					2.12 2.30 1.96	2.67 2.84 2.53 2.19	3.20 3.36 3.07 2.76	3.72 3.88 3.60 3.30	4.23 4.40 4.12 3.83	4.75 4.91 4.63 4.35	5.26 5.42 5.14 4.86	5.77 5.92 5.65 5.38	6.27 6.43 6.16 5.89	6.78 6.93 6.67 6.40	7.28 7.44 7.17 6.90	7.79 7.94 7.68 7.41	8.29 8.45 8.18 7.92	8.79 8.95 8.69 8.42	9.30 9.45 9.19 8.93	9.80 9.95 9.69 9.43	10.30 10.46 10.20 9.93
290 290 276 271	438 438 417 408	863 863 821 805	15 18 10 14	0.955 1.146 0.637 0.891	60 72 42 60	3.820 4.584 2.674 3.820	4.000 4.000 4.200 4.286					2.15	2.71	3.24	3.76	2.89 4.28 2.93	3.45 4.79 3.49	3.99 5.30 4.03	4.52 3.58 5.81 4.56	5.04 4.14 6.32 5.09	5.56 4.68 6.82 5.61	6.08 5.21 7.33 6.12	6.59 5.74 7.83 6.64	7.10 6.26 8.34 7.15	7.61 6.78 8.84 7.66	8.12 7.30 9.34 8.17	8.63 7.81 9.85 8.68	9.14 8.32 10.35 9.18
266 264 258 242	401 398 389 365	791 784 767 719	11 10 16 10	0.700 0.637 1.019 0.637	48 44 72 48	3.056 2.801 4.584 3.056	4.364 4.400 4.500 4.800					2.00	2.23 2.57 2.27	2.80 3.11 2.84	3.34 3.64 3.38	3.87 4.16 3.91	4.39 4.67 4.43	4.91 5.19 3.06 4.95	5.42 5.70 3.66 5.47	5.93 6.21 4.22 5.98	6.44 6.71 4.76 6.49	6.95 7.22 5.30 6.99	7.46 7.72 5.82 7.50	7.96 8.23 6.35 8.01	8.47 8.73 6.87 8.51	8.97 9.24 7.38 9.02	9.48 9.74 7.90 9.52	9.98 10.24 8.41 10.03
242 232 226 213	365 350 340 321	719 690 671 633	15 12 14 11	0.955 0.764 0.891 0.700	72 60 72 60	4.584 3.820 4.584 3.820	4.800 5.000 5.143 5.455									3.00	3.57 3.61	3.10 4.11 3.14 4.15	3.69 4.65 3.73 4.69	4.26 5.17 4.30 5.21	4.80 5.69 4.84 5.74	5.34 6.21 5.38 6.25	5.87 6.73 5.91 6.77	6.39 7.24 6.43 7.28	6.91 7.75 6.95 7.79	7.43 8.26 7.47 8.30	7.94 8.77 7.99 8.81	8.45 9.27 8.50 9.32
193 193 177 161	292 292 267 243	575 575 527 479	10 12 11 10	0.637 0.764 0.700 0.637	60 72 72 72 72	3.820 4.584 4.584 4.584	6.000 6.000 6.545 7.2								2.47	3.08	3.65	4.19 3.21 3.25 3.29	4.73 3.81 3.85 3.89	5.26 4.38 4.42 4.45	5.78 4.92 4.97 5.01	6.30 5.46 5.50 5.54	6.81 5.99 6.03 6.08	7.33 6.52 6.56 6.6	7.84 7.04 7.08 7.12	8.35 7.56 7.60 7.64	8.86 8.07 8.12 8.16	9.36 8.59 8.63 8.67





Driv	veN Spe	eed of DriveR DriveR													(Center	Dista	nce, l	nches	3							
For m	otor spe	eed of	Dri	_	Driv			375 th	5.00 th	3.75 th	00. Th	50 th	00.1 Th	50 th	7.00 th	3.50 th).00 th	2.25 th	1.50 th	5.75 th).00 eth	42.00 eeth	5:00 eth	18.00 eeth	L 51.00 Teeth	1.00 eth	L . 60.00 Teeth
1160 RPM	1750 RPM	3450 RPM	No. of grooves	Pitch diam. inches	No. of grooves	Pitch diam. inches	Speed Ratio	124L P.L. 12.3 33 Teeth	150L P.L. 15.0 40 Teeth	187L P.L. 18.7 50 Teeth	210L P.L. 21.0 56 Teeth	225L P.L. 22.50 60 Teeth	240L P.L. 24.00 64 Teeth	255L P.L. 25.5 68 Teeth	270L P.L. 27.00 72 Teeth	285L P.L. 28.50 76 Teeth	300L P.L. 30.00 80 Teeth	322L P.L. 32.2 86 Teeth	345L P.L. 34.50 92 Teeth	367L P.L. 36.75 98 Teeth	390L P.L. 39.00 104 Teeth	420L P.L. 112 T	450L P.L. 45. 120 Tee	480L P.L. 4 128 T	51 136 136	540L P.L. 54.(144 Teet	95. 1.6
1160 1160 1160 1160	0 1750 3450 0 1750 3450 0 1750 3450		10 12 14 16	1.194 1.432 1.671 1.910	10 12 14 16	1.194 1.432 1.671 1.910	1.000 1.000 1.000 1.000	4.31 3.94 3.56 3.19	5.62 5.25 4.88 4.50	7.50 7.13 6.75 6.37	8.62 8.25 7.88 7.50	9.37 9.00 8.63 8.25	10.12 9.75 9.38 9.00	10.87 10.50 10.13 9.75	11.62 11.25 10.88 10.50	12.37 12.00 11.63 11.25	13.12 12.75 12.38 12.00	14.25 13.88 13.50 13.12	15.37 15.00 14.63 14.25	16.50 16.13 15.75 15.37	17.62 17.25 16.88 16.50	19.12 18.75 18.38 18.00	20.62 20.25 19.88 19.50	22.12 21.75 21.38 21.00	23.62 23.25 22.88 22.50	25.12 24.75 24.38 24.00	28.12 27.75 27.38 27.00
1160 1160 1160 1160	1750 1750 1750 1750	3450 3450 3450 3450	17 18 19 20	2.029 2.149 2.268 2.387	17 18 19 20	2.029 2.149 2.268 2.387	1.000 1.000 1.000 1.000	3.00 2.81 2.62	4.31 4.12 3.94 3.75	6.19 6.00 5.81 5.63	7.31 7.12 6.94 6.75	8.06 7.87 7.69 7.50	8.81 8.62 8.44 8.25	9.56 9.37 9.19 9.00	10.31 10.12 9.94 9.75	11.06 10.87 10.69 10.50	11.81 11.62 11.44 11.25	12.94 12.75 12.56 12.38	14.06 13.87 13.69 13.50	15.19 15.00 14.81 14.63	16.31 16.12 15.94 15.75	17.81 17.62 17.44 17.25	19.31 19.12 18.94 18.75	20.81 20.62 20.44 20.25	22.31 22.12 21.94 21.75	23.81 23.62 23.44 23.25	26.81 26.62 26.44 26.25
1160 1160 1160 1160	1750 1750 1750 1750	3450 3450 3450 3450	21 22 24 26	2.507 2.626 2.865 3.104	21 22 24 26	2.507 2.626 2.865 3.104	1.000 1.000 1.000 1.000		3.56 3.38	5.44 5.25 4.87 4.50	6.56 6.38 6.00 5.62	7.31 7.13 6.75 6.37	8.06 7.88 7.50 7.12	8.81 8.63 8.25 7.87	9.56 9.38 9.00 8.62	10.31 10.13 9.75 9.37	11.06 10.88 10.50 10.12	12.19 12.00 11.62 11.25	13.31 13.13 12.75 12.37	14.44 14.25 13.87 13.50	15.56 15.38 15.00 14.62	17.06 16.88 16.50 16.12	18.56 18.38 18.00 17.62	20.06 19.88 19.50 19.12	21.56 21.38 21.00 20.62	23.06 22.88 22.50 22.12	26.06 25.88 25.50 25.12
1160 1160 1160 1160	1750 1750 1750 1750	3450 3450 3450 3450	28 30 32 36	3.342 3.581 3.820 4.297	28 30 32 36	3.342 3.581 3.820 4.297	1.000 1.000 1.000 1.000			4.13	5.25 4.87 4.50	6.00 5.62 5.25	6.75 6.37 6.00 5.25	7.50 7.12 6.75 6.00	8.25 7.87 7.50 6.75	9.00 8.62 8.25 7.50	9.75 9.37 9.00 8.25	10.88 10.50 10.12 9.38	12.00 11.62 11.25 10.50	13.13 12.75 12.37 11.63	14.25 13.87 13.50 12.75	15.75 15.37 15.00 14.25	17.25 16.87 16.50 15.75	18.75 18.37 18.00 17.25	20.25 19.87 19.50 18.75	21.75 21.37 21.00 20.25	24.75 24.37 24.00 23.25
1160 1160 1160 1160 1107	1750 1750 1750 1670	3450 3450 3450 3293	40 44 48 21	4.775 5.252 5.730 2.507	40 44 48 22	4.775 5.252 5.730 2.626	1.000 1.000 1.000 1.048		3.47	5.34	6.47	7.22	7.97	5.25 8.72	6.00 9.47	6.75 6.00 10.22	7.50 6.75 10.97	8.62 7.88 7.12 12.09	9.75 9.00 8.25 13.22	10.87 10.13 9.37 14.34	12.00 11.25 10.50 15.47	13.50 12.75 12.00 16.97	15.00 14.25 13.50 18.47	16.50 15.75 15.00 19.97	18.00 17.25 16.50 21.47	19.50 18.75 18.00 22.97	22.50 21.75 21.00 25.97
1105 1102 1099 1096	1667 1663 1658 1653	3286 3278 3268 3258	20 19 18 17	2.387 2.268 2.149 2.029	21 20 19 18	2.507 2.387 2.268 2.149	1.050 1.053 1.056 1.059	2.72 2.91	3.66 3.84 4.03 4.22	5.53 5.72 5.91 6.09	6.66 6.84 7.03 7.22	7.41 7.59 7.78 7.97	8.16 8.34 8.53 8.72	8.91 9.09 9.28 9.47	9.66 9.84 10.03 10.22	10.41 10.59 10.78 10.97	11.16 11.34 11.53 11.72	12.28 12.47 12.66 12.84	13.41 13.59 13.78 13.97	14.53 14.72 14.91 15.09	15.66 15.84 16.03 16.22	17.16 17.34 17.53 17.72	18.66 18.84 19.03 19.22	20.16 20.34 20.53 20.72	21.66 21.84 22.03 22.22	23.16 23.34 23.53 23.72	26.16 26.34 26.53 26.72
1092 1088 1083 1077	1647 1641 1633 1625	3247 3234 3220 3204	16 30 28 26	1.910 3.581 3.342 3.104	17 32 30 28	2.029 3.820 3.581 3.342	1.063 1.067 1.071 1.077	3.09	4.41	6.28 3.94 4.31	7.41 4.69 5.06 5.44	8.16 5.44 5.81 6.19	8.91 6.19 6.56 6.94	9.66 6.94 7.31 7.69	10.41 7.69 8.06 8.44	11.16 8.44 8.81 9.19	11.91 9.19 9.56 9.94	13.03 10.31 10.69 11.06	14.16 11.44 11.81 12.19	15.28 12.56 12.94 13.31	16.41 13.69 14.06 14.44	17.91 15.19 15.56 15.94	19.41 16.69 17.06 17.44	20.91 18.19 18.56 18.94	22.41 19.69 20.06 20.44	23.91 21.19 21.56 21.94	26.91 24.19 24.56 24.94
1071 1063 1063 1055	1615 1604 1604 1591	3185 3163 3163 3136	24 22 44 20	2.865 2.626 5.252 2.387	26 24 48 22	3.104 2.865 5.730 2.626	1.083 1.091 1.091 1.100		3.19 3.56	4.69 5.06 5.44	5.81 6.19 6.56	6.56 6.94 7.31	7.31 7.69 8.06	8.06 8.44 8.81	8.81 9.19 9.56	9.56 9.94 10.31	10.31 10.69 6.37 11.06	11.44 11.81 7.50 12.19	12.56 12.94 8.62 13.31	13.69 14.06 9.75 14.44	14.81 15.19 10.87 15.56	16.31 16.69 12.37 17.06	17.81 18.19 13.87 18.56	19.31 19.69 15.37 20.06	20.81 21.19 16.87 21.56	22.31 22.69 18.37 23.06	25.31 25.69 21.37 26.06
1055 1050 1044 1044	1591 1583 1575 1575	3136 3121 3105 3105	40 19 18 36	4.775 2.268 2.149 4.297	44 21 20 40	5.252 2.507 2.387 4.775	1.100 1.105 1.111 1.111	2.62	3.75 3.94	5.62 5.81	6.75 6.94	7.50 7.69	8.25 8.44	9.00 9.19 5.62	5.62 9.75 9.94 6.37	6.37 10.50 10.69 7.12	7.12 11.25 11.44 7.87	8.25 12.37 12.56 9.00	9.37 13.50 13.69 10.12	10.50 14.62 14.81 11.25	11.62 15.75 15.94 12.37	13.12 17.25 17.44 13.87	14.62 18.75 18.94 15.37	16.12 20.25 20.44 16.87	17.62 21.75 21.94 18.37	19.12 23.25 23.44 19.87	22.12 26.25 26.44 22.87
1038 1031 1031 1015	1566 1556 1556 1531	3087 3067 3067 3019	17 16 32 14	2.029 1.910 3.820 1.671	19 18 36 16	2.268 2.149 4.297 1.910	1.118 1.125 1.125 1.143	2.81 3.00 3.37	4.12 4.31 4.69	6.00 6.19 6.56	7.12 7.31 7.69	7.87 8.06 4.87 8.44	8.62 8.81 5.62 9.19	9.37 9.56 6.37 9.94	10.12 10.31 7.12 10.69	10.87 11.06 7.87 11.44	11.62 11.81 8.62 12.19	12.75 12.94 9.75 13.31	13.87 14.06 10.87 14.44	15.00 15.19 12.00 15.56	16.12 16.31 13.12 16.69	17.62 17.81 14.62 18.19	19.12 19.31 16.12 19.69	20.62 20.81 17.62 21.19	22.12 22.31 19.12 22.69	23.62 23.81 20.62 24.19	26.62 26.81 23.62 27.19
1015 1015 1005 1002	1531 1531 1517 1511	3019 3019 2990 2980	21 28 26 19	2.507 3.342 3.104 2.268	24 32 30 22	2.865 3.820 3.581 2.626	1.143 1.143 1.154 1.158		3.28	5.15 4.12 5.53	6.28 4.87 5.24 6.65	7.03 5.62 5.99 7.40	7.78 6.37 6.75 8.15	8.53 7.12 7.50 8.90	9.28 7.87 8.25 9.65	10.03 8.62 9.00 10.40	10.78 9.37 9.75 11.15	11.90 10.50 10.87 12.28	13.03 11.62 12.00 13.41	14.15 12.75 13.12 14.53	15.28 13.87 14.25 15.66	16.78 15.37 15.75 17.16	18.28 16.87 17.25 18.66	19.78 18.37 18.75 20.16	21.28 19.87 20.25 21.66	22.78 21.37 21.75 23.16	25.78 24.37 24.75 26.16
994 994 994	1500 1500 1500	2957 2957 2957	12 18 24	1.432 2.149 2.865	14 21 28	1.671 2.507 3.342	1.167 1.167 1.167	3.75	5.06 3.84	6.94 5.72 4.49	8.06 6.84 5.62	8.81 7.59 6.37	9.56 8.34 7.12	10.31 9.09 7.87	11.06 9.84 8.62	11.81 10.59 9.37	12.56 11.34 10.12	13.69 12.47 11.25	14.81 13.59 12.37	15.94 14.72 13.50	17.06 15.84 14.62	18.56 17.34 16.12	20.06 18.84 17.62	21.56 20.34 19.12	23.06 21.84 20.62	24.56 23.34 22.12	27.56 26.34 25.12





Dri	veN Spe	ed	Sprocket Combinations f DriveR DriveN													Center	Dista	nce,	Inches	3							
For m	otor spe	ed of				/eN Pitch		2.375	5.00 sth	8.75 sth	1.00 ath	2.50 ath	4.00 ath	5.50 ath	7.00 eth	8.50 ath	0.00 sth	2.25 eth	4.50 ath	6.75 sth	39.00 Teeth	42.00 Teeth	5.00 seth	8.00 seth	L 51.00 Teeth	54.00 Teeth	0.00 seth
1160 RPM	1750 RPM	3450 RPM	No. of grooves	diam. inches	No. of grooves	diam. inches	Speed Ratio	124L P.L. 12.3 33 Teeth	150L P.L. 15.0 40 Teeth	187L P.L. 18.75 50 Teeth	210L P.L. 21.0 56 Teeth	225L P.L. 22.5 60 Teeth	240L P.L. 24.0 64 Teeth	255L P.L. 25.5 68 Teeth	270L P.L. 27.00 72 Teeth	285L P.L. 28. 76 Teeth	300L P.L. 30.00 80 Teeth	322L P.L. 32.25 86 Teeth	345L P.L. 34.5 92 Teeth	367L P.L. 36.75 98 Teeth	390L P.L.3 104 Te	420L P.L. 4 112 Te	450L P.L. 45.00 120 Teeth	480L P.L. 48.00 128 Teeth	510L P.L. 5 136 Te	540L P.L. 5 144 Te	600L P.L. 60.00 160 Teeth
986 982 977 967	1488 1481 1474 1458	2933 2919 2905 2875	17 22 16 10	2.029 2.626 1.910 1.194	20 26 19 12	2.387 3.104 2.268 1.432	1.176 1.182 1.188 1.200	2.71 2.90 4.12	4.03 4.21 5.44	5.90 4.87 6.09 7.31	7.03 5.99 7.22 8.44	7.78 6.75 7.97 9.19	8.53 7.50 8.72 9.94	9.28 8.25 9.47 10.69	10.03 9.00 10.22 11.44	10.78 9.75 10.97 12.19	11.53 10.50 11.72 12.94	12.66 11.62 12.84 14.06	13.78 12.75 13.97 15.19	14.91 13.87 15.09 16.31	16.03 15.00 16.22 17.44	17.53 16.50 17.72 18.94	19.03 18.00 19.22 20.44	20.53 19.50 20.72 21.94	22.03 21.00 22.22 23.44	23.53 22.50 23.72 24.94	26.53 25.50 26.72 27.94
967 967 967 955	1458 1458 1458 1441	2875 2875 2875 2841	20 30 40 14	2.387 3.581 4.775 1.671	24 36 48 17	2.865 4.297 5.730 2.029	1.200 1.200 1.200 1.214	3.28	3.37 4.59	5.24 6.47	6.37 4.30 7.59	7.12 5.05 8.34	7.87 5.80 9.09	8.62 6.55 9.84	9.37 7.30 10.59	10.12 8.05 5.98 11.34	10.87 8.81 6.73 12.09	12.00 9.93 7.86 13.22	13.12 11.06 8.99 14.34	14.25 12.18 10.11 15.47	15.37 13.31 11.24 16.59	16.87 14.81 12.74 18.09	18.37 16.31 14.24 19.59	19.87 17.81 15.74 21.09	21.37 19.31 17.24 22.59	22.87 20.81 18.74 24.09	25.87 23.81 21.74 27.09
949 949 943 939	1432 1432 1422 1417	2823 2823 2803 2793	18 36 26 17	2.149 4.297 3.104 2.029	22 44 32 21	2.626 5.252 3.820 2.507	1.222 1.222 1.231 1.235	2.61	3.74	5.62 3.92 5.81	6.75 5.05 6.93	7.50 5.80 7.68	8.25 6.55 8.43	9.00 5.23 7.30 9.18	9.75 5.98 8.05 9.93	10.50 6.73 8.80 10.68	11.25 7.49 9.56 11.43	12.37 8.61 10.68 12.56	13.50 9.74 11.81 13.69	14.62 10.86 12.93 14.81	15.75 11.99 14.06 15.94	17.25 13.49 15.56 17.44	18.75 14.99 17.06 18.94	20.25 16.49 18.56 20.44	21.75 17.99 20.06 21.94	23.25 19.49 21.56 23.44	26.25 22.50 24.56 26.44
937 928 928 928	1413 1400 1400 1400	2787 2760 2760 2760	21 16 24 32	2.507 1.910 2.865 3.820	26 20 30 40	3.104 2.387 3.581 4.775	1.238 1.250 1.250 1.250	2.80	4.12	4.96 6.00 4.30	6.09 7.12 5.43	6.84 7.87 6.18	7.59 8.62 6.93 5.23	8.34 9.37 7.68 5.98	9.09 10.12 8.43 6.73	9.84 10.87 9.18 7.48	10.59 11.62 9.93 8.24	11.71 12.75 11.06 9.36	12.84 13.87 12.18 10.49	13.96 15.00 13.31 11.61	15.09 16.12 14.43 12.74	16.59 17.62 15.93 14.24	18.09 19.12 17.43 15.74	19.59 20.62 18.93 17.24	21.09 22.12 20.43 18.74	22.59 23.62 21.93 20.24	25.59 26.62 24.93 23.24
928 918 911 902	1400 1385 1375 1361	2760 2731 2711 2683	48 19 22 14	5.730 2.268 2.626 1.671	60 24 28 18	7.162 2.865 3.342 2.149	1.250 1.263 1.273 1.286	3.18	3.46 4.49	5.34 4.67 6.37	6.46 5.80 7.50	7.21 6.55 8.25	7.96 7.30 9.00	8.71 8.05 9.75	9.46 8.81 10.50	10.21 9.56 11.25	10.96 10.31 12.00	12.09 11.43 13.12	7.09 13.22 12.56 14.25	8.22 14.34 13.68 15.37	9.35 15.47 14.81 16.50	10.85 16.97 16.31 18.00	12.35 18.47 17.81 19.50	13.86 19.97 19.31 21.00	15.36 21.47 20.81 22.50	16.86 22.97 22.31 24.00	19.86 25.97 25.31 27.00
902 896 892 884	1361 1352 1346 1333	2683 2666 2654 2629	28 17 20 16	3.342 2.029 2.387 1.910	36 22 26 21	4.297 2.626 3.104 2.507	1.286 1.294 1.300 1.313	2.70	3.83 3.17 4.02	5.71 5.05 5.90	4.47 6.84 6.18 7.02	5.23 7.59 6.93 7.78	5.98 8.34 7.68 8.53	6.73 9.09 8.43 9.28	7.49 9.84 9.18 10.03	8.24 10.59 9.93 10.78	8.99 11.34 10.68 11.53	10.11 12.47 11.81 12.65	11.24 13.59 12.93 13.78	12.37 14.72 14.06 14.90	13.49 15.84 15.18 16.03	14.99 17.34 16.68 17.53	16.49 18.84 18.18 19.03	17.99 20.34 19.68 20.53	19.49 21.84 21.18 22.03	20.99 23.34 22.68 23.53	24.00 26.34 25.68 26.53
870 870 870 870	1313 1313 1313 1313	2588 2588 2588 2588	12 18 21 24	1.432 2.149 2.507 2.865	16 24 28 32	1.910 2.865 3.342 3.820	1.333 1.333 1.333 1.333	3.55	4.87 3.54	6.75 5.43 4.76 4.10	7.87 6.55 5.89 5.23	8.62 7.30 6.64 5.98	9.37 8.05 7.39 6.73	10.12 8.80 8.15 7.48	10.87 9.56 8.90 8.24	11.62 10.31 9.65 8.99	12.37 11.06 10.40 9.74	13.50 12.18 11.52 10.86	14.62 13.31 12.65 11.99	15.75 14.43 13.77 13.12	16.87 15.56 14.90 14.24	18.37 17.06 16.40 15.74	19.87 18.56 17.90 17.24	21.37 20.06 19.40 18.74	22.87 21.56 20.90 20.24	24.37 23.06 22.40 21.74	27.37 26.06 25.40 24.75
870 870 855 851	1313 1313 1289 1283	2588 2588 2542 2530	30 36 14 22	3.581 4.297 1.671 2.626	40 48 19 30	4.775 5.730 2.268 3.581	1.333 1.333 1.357 1.364	3.08	4.40	6.27 4.47	7.40 5.60	4.65 8.15 6.36	5.40 8.90 7.11	6.16 9.65 7.86	6.91 5.58 10.40 8.61	7.66 6.33 11.15 9.36	8.42 7.09 11.90 10.11	9.54 8.22 13.03 11.24	10.67 9.35 14.15 12.37	11.80 10.48 15.28 13.49	12.92 11.60 16.40 14.62	14.42 13.11 17.90 16.12	15.93 14.61 19.40 17.62	17.43 16.11 20.90 19.12	18.93 17.61 22.40 20.62	20.43 19.11 23.90 22.12	23.43 22.11 26.90 25.12
851 848 844 844	1283 1279 1273 1273	2530 2521 2509 2509	44 19 16 32	5.252 2.268 1.910 3.820	60 26 22 44	7.162 3.104 2.626 5.252	1.364 1.368 1.375 1.375		3.25 3.92	5.14 5.80	6.27 6.93	7.02 7.68	7.77 8.43	8.52 9.18 5.58	9.27 9.93 6.33	10.02 10.68 7.09	10.77 11.43 7.84	11.90 12.56 8.97	7.44 13.02 13.68 10.10	8.57 14.15 14.81 11.23	9.70 15.28 15.93 12.35	11.21 16.78 17.43 13.86	12.71 18.28 18.93 15.36	14.22 19.78 20.43 16.86	15.72 21.28 21.93 18.36	17.22 22.78 23.43 19.86	20.23 25.78 26.44 22.86
838 829 829 822	1264 1250 1250 1240	2492 2464 2464 2444	26 10 20 17	3.104 1.194 2.387 2.029	36 14 28 24	4.297 1.671 3.342 2.865	1.385 1.400 1.400 1.412	3.93	5.24 3.63	7.12 4.85 5.52	4.65 8.25 5.98 6.64	5.40 9.00 6.73 7.39	6.16 9.75 7.49 8.15	6.91 10.50 8.24 8.90	7.66 11.25 8.99 9.65	8.42 12.00 9.74 10.40	9.17 12.75 10.49 11.15	10.29 13.87 11.62 12.27	11.42 15.00 12.74 13.40	12.55 16.12 13.87 14.53	13.67 17.25 14.99 15.65	15.18 18.75 16.49 17.15	16.68 20.25 17.99 18.65	18.18 21.75 19.49 20.15	19.68 23.25 21.00 21.65	21.18 24.75 22.50 23.15	24.18 27.75 25.50 26.15
819 812 812 812	1235 1225 1225 1225	2435 2415 2415 2415	12 14 21 28	1.432 1.671 2.507 3.342	17 20 30 40	2.029 2.387 3.581 4.775	1.417 1.429 1.429 1.429	3.46 2.98	4.77 4.30	6.65 6.18 4.56	7.78 7.30 5.69	8.53 8.05 6.45 4.82	9.28 8.81 7.20 5.58	10.03 9.56 7.95 6.33	10.78 10.31 8.70 7.09	11.53 11.06 9.45 7.84	12.28 11.81 10.20 8.60	13.40 12.93 11.33 9.72	14.53 14.06 12.46 10.85	15.65 15.18 13.58 11.98	16.78 16.31 14.71 13.11	18.28 17.81 16.21 14.61	19.78 19.31 17.71 16.11	21.28 20.81 19.21 17.61	22.78 22.31 20.71 19.11	24.28 23.81 22.21 20.61	27.28 26.81 25.21 23.61
803 798 791 787	1212 1203 1193 1188	2388 2372 2352 2341	18 22 30 19	2.149 2.626 3.581 2.268	26 32 44 28	3.104 3.820 5.252 3.342	1.444 1.455 1.467 1.474		3.34	5.23 4.27 4.94	6.36 5.40 6.07	7.11 6.16 6.82	7.86 6.91 4.99 7.57	8.61 7.66 5.75 8.33	9.36 8.42 6.51 9.08	10.11 9.17 7.26 9.83	10.86 9.92 8.02 10.58	11.99 11.05 9.15 11.71	13.12 12.17 10.28 12.83	14.24 13.30 11.41 13.96	15.37 14.42 12.53 15.08	16.87 15.93 14.04 16.59	18.37 17.43 15.54 18.09	19.87 18.93 17.04 19.59	21.37 20.43 18.54 21.09	22.87 21.93 20.05 22.59	25.87 24.93 23.05 25.59









	DriveN S	Speed Sprocket Combination speed of DriveR Drive			ons									(Center	Dista	nce, l	Inches	;								
Fo	r motor s	peed o	f [Dr			375 th	5.00 th	18.75 eth	.00 th	:.50 th	1.00 th	50 th	0. ^t	5.50 th).00 th	25 th	1.50 th	5.75 th	0.00 eth	42.00 Feeth	00 eth	3.00 eth	e#:0	00 eth	e#.0
116 RP	M RPM	RPN	1 groov	s inches		Pitch diam. inches	Speed Ratio	124L P.L. 12.375 33 Teeth	150L P.L. 15.0 40 Teeth	187L P.L. 50 Te	210L P.L. 21.00 56 Teeth		240L P.L. 24.00 64 Teeth	255L P.L. 25.50 68 Teeth	270L P.L. 27.0 72 Teeth	285L P.L. 28.5 76 Teeth	300L P.L. 30.0 80 Teeth	322L P.L. 32.2 86 Teeth	345L P.L. 34.5 92 Teeth	367L P.L. 36.7! 98 Teeth	390L P.L. 39.00 104 Teeth	420L P.L. 112	450L P.L. 45.00 120 Teeth	480L P.L. 48.00 128 Teeth	510L P.L. 51.00 136 Teeth		600L P.L. 60.00 160 Teeth
7 7 7	73 1167 73 1167 73 1167	7 230 7 230 7 230	0 1 0 1 0 2	5 1.910 0 2.387	30	2.149 2.507 2.865 3.581	1.500 1.500 1.500 1.500	3.36 2.88	4.67 4.20 3.72	6.55 6.08 5.60 4.65	7.68 7.21 6.73 5.78	8.43 7.96 7.48 6.54	9.18 8.71 8.24 7.29	9.93 9.46 8.99 8.04	10.68 10.21 9.74 8.79	11.43 10.96 10.49 9.54	12.18 11.71 11.24 10.30	13.31 12.84 12.37 11.42	14.43 13.96 13.49 12.55	15.56 15.09 14.62 13.67	16.68 16.21 15.74 14.80	18.18 17.71 17.24 16.30	19.68 19.21 18.74 17.80	21.18 20.71 20.24 19.30	22.68 22.21 21.74 20.80	24.18 23.71 23.24 22.30	27.19 26.72 26.25 25.31
7 7 7	73 1167 73 1167 73 1167	7 230 7 230 7 230	0 3 0 4 0 4	3.820 4.775 5.730	60 72	4.297 5.730 7.162 8.594	1.500 1.500 1.500 1.500				4.82	5.58	6.33	7.09 5.16	7.84 5.92	8.60 6.68	9.35 7.44	10.48 8.57 6.64	11.60 9.70 7.78	12.73 10.83 8.92	13.86 11.96 10.05 8.12	15.36 13.47 11.56 9.64	16.86 14.97 13.07 11.16	18.36 16.47 14.58 12.67	19.86 17.97 16.08 14.18	21.36 19.48 17.58 15.68	24.36 22.48 20.59 18.70
7(7) 7) 7	58 1144 54 1138	4 225 8 224	6 1 3 2	' 2.029 3 3.104	40	3.820 3.104 4.775 3.342	1.524 1.529 1.538 1.556		3.43 3.13	4.36 5.32 5.03	5.49 6.45 6.16	6.25 7.20 4.99 6.91	7.00 7.95 5.75 7.66	7.75 8.70 6.51 8.42	8.51 9.45 7.26 9.17	9.26 10.20 8.02 9.92	10.01 10.96 8.77 10.67	11.14 12.08 9.90 11.80	12.26 13.21 11.03 12.92	13.39 14.33 12.16 14.05	14.52 15.46 13.29 15.18	16.02 16.96 14.79 16.68	17.52 18.46 16.29 18.18	19.02 19.96 17.79 19.68	20.52 21.46 19.29 21.18	22.02 22.96 20.80 22.68	25.02 25.96 23.80 25.68
7: 7: 7: 7:	88 1114 85 1108	4 219 8 218	5 2	3 3.342	30	2.626 5.252 3.581 2.268	1.571 1.571 1.579 1.583	2.77 3.25	4.10	5.98 4.74 6.46	7.11 5.87 7.58	7.86 6.62 8.33	8.61 5.16 7.38 9.08	9.36 5.92 8.13 9.84	10.11 6.68 8.88 10.59	10.86 7.44 9.63 11.34	11.62 8.19 10.39 12.09	12.74 9.33 11.51 13.21	13.87 10.46 12.64 14.34	14.99 11.59 13.77 15.46	16.12 12.71 14.89 16.59	17.62 14.22 16.39 18.09	19.12 15.72 17.89 19.59	20.62 17.22 19.40 21.09	22.12 18.73 20.90 22.59	23.62 20.23 22.40 24.09	26.62 23.23 25.40 27.09
7: 7: 7: 7:	25 1094 25 1094	4 215 4 215	6 2 6 3	2.387	16 32 48 26	1.910 3.820 5.730 3.104	1.600 1.600 1.600 1.625	3.73	5.05 3.51	6.93 4.44 5.40	8.05 5.58 6.53	8.80 6.33 7.29	9.56 7.09 8.04	10.31 7.84 5.33 8.79	11.06 8.60 6.09 9.54	9.35 6.85 10.29	12.56 10.10 7.61 11.05	13.68 11.23 8.75 12.17	14.81 12.35 9.88 13.30	15.93 13.48 11.01 14.42	17.06 14.61 12.14 15.55	18.56 16.11 13.64 17.05	20.06 17.61 15.15 18.55	21.56 19.11 16.65 20.05	23.06 20.61 18.16 21.55	24.56 22.11 19.66 23.05	27.56 25.11 22.66 26.06
70 70 70 69	9 1069 4 1063	9 210 3 209	8 4 5 1	' 2.029	72 28	4.297 8.594 3.342 2.387	1.636 1.636 1.647 1.667	3.15	3.21 4.48	3.85 5.11 6.36	4.99 6.25 7.49	5.75 7.00 8.24	6.51 7.75 8.99	7.26 8.51 9.74	9.26 10.49	8.77 10.01 11.24	9.53 10.76 11.99	10.65 11.89 13.12	11.78 13.02 14.24	12.91 7.31 14.14 15.37	14.04 8.46 15.27 16.49	15.54 9.99 16.77 17.99	17.04 11.50 18.27 19.49	18.54 13.02 19.77 21.00	20.05 14.53 21.27 22.50	21.55 16.04 22.77 24.00	24.55 19.05 25.77 27.00
6: 6: 6:	96 1050 96 1050	0 207 0 207	0 2 0 3	2.865 4.297	40 60	3.581 4.775 7.162 3.820	1.667 1.667 1.667 1.684			4.82 4.53	5.96 4.40 5.67	6.71 5.16 6.42	7.47 5.92 7.18	8.22 6.68 7.93	8.97 7.44 8.68	9.72 8.19 9.44	10.48 8.95 10.19	11.60 10.08 6.98 11.32	12.73 11.21 8.12 12.44	13.86 12.34 9.26 13.57	14.98 13.47 10.40 14.70	16.48 14.97 11.91 16.20	17.99 16.47 13.42 17.70	19.49 17.97 14.93 19.20	20.99 19.48 16.44 20.70	22.49 20.98 17.94 22.20	25.49 23.98 20.95 25.21
66 67 67	32 1029 77 102	9 202 1 201	9 1) 1.194 1.671	44 17 24 36	5.252 2.029 2.865 4.297	1.692 1.700 1.714 1.714	3.63	4.95 3.89	6.83 5.78 3.93	7.96 6.91 5.08	4.56 8.71 7.66 5.84	5.33 9.46 8.42 6.60	6.09 10.21 9.17 7.35	6.85 10.96 9.92 8.11	7.61 11.71 10.67 8.86	8.37 12.46 11.42 9.61	9.50 13.59 12.55 10.74	10.63 14.71 13.67 11.87	11.76 15.84 14.80 13.00	12.89 16.96 15.93 14.13	14.40 18.46 17.43 15.63	15.90 19.96 18.93 17.13	17.40 21.46 20.43 18.63	18.91 22.96 21.93 20.14	20.41 24.47 23.43 21.64	23.41 27.47 26.43 24.64
6 6 6	3 1000 3 1000	0 197 0 197	1 1 1 1	6 1.910	21 28	5.730 2.507 3.342 10.027	1.714 1.750 1.750 1.750	3.05	4.37 3.30	6.26 5.20	7.39 6.33	8.14 7.09	8.89 7.84	5.49 9.64 8.60	6.26 10.39 9.35	7.02 11.14 10.10	7.78 11.89 10.85	8.92 13.02 11.98	10.05 14.15 13.11	11.19 15.27 14.23	12.32 16.40 15.36	13.82 17.90 16.86 8.35	15.33 19.40 18.36 9.89	16.83 20.90 19.86 11.42	18.34 22.40 21.36 12.95	19.84 23.90 22.86 14.46	22.84 26.90 25.87 17.49
6: 6: 6: 6:	3 984 4 972	4 194 2 191	1 1 7 1	3 2.149) 1.194	30 32 18 36	3.581 3.820 2.149 4.297	1.765 1.778 1.800 1.800	3.53	4.85	4.91 4.61 6.73 4.01	6.04 5.75 7.86 5.16	6.80 6.51 8.61 5.92	7.55 7.26 9.36 6.68	8.31 8.02 10.11 7.44	9.06 8.77 10.86 8.19	9.81 9.53 11.61 8.95	10.57 10.28 12.37 9.70	11.69 11.41 13.49 10.83	12.82 12.53 14.62 11.96	13.95 13.66 15.74 13.09	15.07 14.79 16.87 14.22	16.58 16.29 18.37 15.72	18.08 17.79 19.87 17.22	19.58 19.29 21.37 18.73	21.08 20.80 22.87 20.23	22.58 22.30 24.37 21.73	25.58 25.30 27.37 24.73
64 63 64 65	14 972 38 963 33 955 33 955	2 191 3 189 5 188 5 188	7 4 8 2 2 1	4.775 2 2.626 2 1.432	72 40	8.594 4.775 2.626 5.252	1.800 1.818 1.833 1.833	2.94	4.27	6.16	4.56 7.29	5.33 8.04 4.72	6.09 8.79 5.49	6.85 9.54 6.26	7.61 10.30 7.02	8.37 11.05 7.78	9.12 11.80 8.54	10.26 12.92 9.68	11.39 14.05 10.81	7.63 12.52 15.18 11.94	8.79 13.64 16.30 13.07	10.32 15.15 17.80 14.58	11.85 16.65 19.30 16.08	13.36 18.16 20.80 17.58	14.88 19.66 22.30 19.09	16.39 21.16 23.81 20.59	19.41 24.16 26.81 23.59
66 66 6	25 942 9 933	3 184	8 1 0 1	1.671 1.910	48 26 30 60	5.730 3.104 3.581 7.162	1.846 1.857 1.875 1.875		3.68	5.58 4.99	6.71 6.13	7.47 6.89	4.88 8.22 7.64	5.66 8.97 8.40	6.43 9.72 9.15	7.19 10.48 9.90	7.95 11.23 10.65 6.15	9.09 12.35 11.78 7.31	10.23 13.48 12.91 8.46	11.36 14.61 14.04 9.60	12.49 15.73 15.16 10.74	14.00 17.23 16.67 12.26	15.51 18.74 18.17 13.77	17.01 20.24 19.67 15.28	18.52 21.74 21.17 16.79	20.02 23.24 22.67 18.30	23.02 26.24 25.67 21.31





Drive Selection Table

Dri	iveN Speed Sprocket Combination			ons									(Cente	Dista	nce, l	Inches	3									
For m	otor spe	ed of	Dri	veR Pitch	Dri	veN Pitch		2.375 th	5.00 th	18.75 eeth	8. 1	2.50 th	t.00 th	5.50 th	7.00 th	3.50 th).00 th	2.25 th	1.50 th	3.75 th	39.00 Teeth	2.00 eth	5.00 eth	3.00 eth	1.00 eth	- 54.00 Teeth	e#.00
1160 RPM	1750 RPM	3450 RPM	No. of grooves	diam. inches	No. of grooves	diam. inches	Speed Ratio	124L P.L. 12.375 33 Teeth	150L P.L. 15.0 40 Teeth	187L P.L. 18.7 50 Teeth	210L P.L. 21.0 56 Teeth	225L P.L. 22.5 60 Teeth	240L P.L. 24.0 64 Teeth	255L P.L. 25.50 68 Teeth	270L P.L. 27.0 72 Teeth	285L P.L. 28.5 76 Teeth	300L P.L. 30.0 80 Teeth	322L P.L. 32.25 86 Teeth	345L P.L. 34.50 92 Teeth	367L P.L. 36.75 98 Teeth	390L P.L. 39 104 To	420L P.L. 42.00 112 Teeth	450L P.L. 45.00 120 Teeth	480L P.L. 48.00 128 Teeth	510L P.L. 51.0 136 Teet	540L P.L. 54 144 Tee	600L P.L. 60.00 160 Teeth
616 612 611 609	930 924 921 919	1833 1821 1816 1811	17 19 10 21	2.029 2.268 1.194 2.507	32 36 19 40	3.820 4.297 2.268 4.775	1.882 1.895 1.900 1.905	3.43	4.75	4.70 4.09 6.63	5.84 5.25 7.76 4.64	6.60 6.01 8.51 5.41	7.35 6.77 9.27 6.18	8.11 7.53 10.02 6.94	8.86 8.28 10.77 7.70	9.61 9.04 11.52 8.45	10.37 9.79 12.27 9.21	11.50 10.92 13.40 10.34	12.62 12.05 14.52 11.47	13.75 13.18 15.65 12.60	14.88 14.31 16.77 13.73	16.38 15.81 18.27 15.24	17.88 17.31 19.77 16.74	19.39 18.82 21.27 18.25	20.89 20.32 22.77 19.75	22.39 21.82 24.28 21.25	25.39 24.82 27.28 24.25
608 580 580 580	917 875 875 875	1807 1725 1725 1725	44 10 12 14	5.252 1.194 1.432 1.671	84 20 24 28	10.027 2.387 2.865 3.342	1.909 2.000 2.000 2.000	3.32 2.72	4.65 4.06 3.46	6.54 5.96 5.37	7.66 7.09 6.51	8.42 7.84 7.26	9.17 8.60 8.02	9.92 9.35 8.77	10.67 10.10 9.53	11.42 10.85 10.28	12.17 11.60 11.03	13.30 12.73 12.16	14.43 13.86 13.29	15.55 14.98 14.41	16.68 16.11 15.54	8.67 18.18 17.61 17.04	10.22 19.68 19.11 18.54	11.76 21.18 20.61 20.05	13.28 22.68 22.11 21.55	14.81 24.18 23.61 23.05	17.84 27.18 26.62 26.05
580 580 580 580	875 875 875 875	1725 1725 1725 1725	16 18 20 22	1.910 2.149 2.387 2.626	32 36 40 44	3.820 4.297 4.775 5.252	2.000 2.000 2.000 2.000			4.78 4.17	5.92 5.33 4.72	6.68 6.09 5.49 4.89	7.44 6.85 6.26 5.66	8.19 7.61 7.02 6.43	8.95 8.37 7.78 7.19	9.70 9.12 8.54 7.95	10.46 9.88 9.30 8.71	11.59 11.01 10.43 9.85	12.71 12.14 11.56 10.98	13.84 13.27 12.69 12.12	14.97 14.40 13.82 13.25	16.47 15.90 15.33 14.75	17.97 17.40 16.83 16.26	19.48 18.91 18.34 17.76	20.98 20.41 19.84 19.27	22.48 21.91 21.34 20.77	25.48 24.91 24.35 23.78
580 580 580 580	875 875 875 875	1725 1725 1725 1725	24 30 36 48	2.865 3.581 4.297 5.730	48 60 72 96	5.730 7.162 8.594 11.459	2.000 2.000 2.000 2.000						5.04	5.82	6.59	7.36	8.12 6.31	9.26 7.47	10.40 8.63 6.78	11.54 9.77 7.96	12.67 10.92 9.12	14.18 12.43 10.66	15.68 13.95 12.19	17.19 15.46 13.71 10.09	18.69 16.97 15.22 11.65	20.20 18.48 16.74 13.19	23.21 21.49 19.76 16.25
554 552 552 551	835 833 833 831	1647 1643 1643 1639	21 10 40 19	2.507 1.194 4.775 2.268	44 21 84 40	5.252 2.507 10.027 4.775	2.095 2.100 2.100 2.105	3.21	4.55	6.43	7.56 4.80	4.97 8.32 5.58	5.74 9.07 6.34	6.51 9.82 7.11	7.28 10.57 7.87	8.04 11.32 8.63	8.80 12.08 9.38	9.94 13.20 10.52	11.07 14.33 11.65	12.20 15.45 12.78	13.34 16.58 13.91	14.84 18.08 8.99 15.42	16.35 19.58 10.55 16.92	17.85 21.08 12.09 18.43	19.36 22.58 13.62 19.93	20.86 24.08 15.15 21.43	23.87 27.09 18.18 24.44
548 541 541 535	826 817 817 808	1629 1610 1610 1592	17 14 28 12	2.029 1.671 3.342 1.432	36 30 60 26	4.297 3.581 7.162 3.104	2.118 2.143 2.143 2.167		3.23	4.25 5.16 5.75	5.41 6.30 6.89	6.18 7.06 7.64	6.94 7.82 8.40	7.70 8.57 9.15	8.46 9.33 9.90	9.21 10.08 5.68 10.65	9.97 10.83 6.47 11.41	11.10 11.96 7.64 12.53	12.23 13.09 8.79 13.66	13.36 14.22 9.94 14.79	14.49 15.35 11.09 15.92	15.99 16.85 12.61 17.42	17.49 18.35 14.12 18.92	19.00 19.85 15.63 20.42	20.50 21.35 17.14 21.92	22.00 22.86 18.65 23.42	25.01 25.86 21.67 26.42
532 532 527 527	802 802 795 795	1581 1581 1568 1568	22 44 10 20	2.626 5.252 1.194 2.387	48 96 22 44	5.730 11.459 2.626 5.252	2.182 2.182 2.200 2.200	3.10	4.44	6.33	7.47 4.26	8.22 5.05	5.20 8.97 5.82	5.98 9.72 6.59	6.76 10.48 7.36	7.53 11.23 8.12	8.29 11.98 8.88	9.43 13.11 10.02	10.57 14.23 11.16	11.71 15.36 12.29	12.84 16.48 13.42	14.35 17.99 14.93	15.86 8.82 19.49 16.44	17.37 10.41 20.99 17.94	18.87 11.97 22.49 19.45	20.38 13.52 23.99 20.95	23.39 16.58 26.99 23.96
522 516 516 508	788 778 778 778 766	1553 1533 1533 1509	18 16 32 14	2.149 1.910 3.820 1.671	40 36 72 32	4.775 4.297 8.594 3.820	2.222 2.250 2.250 2.286			4.33 4.95	4.88 5.49 6.09	5.66 6.26 6.85	6.43 7.02 7.61	7.19 7.78 8.37	7.95 8.54 9.12	8.71 9.30 9.88	9.47 10.05 10.63	10.61 11.19 11.76	11.74 12.32 7.09 12.89	12.87 13.45 8.28 14.02	14.00 14.58 9.45 15.15	15.51 16.08 10.99 16.65	17.01 17.58 12.52 18.16	18.52 19.09 14.05 19.66	20.02 20.59 15.57 21.16	21.52 22.09 17.08 22.66	24.53 25.10 20.11 25.66
508 503 501 497	766 758 756 750	1509 1495 1490 1479	21 26 19 12	2.507 3.104 2.268 1.432	48 60 44 28	5.730 7.162 5.252 3.342	2.286 2.308 2.316 2.333		3.62	5.54	4.33 6.68	4.49 5.13 7.44	5.28 5.90 8.19	6.07 6.68 8.95	6.84 7.44 9.70	7.61 5.83 8.21 10.46	8.38 6.62 8.97 11.21	9.52 7.80 10.11 12.34	10.66 8.96 11.24 13.47	11.80 10.11 12.38 14.59	12.93 11.25 13.51 15.72	14.44 12.78 15.02 17.22	15.95 14.29 16.53 18.73	17.46 15.81 18.03 20.23	18.96 17.32 19.54 21.73	20.47 18.83 21.04 23.23	23.48 21.84 24.05 26.23
497 493 483 483	750 744 729 729	1479 1466 1438 1438	36 17 10 20	4.297 2.029 1.194 2.387	84 40 24 48	10.027 4.775 2.865 5.730	2.333 2.353 2.400 2.400	2.88	4.23	3.78 6.13	4.97 7.26	5.74 8.02 4.57	6.51 8.77 5.36	7.28 9.53 6.15	8.04 10.28 6.92	8.80 11.03 7.69	9.56 11.78 8.46	10.69 12.91 9.60	11.83 14.04 10.74	12.96 15.16 11.88	7.71 14.09 16.29 13.02	9.31 15.60 17.79 14.53	10.87 17.10 19.29 16.04	12.42 18.61 20.80 17.55	13.95 20.11 22.30 19.05	15.48 21.61 23.80 20.56	18.53 24.62 26.80 23.57
483 483 475 464	729 729 716 700	1438 1438 1411 1380	30 40 18 12	3.581 4.775 2.149 1.432	72 96 44 30	8.594 11.459 5.252 3.581	2.400 2.400 2.444 2.500		3.39	5.33	4.41 6.47	5.20 7.23	5.99 7.99	6.76 8.75	7.53 9.50	8.29 10.26	9.05 11.01	10.19 12.14	7.25 11.33 13.27	8.44 12.47 14.40	9.61 13.60 15.53	11.15 15.11 17.03	12.69 9.13 16.61 18.53	14.22 10.72 18.12 20.03	15.74 12.29 19.63 21.54	17.26 13.84 21.13 23.04	20.28 16.92 24.14 26.04
464 464 464	700 700 700	1380 1380 1380	16 24 48	1.910 2.865 5.730	40 60 120	4.775 7.162 14.324	2.500 2.500 2.500			3.86	5.04	5.82	6.59	7.36	8.12	8.88 5.98	9.64 6.78	10.78 7.96	11.91 9.12	13.05 10.27	14.18 11.42	15.68 12.95	17.19 14.46	18.69 15.98	20.20 17.49	21.70 19.00 10.34	24.71 22.02 13.56

Key to Horsepower Correction Factor =1.0 =0.8 ==0.6





	Dri	veN Spe	eed	Sp	rocket C	ombinatio	ons										Cente	r Dista	nce, l	Inches	3							
	For m	otor spe	ed of	Driv		Dri	veN		375 th	00 th	18.75 seth	9. ti	2.50 th	00 th	50 th	9. ₄	50 th	30.00 eeth	25 th	50 th	75 th	00 eth	42.00 Feeth	oo	#.00	9: 6:	00 eth	6±9
	1160 RPM	1750 RPM	3450 RPM	No. of grooves	Pitch diam. inches	No. of grooves	Pitch diam. inches	Speed Ratio	124L P.L. 12.375 33 Teeth	150L P.L. 15.0 40 Teeth	187L P.L. 18.7 50 Teeth	210L P.L. 21.00 56 Teeth	225L P.L. 22.5 60 Teeth	240L P.L. 24.00 64 Teeth	255L P.L. 25.50 68 Teeth	270L P.L. 27.0 72 Teeth		300L P.L.	322L P.L. 32.29 86 Teeth		367L P.L. 36.79 98 Teeth	390L P.L. 39.00 104 Teeth	420L P.L. 112	450L P.L. 45.00 120 Teeth	480L P.L. 48.00 128 Teeth	510L P.L. 51.00 136 Teeth		600L P.L. 60.00 160 Teeth
	459 451 451 448	693 681 681 676	1366 1342 1342 1333	19 14 28 17	2.268 1.671 3.342 2.029	48 36 72 44	5.730 4.297 8.594 5.252	2.526 2.571 2.571 2.588			4.49	5.66 4.49	4.64 6.43 5.28	5.44 7.19 6.07	6.23 7.95 6.84	7.00 8.71 7.61	7.77 9.47 8.38	8.54 10.23 9.14	9.69 11.36 6.18 10.28	10.83 12.49 7.40 11.42	11.97 13.62 8.60 12.55	13.10 14.75 9.77 13.69	14.62 16.26 11.32 15.20	16.13 17.76 12.86 16.70	17.63 19.27 14.39 18.21	19.14 20.77 15.91 19.72	20.65 22.27 17.43 21.22	23.66 25.28 20.46 24.23
	446 442 435 435	673 667 656 656	1327 1314 1294 1294	10 32 12 18	1.194 3.820 1.432 2.149	26 84 32 48	3.104 10.027 3.820 5.730	2.600 2.625 2.667 2.667	2.64	4.01 3.15	5.92 5.11	7.06 6.26	7.82 7.02 4.72	7.78 5.52	9.33 8.54 6.31	9.30 7.08	10.83 10.05 7.86	11.58 10.81 8.63	12.71 11.94 9.77	13.84 13.07 10.91	14.97 14.20 12.05	16.10 8.02 15.33 13.19	17.60 9.62 16.83 14.70	19.10 11.19 18.34 16.21	20.60 12.74 19.84 17.72	22.10 14.29 21.34 19.23	23.61 15.82 22.84 20.73	26.61 18.87 25.85 23.74
-	435 425 425	656 642 642	1294 1265 1265	36 22 44	4.297 2.626 5.252	96 60 120	11.459 7.162 14.324	2.667 2.727 2.727								5.32	6.14	6.94	8.12	9.28	10.44	11.59	13.12	9.44 14.64	11.04 16.15	12.61 17.67	14.17 19.18 10.64	17.25 22.20 13.88
	422 419 414 414	636 632 625 625	1255 1246 1232 1232	16 26 10 30	3.104 1.194 3.581	72 28 84	5.252 8.594 3.342 10.027	2.750 2.769 2.800 2.800		3.78	5.71	4.57 6.85	7.61	8.37	9.12	7.69 9.88	10.63	9.22	10.36 6.33 12.52	7.56 13.65	8.75 14.77	9.93 15.90 8 17	15.28 11.48 17.40 9.78	16.79 13.02 18.91 11.35	18.30 14.55 20.41 12.91	19.80 16.08 21.91 14.45	21.31 17.60 23.41 15.99	24.32 20.63 26.42 19.04
-	411 406 406	625 620 613 613	1232 1222 1208 1208	30 17 14 21	2.029 1.671 2.507	84 48 40 60	5.730 4.775 7.162	2.824 2.857 2.857		0.55	4.01	5.20	4.79 5.98	5.60 6.76	6.39 7.53	7.17 8.29 5.40	7.94 9.05 6.21	8.71 9.81 7.02	9.86 10.95 8.20	11.00 12.09 9.37	12.14 13.22 10.52	8.17 13.28 14.35 11.67	9.78 14.79 15.86 13.20	16.30 17.37 14.72	12.91 17.81 18.87 16.24	19.32 20.38 17.75	20.82 21.88 19.27	23.83 24.89 22.28
-	387 387 387 387	583 583 583 583	1150 1150 1150 1150	10 12 16 20	1.194 1.432 1.910 2.387	30 36 48 60	3.581 4.297 5.730 7.162	3.000 3.000 3.000 3.000		3.55	5.49 4.65	6.64 5.82	7.40 6.59 4.87	8.16 7.36 5.68	8.92 8.12 6.47	9.68 8.88 7.25 5.47	10.43 9.64 8.02 6.29	11.19 10.40 8.79 7.09	12.32 11.54 9.94 8.28	13.45 12.67 11.08 9.45	14.58 13.80 12.23 10.61	15.70 14.93 13.36 11.76	17.21 16.44 14.88 13.29	18.71 17.94 16.39 14.81	20.21 19.45 17.90 16.33	21.72 20.95 19.41 17.84	23.22 22.45 20.91 19.35	26.22 25.46 23.92 22.37
-	387 387 387 387	583 583 583 583	1150 1150 1150 1150	24 28 32 40	2.865 3.342 3.820	72 84 96 120	8.594 10.027 11.459 14.324	3.000 3.000 3.000											6.48	7.71	8.91 7.07	10.09 8.32	11.65 9.93 8.08	13.19 11.51 9.74	14.72 13.07 11.35	16.25 14.62 12.93	17.77 16.15 14.49 10.94	20.80 19.21 17.58 14.19
	369 367 363	557 554 547	1098 1093 1078	14 19 10	4.775 1.671 2.268 1.194	44 60 32	5.252 7.162 3.820	3.000 3.143 3.158 3.200		3.30	5.27	4.72 6.43	5.52 7.19	6.31 7.95	7.09 8.71	7.86 5.54 9.47	8.63 6.37 10.23	9.39 7.17 10.98	10.54 8.36 12.12	11.68 9.53 13.25	12.81 10.69 14.38	13.95 11.84 15.51	15.46 13.37 17.01	16.97 14.89 18.52	18.48 16.41 20.02	19.98 17.93 21.52	21.49 19.44 23.02	24.50 22.46 26.03
	363 359 354	547 542 535	1078 1068 1054	30 26 22	3.581 3.104 2.626	96 84 72	11.459 10.027 8.594	3.200 3.231 3.273			1.10	5.00			7.00				6.63	7.86	7.21 9.07	8.47 10.25	8.22 10.09 11.81	9.89 11.67 13.35	11.51 13.23 14.89	13.09 14.78 16.42	14.65 16.32 17.94	17.75 19.38 20.98
	348 348 348 338	525 525 525 510	1035 1035 1035 1006	12 18 36 14	1.432 2.149 4.297 1.671	40 60 120 48	4.775 7.162 14.324 5.730	3.333 3.333 3.333 3.429			4.16	5.36 4.18	5.02	6.92 5.83	7.69 6.62	8.46 5.62 7.41	9.22 6.44 8.18	9.98 7.25 8.96	11.12 8.44 10.11	12.26 9.61 11.25	13.40 10.77 12.40	14.53 11.92 13.53	16.04 13.45 15.05	17.55 14.98 16.56	19.05 16.50 18.07	20.56 18.01 9.52 19.58	22.06 19.53 11.24 21.09	25.07 22.55 14.50 24.10
	338 338 331 329	510 510 500 496	1006 1006 986 978	21 28 24 17	2.507 3.342 2.865 2.029	72 96 84 60	8.594 11.459 10.027 7.162	3.429 3.429 3.500 3.529							4.83	5.69	6.52	7.33	6.70 8.52	7.94 9.69	9.15 7.36 10.85	10.33 8.62 12.01	11.89 8.37 10.24 13.54	13.44 10.04 11.83 15.06	14.97 11.66 13.39 16.58	16.50 13.25 14.94 18.10	18.02 14.82 16.48 19.61	21.06 17.91 19.55 22.64
	322 322 316 314	486 486 477 474	958 958 941 934	10 20 12 26	1.194 2.387 1.432 3.104	36 72 44 96	4.297 8.594 5.252 11.459	3.600 3.600 3.667 3.692			4.81	5.99 4.87	6.76 5.68	7.53 6.47	8.29 7.25	9.05	9.81	10.57	11.71 6.78 10.70	12.84 8.02 11.85	13.98 9.22 12.98	15.11 10.41 14.12	16.61 11.97 15.63 8.52	18.12 13.52 17.14 10.19	19.63 15.05 18.65 11.82	21.13 16.58 20.16 13.41	22.63 18.11 21.67 14.98	25.64 21.15 24.68 18.08
	309 309 306 304	467 467 462 458	920 920 910 904	16 32 19 22	1.910 3.820 2.268 2.626	60 120 72 84	7.162 14.324 8.594 10.027	3.750 3.750 3.789 3.818							4.90	5.77	6.59	7.40	8.60 6.85	9.77 8.09	10.93 9.30 7.51	12.09 10.49 8.77	13.62 12.05 10.40	15.15 13.60 11.99	16.67 15.14 13.55	18.18 9.81 16.67 15.11	19.70 11.53 18.19 16.65	22.72 14.81 21.23 19.71



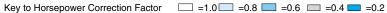


The Gates Rubber Company

L, 0.375" Pitch Belts

Dri	veN Sp	eed	Sį	orocket C	ombinati	ons									(Center	Dista	nce, l	Inches	3							
For m	otor sp	peed of	Driv	veR Pitch	Dri	iveN Pitch		2.375 th	5.00 th	3.75 th	1.00 th	2.50 th	1.00 th	5.50 th	7.00 th	3.50 th	0.00 th	2.25 th	1.50 th	5.75 th	9.00 eth	2.00 eth	5.00 eth	3.00 eth	1.00 eth	4.00 eth	0.00 eth
1160 RPM	1750 RPM	3450 RPM	No. of grooves	diam. inches	No. of grooves	diam. inches	Speed Ratio	124L P.L. 12.375 33 Teeth	150L P.L. 15.00 40 Teeth	187L P.L. 18.75 50 Teeth	210L P.L. 21.00 56 Teeth	225L P.L. 22.50 60 Teeth	240L P.L. 24.0 64 Teeth	255L P.L. 25.50 68 Teeth	270L P.L. 27.0 72 Teeth	285L P.L. 28.50 76 Teeth	300L P.L. 30.00 80 Teeth		345L P.L. 34.50 92 Teeth	367L P.L. 36.75 98 Teeth	390L P.L. 39.00 104 Teeth	420L P.L. 42.00 112 Teeth	450L P.L. 45.00 120 Teeth	480L P.L. 48.00 128 Teeth	510L P.L. 51.00 136 Teeth	540L P.L. 54.00 144 Teeth	600L P.L. 60.00 160 Teeth
290 290 290 290	438 438 438 438	863 863	10 12 18 21	1.194 1.432 2.149 2.507	40 48 72 84	4.775 5.730 8.594 10.027	4.000 4.000 4.000 4.000			4.31	5.52 4.33	6.31 5.17	7.08 5.98	7.86 6.78	8.63 7.57	9.39 8.35	10.15 9.12 5.61	11.29 10.27 6.92	12.43 11.42 8.17	13.57 12.57 9.38 7.58	14.70 13.71 10.57 8.84	16.21 15.22 12.13 10.47	17.72 16.74 13.68 12.07	19.23 18.25 15.22 13.63	20.73 19.76 16.75 15.19	22.24 21.27 18.28 16.73	25.25 24.28 21.32 19.80
290 290 276 274	438 438 417 413	863 863 821	24 30 20 17	2.865 3.581 2.387 2.029	96 120 84 72	11.459 14.324 10.027 8.594	4.000 4.000 4.200 4.235										5.68	7.00	8.24	7.65 9.46	8.92 10.65	8.66 10.55 12.21	10.34 12.14 13.76	11.97 13.71 15.30	13.56 9.95 15.27 16.84	15.14 11.68 16.81 18.36	18.24 14.96 19.88 21.40
271 271 266 264	408 408 401 398	805 805 791	14 28 22 10	1.671 3.342 2.626 1.194	60 120 96 44	7.162 14.324 11.459 5.252	4.286 4.286 4.364 4.400			3.75	5.02	5.83	6.62	5.05 7.41	5.91 8.18	6.75 8.96	7.56	8.75	9.93	11.10	12.25	13.79 8.80 15.81	15.32 10.49 17.32	16.84 12.12 18.83	18.36 10.09 13.72 20.34	19.87 11.83 15.30 21.84	22.90 15.12 18.41 24.85
262 258 254 251	396 389 383 379	780 767 755	19 16 21 26	2.268 1.910 2.507 3.104	84 72 96 120	10.027 8.594 11.459 14.324	4.421 4.500 4.571 4.615			3.73	3.02	3.03	0.02	7.41	0.10	0.50	5.75	7.07	6.37 8.32	7.72 9.53	8.99 10.73	10.63 12.29 8.88	12.22 13.84 10.57	13.79 15.39 12.20	15.35 16.92 13.80 10.23	16.90 18.45 15.37 11.97	19.97 21.49 18.49 15.27
249 242 242 235	375 365 365 354	739 719 719 698	18 10 20 17	2.149 1.194 2.387 2.029	84 48 96 84	10.027 5.730 11.459 10.027	4.667 4.800 4.800 4.941				4.47	5.32	6.14	6.94	7.73	8.51	9.28	10.44	6.44 11.59 6.51	7.79 12.73 7.87	9.07 13.88 7.13 9.14	10.70 15.39 8.95 10.78	12.30 16.91 10.64 12.38	13.87 18.42 12.28 13.95	15.43 19.93 13.88 15.51	16.98 21.44 15.45 17.06	20.05 24.46 18.57 20.13
232 232 230 226	350 350 346 340	690 690 683 671	12 24 19 14	1.432 2.865 2.268 1.671	60 120 96 72	7.162 14.324 11.459 8.594	5.000 5.000 5.053 5.143							5.19	6.06	6.90	7.71 5.89	8.91 7.22	10.09	9.69	7.19 10.88	13.96 9.02 12.45	15.48 10.72 14.01	17.01 12.35 15.55	18.53 10.37 13.96 17.09	20.05 12.12 15.53 18.62	23.07 15.42 18.65 21.66
221 218 213 205	333 328 321 310	657 647 633	16 18 22 17	1.910 2.149 2.626 2.029	84 96 120 96	10.027 11.459 14.324 11.459	5.250 5.333 5.455 5.647												6.58	7.94	9.22 7.26 7.33	10.86 9.09 9.16	12.46 10.79 10.87	14.03 12.43 12.51	15.59 14.03 10.51 14.11	17.14 15.61 12.26 15.69	20.22 18.73 15.58 18.81
203 193 193 193	306 292 292 292	575 575 575	21 10 12 14	2.507 1.194 1.432 1.671	120 60 72 84	14.324 7.162 8.594 10.027	5.714 6.000 6.000 6.000						4.37	5.33	6.20	7.05	7.86 6.03	9.07 7.36	10.25 8.62 6.71	11.42 9.84 8.08	12.58 11.04 9.36	14.12 12.61 11.01	15.65 14.17 12.61	8.68 17.18 15.72 14.19	10.58 18.70 17.25 15.76	12.34 20.22 18.78 17.31	15.65 23.25 21.83 20.38
193 193 184 174	292 292 277 263	575 575 546 518	16 20 19 18	1.910 2.387 2.268 2.149	96 120 120 120	11.459 14.324 14.324 14.324	6.000 6.000 6.316 6.667														7.40	9.24	10.94	12.58 8.75 8.81 8.88	14.19 10.66 10.73 10.80	15.77 12.41 12.48 12.56	18.89 15.73 15.80 15.88
169 166 164 161	255 250 248 243	503 493 489 479	14 12 17 10	1.671 1.432 2.029 1.194	96 84 120 72	11.459 10.027 14.324 8.594	6.857 7.000 7.059 7.200									5.17	6.16	7.51	6.85 8.77	8.22 9.99	7.53 9.51 11.20	9.38 11.16 12.77	11.09 12.77 14.33	12.74 14.35 8.95 15.88	14.34 15.92 10.87 17.42	15.93 17.47 12.63 18.95	19.06 20.55 15.96 22.00
155 145 138 135	233 219 208 204	460 431 411 403	16 12 10 14	1.910 1.432 1.194 1.671	120 96 84 120	14.324 11.459 10.027 14.324	7.500 8.000 8.400 8.571												6.99	8.37	7.67 9.66	9.52 11.31	11.24 12.92	9.01 12.89 14.51 9.15	10.94 14.50 16.08 11.08	12.70 16.09 17.63 12.85	16.03 19.22 20.71 16.18
121 116 97	182 175 146	359 345 288	10 12 10	1.194 1.432 1.194	96 120 120	11.459 14.324 14.324	9.600 10.000 12.000				·										7.80	9.66	11.38	13.04 9.28 9.41	14.65 11.22 11.36	16.24 12.99 13.13	19.38 16.34 16.49





The Driving Force in Power Transmission.

H, 0.500" Pitch Belts

Dr	iveN S	peed	Sį	rocket C	ombinatio	ns												Cent	er Di	stand	e, In	ches										
For n	notor s	peed of	Dri	veR	Driv	/eN	1	0	0	00 .	-	8_	8_	0	0	0	۰.	0.	8.	۰.	۰.	۰.	۰.	۰.	۰.	۰.	۰.	8_	8.	8.	8_	8_
1160 RPM	1750 RPM	PM RPM grooves inches grooves					Speed Ratio	240H P.L. 24.0 48 Teeth	270H P.L. 27.00 54 Teeth	9	330H P.L. 33.0 66 Teeth	360H P.L. 36. 72 Teeth	390H P.L. 39. 78 Teeth	420H P.L. 42.0 84 Teeth	450H P.L. 45.0 90 Teeth	480H P.L. 48.0 96 Teeth	510H P.L. 51.0 102 Teeth	540H P.L. 54.00 108 Teeth	570H P.L. 57.0 114 Teett	600H P.L. 60.0 120 Teett	630H P.L. 63.00 126 Teeth	660H P.L. 1327	700H P.L. 70.00 140 Teeth	750H P.L. 75.00 150 Teeth	800H P.L. 80.00 160 Teeth	850H P.L. 85.00 170 Teeth	900H P.L. 90.0 180 Teetf	1000H P.L. 100. 200 Teett	1100H P.L. 110. 220 Teeth	1250H P.L. 125. 250 Teeth	1400H P.L. 140. 280 Teeth	1700H P.L. 170. 340 Teeth
1160 1160 1160 1160	1750 1750 1750 1750	3450 3450 3450 3450	14 16 18 19	2.546 2.865 3.024	14 16 18 19	2.228 2.546 2.865 3.024	1.000 1.000 1.000 1.000	8.50 8.00 7.50 7.25	10.00 9.50 9.00 8.75	11.50 11.00 10.50 10.25	13.00 12.50 12.00 11.75	14.50 14.00 13.50 13.25	16.00 15.50 15.00 14.75	17.50 17.00 16.50 16.25	19.00 18.50 18.00 17.75	20.50 20.00 19.50 19.25	22.00 21.50 21.00 20.75	23.50 23.00 22.50 22.25	25.00 24.50 24.00 23.75	26.50 26.00 25.50 25.25	28.00 27.50 27.00 26.75	29.50 29.00 28.50 28.25	31.50 31.00 30.50 30.25	34.00 33.50 33.00 32.75	36.50 36.00 35.50 35.25	39.00 38.50 38.00 37.75	41.50 41.00 40.50 40.25	46.50 46.00 45.50 45.25	51.50 51.00 50.50 50.25	59.00 58.50 58.00 57.75	66.50 66.00 65.50 65.25	81.50 81.00 80.50 80.25
1160 1160 1160 1160	1750 1750 1750 1750	3450	20 21 22 24	3.183 3.342 3.501 3.820	20 21 22 24	3.183 3.342 3.501 3.820	1.000 1.000 1.000 1.000	7.00 6.75 6.50 6.00	8.50 8.25 8.00 7.50	10.00 9.75 9.50 9.00	11.50 11.25 11.00 10.50	13.00 12.75 12.50 12.00	14.50 14.25 14.00 13.50	16.00 15.75 15.50 15.00	17.50 17.25 17.00 16.50	19.00 18.75 18.50 18.00	20.50 20.25 20.00 19.50	22.00 21.75 21.50 21.00	23.50 23.25 23.00 22.50	25.00 24.75 24.50 24.00	26.50 26.25 26.00 25.50	28.00 27.75 27.50 27.00	30.00 29.75 29.50 29.00	32.50 32.25 32.00 31.50	35.00 34.75 34.50 34.00	37.50 37.25 37.00 36.50	40.00 39.75 39.50 39.00	45.00 44.75 44.50 44.00	50.00 49.75 49.50 49.00	57.50 57.25 57.00 56.50	65.00 64.75 64.50 64.00	80.00 79.75 79.50 79.00
1160 1160 1160 1160	1750 1750 1750 1750	3450 3450 3450 3450	26 28 30 32	4.138 4.456 4.775 5.093	26 28 30 32	4.138 4.456 4.775 5.093	1.000 1.000 1.000 1.000	5.50 5.00	7.00 6.50 6.00 5.50	8.50 8.00 7.50 7.00	10.00 9.50 9.00 8.50	11.50 11.00 10.50 10.00	13.00 12.50 12.00 11.50	14.50 14.00 13.50 13.00	16.00 15.50 15.00 14.50	17.50 17.00 16.50 16.00	19.00 18.50 18.00 17.50	20.50 20.00 19.50 19.00	22.00 21.50 21.00 20.50	23.50 23.00 22.50 22.00	25.00 24.50 24.00 23.50	25.00	28.50 28.00 27.50 27.00	31.00 30.50 30.00 29.50	33.50 33.00 32.50 32.00	36.00 35.50 35.00 34.50	38.50 38.00 37.50 37.00	43.50 43.00 42.50 42.00	48.50 48.00 47.50 47.00	56.00 55.50 55.00 54.50	63.50 63.00 62.50 62.00	78.50 78.00 77.50 77.00
1160 1160 1160 1160	1750 1750 1750 1750	3450	36 40 44 48	5.730 6.366 7.003 7.639	36 40 44 48	5.730 6.366 7.003 7.639	1.000 1.000 1.000 1.000				7.50	9.00 8.00	10.50 9.50 8.50	12.00 11.00 10.00 9.00	13.50 12.50 11.50 10.50	15.00 14.00 13.00 12.00	16.50 15.50 14.50 13.50	18.00 17.00 16.00 15.00	19.50 18.50 17.50 16.50	21.00 20.00 19.00 18.00	22.50 21.50 20.50 19.50	24.00 23.00 22.00 21.00	26.00 25.00 24.00 23.00	28.50 27.50 26.50 25.50	31.00 30.00 29.00 28.00	33.50 32.50 31.50 30.50	36.00 35.00 34.00 33.00	41.00 40.00 39.00 38.00	46.00 45.00 44.00 43.00	53.50 52.50 51.50 50.50	61.00 60.00 59.00 58.00	76.00 75.00 74.00 73.00
1107 1105 1102 1099	1670 1667 1663 1658	3286 3278 3 3268	21 20 19 18	3.342 3.183 3.024 2.865	22 21 20 19	3.501 3.342 3.183 3.024	1.048 1.050 1.053 1.056	6.63 6.87 7.12 7.37	8.13 8.37 8.62 8.87	9.63 9.87 10.12 10.37	11.13 11.37 11.62 11.87	12.63 12.88 13.12 13.37	14.13 14.38 14.62 14.87	15.63 15.88 16.12 16.37	17.13 17.38 17.62 17.87	18.63 18.88 19.12 19.37	20.13 20.38 20.62 20.87	21.63 21.88 22.12 22.37	23.13 23.38 23.62 23.87	24.63 24.88 25.12 25.37	26.13 26.38 26.62 26.87	27.63 27.88 28.12 28.37	29.63 29.88 30.12 30.37	32.13 32.38 32.62 32.87	34.63 34.88 35.12 35.37	37.13 37.38 37.62 37.87	39.63 39.88 40.12 40.37	44.63 44.88 45.12 45.37	49.63 49.88 50.12 50.37	57.13 57.38 57.62 57.87	64.63 64.88 65.12 65.37	79.63 79.88 80.12 80.37
1088 1083 1077 1071	1641 1633 1625 1615	3185	30 28 26 24	4.775 4.456 4.138 3.820	32 30 28 26	5.093 4.775 4.456 4.138	1.067 1.071 1.077 1.083	5.25 5.75	5.75 6.25 6.75 7.25	7.25 7.75 8.25 8.75	8.75 9.25 9.75 10.25	10.25 10.75 11.25 11.75	11.75 12.25 12.75 13.25	13.25 13.75 14.25 14.75	14.75 15.25 15.75 16.25	16.25 16.75 17.25 17.75	17.75 18.25 18.75 19.25	19.25 19.75 20.25 20.75	20.75 21.25 21.75 22.25	22.25 22.75 23.25 23.75	23.75 24.25 24.75 25.25	25.25 25.75 26.25 26.75	27.25 27.75 28.25 28.75	29.75 30.25 30.75 31.25	32.25 32.75 33.25 33.75	34.75 35.25 35.75 36.25	37.25 37.75 38.25 38.75	42.25 42.75 43.25 43.75	47.25 47.75 48.25 48.75	54.75 55.25 55.75 56.25	62.25 62.75 63.25 63.75	77.25 77.75 78.25 78.75
1063 1063 1055 1055	1604 1604 1591 1591	3163 3136 3136	22 44 20 40	3.501 7.003 3.183 6.366	24 48 22 44	3.820 7.639 3.501 7.003	1.091 1.091 1.100 1.100	6.25 6.75	7.75 8.25	9.25 9.75	10.75 11.25	12.25 12.75 7.49	13.75 7.99 14.25 8.99	15.25 9.49 15.75 10.50	16.75 11.00 17.25 12.00	18.25 12.50 18.75 13.50	19.75 14.00 20.25 15.00	21.25 15.50 21.75 16.50	22.75 17.00 23.25 18.00	24.25 18.50 24.75 19.50	25.75 20.00 26.25 21.00	27.25 21.50 27.75 22.50	29.25 23.50 29.75 24.50	31.75 26.00 32.25 27.00	34.25 28.50 34.75 29.50	36.75 31.00 37.25 32.00	39.25 33.50 39.75 34.50	44.25 38.50 44.75 39.50	49.25 43.50 49.75 44.50	56.75 51.00 57.25 52.00	64.25 58.50 64.75 59.50	79.25 73.50 79.75 74.50
1050 1044 1044 1031	1583 1575 1575 1575	3105 3067	19 18 36 16	3.024 2.865 5.730 2.546	21 20 40 18	3.342 3.183 6.366 2.865	1.105 1.111 1.111 1.125	7.00 7.25 7.75	8.50 8.75 9.25	10.00 10.25 10.75	11.50 11.75 6.99 12.25	13.00 13.25 8.49 13.75	14.50 14.75 9.99 15.25	16.00 16.25 11.50 16.75	17.50 17.75 13.00 18.25	19.00 19.25 14.50 19.75	20.50 20.75 16.00 21.25	22.00 22.25 17.50 22.75	23.50 23.75 19.00 24.25	25.00 25.25 20.50 25.75	26.50 26.75 22.00 27.25	28.00 28.25 23.50 28.75	30.00 30.25 25.50 30.75	32.50 32.75 28.00 33.25	35.00 35.25 30.50 35.75	37.50 37.75 33.00 38.25	40.00 40.25 35.50 40.75	45.00 45.25 40.50 45.75	50.00 50.25 45.50 50.75	57.50 57.75 53.00 58.25	65.00 65.25 60.50 65.75	80.00 80.25 75.50 80.75
1031 1015 1015 1015	1556 1531 1531 1531	3019 3019 3019	32 14 21 28	5.093 2.228 3.342 4.456	36 16 24 32	5.730 2.546 3.820 5.093	1.125 1.143 1.143 1.143	8.25 6.37	9.75 7.87 5.99	6.49 11.25 9.37 7.49	7.99 12.75 10.87 8.99	9.49 14.25 12.37 10.50	11.00 15.75 13.87 12.00	12.50 17.25 15.37 13.50	14.00 18.75 16.87 15.00	15.50 20.25 18.37 16.50	17.00 21.75 19.87 18.00	18.50 23.25 21.37 19.50	20.00 24.75 22.87 21.00	21.50 26.25 24.37 22.50	23.00 27.75 25.87 24.00	24.50 29.25 27.37 25.50	26.50 31.25 29.37 27.50	29.00 33.75 31.87 30.00	31.50 36.25 34.37 32.50	34.00 38.75 36.87 35.00	36.50 41.25 39.37 37.50	41.50 46.25 44.37 42.50	46.50 51.25 49.37 47.50	54.00 58.75 56.87 55.00	61.50 66.25 64.37 62.50	76.50 81.25 79.37 77.50
1005 1002 994 994	1517 1511 1500 1500	2980 2957 2957	26 19 18 24	4.138 3.024 2.865 3.820	30 22 21 28	4.775 3.501 3.342 4.456	1.154 1.158 1.167 1.167	4.99 6.87 7.12 5.49	6.49 8.37 8.62 6.99	7.99 9.87 10.12 8.49	9.49 11.37 11.62 9.99	11.00 12.87 13.12 11.50	12.50 14.37 14.62 13.00	14.00 15.87 16.12 14.50	15.50 17.37 17.62 16.00	17.00 18.87 19.12 17.50	18.50 20.37 20.62 19.00	20.00 21.87 22.12 20.50	21.50 23.37 23.62 22.00	23.00 24.87 25.12 23.50	24.50 26.37 26.62 25.00	26.00 27.87 28.12 26.50	28.00 29.87 30.12 28.50	30.50 32.37 32.62 31.00	33.00 34.87 35.12 33.50	35.50 37.37 37.62 36.00	38.00 39.87 40.12 38.50	43.00 44.87 45.12 43.50	48.00 49.87 50.12 48.50	55.50 57.37 57.62 56.00	63.00 64.87 65.12 63.50	78.00 79.87 80.12 78.50
982 977 967 967	1481 1474 1458 1458	2875 2875	22 16 20 30	3.501 2.546 3.183 4.775	26 19 24 36	4.138 3.024 3.820 5.730	1.182 1.188 1.200 1.200	5.99 7.62 6.49	7.49 9.12 7.99	8.99 10.62 9.49 6.73	10.50 12.12 11.00 8.24	12.00 13.62 12.50 9.74	13.50 15.12 14.00 11.24	15.00 16.62 15.50 12.74	16.50 18.12 17.00 14.24	18.00 19.62 18.50 15.74	19.50 21.12 20.00 17.24	21.00 22.62 21.50 18.74	22.50 24.12 23.00 20.24	24.00 25.62 24.50 21.74	25.50 27.12 26.00 23.24	27.00 28.62 27.50 24.74	29.00 30.62 29.50 26.75	31.50 33.12 32.00 29.25	34.00 35.62 34.50 31.75	36.50 38.12 37.00 34.25	39.00 40.62 39.50 36.75	44.00 45.62 44.50 41.75	49.00 50.62 49.50 46.75	56.50 58.12 57.00 54.25	64.00 65.62 64.50 61.75	79.00 80.62 79.50 76.75
967 949 949 943	1458 1432 1432 1422	2 2823	40 18 36 26	6.366 2.865 5.730 4.138	48 22 44 32	7.639 3.501 7.003 5.093	1.200 1.222 1.222 1.231	6.99	8.49 6.23	10.00 7.74	11.50 9.24	13.00 7.97 10.74	8.48 14.50 9.48 12.24	9.98 16.00 10.98 13.74	11.48 17.50 12.48 15.24	12.98 19.00 13.99 16.74	14.49 20.50 15.49 18.24	15.99 22.00 16.99 19.74	17.49 23.50 18.49 21.24	18.99 25.00 19.99 22.74	20.49 26.50 21.49 24.25	21.99 28.00 22.99 25.75	23.99 30.00 24.99 27.75	26.49 32.50 27.49 30.25	28.99 35.00 29.99 32.75	31.49 37.50 32.49 35.25	33.99 40.00 34.99 37.75	39.00 45.00 39.99 42.75	44.00 50.00 45.00 47.75	51.50 57.50 52.50 55.25	59.00 65.00 60.00 62.75	74.00 80.00 75.00 77.75
937 928 928 928	1413 1400 1400 1400	2760 2760 2760 2760	21 16 24 32	3.342 2.546 3.820 5.093		4.138 3.183 4.775 6.366	1.238 1.250 1.250 1.250	6.11 7.49 5.23	7.61 8.99 6.73	9.12 10.50 8.24	10.62 12.00 9.74 7.47	12.12 13.50 11.24 8.98	13.62 15.00 12.74 10.48	15.12 16.50 14.24 11.98	16.62 18.00 15.74 13.49	18.12 19.50 17.24 14.99	19.62 21.00 18.74 16.49	21.12 22.50 20.24 17.99	22.62 24.00 21.74 19.49	24.12 25.50 23.24 20.99	25.62 27.00 24.74 22.49	27.12 28.50 26.25 23.99	29.12 30.50 28.25 25.99	31.62 33.00 30.75 28.49	34.12 35.50 33.25 30.99	36.62 38.00 35.75 33.49	39.12 40.50 38.25 35.99	44.12 45.50 43.25 41.00	49.12 50.50 48.25 46.00	56.62 58.00 55.75 53.50	64.12 65.50 63.25 61.00	79.12 80.50 78.25 76.00
928 918 911 902	1400 1385 1375 1361	2731 2711 2683	48 19 22 14	7.639 3.024 3.501 2.228	60 24 28 18	9.549 3.820 4.456 2.865	1.250 1.263 1.273 1.286	6.61 5.73 7.99	8.11 7.23 9.49	9.62 8.74 11.00	11.12 10.24 12.50	12.62 11.74 14.00	14.12 13.24 15.50	15.62 14.74 17.00	8.95 17.12 16.24 18.50	10.46 18.62 17.74 20.00	11.96 20.12 19.24 21.50	13.47 21.62 20.75 23.00	14.97 23.12 22.25 24.50	16.47 24.62 23.75 26.00	17.98 26.12 25.25 27.50	19.48 27.62 26.75 29.00	21.48 29.62 28.75 31.00	23.98 32.12 31.25 33.50	26.48 34.62 33.75 36.00	28.98 37.12 36.25 38.50	31.49 39.62 38.75 41.00	36.49 44.62 43.75 46.00	41.49 49.62 48.75 51.00	48.99 57.12 56.25 58.50	56.49 64.62 63.75 66.00	71.49 79.62 78.75 81.00
902 892	1361 1346	2683 2654	28 20	4.456 3.183	36 26	5.730 4.138	1.286 1.300	6.23	5.46 7.74	6.97 9.24	8.48 10.74	9.98 12.24	11.48 13.74	12.98 15.24	14.49 16.74	15.99 18.24	17.49 19.74	18.99 21.24	20.49 22.75	21.99 24.25	23.49 25.75	24.99 27.25	26.99 29.25	29.49 31.75	31.99 34.25	34.49 36.75	36.99 39.25	42.00 44.25	47.00 49.25	54.50 56.75	62.00 64.25	77.00 79.25





H, 0.500" Pitch Belts

Dri	veN Sp	eed	S	procket C	ombinatio	ns												Cent	er Di	stano	e, In	ches										
For m	otor sp	eed of	Dri	/eR	Dri	veN		8_	8_	8_	8_	8,	8_	8_	8_	8_	8=	8:	8£	8.	8.5	8=	8.	8=	8.	8.5	90	8.5	8.5	99.4	8.5	8.5
1160 RPM	1750 RPM	3450 RPM	No. of grooves	Pitch diam. inches	No. of grooves	Pitch diam. inches	Speed Ratio	240H P.L. 24.0 48 Teeth	270H P.L. 27.00 54 Teeth	300H P.L. 30.0 60 Teeth	330H P.L. 33.1 66 Teeth	360H P.L. 36. 72 Teeth	390H P.L. 39. 78 Teeth	420H P.L. 42.0 84 Teeth	450H P.L. 45.0 90 Teeth	480H P.L. 48.1 96 Teeth	510H P.L. 51.00 102 Teeth	540H P.L. 54.00 108 Teeth	570H P.L. 57.00 114 Teeth	600H P.L. 60.00 120 Teeth	630H P.L. 63.00 126 Teeth	660H P.L. 66.00 132 Teeth	700H P.L. 70.00 140 Teeth	750H P.L. 75.00 150 Teeth	800H P.L. 80.00 160 Teeth	850H P.L. 85.00 170 Teeth	900H P.L. 90. 180 Tee	1000H P.L. 100.(200 Teeth	1100H P.L. 110.0 220 Teeth	1250H P.L. 125.(250 Teeth	1400H P.L. 140.0 280 Teeth	1700H P.L. 170.(340 Teeth
884 870 870 870	1333 1313 1313 1313	2629 2588 2588 2588	16 18 21 24	2.546 2.865 3.342 3.820	21 24 28 32	3.342 3.820 4.456 5.093	1.313 1.333 1.333 1.333	7.36 6.73 5.85 4.96	8.87 8.24 7.35 6.47	10.37 9.74 8.86 7.97	11.87 11.24 10.36 9.48	13.37 12.74 11.86 10.98	14.87 14.24 13.36 12.48	16.37 15.74 14.87 13.99	17.87 17.24 16.37 15.49	19.37 18.74 17.87 16.99	20.87 20.24 19.37 18.49	22.37 21.74 20.87 19.99	23.87 23.24 22.37 21.49	25.37 24.75 23.87 22.99	26.87 26.25 25.37 24.49	28.37 27.75 26.87 25.99	30.37 29.75 28.87 27.99	32.87 32.25 31.37 30.49	35.37 34.75 33.87 32.99	37.87 37.25 36.37 35.49	40.37 39.75 38.87 37.99	45.37 44.75 43.87 43.00	50.37 49.75 48.87 48.00	57.87 57.25 56.37 55.50	65.37 64.75 63.87 63.00	80.37 79.75 78.87 78.00
870 870 855 851	1313 1313 1289 1283	2588 2588 2542 2530	30 36 14 22	4.775 5.730 2.228 3.501	40 48 19 30	6.366 7.639 3.024 4.775	1.333 1.333 1.357 1.364	7.87 5.46	9.37 6.97	6.20 10.87 8.48	7.71 12.37 9.98	9.22 7.44 13.87 11.48	10.72 8.95 15.37 12.98	12.22 10.46 16.87 14.49	13.73 11.96 18.37 15.99	15.23 13.47 19.87 17.49	16.73 14.97 21.37 18.99	18.23 16.47 22.87 20.49	19.73 17.97 24.37 21.99	21.23 19.48 25.87 23.49	22.74 20.98 27.37 24.99	24.24 22.48 28.87 26.49	26.24 24.48 30.87 28.49	28.74 26.98 33.37 30.99	31.24 29.48 35.87 33.49	33.74 31.99 38.37 35.99	36.24 34.49 40.87 38.49	41.24 39.49 45.87 43.50	46.24 44.49 50.87 48.50	53.74 51.99 58.37 56.00	61.24 59.49 65.87 63.50	76.25 74.49 80.87 78.50
851 848 844 844	1283 1279 1273 1273	2530 2521 2509 2509	44 19 16 32	7.003 3.024 2.546 5.093	60 26 22 44	9.549 4.138 3.501 7.003	1.364 1.368 1.375 1.375	6.35 7.23	7.86 8.74	9.36 10.24	10.86 11.74 6.93	12.36 13.24 8.45	13.86 14.74 9.95	15.36 16.24 11.46	9.41 16.87 17.74 12.96	10.93 18.37 19.24 14.47	12.43 19.87 20.75 15.97	13.94 21.37 22.25 17.47	15.45 22.87 23.75 18.98	16.95 24.37 25.25 20.48	18.46 25.87 26.75 21.98	19.96 27.37 28.25 23.48	21.96 29.37 30.25 25.48	24.47 31.87 32.75 27.98	26.97 34.37 35.25 30.48	37.75	31.97 39.37 40.25 35.49	36.98 44.37 45.25 40.49	41.98 49.37 50.25 45.49	49.48 56.87 57.75 52.99	56.99 64.37 65.25 60.49	71.99 79.37 80.25 75.49
838 829 812 812	1264 1250 1225 1225	2492 2464 2415 2415	26 20 14 21	4.138 3.183 2.228 3.342	36 28 20 30	5.730 4.456 3.183 4.775	1.385 1.400 1.429 1.429	5.97 7.74 5.58	5.69 7.47 9.24 7.09	7.21 8.98 10.74 8.60	8.71 10.48 12.24 10.10	10.22 11.98 13.74 11.60	11.72 13.49 15.24 13.11	13.23 14.99 16.74 14.61	14.73 16.49 18.24 16.11	16.23 17.99 19.74 17.61	17.73 19.49 21.24 19.11	19.23 20.99 22.75 20.61	20.73 22.49 24.25 22.11	22.24 23.99 25.75 23.61	23.74 25.49 27.25 25.11	25.24 26.99 28.75 26.62	27.24 28.99 30.75 28.62	29.74 31.49 33.25 31.12	32.24 33.99 35.75 33.62	34.74 36.49 38.25 36.12	37.24 39.00 40.75 38.62	42.24 44.00 45.75 43.62	47.24 49.00 50.75 48.62	54.74 56.50 58.25 56.12	62.24 64.00 65.75 63.62	77.25 79.00 80.75 78.62
812 803 798 791	1225 1212 1203 1193	2415 2388 2372 2352	28 18 22 30	4.456 2.865 3.501 4.775	40 26 32 44	6.366 4.138 5.093 7.003	1.429 1.444 1.455 1.467	6.47 5.19	7.97 6.70	6.43 9.48 8.21	7.94 10.98 9.72 7.16	9.45 12.48 11.22 8.68	10.96 13.99 12.73 10.19	12.46 15.49 14.23 11.70	13.97 16.99 15.73 13.20	15.47 18.49 17.23 14.71	16.97 19.99 18.73 16.21	18.48 21.49 20.23 17.71	19.98 22.99 21.74 19.22	21.48 24.49 23.24 20.72	22.98 25.99 24.74 22.22	24.48 27.49 26.24 23.72	26.48 29.49 28.24 25.73	28.98 31.99 30.74 28.23	31.49 34.49 33.24 30.73	35.74	36.49 39.49 38.24 35.73	41.49 44.50 43.24 40.73	46.49 49.50 48.24 45.74	53.99 57.00 55.74 53.24	61.49 64.50 63.25 60.74	76.49 79.50 78.25 75.74
787 773 773 773	1188 1167 1167 1167	2341 2300 2300 2300	19 14 16 20	3.024 2.228 2.546 3.183	28 21 24 30	4.456 3.342 3.820 4.775	1.474 1.500 1.500 1.500	6.08 7.60 6.97 5.69	7.59 9.11 8.48 7.21		10.60 12.11 11.48 10.22	12.10 13.61 12.98 11.72	13.61 15.12 14.49 13.23	15.11 16.62 15.99 14.73	16.61 18.12 17.49 16.23	18.11 19.62 18.99 17.73	19.61 21.12 20.49 19.23	21.11 22.62 21.99 20.73	22.61 24.12 23.49 22.24	24.11 25.62 24.99 23.74	25.62 27.12 26.49 25.24	27.12 28.62 27.99 26.74	29.12 30.62 29.99 28.74	31.62 33.12 32.49 31.24	34.12 35.62 34.99 33.74		39.12 40.62 40.00 38.74	44.12 45.62 45.00 43.74	49.12 50.62 50.00 48.74	56.62 58.12 57.50 56.24	64.12 65.62 65.00 63.74	79.12 80.62 80.00 78.75
773 773 773 773	1167 1167 1167 1167	2300 2300 2300 2300	24 32 40 48	3.820 5.093 6.366 7.639	36 48 60 72	5.730 7.639 9.549 11.459	1.500 1.500 1.500 1.500		5.92	7.44	8.95	10.46 7.90	11.96 9.41	13.47 10.93 8.35	14.97 12.44 9.87	16.47 13.94 11.39	17.97 15.45 12.90 10.32	19.48 16.95 14.41 11.85	20.98 18.46 15.92 13.36	22.48 19.96 17.43 14.88	23.98 21.46 18.93 16.39	25.48 22.97 20.44 17.90	27.48 24.97 22.44 19.91	29.98 27.47 24.95 22.42	32.49 29.97 27.45 24.93	34.99 32.48 29.96 27.43	37.49 34.98 32.46 29.94	42.49 39.98 37.47 34.95	47.49 44.98 42.47 39.95	54.99 52.48 49.98 47.46	62.49 59.99 57.48 54.97	77.49 74.99 72.48 69.97
761 754 746 738	1148 1138 1125 1114	2264 2243 2218 2195	21 26 18 14	3.342 4.138 2.865 2.228	32 40 28 22	5.093 6.366 4.456 3.501	1.524 1.538 1.556 1.571	5.30 6.20 7.47	6.82 7.71 8.98	8.33 6.66 9.22 10.48	9.84 8.17 10.72 11.98	11.34 9.69 12.22 13.49	12.85 11.19 13.73 14.99	14.35 12.70 15.23 16.49	15.85 14.21 16.73 17.99	17.35 15.71 18.23 19.49	18.85 17.21 19.73 20.99	20.36 18.72 21.24 22.49	21.86 20.22 22.74 23.99	23.36 21.72 24.24 25.49	24.86 23.22 25.74 26.99	26.36 24.73 27.24 28.49	28.36 26.73 29.24 30.49	30.86 29.23 31.74 32.99	33.36 31.73 34.24 35.49	36.74	38.37 36.73 39.24 40.50	43.37 41.74 44.24 45.50	48.37 46.74 49.24 50.50	55.87 54.24 56.74 58.00	63.37 61.74 64.25 65.50	78.37 76.74 79.25 80.50
738 735 725 725	1114 1108 1094 1094	2195 2185 2156 2156	28 19 20 30	4.456 3.024 3.183 4.775	44 30 32 48	7.003 4.775 5.093 7.639	1.571 1.579 1.600 1.600	5.81 5.42	7.32 6.93	8.83 8.45	7.39 10.34 9.95 6.59	8.91 11.84 11.46 8.12	10.42 13.35 12.96 9.64	11.93 14.85 14.47 11.16	13.44 16.35 15.97 12.67	14.95 17.85 17.47 14.18	16.45 19.35 18.98 15.68	17.95 20.86 20.48 17.19	19.46 22.36 21.98 18.70	20.96 23.86 23.48 20.20	22.46 25.36 24.98	23.97 26.86 26.48 23.21	25.97 28.86 28.48 25.21	28.47 31.36 30.99 27.71	30.97 33.86 33.49 30.22	33.48 36.36 35.99 32.72	35.98 38.86 38.49 35.22	40.98 43.87 43.49 40.22	45.98 48.87 48.49 45.23	53.48 56.37 55.99 52.73	60.99 63.87 63.49 60.23	75.99 78.87 78.49 75.24
714 709 709 696	1077 1069 1069 1050	2123 2108 2108 2070	16 22 44 18	2.546 3.501 7.003 2.865	26 36 72 30	4.138 5.730 11.459 4.775	1.625 1.636 1.636 1.667	6.70 5.92	8.21 6.15 7.44	9.72 7.67 8.95	11.22 9.18 10.46	12.73 10.69 11.96	14.23 12.20 13.47	15.73 13.70 14.97	17.23 15.21 16.47	18.73 16.71 17.97	20.23 18.22 10.77 19.48	21.74 19.72 12.30 20.98	23.24 21.22 13.82 22.48	24.74 22.72 15.34 23.98	26.24 24.22 16.85 25.48	27.74 25.73 18.36 26.98	29.74 27.73 20.38 28.98	32.24 30.23 22.89 31.49	34.74 32.73 25.40 33.99	27.91	39.74 37.73 30.42 38.99	44.74 42.74 35.43 43.99	49.74 47.74 40.44 48.99	57.24 55.24 47.95 56.49	64.75 62.74 55.46 63.99	79.75 77.74 70.46 78.99
696 696 689 685	1050 1050 1039 1034	2070 2070 2048 2039	24 36 19 26	3.820 5.730 3.024 4.138	40 60 32 44	6.366 9.549 5.093 7.003	1.667 1.667 1.684 1.692	5.53	7.05	6.88 8.56 6.08	8.40 10.07 7.61	9.92 11.58 9.14	11.43 13.08 10.65	12.94 8.79 14.59 12.17	14.44 10.32 16.09 13.67	15.95 11.85 17.59 15.18	17.45 13.36 19.10 16.69	18.96 14.88 20.60 18.19	20.46 16.39 22.10 19.70	21.96 17.90 23.60 21.20	23.47 19.41 25.10 22.70	24.97 20.91 26.60 24.21	26.97 22.92 28.61 26.21	29.47 25.43 31.11 28.71	31.97 27.93 33.61 31.22	34.48 30.44 36.11 33.72	36.98 32.94 38.61 36.22	41.98 37.95 43.61 41.22	46.98 42.96 48.61 46.23	54.49 50.46 56.12 53.73	61.99 57.97 63.62 61.23	76.99 72.97 78.62 76.24
677 677 677 663	1021 1021 1021 1000	2013 2013 2013 1971	14 21 28 16	2.228 3.342 4.456 2.546	24 36 48 28	3.820 5.730 7.639 4.456	1.714 1.714 1.714 1.750	7.21 6.43	8.71 6.26 7.94	10.22 7.78 9.45	11.72 9.30 6.81 10.96	13.23 10.81 8.35 12.46	14.73 12.32 9.87 13.97	16.23 13.82 11.39 15.47	17.73 15.33 12.90 16.97	19.23 16.83 14.41 18.48	20.73 18.34 15.92 19.98	22.24 19.84 17.43 21.48	23.74 21.34 18.93 22.98	25.24 22.84 20.44 24.48	26.74 24.35 21.94 25.98	28.24 25.85 23.45 27.48	30.24 27.85 25.45 29.49	32.74 30.35 27.96 31.99	35.24 32.85 30.46 34.49	37.74	40.24 37.86 35.46 39.49	45.24 42.86 40.47 44.49	50.24 47.86 45.47 49.49	57.74 55.36 52.98 56.99	65.25 62.86 60.48 64.49	80.25 77.87 75.48 79.49
663 653 644 644	1000 984 972 972	1971 1941 1917 1917	48 18 20 40	7.639 2.865 3.183 6.366	84 32 36 72	13.369 5.093 5.730 11.459	1.750 1.778 1.800 1.800	5.64 4.83	7.16 6.37	8.68 7.90	10.19 9.41	11.70 10.93	13.20 12.43	14.71 13.94	16.21 15.45	17.71 16.95 9.66	19.22 18.46 11.21	20.72 19.96 12.75	11.65 22.22 21.46 14.27	13.19 23.72 22.96 15.79	14.72 25.23 24.47 17.31	16.25 26.73 25.97 18.83	18.28 28.73 27.97 20.84	20.80 31.23 30.47 23.36	23.32 33.73 32.98 25.87	25.84 36.23 35.48 28.39	28.36 38.73 37.98 30.90	33.38 43.74 42.98 35.91	38.39 48.74 47.98 40.92	45.91 56.24 55.49 48.43	53.42 63.74 62.99 55.94	68.44 78.74 77.99 70.95
638 633 628 625	963 955 948 942	1898 1882 1869 1858	22 24 26 14	3.501 3.820 4.138 2.228	40 44 48 26	6.366 7.003 7.639 4.138	1.818 1.833 1.846 1.857	6.93	5.57 8.45	7.11 6.30 9.95	8.63 7.84 7.03 11.46	10.15 9.36 8.57 12.96	11.66 10.88 10.10 14.47	13.17 12.40 11.62 15.97	14.68 13.91 13.13 17.47	16.19 15.42 14.65 18.98	17.69 16.92 16.16 20.48	19.20 18.43 17.66 21.98	20.70 19.94 19.17 23.48	22.20 21.44 20.68 24.98	23.71 22.94 22.18 26.48	25.21 24.45 23.69 27.98	27.21 26.45 25.69 29.98	29.72 28.96 28.20 32.49	32.22 31.46 30.70 34.99	34.72 33.96 33.20 37.49	37.22 36.46 35.71 39.99	42.23 41.47 40.71 44.99	47.23 46.47 45.72 49.99	54.73 53.98 53.22 57.49	62.23 61.48 60.73 64.99	77.24 76.48 75.73 79.99
619 619	933 933	1840 1840	16 32	2.546 5.093	30 60	4.775 9.549	1.875 1.875	6.15	7.67	9.18	10.69	12.20	13.70 7.67	15.21 9.23	16.71 10.77	18.22 12.30	19.72 13.82	21.22 15.34	22.72 16.85	24.22 18.36	25.73 19.88	27.23 21.38	29.23 23.39	31.73 25.90	34.23 28.41	36.73 30.92	39.23 33.43	44.24 38.44	49.24 43.44	56.74 50.95	64.24 58.46	79.24 73.47





The Driving Force in Power Transmission.

H, 0.500" Pitch Belts

Dr	riveN Speed Sprocket Combinations notor speed of DriveR DriveN					ıns												Cent	er Di	stand	e, In	ches										
For n	otor sp	eed of	Dri	/eR	Dri	veN		8_	8_	90	8_	00	8_	90 (8	8_	8 =	8 =)0 h	90 H	84	.00 th	8=	8=	8#	8=	84	9. f	8.4	.00 H	9. ₄	8.4
1160 RPM	1750 RPM	3450 RPM	No. of grooves	Pitch diam. inches	No. of grooves	Pitch diam. inches	Speed Ratio	240H P.L. 24.0 48 Teeth	~.±	300H P.L. 30. 60 Teeth	330H P.L. 33. 66 Teeth	360H P.L. 36.1 72 Teeth	390H P.L. 39.1 78 Teeth	420H P.L. 42.00 84 Teeth	450H P.L. 45.0 90 Teeth	480H P.L. 48.00 96 Teeth	510H P.L. 51.00 102 Teeth	540H P.L. 54.00 108 Teeth	570H P.L. 57.00 114 Teeth	600H P.L. 60.00 120 Teeth	630H P.L. 63.00 126 Teeth	660H P.L. 66.0 132 Teet	700H P.L. 70.00 140 Teeth	750H P.L. 75.00 150 Teeth	800H P.L. 80.1 160 Teet	850H P.L. 85.00 170 Teeth	900H P.L. 90.00 180 Teeth	1000H P.L. 100. 200 Teet	1100H P.L. 110.00 220 Teeth	1250H P.L. 125 250 Teel	1400H P.L. 140. 280 Teeth	1700H P.L. 170 340 Teet
612 609 608 580	924 919 917 875	1821 1811 1807 1725	19 21 44 14	3.024 3.342 7.003 2.228	36 40 84 28	5.730 6.366 13.369 4.456	1.895 1.905 1.909 2.000	4.94 6.66	6.48 5.67 8.17	8.01 7.22 9.69	9.53 8.74 11.19	11.04 10.26 12.70	12.55 11.78 14.21	14.06 13.29 15.71	15.57 14.80 17.21	17.07 16.31 18.72	18.58 17.81 20.22	20.08 19.32 10.51 21.72	21.58 20.82 12.08 23.22	23.08 22.32 13.63 24.73	24.59 23.83 15.16 26.23	26.09 25.33 16.70 27.73	28.09 27.33 18.73 29.73	30.59 29.84 21.26 32.23	33.10 32.34 23.79 34.73	35.60 34.84 26.31 37.23	38.10 37.34 28.82 39.73	43.10 42.35 33.85 44.74	48.11 47.35 38.87 49.74	55.61 54.85 46.39 57.24	63.11 62.36 53.91 64.74	78.11 77.36 68.93 79.74
580 580 580 580	0 875 1725 0 875 1725 0 875 1725		16 18 20 22	2.546 2.865 3.183 3.501	32 36 40 44	5.093 5.730 6.366 7.003	2.000 2.000 2.000 2.000	5.86 5.04	7.39 6.59 5.78	8.91 8.12 7.33 6.51	10.42 9.64 8.86 8.06	11.93 11.16 10.38 9.59	13.44 12.67 11.89 11.11	14.95 14.18 13.41 12.63	16.45 15.68 14.92 14.14	17.96 17.19 16.42 15.65	19.46 18.69 17.93 17.16	20.96 20.20 19.44 18.67	22.46 21.70 20.94 20.17	23.97 23.21 22.44 21.68	25.47 24.71 23.95 23.18	26.97 26.21 25.45 24.69	28.97 28.21 27.45 26.69	31.47 30.72 29.96 29.20	33.98 33.22 32.46 31.70	36.48 35.72 34.96 34.21	38.98 38.22 37.47 36.71	43.98 43.23 42.47 41.71	48.98 48.23 47.47 46.72	56.49 55.73 54.98 54.22	63.99 63.23 62.48 61.73	78.99 78.24 77.48 76.73
580 580 580 580	875 875 875 875 875	1725 1725 1725 1725 1725	24 30 36 48	3.820 4.775 5.730 7.639	48 60	7.639 9.549 11.459 15.279	2.000 2.000 2.000 2.000				7.25	8.79	10.32 7.89	11.85 9.45	13.36 10.99	14.88 12.52 10.09	16.39 14.05 11.65	17.90 15.57 13.19	19.41 17.08 14.72	20.91 18.60 16.25	22.42 20.11 17.77 12.93	23.92 21.62 19.29 14.49	25.93 23.63 21.31 16.56	28.44 26.14 23.83 19.12	30.94 28.65 26.34 21.66	33.45 31.16 28.86 24.20	35.95 33.67 31.37 26.73	40.96 38.68 36.39 31.77	45.96 43.68 41.40 36.80	53.47 51.19 48.92 44.34	60.97 58.70 56.43 51.86	75.98 73.71 71.44 66.89
554 552 551 541	835 833 831 817	1647 1643 1639 1610	21 40 19 14	3.342 6.366 3.024 2.228	44 84 40 30	7.003 13.369 6.366 4.775	2.095 2.100 2.105 2.143	6.37	5.89 7.90	6.62 7.44 9.41	8.17 8.97 10.93	9.70 10.49 12.43	11.23 12.01 13.94	12.74 13.52 15.45	14.26 15.03 16.95	15.77 16.54 18.46	17.28 18.05 19.96	18.79 10.93 19.55 21.46	20.29 12.51 21.06 22.96	21.80 14.06 22.56 24.47	23.30 15.61 24.07 25.97	24.81 17.14 25.57 27.47	26.81 19.18 27.57 29.47	29.32 21.72 30.08 31.97	31.82 24.25 32.58 34.48	34.33 26.77 35.09 36.98	36.83 29.29 37.59 39.48	41.84 34.32 42.59 44.48	46.84 39.34 47.60 49.48	54.34 46.87 55.10 56.99	61.85 54.39 62.60 64.49	76.85 69.41 77.61 79.49
541 532 532 527	817 802 802 795	1610 1581 1581 1568	28 22 44 20	4.456 3.501 7.003 3.183	60 48 96 44	9.549 7.639 15.279 7.003	2.143 2.182 2.182 2.200			6.73	7.46 8.28	9.01 9.81	8.10 10.55 11.34	9.66 12.07 12.86	11.21 13.59 14.37	12.75 15.11 15.88	14.27 16.62 17.39	15.79 18.13 18.90	17.31 19.64 20.41	18.83 21.15 11.76 21.92	20.34 22.66 13.35 23.42	21.85 24.16 14.92 24.93	23.86 26.17 16.99 26.93	26.38 28.68 19.56 29.44	28.89 31.18 22.11 31.94	31.40 33.69 24.65 34.45	33.90 36.19 27.18 36.95	38.92 41.20 32.23 41.96	43.93 46.20 37.27 46.96	51.44 53.71 44.81 54.47	58.95 61.22 52.34 61.97	73.96 76.22 67.37 76.98
522 516 516 508	788 778 778 766	1553 1533 1533 1509	18 16 32 14	2.865 2.546 5.093 2.228	40 36 72 32	6.366 5.730 11.459 5.093	2.222 2.250 2.250 2.286	5.26 6.08	5.99 6.81 7.61	7.55 8.35 9.14	9.08 9.87 10.65	10.61 11.39 12.17	12.12 12.90 13.68	13.64 14.41 15.18	15.15 15.92 8.93 16.69	16.66 17.43 10.51 18.19	18.17 18.93 12.08 19.70	19.67 20.44 13.63 21.20	21.18 21.94 15.16 22.70	22.68 23.45 16.70 24.21	24.19 24.95 18.22 25.71	25.69 26.45 19.74 27.21	27.69 28.46 21.77 29.21	30.20 30.96 24.29 31.72	32.70 33.46 26.81 34.22	35.21 35.96 29.33 36.72	37.71 38.47 31.84 39.22	42.71 43.47 36.86 44.23	47.72 48.47 41.88 49.23	55.22 55.98 49.40 56.73	62.73 63.48 56.91 64.23	77.73 78.48 71.93 79.24
508 503 501 497	766 758 756 750	1509 1495 1490 1479	21 26 19 36	3.342 4.138 3.024 5.730	48 60 44 84	7.639 9.549 7.003 13.369	2.286 2.308 2.316 2.333			5.99 6.83	7.57 8.39	9.12 9.92	10.66 8.31 11.45	12.19 9.88 12.97	13.71 11.43 14.49	15.22 12.97 16.00	16.74 14.50 17.51	18.25 16.02 19.02 11.35	19.76 17.54 20.53 12.93	21.27 19.06 22.03 14.49	22.77 20.57 23.54 16.04	24.28 22.08 25.05 17.58	26.29 24.10 27.05 19.63	28.80 26.61 29.56 22.17	31.30 29.12 32.06 24.70	33.81 31.63 34.57 27.23	36.31 34.14 37.07 29.75	41.32 39.16 42.08 34.79	46.33 44.17 47.08 39.82	53.83 51.68 54.59 47.35	61.34 59.19 62.09 54.87	76.35 74.20 77.10 69.90
483 483 483 475	729 729 729 716	1438 1438 1438 1411	20 30 40 18	3.183 4.775 6.366 2.865	48 72 96 44	7.639 11.459 15.279 7.003	2.400 2.400 2.400 2.444		5.34	6.09	7.67 8.50	9.23	10.77 11.56	12.30 13.09	13.82 9.13 14.60	15.34 10.72 16.12	16.85 12.29 17.63	18.37 13.84 19.14	19.88 15.39 20.65	21.38 16.92 12.17 22.15	22.89 18.45 13.77 23.66	24.40 19.97 15.35 25.16	26.41 22.00 17.43 27.17	28.91 24.52 20.00 29.68	31.42 27.04 22.56 32.18	33.93 29.56 25.10 34.69	36.43 32.08 27.64 37.19	41.44 37.10 32.70 42.20	46.45 42.12 37.74 47.20	53.95 49.64 45.28 54.71	61.46 57.15 52.81 62.22	76.47 72.17 67.85 77.22
464 464 464 459	700 700 700 693	1380 1380 1380 1366	16 24 48 19	2.546 3.820 7.639 3.024	40 60 120 48	6.366 9.549 19.099 7.639	2.500 2.500 2.500 2.526		6.20	7.76 6.19	9.30 7.78	10.83 6.90 9.34	12.35 8.51 10.88	13.87 10.09 12.41	15.38 11.65 13.93	16.89 13.19 15.45	18.40 14.72 16.97	19.91 16.25 18.48	21.42 17.77 19.99	22.92 19.29 21.50	24.43 20.80 23.01	25.93 22.32 24.52	27.94 24.33 26.52	30.44 26.85 15.42 29.03	32.95 29.36 18.08 31.54	35.45 31.87 20.70 34.05	37.95 34.38 23.29 36.55	42.96 39.40 28.42 41.56	47.96 44.41 33.51 46.57	55.47 51.92 41.10 54.08	62.97 59.43 48.66 61.58	77.98 74.44 63.74 76.59
451 451 442 435	681 681 667 656	1342 1342 1314 1294	14 28 32 18	2.228 4.456 5.093 2.865	36 72 84 48	5.730 11.459 13.369 7.639	2.571 2.571 2.625 2.667	5.47	7.03	8.57 6.29	10.10 7.89	11.62 9.45	13.13 10.99	14.65 12.52	16.15 9.34 14.05	17.66 10.93 15.57	19.17 12.51 10.14 17.08	20.68 14.06 11.76 18.60	22.18 15.61 13.35 20.11	23.69 17.14 14.92 21.62	25.19 18.67 16.48 23.13	26.69 20.20 18.02 24.63	28.70 22.22 20.07 26.64	31.20 24.75 22.62 29.15	33.70 27.28 25.16 31.66	36.21 29.79 27.69 34.17	38.71 32.31 30.22 36.67	43.71 37.34 35.26 41.68	48.72 42.36 40.29 46.69	56.22 49.88 47.82 54.20	63.73 57.39 55.35 61.70	78.73 72.42 70.38 76.71
435 425 425 422	656 642 642 636	1294 1265 1265 1255	36 22 44 16	5.730 3.501 7.003 2.546	96 60 120 44	15.279 9.549 19.099 7.003	2.667 2.727 2.727 2.750		5.55	7.15	8.71	7.10 10.26	8.72 11.79	10.30 13.31	11.86 14.83	13.41 16.35	14.94 17.86	16.47 19.37	10.94 18.00 20.88	12.58 19.52 22.39	14.19 21.03 23.90	15.77 22.55 25.40	17.86 24.56 27.41	20.44 27.08 15.83 29.92	23.00 29.60 18.50 32.42	25.55 32.11 21.13 34.93	28.09 34.62 23.72 37.43	33.16 39.64 28.86 42.44	38.20 44.65 33.96 47.45	45.75 52.16 41.56 54.96	53.29 59.67 49.13 62.46	68.33 74.69 64.21 77.47
419 414 406 406	632 625 613 613	1246 1232 1208 1208	26 30 14 21	4.138 4.775 2.228 3.342	72 84 40 60	11.459 13.369 6.366 9.549	2.769 2.800 2.857 2.857	4.80	6.41	7.98	9.52	11.06 7.20	12.58 8.82	14.10 10.41	9.54 15.61 11.97	11.14 17.13 13.52	12.72 10.34 18.64 15.05	14.28 11.97 20.14 16.58	15.82 13.56 21.65 18.11	17.36 15.14 23.16 19.63	18.89 16.69 24.66 21.15	20.42 18.24 26.17 22.66	22.45 20.29 28.17 24.68	24.98 22.84 30.68 27.20	27.51 25.39 33.19 29.71	30.03 27.92 35.69 32.23	32.54 30.45 38.19 34.74	37.57 35.49 43.20 39.75	42.59 40.52 48.21 44.77	50.12 48.06 55.71 52.28	57.63 55.58 63.22 59.79	72.66 70.62 78.22 74.81
387 387 387 387	583 583 583 583	1150 1150 1150 1150	16 20 24 28	2.546 3.183 3.820 4.456		7.639 9.549 11.459 13.369	3.000 3.000 3.000 3.000			6.49	8.10	9.66 7.29	11.21 8.93	12.75 10.51 8.08	14.27 12.08 9.74	15.79 13.63 11.35	17.31 15.17 12.93 10.54	18.83 16.70 14.49 12.18	20.34 18.22 16.04 13.77	21.85 19.74 17.58 15.35	23.36 21.26 19.12 16.91	24.87 22.78 20.65 18.46	26.88 24.80 22.68 20.51	29.39 27.31 25.21 23.07	31.90 29.83 27.74 25.61	34.41 32.34 30.26 28.15	36.91 34.85 32.78 30.68	41.92 39.87 37.81 35.72	46.93 44.89 42.83 40.76	54.44 52.40 50.35 48.29	61.95 59.92 57.87 55.82	76.96 74.93 72.90 70.86
387 387 369 367	583 583 557 554	1150 1150 1098 1093	32 40 14 19	5.093 6.366 2.228 3.024	96 120 44 60	15.279 19.099 7.003 9.549	3.000 3.000 3.143 3.158		5.75	7.36	8.93	10.48 7.39	12.01 9.03	13.54 10.62	15.06 12.19	16.58 13.74	18.09 15.28	19.60 16.81	11.34 21.11 18.33	12.99 22.62 19.86	14.60 24.13 21.38	16.19 25.64 22.89	18.29 13.46 27.65 24.91	20.88 16.23 30.16 27.43	23.44 18.92 32.66 29.95	26.00 21.55 35.17 32.46	28.54 24.16 37.67 34.97	33.61 29.31 42.68 39.99	38.66 34.41 47.69 45.01	46.22 42.02 55.20 52.52	53.76 49.59 62.70 60.04	68.81 64.69 77.71 75.05
363 359	547 542	1078 1068	30 26	4.775 4.138	96 84	15.279 13.369	3.200 3.231									9.04	10.74	12.38	11.53 13.98	13.19 15.56	14.81 17.12	16.40 18.68	18.50 20.73	21.09 23.29	23.66 25.84	26.22 28.37	28.77 30.90	33.84 35.95	38.89 40.99	46.45 48.53	53.99 56.06	69.05 71.10

H, 0.500" Pitch Belts

Dri	veN Spe	eed	Sı	orocket (Combinatio	ons												Cent	er Di	stanc	e, In	ches										
For m	otor sp	eed of	Driv	/eR	Dri	veN		8	9	8_	9	8,	8_	9	9	8_	8-	94	8-	8-	8-	8-	8-	8-	8-	8 =	8-	8	8,_	8	8	8.4
1160 RPM	1750 RPM	3450 RPM	No. of grooves	Pitch diam. inches		Pitch diam. inches	Speed Ratio	240H P.L. 24.00 48 Teeth	270H P.L. 27.00 54 Teeth	300H P.L. 30.0 60 Teeth	330H P.L. 33.00 66 Teeth	360H P.L. 36.0 72 Teeth	390H P.L. 39.0 78 Teeth	420H P.L. 42.00 84 Teeth	450H P.L. 45.0 90 Teeth	480H P.L. 48.0 96 Teeth	510H P.L. 51.00 102 Teeth	540H P.L. 54.00 108 Teeth	570H P.L. 57.00 114 Teeth	600H P.L. 60.00 120 Teeth	630H P.L. 63.00 126 Teeth	660H P.L. 66.00 132 Teeth	700H P.L. 70.00 140 Teeth	750H P.L. 75.00 150 Teeth	800H P.L. 80.00 160 Teeth	850H P.L. 85.00 170 Teeth	900H P.L. 90.00 180 Teeth	1000H P.L. 100. 200 Teeth	1100H P.L. 110.0 220 Teeth	1250H P.L. 125.0 250 Teeth	1400H P.L. 140.0 280 Teeth	1700H P.L. 170. 340 Teeth
357 354 348 348	538 535 525 525	1062 1054 1035 1035	48 22 18 36	7.639 3.501 2.865 5.730	156 72 60 120	24.828 11.459 9.549 19.099	3.250 3.273 3.333 3.333					7.49	9.13	8.27 10.73	9.94 12.29	11.56 13.84	13.14 15.39	14.71 16.92	16.26 18.45	19.97	19.34 21.49	20.87 23.01	22.90 25.03 13.85	25.44 27.55 16.64	27.97 30.06 19.33	30.49 32.58 21.97	17.32 33.01 35.09 24.58	22.87 38.04 40.11 29.75	28.18 43.07 45.13 34.86	35.97 50.59 52.64 42.47	43.65 58.11 60.16 50.05	58.87 73.14 75.18 65.16
338 338 338 331	510 510 510 500	1006 1006 1006 986	14 21 28 24	2.228 3.342 4.456 3.820	48 72 96 84	7.639 11.459 15.279 13.369	3.429 3.429 3.429 3.500			6.70	8.31	9.88	11.43	12.97 8.37	14.50 10.04	16.02 11.66 9.24	17.54 13.25 10.94	19.06 14.82 12.58	20.57 16.37 11.73 14.19	22.08 17.91 13.39 15.77	23.60 19.45 15.01 17.34	25.10 20.98 16.61 18.89	27.12 23.02 18.71 20.95	29.63	32.14 28.08 23.88 26.06	34.64 30.61 26.44 28.60	37 15	42.16 38.16 34.07 36.18	47.17 43.18 39.13 41.22	54.68 50.71 46.69 48.77	62.19 58.23 54.23 56.30	77.20 73.26 69.29 71.34
327 322 314 309	494 486 474 467	973 958 934 920	44 20 26 16	7.003 3.183 4.138 2.546	156 72 96 60	24.828 11.459 15.279 9.549	3.545 3.600 3.692 3.750					7.69	9.34	8.47 10.94	10.14 12.51	11.76	13.35 15.61	14.92 10.18 17.14	16.48 11.92 18.67			21.09 16.82 23.24	23.13 18.92 25.26	25.67 21.53 27.78	28.20 24.10 30.30	30.72 26.67 32.81	17.71 33.24 29.22 35.33	23.27 38.28 34.30 40.35	28.60 43.30 39.36 45.37	36.40 50.83 46.92 52.88	44.10 58.35 54.46 60.40	59.33 73.38 69.53 75.42
309 306 304 297	467 462 458 449	920 910 904 885	32 19 22 40	5.093 3.024 3.501 6.366	120 72 84 156	19.099 11.459 13.369 24.828	3.750 3.789 3.818 3.900							8.56	10.24	11.87 9.43	13.46 11.14	15.03 12.79	16.59 14.40			21.20 19.11	14.24 23.24 21.17	17.04 25.78 23.74	19.74 28.31 26.29	22.40 30.84 28.83	25.01 33.36 31.36 18.09	30.18 38.39 36.42 23.68	35.30 43.42 41.46 29.02	42.93 50.95 49.00 36.84	50.51 58.47 56.53 44.54	65.63 73.50 71.58 59.79
290 290 290 290 290	438 438 438 438	863 863 863 863	18 21 24 30	2.865 3.342 3.820 4.775	72 84 96 120	11.459 13.369 15.279 19.099	4.000 4.000 4.000 4.000							8.66	10.34	11.97 9.52	13.56 11.24	15.14 12.89 10.37	16.69 14.50 12.12	18.24 16.09 13.79	19.78 17.66 15.42	21.32 19.22 17.03	23.35 21.28 19.14 14.43	25.89 23.85 21.74 17.24	28.42 26.40 24.32 19.95	30.95 28.94 26.89 22.61	33.47 31.48 29.44 25.23	38.51 36.53 34.52 30.40	43.54 41.57 39.58 35.52	51.07 49.12 47.15 43.15	58.59 56.65 54.70 50.74	73.62 71.70 69.76 65.86
276 271 271 268	417 408 408 404	821 805 805 796	20 14 28 36	3.183 2.228 4.456 5.730	84 60 120 156	13.369 9.549 19.099 24.828	4.200 4.286 4.286 4.333				6.12	7.88	9.54	11.14	12.72	9.62 14.28	11.34 15.83	12.99 17.36	14.60 18.89	16.19 20.42	17.76 21.94	19.33 23.46 12.24	21.39 25.49 14.63	23.96 28.01 17.44	26.51 30.53 20.15	29.05 33.05 22.81	31.59 35.56 25.44 18.47	36.65 40.59 30.62 24.08	41.69 45.60 35.75 29.44	49.24 53.12 43.38 37.27	56.77 60.64 50.97 44.98	71.82 75.66 66.09 60.24
266 262 258 254	401 396 389 383	791 780 767 755	22 19 16 21	3.501 3.024 2.546 3.342	96 84 72 96	15.279 13.369 11.459 15.279	4.364 4.421 4.500 4.571							8.85	10.54	9.71 12.18	11.43 13.77	10.56 13.09 15.35 10.65	12.31 14.71 16.91 12.41	13.99 16.30 18.46 14.09	15.63 17.87 20.00 15.73	17.23 19.43 21.54 17.34	19.35 21.50 23.58 19.45	21.96 24.07 26.12 22.06	24.54 26.62 28.65 24.65	27.11 29.17 31.18 27.22	29.66 31.70 33.71 29.77	34.75 36.76 38.74 34.86	39.81 41.80 43.77 39.93	47.38 49.35 51.31 47.50	54.93 56.89 58.83 55.05	70.00 71.94 73.87 70.12
251 249 242 238	379 375 365 359	748 739 719 708	26 18 20 32	4.138 2.865 3.183 5.093	120 84 96 156	19.099 13.369 15.279 24.828	4.615 4.667 4.800 4.875									9.81	11.53	13.19 10.75	14.81 12.51	16.40	17.98	12.42 19.54 17.44	14.82 21.61 19.56		20.36 26.73 24.76	23.02 29.28 27.33 15.81	25.65 31.82 29.89 18.85	30.84 36.88 34.98 24.48	35.97 41.92 40.04 29.85	43.61 49.47 47.62 37.70	51.20 57.01 55.17 45.42	66.33 72.06 70.24 60.70
232 230 226 223	350 346 340 337	690 683 671 663	24 19 14 30	3.820 3.024 2.228 4.775	120 96 72 156	19.099 15.279 11.459 24.828	5.000 5.053 5.143 5.200						7.22	9.04	10.74	12.38	13.98	10.84 15.56	12.60 17.12	14.29 18.68	15.93 20.22	12.60 17.54 21.76	15.01 19.66 23.80	17.84 22.28 26.34	20.56 24.87 28.88	23.23 27.44 31.41 15.99	25.86 30.00 33.94 19.04	31.05 35.09 38.98 24.68	36.19 40.16 44.01 30.06	43.83 47.73 51.54 37.92	51.43 55.28 59.07 45.64	66.56 70.36 74.11 60.92
221 218 213 208	333 328 321 314	657 647 633 619	16 18 22 28	2.546 2.865 3.501 4.456	84 96 120 156	13.369 15.279 19.099 24.828	5.250 5.333 5.455 5.571									10.00	11.73	13.39 10.94	15.01 12.70	16.61 14.39	18.19 16.03	19.75 17.65 12.79	21.83 19.77 15.20		26.96 24.97 20.77	29.50 27.55 23.44 16.17	32.04 30.11 26.07 19.23	37.11 35.20 31.27 24.89	42.15 40.27 36.41 30.27	49.71 47.85 44.06 38.13	57.24 55.40 51.66 45.86	72.30 70.48 66.79 61.15
203 193 193 193	306 292 292 292	604 575 575 575	21 14 16 20	3.342 2.228 2.546 3.183	120 84 96 120	19.099 13.369 15.279 19.099	5.714 6.000 6.000 6.000								8.30	10.18	11.92 9.19	13.59 11.12	15.22 12.89	16.82 14.59	18.40 16.24	12.88 19.97 17.85 12.97	15.30 22.04 19.98 15.39	18.13 24.62 22.60 18.23	20.87 27.18 25.19 20.97	23.54 29.73 27.77 23.65	26.18 32.27 30.33 26.29	31.38 37.33 35.43 31.49	36.52 42.38 40.50 36.63	44.17 49.94 48.08 44.28	51.77 57.48 55.64 51.89	66.91 72.54 70.71 67.03
193 184 178 174	292 277 269 263	575 546 531 518	26 19 24 18	4.138 3.024 3.820 2.865	156 120 156 120	24.828 19.099 24.828 19.099	6.000 6.316 6.500 6.667															13.06 13.15	15.49 15.58	18.33		16.35 23.75 16.53 23.85	19.42 26.39 19.61 26.50	25.09 31.60 25.28 31.70	30.48 36.74 30.68 36.85	38.35 44.40 38.56 44.51	46.08 52.00 46.30 52.12	61.38 67.14 61.60 67.26
169 164 156 155	255 247 236 233	503 487 464 460	14 22 21 16	2.228 3.501 3.342 2.546	96 156 156 120	15.279 24.828 24.828 19.099	6.857 7.091 7.429 7.500										9.37	11.31	13.09	14.79	16.44	18.06	20.19	22.81 18.63	21.38	27.99 16.72 16.81 24.06	30.55 19.80 19.90 26.71	35.65 25.49 25.58 31.92	40.73 30.89 30.99 37.07	48.31 38.77 38.88 44.73	55.87 46.52 46.63 52.34	70.95 61.83 61.94 67.49
149 141 135 134	224 213 204 202	442 420 403 398	20 19 14 18	3.183 3.024 2.228 2.865	156 156 120 156	24.828 24.828 19.099 24.828	7.800 8.211 8.571 8.667														11.48	13.52		18.83	21.58	16.90 16.99 24.27 17.08	19.99 20.09 26.92 20.18	25.68 25.78 32.14	31.10 31.20 37.29 31.30	38.99 39.09 44.96 39.20	46.74 46.85 52.57 46.96	62.05 62.17 67.72 62.28
119 104	179 157	354 310	16 14	2.546 2.228	156 156	24.828 24.828	9.750 11.143																		13.78	17.26 17.44	20.37 20.56	26.08 26.28	31.51 31.72	39.42 39.63	47.18 47.40	62.50 62.73





Horsepower Rating for 0.25 Inch Wide XL Section Belt (0.200 Inch Pitch)

RPM of		-			(Num	Rated Hors ber of Groov	epower for S es and Pitch		ches)				
Faster Shaft	10XL 0.637	11XL 0.700	12XL 0.764	14XL 0.891	15XL 0.955	16XL 1.019	18XL 1.146	20XL 1.273	21XL 1.337	22XL 1.401	24XL 1.528	28XL 1.783	30XL 1.910
950	0.034	0.038	0.041	0.048	0.051	0.055	0.062	0.069	0.072	0.075	0.082	0.096	0.10
1160	0.042	0.046	0.050	0.059	0.063	0.067	0.075	0.084	0.088	0.092	0.10	0.12	0.13
1425	0.051	0.057	0.062	0.072	0.077	0.082	0.093	0.10	0.11	0.11	0.12	0.14	0.15
1750	0.063	0.069	0.076	0.088	0.095	0.10	0.11	0.13	0.13	0.14	0.15	0.18	0.19
2850	0.10	0.11	0.12	0.14	0.15	0.16	0.18	0.20	0.21	0.22	0.24	0.28	0.30
3450	0.12	0.14	0.15	0.17	0.19	0.20	0.22	0.25	0.26	0.27	0.29	0.34	0.36
100	0.004	0.004	0.004	0.005	0.005	0.006	0.007	0.007	0.008	0.008	0.009	0.010	0.011
200	0.007	0.008	0.009	0.010	0.011	0.012	0.013	0.014	0.015	0.016	0.017	0.020	0.022
300	0.011	0.012	0.013	0.015	0.016	0.017	0.020	0.022	0.023	0.024	0.026	0.030	0.033
400	0.014	0.016	0.017	0.020	0.022	0.023	0.026	0.029	0.030	0.032	0.035	0.040	0.043
500	0.018	0.020	0.022	0.025	0.027	0.029	0.033	0.036	0.038	0.040	0.043	0.051	0.054
600	0.022	0.024	0.026	0.030	0.033	0.035	0.039	0.043	0.046	0.048	0.052	0.061	0.065
700	0.025	0.028	0.030	0.035	0.038	0.040	0.046	0.051	0.053	0.056	0.061	0.071	0.076
800 900	0.029	0.032	0.035	0.040 0.046	0.043	0.046	0.052	0.058	0.061	0.064	0.069	0.081	0.087
	0.033	0.036	0.039		0.049	0.052	0.059	0.065	0.068	0.072	0.078	0.091	0.097
1000	0.036	0.040	0.043	0.051	0.054	0.058	0.065	0.072	0.076	0.079	0.087	0.10	0.11
1100 1200	0.040 0.043	0.044 0.048	0.048 0.052	0.056 0.061	0.060 0.065	0.064 0.069	0.072 0.078	0.079 0.087	0.083 0.091	0.087 0.095	0.095 0.10	0.11 0.12	0.12 0.13
1300	0.043	0.048	0.052	0.061	0.065	0.069	0.078	0.087	0.091	0.095	0.10	0.12	0.13
1400	0.047	0.052	0.050	0.000	0.076	0.075	0.064	0.094	0.096	0.10	0.11	0.13	0.14
1500	0.051	0.030	0.065	0.071	0.070	0.087	0.097	0.10	0.11	0.11	0.12	0.14	0.15
1600	0.054	0.060	0.069	0.076	0.087	0.067	0.097	0.11	0.11	0.12	0.13	0.15	0.16
1700	0.036	0.064	0.069	0.086	0.087	0.092	0.10	0.12	0.12	0.13	0.14	0.16	0.17
1800	0.065	0.000	0.074	0.000	0.032	0.030	0.11	0.12	0.13	0.13	0.16	0.17	0.10
2000	0.072	0.079	0.087	0.10	0.11	0.12	0.13	0.14	0.15	0.14	0.17	0.20	0.21
2200	0.079	0.087	0.095	0.11	0.12	0.13	0.14	0.16	0.17	0.17	0.19	0.22	0.24
2400	0.073	0.007	0.10	0.12	0.12	0.13	0.14	0.17	0.18	0.19	0.13	0.24	0.24
2600	0.094	0.10	0.11	0.13	0.14	0.15	0.17	0.19	0.20	0.20	0.22	0.26	0.28
2800	0.10	0.11	0.12	0.14	0.15	0.16	0.18	0.20	0.21	0.22	0.24	0.28	0.30
3000	0.11	0.12	0.13	0.15	0.16	0.17	0.19	0.21	0.22	0.24	0.26	0.30	0.32
3200	0.12	0.13	0.14	0.16	0.17	0.18	0.21	0.23	0.24	0.25	0.27	0.32	0.34
3400	0.12	0.13	0.15	0.17	0.18	0.19	0.22	0.24	0.25	0.27	0.29	0.33	0.36
3600	0.13	0.14	0.16	0.18	0.19	0.21	0.23	0.26	0.27	0.28	0.31	0.35	0.38
3800	0.14	0.15	0.16	0.19	0.20	0.22	0.24	0.27	0.28	0.30	0.32	0.37	0.40
4000	0.14	0.16	0.17	0.20	0.21	0.23	0.26	0.28	0.30	0.31	0.34	0.39	0.41
4200	0.15	0.17	0.18	0.21	0.22	0.24	0.27	0.30	0.31	0.33	0.35	0.41	0.43
4400	0.16	0.17	0.19	0.22	0.24	0.25	0.28	0.31	0.33	0.34	0.37	0.42	0.45
4600	0.17	0.18	0.20	0.23	0.25	0.26	0.29	0.32	0.34	0.35	0.38	0.44	0.47
4800	0.17	0.19	0.21	0.24	0.26	0.27	0.31	0.34	0.35	0.37	0.40	0.46	0.49
5000	0.18	0.20	0.21	0.25	0.27	0.28	0.32	0.35	0.37	0.38	0.41	0.48	0.50
5500					0.29	0.31	0.35	0.38	0.40	0.42	0.45	0.52	0.55
6000					0.32	0.34	0.38	0.41	0.43	0.45	0.49	0.55	0.58
6500					0.34	0.36	0.40	0.45	0.46	0.48	0.52	0.59	0.62
7000					0.37	0.39	0.43	0.48	0.50	0.52	0.55	0.62	0.65
7500					0.39	0.41	0.46	0.50	0.53	0.55	0.58	0.65	0.68
8000							0.49	0.53	0.55	0.57	0.61	0.68	0.71
8500							0.51	0.56	0.58	0.60	0.64	0.71	0.73
9000							0.54	0.58	0.61	0.63	0.67	0.73	0.75
9500 10000							0.56 0.58	0.61 0.63	0.63 0.65	0.65 0.68	0.69 0.71	0.75 0.76	0.77 0.78
10000							0.58	0.03	0.00	0. 08	U./ I	U./b	U./ŏ

Use this sprocket and rpm only if required to obtain speed ratio or to meet diameter limitations. See Engineering Section II-5, Sprocket Diameter—Speed, on page 138.

Horsepower Rating for 0.375 Inch Wide XL Section Belt (0.200 Inch Pitch)

RPM of					(Num		epower for S es and Pitch	mall Pulley Diameter, In	ches)				
Faster Shaft	10XL 0.637	11XL 0.700	12XL 0.764	14XL 0.891	15XL 0.955	16XL 1.019	18XL 1.146	20XL 1.273	21XL 1.337	22XL 1.401	24XL 1.528	28XL 1.783	30XL 1.910
950	0.055	0.061	0.066	0.077	0.083	0.089	0.100	0.11	0.12	0.12	0.13	0.15	0.17
1160	0.068	0.074	0.081	0.095	0.10	0.11	0.12	0.14	0.14	0.15	0.16	0.19	0.20
1425	0.083	0.091	0.100	0.12	0.12	0.13	0.15	0.17	0.17	0.18	0.20	0.23	0.25
1750	0.10	0.11	0.12	0.14	0.15	0.16	0.18	0.20	0.21	0.22	0.24	0.28	0.30
2850	0.17	0.18	0.20	0.23	0.25	0.26	0.30	0.33	0.35	0.36	0.39	0.46	0.49
3450	0.20	0.22	0.24	0.28	0.30	0.32	0.36	0.40	0.42	0.43	0.47	0.55	0.58
100 200	0.006 0.012	0.006 0.013	0.007 0.014	0.008 0.016	0.009 0.017	0.009 0.019	0.010 0.021	0.012 0.023	0.012 0.024	0.013 0.026	0.014 0.028	0.016 0.033	0.017 0.035
300	0.012	0.013	0.014	0.016	0.017	0.019	0.021	0.023	0.024	0.026	0.026	0.033	0.055
400	0.023	0.013	0.021	0.024	0.025	0.028	0.031	0.033	0.037	0.051	0.042	0.043	0.032
500	0.029	0.032	0.035	0.041	0.044	0.047	0.052	0.058	0.061	0.064	0.070	0.082	0.087
600	0.025	0.032	0.033	0.041	0.052	0.056	0.063	0.030	0.001	0.004	0.070	0.002	0.10
700	0.041	0.045	0.049	0.057	0.061	0.065	0.073	0.082	0.086	0.090	0.098	0.11	0.12
800	0.047	0.051	0.056	0.065	0.070	0.075	0.084	0.093	0.098	0.10	0.11	0.13	0.14
900	0.052	0.058	0.063	0.073	0.079	0.084	0.094	0.10	0.11	0.12	0.13	0.15	0.16
1000	0.058	0.064	0.070	0.082	0.087	0.093	0.10	0.12	0.12	0.13	0.14	0.16	0.17
1100	0.064	0.070	0.077	0.090	0.096	0.10	0.12	0.13	0.13	0.14	0.15	0.18	0.19
1200	0.070	0.077	0.084	0.098	0.10	0.11	0.13	0.14	0.15	0.15	0.17	0.20	0.21
1300	0.076	0.083	0.091	0.11	0.11	0.12	0.14	0.15	0.16	0.17	0.18	0.21	0.23
1400	0.082	0.090	0.098	0.11	0.12	0.13	0.15	0.16	0.17	0.18	0.20	0.23	0.24
1500	0.087	0.096	0.10	0.12	0.13	0.14	0.16	0.17	0.18	0.19	0.21	0.24	0.26
1600	0.093	0.10	0.11	0.13	0.14	0.15	0.17	0.19	0.20	0.20	0.22	0.26	0.28
1700	0.099	0.11	0.12	0.14	0.15	0.16	0.18	0.20	0.21	0.22	0.24	0.28	0.30
1800	0.10	0.12	0.13	0.15	0.16	0.17	0.19	0.21	0.22	0.23	0.25	0.29	0.31
2000	0.12	0.13	0.14	0.16	0.17	0.19	0.21	0.23	0.24	0.26	0.28	0.32	0.35
2200	0.13	0.14	0.15	0.18	0.19	0.20	0.23	0.25	0.27	0.28	0.31	0.36	0.38
2400	0.14	0.15	0.17	0.20	0.21	0.22	0.25	0.28	0.29	0.31	0.33	0.39	0.41
2600	0.15 0.16	0.17	0.18	0.21	0.23	0.24	0.27	0.30	0.32	0.33	0.36	0.42	0.45
2800 3000	0.16	0.18 0.19	0.20 0.21	0.23 0.24	0.24 0.26	0.26 0.28	0.29 0.31	0.32 0.35	0.34 0.36	0.36 0.38	0.39 0.41	0.45 0.48	0.48 0.51
		0.19	0.21			0.20							
3200 3400	0.19 0.20	0.20	0.22	0.26 0.28	0.28 0.30	0.30	0.33 0.35	0.37 0.39	0.39 0.41	0.40 0.43	0.44 0.47	0.51 0.54	0.54 0.58
3600	0.20	0.22	0.24	0.20	0.30	0.33	0.37	0.39	0.41	0.45	0.47	0.57	0.50
3800	0.22	0.24	0.26	0.23	0.33	0.35	0.39	0.44	0.46	0.48	0.52	0.60	0.64
4000	0.23	0.25	0.28	0.32	0.35	0.37	0.41	0.46	0.48	0.50	0.54	0.63	0.67
4200	0.24	0.27	0.29	0.34	0.36	0.39	0.43	0.48	0.50	0.52	0.57	0.66	0.70
4400	0.26	0.28	0.31	0.35	0.38	0.40	0.45	0.50	0.52	0.55	0.59	0.68	0.73
4600	0.27	0.29	0.32	0.37	0.40	0.42	0.47	0.52	0.55	0.57	0.62	0.71	0.76
4800	0.28	0.31	0.33	0.39	0.41	0.44	0.49	0.54	0.57	0.59	0.64	0.74	0.79
5000	0.29	0.32	0.35	0.40	0.43	0.46	0.51	0.56	0.59	0.62	0.67	0.77	0.81
5500					0.47	0.50	0.56	0.62	0.65	0.67	0.73	0.83	0.88
6000					0.51	0.54	0.61	0.67	0.70	0.73	0.79	0.89	0.94
6500					0.55	0.59	0.65	0.72	0.75	0.78	0.84	0.95	1.00
7000					0.59	0.63	0.70	0.77	0.80	0.83	0.89	1.01	1.06
7500					0.63	0.67	0.74	0.81	0.85	0.88	0.94	1.06	1.10
8000							0.79	0.86	0.89	0.93	0.99	1.10	1.15
8500							0.83	0.90	0.94	0.97	1.03	1.14	1.18
9000							0.87	0.94	0.98	1.01	1.08	1.18	1.22
9500							0.91	0.98	1.02	1.05	1.11	1.21	1.24
10000							0.94	1.02	1.06	1.09	1.15	1.23	1.26

Use this sprocket and rpm only if required to obtain speed ratio or to meet diameter limitations. See Engineering Section II-5, Sprocket Diameter—Speed, on page 138.

Horsepower Rating for 0.50 Inch Wide L Section Belt (0.375 Inch Pitch)

RPM of							(Num	Rated Ho ber of Gro		r for Sma Pitch Dia		ches)						
Faster Shaft	10L 1.194	12L 1.432	14L 1.671	16L 1.910	18L 2.149	19L 2.268	20L 2.387	21L 2.507	22L 2.626	24L 2.865	26L 3.104	28L 3.342	30L 3.581	32L 3.820	36L 4.297	40L 4.775	44L 5.252	48L 5.730
725	0.17	0.20	0.24	0.27	0.31	0.32	0.34	0.36	0.37	0.41	0.44	0.47	0.51	0.54	0.61	0.67	0.74	0.81
870	0.20	0.24	0.28	0.33	0.37	0.39	0.41	0.43	0.45	0.49	0.53	0.57	0.61	0.65	0.73	0.81	0.88	0.96
950	0.22 0.27	0.27 0.33	0.31 0.38	0.36 0.43	0.40 0.49	0.42 0.51	0.44 0.54	0.47 0.57	0.49 0.59	0.53 0.65	0.57 0.70	0.62 0.75	0.66 0.81	0.71 0.86	0.79 0.96	0.88 1.06	0.96 1.16	1.05
1160 1425	0.27	0.40	0.47	0.43	0.49	0.63	0.66	0.69	0.73	0.79	0.70	0.75	0.98	1.05	1.17	1.29	1.41	1.53
1750	0.41	0.49	0.57	0.65	0.73	0.77	0.81	0.85	0.89	0.97	1.04	1.12	1.20	1.27	1.42	1.56	1.70	1.83
2850		0.79	0.92	1.05	1.17	1.23	1.29	1.35	1.41	1.53	1.64	1.75	1.86	1.96	2.15	2.33	2.48	2.61
3450			1.11	1.25	1.40	1.47	1.54	1.61	1.68	1.81	1.93	2.05	2.17	2.28	2.47	2.63	2.75	2.83
100	0.023	0.028	0.033	0.037	0.042	0.044	0.047	0.049	0.052	0.056	0.061	0.066	0.070	0.075	0.084	0.094	0.10	0.11
200	0.047	0.056	0.066	0.075	0.084	0.089	0.094	0.098	0.10	0.11	0.12	0.13	0.14	0.15	0.17	0.19	0.21	0.22
300	0.070	0.084	0.098	0.11	0.13	0.13	0.14	0.15	0.15	0.17	0.18	0.20	0.21	0.22	0.25	0.28	0.31	0.34
400	0.094	0.11	0.13	0.15	0.17	0.18	0.19	0.20	0.21	0.22	0.24	0.26	0.28	0.30	0.34	0.37	0.41	0.45
500 600	0.12 0.14	0.14 0.17	0.16 0.20	0.19 0.22	0.21 0.25	0.22 0.27	0.23 0.28	0.25 0.29	0.26 0.31	0.28 0.34	0.30 0.36	0.33 0.39	0.35 0.42	0.37 0.45	0.42 0.50	0.47 0.56	0.51 0.61	0.56 0.67
700	0.14	0.20	0.23	0.26	0.29	0.21	0.33	0.34	0.36	0.34	0.42	0.46	0.42	0.52	0.59	0.65	0.71	0.78
800	0.19	0.22	0.26	0.30	0.34	0.36	0.37	0.39	0.41	0.45	0.49	0.52	0.56	0.60	0.67	0.74	0.81	0.89
900	0.21	0.25	0.29	0.34	0.38	0.40	0.42	0.44	0.46	0.50	0.55	0.59	0.63	0.67	0.75	0.83	0.91	0.99
1000	0.23	0.28	0.33	0.37	0.42	0.44	0.47	0.49	0.51	0.56	0.60	0.65	0.70	0.74	0.83	0.92	1.01	1.10
1100	0.26	0.31	0.36	0.41	0.46	0.49	0.51	0.54	0.56	0.61	0.66	0.71	0.76	0.81	0.91	1.01	1.11	1.20
1200	0.28	0.34	0.39	0.45	0.50	0.53	0.56	0.59	0.61	0.67	0.72	0.78	0.83	0.89	0.99	1.10	1.20	1.30
1300	0.30	0.36	0.42	0.49	0.55	0.57	0.60	0.63	0.66	0.72	0.78	0.84	0.90	0.96	1.07	1.19	1.30	1.41
1400	0.33	0.39	0.46	0.52	0.59	0.62	0.65	0.68	0.71	0.78	0.84	0.90	0.97	1.03	1.15	1.27	1.39	1.50
1500 1600	0.35 0.37	0.42 0.45	0.49 0.52	0.56 0.60	0.63 0.67	0.66 0.71	0.70 0.74	0.73 0.78	0.76 0.81	0.83 0.89	0.90 0.96	0.97 1.03	1.03 1.10	1.10 1.17	1.23 1.30	1.36 1.44	1.48 1.57	1.60 1.69
1700	0.37	0.43	0.52	0.63	0.07	0.71	0.74	0.78	0.86	0.69	1.02	1.03	1.16	1.17	1.38	1.52	1.66	1.79
1800	0.40	0.50	0.59	0.67	0.75	0.79	0.83	0.87	0.91	0.99	1.07	1.15	1.23	1.30	1.45	1.60	1.74	1.87
1900		0.53	0.62	0.71	0.79	0.83	0.88	0.92	0.96	1.05	1.13	1.21	1.29	1.37	1.53	1.68	1.82	1.96
2000		0.56	0.65	0.74	0.83	0.88	0.92	0.97	1.01	1.10	1.19	1.27	1.36	1.44	1.60	1.76	1.90	2.04
2200		0.61	0.71	0.81	0.91	0.96	1.01	1.06	1.11	1.20	1.30	1.39	1.48	1.57	1.74	1.90	2.06	2.20
2400		0.67	0.78	0.89	0.99	1.05	1.10	1.15	1.20	1.30	1.41	1.50	1.60	1.69	1.87	2.04	2.20	2.35
2600		0.72	0.84	0.96	1.07	1.13	1.19	1.24	1.30	1.41	1.51	1.62	1.72	1.82	2.00	2.18	2.33	2.47
2800		0.78	0.90	1.03	1.15	1.21	1.27	1.33	1.39	1.50	1.62	1.73	1.83	1.93	2.12	2.30	2.45	2.59
3000		0.83	0.97	1.10	1.23	1.29	1.36	1.42	1.48	1.60	1.72	1.83	1.94	2.04	2.24	2.41	2.56	2.68
3200 3400			1.03 1.09	1.17 1.24	1.30 1.38	1.37 1.45	1.44 1.52	1.50 1.59	1.57 1.66	1.69 1.79	1.82 1.91	1.93 2.03	2.04 2.14	2.15 2.25	2.35 2.44	2.51 2.61	2.65 2.73	2.76 2.82
3600			1.15	1.30	1.45	1.53	1.60	1.67	1.74	1.87	2.00	2.12	2.24	2.35	2.53	2.68	2.79	2.86
3800			1.13	1.37	1.53	1.60	1.68	1.75	1.74	1.96	2.00	2.12	2.24	2.33	2.61	2.75	2.79	2.87
4000			1.27	1.44	1.60	1.68	1.76	1.83	1.90	2.04	2.18	2.30	2.41	2.51	2.68	2.80	2.87	2.87
4200				1.50	1.67	1.75	1.83	1.91	1.98	2.12	2.26	2.38	2.49	2.59	2.74	2.84	2.87	2.83
4400				1.57	1.74	1.82	1.90	1.98	2.06	2.20	2.33	2.45	2.56	2.65	2.79	2.87	2.86	2.78
4600				1.63	1.81	1.89	1.98	2.05	2.13	2.28	2.41	2.52	2.63	2.71	2.83	2.87	2.83	2.69
4800				1.69	1.87	1.96	2.04	2.12	2.20	2.35	2.47	2.59	2.68	2.76	2.86	2.87	2.78	2.58
5000				1.76	1.94	2.03	2.11	2.19	2.27	2.41	2.54	2.65	2.74	2.80	2.87	2.84	2.70	2.44
5200 5400				1.82 1.87	2.00 2.06	2.09	2.18 2.24	2.26 2.32	2.33 2.40	2.47 2.53	2.60 2.65	2.70	2.78 2.81	2.84 2.86	2.87 2.86	2.80 2.74	2.60 2.47	2.26
					2.06	2.15		2.32	2.40		2.00	2.74	2.81					
5600 5800				1.93 1.99	2.12	2.21	2.30 2.36	2.38	2.45	2.59 2.64	2.70	2.78	2.84	2.87 2.87	2.83 2.79	2.66 2.56	2.32 2.15	1.82 1.55
6000				2.04	2.16	2.27	2.41	2.44	2.56	2.68	2.74	2.84	2.87	2.87	2.79	2.44	1.94	1.24

Use this sprocket and rpm only if required to obtain speed ratio or to meet diameter limitations. See Engineering Section II-5, Sprocket Diameter—Speed, on page 138.

Sprocket surface speeds over 6,500 fpm; special pulleys are required. See Engineering Section II-5, Sprocket Diameter—Speed, on page 138.

Horsepower Rating for 0.75 Inch Wide L Section Belt (0.375 Inch Pitch)

RPM of							(Num			r for Sma Pitch Dia	II Pulley meter, In	ches)						
Faster Shaft	10L 1.194	12L 1.432	14L 1.671	16L 1.910	18L 2.149	19L 2.268	20L 2.387	21L 2.507	22L 2.626	24L 2.865	26L 3.104	28L 3.342	30L 3.581	32L 3.820	36L 4.297	40L 4.775	44L 5.252	48L 5.730
725 870	0.27 0.33	0.33 0.39	0.38 0.46	0.43 0.52	0.49 0.59	0.52 0.62	0.54 0.65	0.57 0.68	0.60 0.71	0.65 0.78	0.70 0.84	0.76 0.91	0.81 0.97	0.86 1.04	0.97 1.16	1.08 1.29	1.18 1.41	1.29 1.54
950	0.36	0.43	0.50	0.57	0.64	0.67	0.71	0.74	0.78	0.85	0.92	0.99	1.06	1.13	1.27	1.40	1.54	1.67
1160	0.43	0.52	0.61	0.69	0.78	0.82	0.86	0.91	0.95	1.04	1.12	1.20	1.29	1.37	1.54	1.70	1.86	2.02
1425	0.53	0.64	0.74	0.85	0.95	1.01	1.06	1.11	1.16	1.27	1.37	1.47	1.57	1.67	1.87	2.07	2.26	2.45
1750	0.65	0.78	0.91	1.04	1.17	1.23	1.30	1.36	1.42	1.55	1.67	1.79	1.91	2.03	2.27	2.50	2.72	2.93
2850		1.27	1.47	1.67	1.87	1.97	2.07	2.16	2.26	2.45	2.63 3.10	2.80 3.29	2.97 3.47	3.14	3.45	3.73	3.97	4.18
3450 100	0.037	0.045	0.052	2.01 0.060	2.24 0.067	2.35 0.071	2.46 0.075	2.57 0.079	2.68 0.082	2.89 0.090	0.097	0.10	0.11	3.64 0.12	3.95 0.13	4.20 0.15	4.40 0.16	4.53 0.18
200	0.037	0.090	0.10	0.12	0.13	0.14	0.073	0.16	0.16	0.18	0.19	0.21	0.22	0.24	0.27	0.30	0.33	0.36
300	0.11	0.13	0.16	0.18	0.20	0.21	0.22	0.24	0.25	0.27	0.29	0.31	0.34	0.36	0.40	0.45	0.49	0.54
400	0.15	0.18	0.21	0.24	0.27	0.28	0.30	0.31	0.33	0.36	0.39	0.42	0.45	0.48	0.54	0.60	0.66	0.72
500	0.19	0.22	0.26	0.30	0.34	0.36	0.37	0.39	0.41	0.45	0.49	0.52	0.56	0.60	0.67	0.75	0.82	0.89
600	0.22	0.27	0.31	0.36	0.40	0.43	0.45	0.47	0.49	0.54	0.58	0.63	0.67	0.72	0.81	0.89	0.98	1.07
700	0.26	0.31	0.37	0.42	0.47	0.50	0.52	0.55	0.58	0.63	0.68	0.73	0.78	0.84	0.94	1.04	1.14	1.25
800	0.30	0.36	0.42	0.48	0.54	0.57	0.60	0.63	0.66	0.72	0.78	0.84	0.89	0.95	1.07	1.19	1.30	1.42
900	0.34	0.40	0.47	0.54	0.61	0.64	0.67	0.71	0.74	0.81	0.87	0.94	1.00	1.07	1.20	1.33	1.46	1.59
1000 1100	0.37 0.41	0.45 0.49	0.52 0.58	0.60 0.66	0.67 0.74	0.71 0.78	0.75 0.82	0.78 0.86	0.82 0.90	0.89 0.98	0.97 1.06	1.04 1.14	1.11 1.22	1.19 1.30	1.33 1.46	1.48 1.62	1.62 1.77	1.76 1.92
1200	0.45	0.54	0.63	0.72	0.74	0.75	0.89	0.94	0.98	1.07	1.16	1.25	1.33	1.42	1.59	1.76	1.92	2.09
1300	0.49	0.58	0.68	0.78	0.87	0.92	0.97	1.02	1.06	1.16	1.25	1.35	1.44	1.53	1.72	1.90	2.07	2.25
1400	0.52	0.63	0.73	0.84	0.94	0.99	1.04	1.09	1.14	1.25	1.35	1.45	1.55	1.65	1.84	2.03	2.22	2.41
1500	0.56	0.67	0.78	0.89	1.00	1.06	1.11	1.17	1.22	1.33	1.44	1.55	1.65	1.76	1.97	2.17	2.37	2.56
1600	0.60	0.72	0.84	0.95	1.07	1.13	1.19	1.25	1.30	1.42	1.53	1.65	1.76	1.87	2.09	2.30	2.51	2.71
1700	0.64	0.76	0.89	1.01	1.14	1.20	1.26	1.32	1.38	1.50	1.62	1.74	1.86	1.98	2.21	2.43	2.65	2.86
1800		0.81	0.94	1.07	1.20	1.27	1.33	1.40	1.46	1.59	1.72	1.84	1.97	2.09	2.33	2.56	2.78	3.00
1900 2000		0.85 0.89	0.99 1.04	1.13 1.19	1.27 1.33	1.34 1.40	1.40 1.48	1.47 1.55	1.54 1.62	1.67 1.76	1.81 1.90	1.94 2.03	2.07 2.17	2.20	2.45 2.56	2.69 2.81	2.92 3.05	3.14 3.27
2200		0.98	1.14	1.30	1.46	1.54	1.62	1.69	1.77	1.92	2.07	2.03	2.17	2.51	2.78	3.05	3.29	3.52
2400		1.07	1.25	1.42	1.59	1.67	1.76	1.84	1.92	2.09	2.25	2.41	2.56	2.71	3.00	3.27	3.52	3.75
2600		1.16	1.35	1.53	1.72	1.81	1.90	1.99	2.07	2.25	2.42	2.59	2.75	2.91	3.21	3.48	3.73	3.96
2800		1.25	1.45	1.65	1.84	1.94	2.03	2.13	2.22	2.41	2.59	2.76	2.93	3.09	3.40	3.68	3.93	4.14
3000		1.33	1.55	1.76	1.97	2.07	2.17	2.27	2.37	2.56	2.75	2.93	3.10	3.27	3.58	3.86	4.10	4.30
3200			1.65	1.87	2.09	2.20	2.30	2.41	2.51	2.71	2.91	3.09	3.27	3.44	3.75	4.02	4.25	4.42
3400			1.74	1.98	2.21	2.32	2.43	2.54	2.65	2.86	3.06	3.25	3.43	3.60	3.91	4.17	4.37	4.51
3600			1.84	2.09	2.33	2.45	2.56	2.67	2.78	3.00	3.21	3.40	3.58	3.75	4.05	4.30	4.47	4.57
3800 4000			1.94	2.20 2.30	2.45 2.56	2.57 2.69	2.69 2.81	2.80	2.92 3.05	3.14 3.27	3.35 3.48	3.54 3.68	3.73 3.86	3.89 4.02	4.18 4.30	4.40 4.49	4.54 4.59	4.60 4.59
4200			2.03	2.30	2.56	2.89	2.81	3.05	3.05	3.40	3.48	3.81	3.86	4.02	4.30	4.49	4.60	4.59
4400				2.51	2.78	2.92	3.05	3.17	3.17	3.52	3.73	3.93	4.10	4.25	4.47	4.59	4.58	4.44
4600				2.61	2.89	3.03	3.16	3.29	3.41	3.64	3.85	4.04	4.20	4.34	4.53	4.60	4.53	4.31
4800				2.71	3.00	3.14	3.27	3.40	3.52	3.75	3.96	4.14	4.30	4.42	4.57	4.59	4.44	4.13
5000				2.81	3.10	3.24	3.38	3.51	3.63	3.86	4.06	4.23	4.38	4.49	4.60	4.55	4.32	3.90
5200				2.91	3.21	3.35	3.48	3.61	3.73	3.96	4.16	4.32	4.45	4.54	4.60	4.48	4.16	3.62
5400				3.00	3.30	3.45	3.58	3.71	3.83	4.05	4.24	4.39	4.50	4.57	4.58	4.38	3.96	3.29
5600				3.09	3.40	3.54	3.68	3.81	3.93	4.14	4.32	4.45	4.55	4.59	4.53	4.25	3.72	2.91
5800				3.18 3.27	3.49 3.58	3.64	3.77	3.90 3.98	4.02 4.10	4.22 4.30	4.39 4.45	4.51 4.55	4.58 4.60	4.60 4.59	4.47 4.38	4.09 3.90	3.44	2.48
6000				3.27	პ. ეგ	3.73	3.86	J.98	4.10	4.30	4.45	4.55	4.00	4.59	4.38	3.90	3.11	1.99

Use this sprocket and rpm only if required to obtain speed ratio or to meet diameter limitations. See Engineering Section II-5, Sprocket Diameter—Speed, on page 138.

Sprocket surface speeds over 6,500 fpm; special pulleys are required. See Engineering Section II-5, Sprocket Diameter—Speed, on page 138.

Horsepower Rating for 1.00 Inch Wide L Section Belt (0.375 Inch Pitch)

RPM of							(Num		orsepowe ooves and			ches)						
Faster Shaft	10L 1.194	12L 1.432	14L 1.671	16L 1.910	18L 2.149	19L 2.268	20L 2.387	21L 2.507	22L 2.626	24L 2.865	26L 3.104	28L 3.342	30L 3.581	32L 3.820	36L 4.297	40L 4.775	44L 5.252	48L 5.730
725 870	0.38 0.45	0.45 0.54	0.53 0.63	0.60 0.72	0.68 0.81	0.72 0.86	0.75 0.90	0.79 0.95	0.83 0.99	0.90 1.08	0.98 1.17	1.05 1.26	1.13 1.35	1.20 1.44	1.35 1.61	1.50 1.79	1.64 1.96	1.79 2.14
950 1160	0.49 0.60	0.59 0.72	0.69 0.84	0.79 0.96	0.89 1.08	0.94 1.14	0.99 1.20	1.03 1.26	1.08 1.32	1.18 1.44	1.28 1.56	1.37 1.67	1.47 1.79	1.57 1.91	1.76 2.14	1.95 2.36	2.14 2.59	2.32 2.81
1425	0.60	0.72	1.03	1.18	1.33	1.14	1.47	1.54	1.62	1.76	1.90	2.04	2.18	2.32	2.14	2.87	3.14	3.40
1750	0.91	1.09	1.27	1.45	1.62	1.71	1.80	1.89	1.97	2.15	2.32	2.49	2.66	2.82	3.15	3.47	3.77	4.07
2850 3450		1.76	2.04 2.46	2.32 2.79	2.60 3.11	2.74 3.27	2.87 3.42	3.01 3.58	3.14 3.73	3.40 4.02	3.65 4.30	3.89 4.57	4.13 4.82	4.36 5.06	4.79 5.48	5.17 5.84	5.52 6.11	5.81 6.29
100	0.052	0.062	0.073	0.083	0.094	0.099	0.10	0.11	0.11	0.12	0.14	0.15	0.16	0.17	0.19	0.21	0.23	0.25
300	0.10	0.12	0.15	0.17	0.19	0.20	0.21	0.22	0.23	0.25	0.27	0.29	0.31	0.33	0.37	0.42	0.46	0.50 0.75
400	0.10	0.13	0.22	0.33	0.20	0.40	0.42	0.44	0.46	0.50	0.54	0.58	0.62	0.67	0.75	0.83	0.03	1.00
500	0.26	0.31	0.36	0.42	0.47	0.49	0.52	0.55	0.57	0.62	0.68	0.73	0.78	0.83	0.93	1.04	1.14	1.24
600 700	0.31 0.36	0.37 0.44	0.44 0.51	0.50 0.58	0.56 0.65	0.59 0.69	0.62 0.73	0.65 0.76	0.69 0.80	0.75 0.87	0.81 0.94	0.87 1.02	0.93 1.09	1.00 1.16	1.12 1.30	1.24 1.45	1.36 1.59	1.49 1.73
800	0.42	0.50	0.58	0.67	0.75	0.79	0.83	0.87	0.91	1.00	1.08	1.16	1.24	1.32	1.49	1.65	1.81	1.97
900 1000	0.47 0.52	0.56 0.62	0.65 0.73	0.75 0.83	0.84 0.93	0.89 0.99	0.93 1.04	0.98 1.09	1.03 1.14	1.12 1.24	1.21 1.34	1.30 1.45	1.40 1.55	1.49 1.65	1.67 1.85	1.85 2.05	2.03 2.25	2.21 2.44
1100	0.52	0.69	0.80	0.91	1.03	1.08	1.14	1.20	1.25	1.36	1.48	1.59	1.70	1.81	2.03	2.25	2.46	2.67
1200	0.62	0.75	0.87	1.00	1.12	1.18	1.24	1.30	1.36	1.49	1.61	1.73	1.85	1.97	2.21	2.44	2.67	2.90
1300 1400	0.68 0.73	0.81 0.87	0.94 1.02	1.08 1.16	1.21 1.30	1.28 1.37	1.34 1.45	1.41 1.52	1.48 1.59	1.61 1.73	1.74 1.87	1.87 2.01	2.00	2.13	2.38	2.63	2.88 3.09	3.12 3.34
1500	0.78	0.93	1.09	1.24	1.40	1.47	1.55	1.62	1.70	1.85	2.00	2.15	2.30	2.44	2.73	3.01	3.29	3.56
1600 1700	0.83 0.88	1.00 1.06	1.16 1.23	1.32 1.41	1.49 1.58	1.57 1.66	1.65 1.75	1.73 1.83	1.81 1.92	1.97 2.09	2.13 2.26	2.29 2.42	2.44 2.59	2.60 2.75	2.90 3.07	3.20 3.38	3.49 3.68	3.77 3.97
1800	0.00	1.12	1.30	1.49	1.67	1.76	1.85	1.94	2.03	2.21	2.38	2.56	2.73	2.90	3.23	3.56	3.87	4.17
1900		1.18	1.37	1.57	1.76	1.85	1.95	2.04	2.14	2.32	2.51	2.69	2.87	3.05	3.40	3.73	4.05	4.36
2000 2200		1.24 1.36	1.45 1.59	1.65 1.81	1.85 2.03	1.95 2.14	2.05 2.25	2.15 2.35	2.25 2.46	2.44 2.67	2.63 2.88	2.82 3.09	3.01 3.29	3.20 3.49	3.56 3.87	3.90 4.23	4.23 4.57	4.54 4.89
2400		1.49	1.73	1.97	2.21	2.32	2.44	2.56	2.67	2.90	3.12	3.34	3.56	3.77	4.17	4.54	4.89	5.21
2600		1.61	1.87	2.13	2.38	2.51	2.63	2.76	2.88	3.12	3.36	3.59	3.82	4.04	4.45	4.84	5.19	5.50
2800 3000		1.73 1.85	2.01 2.15	2.29 2.44	2.56 2.73	2.69 2.87	2.82 3.01	2.96 3.15	3.09 3.29	3.34 3.56	3.59 3.82	3.83 4.07	4.07 4.31	4.29 4.54	4.72 4.98	5.11 5.36	5.45 5.69	5.75 5.97
3200			2.29	2.60	2.90	3.05	3.20	3.34	3.49	3.77	4.04	4.29	4.54	4.78	5.21	5.59	5.90	6.14
3400			2.42	2.75	3.07	3.22	3.38	3.53	3.68	3.97	4.25	4.51	4.77	5.00	5.43	5.79	6.07	6.27
3600 3800			2.56 2.69	2.90 3.05	3.23 3.40	3.40 3.56	3.56 3.73	3.71 3.89	3.87 4.05	4.17 4.36	4.45 4.65	4.72 4.92	4.98 5.17	5.21 5.41	5.63 5.81	5.97 6.11	6.21 6.31	6.35 6.39
4000			2.82	3.20	3.56	3.73	3.90	4.07	4.23	4.54	4.84	5.11	5.36	5.59	5.97	6.23	6.37	6.37
4200 4400				3.34 3.49	3.71 3.87	3.89 4.05	4.07 4.23	4.24 4.40	4.40 4.57	4.72 4.89	5.02 5.19	5.29 5.45	5.53 5.69	5.75 5.90	6.10 6.21	6.32 6.37	6.39 6.36	6.30 6.17
4600				3.63	4.02	4.21	4.39	4.57	4.74	5.06	5.35	5.61	5.84	6.03	6.29	6.39	6.29	5.98
4800				3.77	4.17	4.36	4.54	4.72	4.89	5.21	5.50	5.75	5.97	6.14	6.35	6.37	6.17	5.73
5000 5200				3.90 4.04	4.31 4.45	4.51 4.65	4.69 4.84	4.87 5.02	5.04 5.19	5.36 5.50	5.64 5.77	5.88 6.00	6.08 6.18	6.23 6.30	6.38 6.38	6.31 6.22	6.00 5.78	5.41 5.03
5400				4.17	4.59	4.79	4.98	5.16	5.32	5.63	5.89	6.10	6.25	6.35	6.36	6.08	5.50	4.57
5600				4.29	4.72	4.92	5.11	5.29	5.45	5.75	6.00	6.19	6.32	6.38	6.30	5.90	5.17	4.05
5800 6000				4.42 4.54	4.85 4.98	5.05 5.17	5.24 5.36	5.41 5.53	5.58 5.69	5.86 5.97	6.09 6.18	6.26 6.32	6.36 6.38	6.39	6.21 6.08	5.68 5.41	4.77 4.32	3.44 2.76

Use this sprocket and rpm only if required to obtain speed ratio or to meet diameter limitations. See Engineering Section II-5, Sprocket Diameter—Speed, on page 138.

Sprocket surface speeds over 6,500 fpm; special pulleys are required. See Engineering Section II-5, Sprocket Diameter—Speed, on page 138.

Horsepower Rating for 0.75 Inch Wide H Section Belt (0.500 Inch Pitch)

RPM of						(Nı		Horsepowe rooves and			nes)					
Faster Shaft	14L 2.228	16L 2.546	18L 2.865	19L 3.024	20L 3.183	21L 3.342	22L 3.501	24L 3.820	26L 4.138	28L 4.456	30L 4.775	32L 5.093	36L 5.730	40L 6.366	44L 7.003	48L 7.639
725	1.26	1.44	1.62	1.71	1.80	1.89	1.98	2.16	2.34	2.52	2.70	2.88	3.23	3.59	3.94	4.29
870	1.52	1.73	1.95	2.06	2.16	2.27	2.38	2.59	2.81	3.02	3.23	3.44	3.87	4.29	4.71	5.12
950	1.66	1.89	2.13	2.24	2.36	2.48	2.59	2.83	3.06	3.29	3.53	3.76	4.22	4.67	5.12	5.57
1160	2.02	2.31	2.59	2.73	2.88	3.02	3.16	3.44	3.73	4.01	4.29	4.57	5.12	5.67	6.20	6.74
1425		2.83	3.18	3.35	3.53	3.70	3.87	4.22	4.56	4.90	5.24	5.57	6.23	6.88	7.52	8.15
1750		3.46	3.89	4.10	4.31	4.52	4.73	5.15	5.56	5.97	6.37	6.77	7.56	8.32	9.05	9.76
2850			6.23	6.56	6.88	7.21	7.52	8.15	8.75	9.34	9.91	10.5	11.5	12.4	13.3	14.0
3450	0.17	0.20	7.46	7.84	8.21	8.58	8.94	9.64	10.3 0.32	11.0	11.6	12.2	13.2	14.1	14.7	15.2
100 200	0.17 0.35	0.40	0.22 0.45	0.24 0.47	0.25 0.50	0.26 0.52	0.27 0.55	0.30 0.60	0.65	0.35 0.70	0.37 0.75	0.40 0.80	0.45 0.90	0.50 1.00	0.55 1.10	0.60 1.20
300	0.52		0.43	0.47	0.75	0.79	0.82	0.90	0.03	1.05	1.12	1.20	1.34	1.49		1.79
400	0.52	0.60 0.80	0.67	0.71	1.00	1.05	1.10	1.20	1.30	1.05	1.12	1.59	1.34	1.49	1.64 2.19	2.39
500	0.70	1.00	1.12	1.18	1.00	1.03	1.37	1.49	1.62	1.74	1.49	1.99	2.24	2.48	2.73	2.39
600	1.05	1.20	1.34	1.42	1.49	1.57	1.64	1.79	1.94	2.09	2.24	2.39	2.68	2.98	3.27	3.56
700	1.22	1.39	1.57	1.66	1.74	1.83	1.92	2.09	2.26	2.43	2.61	2.78	3.12	3.46	3.80	4.14
800	1.39	1.59	1.79	1.89	1.99	2.09	2.19	2.39	2.58	2.78	2.98	3.17	3.56	3.95	4.34	4.72
900	1.57	1.79	2.01	2.13	2.24	2.35	2.46	2.68	2.90	3.12	3.34	3.56	4.00	4.43	4.86	5.29
1000	1.74	1.99	2.24	2.36	2.48	2.61	2.73	2.98	3.22	3.46	3.71	3.95	4.43	4.91	5.38	5.85
1100	1.92	2.19	2.46	2.59	2.73	2.87	3.00	3.27	3.54	3.80	4.07	4.34	4.86	5.38	5.90	6.41
1200		2.39	2.68	2.83	2.98	3.12	3.27	3.56	3.85	4.14	4.43	4.72	5.29	5.85	6.41	6.95
1300		2.58	2.90	3.06	3.22	3.38	3.54	3.85	4.17	4.48	4.79	5.10	5.71	6.31	6.91	7.49
1400		2.78	3.12	3.29	3.46	3.63	3.80	4.14	4.48	4.82	5.15	5.48	6.13	6.77	7.40	8.02
1500		2.98	3.34	3.53	3.71	3.89	4.07	4.43	4.79	5.15	5.50	5.85	6.54	7.22	7.88	8.53
1600		3.17	3.56	3.76	3.95	4.14	4.34	4.72	5.10	5.48	5.85	6.22	6.95	7.67	8.36	9.03
1700		3.37	3.78	3.99	4.19	4.40	4.60	5.01	5.41	5.81	6.20	6.59	7.36	8.10	8.83	9.52
1800		3.56	4.00	4.22	4.43	4.65	4.86	5.29	5.71	6.13	6.54	6.95	7.75	8.53	9.28	10.0
1900		3.76	4.22	4.44	4.67	4.90	5.12	5.57	6.01	6.45	6.88	7.31	8.15	8.95	9.72	10.5
2000		3.95	4.43	4.67	4.91	5.15	5.38	5.85	6.31	6.77	7.22	7.67	8.53	9.36	10.2	10.9
2100			4.65	4.90	5.15	5.40	5.64	6.13	6.61	7.09	7.56	8.02	8.91	9.76	10.6	11.3
2200			4.86	5.12	5.38	5.64	5.90	6.41	6.91	7.40	7.88	8.36	9.28	10.2	11.0	11.8
2300			5.08	5.35	5.62	5.89	6.15	6.68	7.20	7.71	8.21	8.70	9.64	10.5	11.4	12.2
2400			5.29	5.57	5.85	6.13	6.41	6.95	7.49	8.02	8.53	9.03	10.0	10.9	11.8	12.5
2500 2600			5.50 5.71	5.79 6.01	6.08 6.31	6.37 6.61	6.66 6.91	7.22 7.49	7.78 8.06	8.32 8.62	8.85 9.16	9.36 9.68	10.3 10.7	11.3 11.6	12.1 12.5	12.9 13.2
2800			6.13	6.45	6.77	7.09	7.40	8.02	8.62	9.20	9.76	10.3	11.3	12.3	13.1	13.2
3000			6.54	6.88	7.22	7.56	7.88	8.53	9.16	9.76	10.3	10.9	12.0	12.9	13.7	14.4
3200			6.95	7.31	7.67	8.02	8.36	9.03	9.68	10.3	10.3	11.5	12.5	13.5	14.2	14.8
3400			7.36	7.73	8.10	8.47	8.83	9.52	10.2	10.8	11.4	12.0	13.1	14.0	14.7	15.2
3600			1.00		8.53	8.91	9.28	10.0	10.7	11.3	12.0	12.5	13.6	14.4	15.0	15.4
3800					8.95	9.34	9.72	10.5	11.2	11.8	12.4	13.0	14.0	14.8	15.3	15.5
4000					9.36	9.76	10.2	10.9	11.6	12.3	12.9	13.5	14.4	15.1	15.4	15.5
4200					9.76	10.2	10.6	11.3	12.1	12.7	13.3	13.9	14.7	15.3	15.5	15.4
4400					10.2	10.6	11.0	11.8	12.5	13.1	13.7	14.2	15.0	15.4	15.5	15.1
4600					10.5	11.0	11.4	12.2	12.9	13.5	14.1	14.5	15.2	15.5	15.3	14.7
4800					10.9	11.3	11.8	12.5	13.2	13.9	14.4	14.8	15.4	15.5	15.1	14.1
5000					11.3	11.7	12.1	12.9	13.6	14.2	14.7	15.1	15.5	15.4	14.7	13.4
5200					11.6	12.1	12.5	13.2	13.9	14.5	14.9	15.2	15.5	15.2	14.2	
5400					12.0	12.4	12.8	13.6	14.2	14.7	15.1	15.4	15.5	14.9	13.6	
5600					12.3	12.7	13.1	13.9	14.5	14.9	15.3	15.5	15.4	14.5		
5800					12.6	13.0	13.4	14.1	14.7	15.1	15.4	15.5	15.2	14.0		
6000					12.9	13.3	13.7	14.4	14.9	15.3	15.5	15.5	14.9	13.4		

Use this sprocket and rpm only if required to obtain speed ratio or to meet diameter limitations. See Engineering Section II-5, Sprocket Diameter—Speed, on page 138.

Sprocket surface speeds over 6,500 fpm; special pulleys are required. See Engineering Section II-5, Sprocket Diameter—Speed, on page 138.

Horsepower Rating for 1.00 Inch Wide H Section Belt (0.500 Inch Pitch)

RPM of			3.300		-	(Ni	Rated umber of G	Horsepowe rooves and			nes)					
Faster Shaft	14L 2.228	16L 2.546	18L 2.865	19L 3.024	20L 3.183	21L 3.342	22L 3.501	24L 3.820	26L 4.138	28L 4.456	30L 4.775	32L 5.093	36L 5.730	40L 6.366	44L 7.003	48L 7.639
725	1.75	1.99	2.24	2.37	2.49	2.62	2.74	2.99	3.23	3.48	3.73	3.97	4.46	4.95	5.44	5.92
870	2.09	2.39	2.69	2.84	2.99	3.14	3.28	3.58	3.88	4.17	4.46	4.76	5.34	5.92	6.50	7.07
950	2.29	2.61	2.94	3.10	3.26	3.42	3.58	3.91	4.23	4.55	4.87	5.19	5.82	6.45	7.08	7.69
1160	2.79	3.18	3.58	3.78	3.97	4.17	4.37	4.76	5.15	5.54	5.92	6.31	7.07	7.82	8.57	9.30
1425		3.91	4.39	4.63	4.87	5.11	5.35	5.82	6.29	6.76	7.23	7.69	8.61	9.51	10.4	11.2
1750 2850		4.78	5.37 8.61	5.66 9.06	5.95 9.51	6.24 9.95	6.53 10.4	7.11 11.2	7.68 12.1	8.24 12.9	8.80 13.7	9.35 14.5	10.4 15.9	11.5 17.2	12.5 18.3	13.5 19.3
3450			10.3	10.8	11.3	11.8	12.3	13.3	14.3	15.1	16.0	16.8	18.2	19.4	20.4	21.0
100	0.24	0.28	0.31	0.33	0.34	0.36	0.38	0.41	0.45	0.48	0.52	0.55	0.62	0.69	0.76	0.83
200	0.48	0.55	0.62	0.65	0.69	0.72	0.76	0.83	0.89	0.96	1.03	1.10	1.24	1.38	1.51	1.65
300	0.72	0.83	0.93	0.98	1.03	1.08	1.14	1.24	1.34	1.45	1.55	1.65	1.86	2.06	2.27	2.47
400	0.96	1.10	1.24	1.31	1.38	1.45	1.51	1.65	1.79	1.93	2.06	2.20	2.47	2.75	3.02	3.29
500	1.20	1.38	1.55	1.63	1.72	1.81	1.89	2.06	2.23	2.41	2.58	2.75	3.09	3.43	3.77	4.11
600	1.45	1.65	1.86	1.96	2.06	2.17	2.27	2.47	2.68	2.88	3.09	3.29	3.70	4.11	4.51	4.92
700	1.69	1.93	2.17	2.29	2.41	2.53	2.65	2.88	3.12	3.36	3.60	3.84	4.31	4.78	5.25	5.72
800	1.93	2.20	2.47	2.61	2.75	2.88	3.02	3.29	3.57	3.84	4.11	4.38	4.92	5.46	5.99	6.52
900	2.17	2.47	2.78	2.94	3.09	3.24	3.40	3.70	4.01	4.31	4.62	4.92	5.52	6.12	6.72	7.30
1000	2.41 2.65	2.75	3.09	3.26	3.43	3.60	3.77	4.11 4.51	4.45	4.78	5.12	5.46	6.12	6.78	7.43	8.08
1100 1200	2.00	3.02 3.29	3.40 3.70	3.58 3.91	3.77 4.11	3.96 4.31	4.14 4.51	4.51	4.89 5.32	5.25 5.72	5.62 6.12	5.99 6.52	6.72 7.30	7.43 8.08	8.15 8.85	8.85 9.60
			4.01				4.89		5.76				7.89			
1300 1400		3.57 3.84	4.01	4.23 4.55	4.45 4.78	4.67 5.02	5.25	5.32 5.72	6.19	6.19 6.65	6.62 7.11	7.04 7.56	8.47	8.72 9.35	9.54 10.2	10.3 11.1
1500		4.11	4.62	4.87	5.12	5.37	5.62	6.12	6.62	7.11	7.60	8.08	9.04	9.97	10.2	11.8
1600		4.38	4.92	5.19	5.46	5.72	5.99	6.52	7.04	7.56	8.08	8.59	9.60	10.6	11.5	12.5
1700		4.65	5.22	5.51	5.79	6.07	6.35	6.91	7.47	8.02	8.56	9.10	10.2	11.2	12.2	13.2
1800		4.92	5.52	5.82	6.12	6.42	6.72	7.30	7.89	8.47	9.04	9.60	10.7	11.8	12.8	13.8
1900		5.19	5.82	6.14	6.45	6.76	7.08	7.69	8.31	8.91	9.51	10.1	11.2	12.4	13.4	14.5
2000		5.46	6.12	6.45	6.78	7.11	7.43	8.08	8.72	9.35	9.97	10.6	11.8	12.9	14.0	15.1
2100			6.42	6.76	7.11	7.45	7.79	8.47	9.13	9.79	10.4	11.1	12.3	13.5	14.6	15.7
2200			6.72	7.08	7.43	7.79	8.15	8.85	9.54	10.2	10.9	11.5	12.8	14.0	15.2	16.2
2300			7.01	7.39	7.76	8.13	8.50	9.23	9.94	10.6	11.3	12.0	13.3	14.6	15.7	16.8
2400			7.30	7.69	8.08	8.47	8.85	9.60	10.3	11.1	11.8	12.5	13.8	15.1	16.2	17.3
2500 2600			7.60 7.89	8.00 8.31	8.40 8.72	8.80 9.13	9.19 9.54	9.97 10.3	10.7 11.1	11.5 11.9	12.2 12.6	12.9 13.4	14.3 14.8	15.6 16.1	16.7 17.2	17.8 18.3
2800			8.47	8.91	9.35	9.79	10.2	11.1	11.9	12.7	13.5	14.2	15.7	17.0	18.1	19.1
3000			9.04	9.51	9.97	10.4	10.9	11.8	12.6	13.5	14.3	15.1	16.5	17.8	18.9	19.9
3200			9.60	10.1	10.6	11.1	11.5	12.5	13.4	14.2	15.1	15.9	17.3	18.6	19.6	20.5
3400			10.2	10.7	11.2	11.7	12.2	13.2	14.1	15.0	15.8	16.6	18.0	19.3	20.2	20.9
3600					11.8	12.3	12.8	13.8	14.8	15.7	16.5	17.3	18.7	19.9	20.7	21.2
3800					12.4	12.9	13.4	14.5	15.4	16.3	17.2	18.0	19.3	20.4	21.1	21.4
4000					12.9	13.5	14.0	15.1	16.1	17.0	17.8	18.6	19.9	20.8	21.3	21.4
4200					13.5	14.1	14.6	15.7	16.7	17.6	18.4	19.1	20.3	21.1	21.4	21.2
4400					14.0	14.6	15.2	16.2	17.2	18.1	18.9	19.6	20.7	21.3	21.4	20.8
4600					14.6	15.1	15.7	16.8	17.8	18.7	19.4	20.1	21.0	21.4	21.2	20.3
4800					15.1	15.7	16.2	17.3	18.3	19.1	19.9	20.5	21.2	21.4	20.8	19.5
5000					15.6	16.2	16.7	17.8	18.8	19.6	20.3	20.8	21.4	21.2	20.3	18.5
5200					16.1	16.7	17.2	18.3	19.2	20.0	20.6	21.1	21.4	21.0	19.6	
5400 5600					16.5 17.0	17.1 17.6	17.7 18.1	18.7 19.1	19.6 20.0	20.3	20.9 21.1	21.2 21.4	21.4	20.6	18.8	
5800					17.0	18.0	18.5	19.1	20.0	20.6	21.3	21.4	20.9	19.4		
6000					17.8	18.4	18.9	19.9	20.6	21.1	21.4	21.4	20.6	18.5		

Use this sprocket and rpm only if required to obtain speed ratio or to meet diameter limitations. See Engineering Section II-5, Sprocket Diameter—Speed, on page 138.

Sprocket surface speeds over 6,500 fpm; special pulleys are required. See Engineering Section II-5, Sprocket Diameter—Speed, on page 138.

Horsepower Rating for 1.50 Inch Wide H Section Belt (0.500 Inch Pitch)

RPM of						(Nı		Horsepowe rooves and			nes)					
Faster Shaft	14L 2.228	16L 2.546	18L 2.865	19L 3.024	20L 3.183	21L 3.342	22L 3.501	24L 3.820	26L 4.138	28L 4.456	30L 4.775	32L 5.093	36L 5.730	40L 6.366	44L 7.003	48L 7.639
725	2.71	3.09	3.48	3.67	3.87	4.06	4.25	4.63	5.02	5.40	5.78	6.17	6.93	7.68	8.44	9.19
870	3.25	3.71	4.17	4.40	4.63	4.87	5.10	5.55	6.01	6.47	6.93	7.38	8.29	9.19	10.1	11.0
950	3.55	4.05	4.56	4.81	5.06	5.31	5.56	6.06	6.56	7.06	7.55	8.05	9.03	10.0	11.0	11.9
1160	4.33	4.94	5.55	5.86	6.17	6.47	6.77	7.38	7.99	8.59	9.19	9.79	11.0	12.1	13.3	14.4
1425		6.06	6.81	7.18	7.55	7.93	8.30	9.03	9.77	10.5	11.2	11.9	13.4	14.8	16.1	17.5
1750		7.42	8.34	8.79	9.24	9.69	10.1	11.0	11.9	12.8	13.7	14.5	16.2	17.8	19.4	20.9
2850			13.4	14.1	14.8	15.4	16.1	17.5	18.8	20.0	21.2	22.4	24.6	26.7	28.5	30.0
3450	0.07	0.43	16.0	16.8	17.6	18.4	19.2	20.7	22.1	23.5	24.8	26.1	28.3	30.1	31.6	32.6
100 200	0.37 0.75	0.43	0.48 0.96	0.51 1.01	0.53 1.07	0.56 1.12	0.59 1.18	0.64 1.28	0.69 1.39	0.75 1.50	0.80 1.60	0.85 1.71	0.96 1.92	1.07 2.14	1.18 2.35	1.28 2.56
300		1.28		1.52	1.60	1.68	1.76	1.92	2.08	2.24	2.40	2.56	2.88	3.20	3.52	3.84
400	1.12 1.50	1.71	1.44 1.92	2.03	2.14	2.24	2.35	2.56	2.06	2.24	3.20	3.41	3.84	4.26	4.69	5.11
500	1.87	2.14	2.40	2.03	2.14	2.24	2.33	3.20	3.47	3.73	4.00	4.26	4.79	5.32	5.85	6.38
600	2.24	2.56	2.88	3.04	3.20	3.36	3.52	3.84	4.16	4.48	4.79	5.11	5.74	6.38	7.01	7.63
700	2.62	2.99	3.36	3.55	3.73	3.92	4.10	4.48	4.85	5.22	5.59	5.96	6.69	7.42	8.15	8.88
800	2.99	3.41	3.84	4.05	4.26	4.48	4.69	5.11	5.53	5.96	6.38	6.80	7.63	8.46	9.29	10.1
900	3.36	3.84	4.32	4.56	4.79	5.03	5.27	5.74	6.22	6.69	7.16	7.63	8.57	9.50	10.4	11.3
1000	3.73	4.26	4.79	5.06	5.32	5.59	5.85	6.38	6.90	7.42	7.95	8.46	9.50	10.5	11.5	12.5
1100	4.10	4.69	5.27	5.56	5.85	6.14	6.43	7.01	7.58	8.15	8.72	9.29	10.4	11.5	12.6	13.7
1200		5.11	5.74	6.06	6.38	6.69	7.01	7.63	8.26	8.88	9.50	10.1	11.3	12.5	13.7	14.9
1300		5.53	6.22	6.56	6.90	7.24	7.58	8.26	8.93	9.60	10.3	10.9	12.2	13.5	14.8	16.0
1400		5.96	6.69	7.06	7.42	7.79	8.15	8.88	9.60	10.3	11.0	11.7	13.1	14.5	15.9	17.2
1500		6.38	7.16	7.55	7.95	8.34	8.72	9.50	10.3	11.0	11.8	12.5	14.0	15.5	16.9	18.3
1600		6.80	7.63	8.05	8.46	8.88	9.29	10.1	10.9	11.7	12.5	13.3	14.9	16.4	17.9	19.4
1700		7.21	8.10	8.54	8.98	9.42	9.86	10.7	11.6	12.4	13.3	14.1	15.8	17.4	18.9	20.4
1800		7.63	8.57	9.03	9.50	9.96	10.4	11.3	12.2	13.1	14.0	14.9	16.6	18.3	19.9	21.4
1900		8.05	9.03	9.52	10.0	10.5	11.0	11.9	12.9	13.8	14.8	15.7	17.5	19.2	20.8	22.4
2000		8.46	9.50	10.0	10.5	11.0	11.5	12.5	13.5	14.5	15.5	16.4	18.3	20.1	21.8	23.4
2100			9.96	10.5	11.0	11.6	12.1	13.1	14.2	15.2	16.2	17.2	19.1	20.9	22.7	24.3
2200			10.4	11.0	11.5	12.1	12.6	13.7	14.8	15.9	16.9	17.9	19.9	21.8	23.5	25.2
2300			10.9	11.5	12.0	12.6	13.2	14.3	15.4	16.5	17.6	18.6	20.7	22.6	24.4	26.1
2400			11.3	11.9	12.5	13.1	13.7	14.9	16.0	17.2	18.3	19.4	21.4	23.4	25.2	26.9
2500 2600			11.8 12.2	12.4 12.9	13.0 13.5	13.7 14.2	14.3 14.8	15.5 16.0	16.7 17.3	17.8 18.5	19.0 19.6	20.1	22.2 22.9	24.2	26.0 26.7	27.6 28.4
2800			13.1	13.8	14.5	15.2	15.9	17.2	18.5	19.7	20.9	22.1	24.3	26.3	28.1	29.7
3000			14.0	14.8	15.5	16.2	16.9	18.3	19.6	20.9	22.2	23.4	25.6	27.6	29.4	30.8
3200			14.0	15.7	16.4	17.2	17.9	19.4	20.8	20.9	23.4	24.6	26.9	28.8	30.5	31.8
3400			15.8	16.6	17.4	18.1	18.9	20.4	21.8	23.2	24.5	25.8	28.0	29.9	31.4	32.5
3600			10.0	10.0	18.3	19.1	19.9	21.4	22.9	24.3	25.6	26.9	29.1	30.8	32.1	33.0
3800					19.2	20.0	20.8	22.4	23.9	25.3	26.7	27.9	30.0	31.6	32.7	33.2
4000					20.1	20.9	21.8	23.4	24.9	26.3	27.6	28.8	30.8	32.3	33.1	33.2
4200					20.9	21.8	22.7	24.3	25.8	27.3	28.5	29.7	31.5	32.8	33.2	32.9
4400					21.8	22.7	23.5	25.2	26.7	28.1	29.4	30.5	32.1	33.1	33.2	32.3
4600					22.6	23.5	24.4	26.1	27.6	28.9	30.1	31.2	32.6	33.2	32.9	31.4
4800					23.4	24.3	25.2	26.9	28.4	29.7	30.8	31.8	33.0	33.2	32.3	30.3
5000					24.2	25.1	26.0	27.6	29.1	30.4	31.4	32.3	33.2	33.0	31.5	28.8
5200					24.9	25.8	26.7	28.4	29.8	31.0	32.0	32.7	33.2	32.5	30.5	
5400					25.6	26.6	27.4	29.1	30.4	31.5	32.4	33.0	33.1	31.9	29.2	
5600					26.3	27.3	28.1	29.7	31.0	32.0	32.8	33.2	32.9	31.1		
5800					27.0	27.9	28.8	30.3	31.5	32.4	33.0	33.2	32.5	30.0		
6000					27.6	28.5	29.4	30.8	32.0	32.8	33.2	33.2	31.9	28.8		

Use this sprocket and rpm only if required to obtain speed ratio or to meet diameter limitations. See Engineering Section II-5, Sprocket Diameter—Speed, on page 138.

Sprocket surface speeds over 6,500 fpm; special pulleys are required. See Engineering Section II-5, Sprocket Diameter—Speed, on page 138.

Horsepower Rating for 2.00 Inch Wide H Section Belt (0.500 Inch Pitch)

RPM of						(Ni		Horsepowe rooves and			ies)					
Faster Shaft	14L 2.228	16L 2.546	18L 2.865	19L 3.024	20L 3.183	21L 3.342	22L 3.501	24L 3.820	26L 4.138	28L 4.456	30L 4.775	32L 5.093	36L 5.730	40L 6.366	44L 7.003	48L 7.639
725	3.79	4.33	4.87	5.14	5.41	5.68	5.95	6.49	7.03	7.56	8.10	8.63	9.70	10.8	11.8	12.9
870	4.55	5.20	5.84	6.17	6.49	6.81	7.13	7.78	8.42	9.06	9.70	10.3	11.6	12.9	14.1	15.4
950	4.97	5.67	6.38	6.73	7.08	7.43	7.78	8.48	9.18	9.88	10.6	11.3	12.6	14.0	15.4	16.7
1160	6.06	6.92	7.78	8.20	8.63	9.06	9.48	10.3	11.2	12.0	12.9	13.7	15.4	17.0	18.6	20.2
1425		8.48	9.53	10.1	10.6	11.1	11.6	12.6	13.7	14.7	15.7	16.7	18.7	20.7	22.6	24.4
1750		10.4	11.7	12.3	12.9	13.6	14.2	15.4	16.7	17.9	19.1	20.3	22.7	25.0	27.2	29.3
2850 3450			18.7 22.4	19.7 23.5	20.7 24.6	21.6 25.7	22.6 26.8	24.4 28.9	26.3 31.0	28.0 32.9	29.7 34.7	31.4 36.5	34.5 39.6	37.3 42.2	39.8 44.2	42.0 45.7
100	0.52	0.60	0.67	0.71	0.75	0.79	0.82	0.90	0.97	1.05	1.12	1.20	1.35	1.50	1.65	1.79
200	1.05	1.20	1.35	1.42	1.50	1.57	1.65	1.79	1.94	2.09	2.24	2.39	2.69	2.99	3.29	3.59
300	1.57	1.79	2.02	2.13	2.24	2.36	2.47	2.69	2.92	3.14	3.36	3.59	4.03	4.48	4.93	5.37
400	2.09	2.39	2.69	2.84	2.99	3.14	3.29	3.59	3.89	4.18	4.48	4.78	5.37	5.97	6.56	7.16
500	2.62	2.99	3.36	3.55	3.74	3.92	4.11	4.48	4.85	5.23	5.60	5.97	6.71	7.45	8.19	8.93
600	3.14	3.59	4.03	4.26	4.48	4.71	4.93	5.37	5.82	6.27	6.71	7.16	8.04	8.93	9.81	10.7
700	3.66	4.18	4.71	4.97	5.23	5.49	5.75	6.27	6.79	7.30	7.82	8.34	9.37	10.4	11.4	12.4
800	4.18	4.78	5.37	5.67	5.97	6.27	6.56	7.16	7.75	8.34	8.93	9.51	10.7	11.9	13.0	14.2
900	4.71	5.37	6.04	6.38	6.71	7.04	7.38	8.04	8.71	9.37	10.0	10.7	12.0	13.3	14.6	15.9
1000	5.23	5.97	6.71	7.08	7.45	7.82	8.19	8.93	9.66	10.4	11.1	11.9	13.3	14.7	16.2	17.6
1100	5.75	6.56	7.38	7.78	8.19	8.60	9.00	9.81	10.6	11.4	12.2	13.0	14.6	16.2	17.7	19.2
1200		7.16	8.04	8.48	8.93	9.37	9.81	10.7	11.6	12.4	13.3	14.2	15.9	17.6	19.2	20.9
1300		7.75	8.71	9.18	9.66	10.1	10.6	11.6	12.5	13.4	14.4	15.3	17.1	18.9	20.7	22.5
1400		8.34	9.37	9.88	10.4	10.9	11.4	12.4	13.4	14.4	15.4	16.4	18.4	20.3	22.2	24.0
1500		8.93	10.0	10.6	11.1	11.7	12.2	13.3	14.4	15.4	16.5	17.6	19.6	21.7	23.7	25.6
1600		9.51	10.7	11.3	11.9	12.4	13.0	14.2	15.3	16.4	17.6	18.7	20.9	23.0	25.1	27.1
1700		10.1	11.3	12.0	12.6	13.2	13.8	15.0	16.2	17.4	18.6	19.8	22.1	24.3	26.5	28.6
1800		10.7	12.0	12.6	13.3	13.9	14.6	15.9	17.1	18.4	19.6	20.9	23.3	25.6	27.8	30.0
1900		11.3	12.6	13.3	14.0	14.7	15.4	16.7	18.0	19.4	20.7	21.9	24.4	26.9	29.2	31.4
2000 2100		11.9	13.3 13.9	14.0 14.7	14.7 15.4	15.4	16.2 16.9	17.6 18.4	18.9 19.8	20.3 21.3	21.7 22.7	23.0 24.0	25.6	28.1 29.3	30.5 31.7	32.7
2200			14.6	15.4	16.2	16.2 16.9	17.7	19.2	20.7	22.2	23.7	25.1	26.7 27.8	30.5	33.0	34.0 35.3
			15.2	16.0			†	20.0		23.1	24.6	26.1	28.9	31.6	34.1	
2300 2400			15.2	16.7	16.9 17.6	17.7 18.4	18.5 19.2	20.0	21.6 22.5	24.0	25.6	27.1	30.0	32.7	35.3	36.5 37.6
2500			16.5	17.4	18.3	19.1	20.0	21.7	23.3	25.0	26.5	28.1	31.0	33.8	36.4	38.7
2600			17.1	18.0	18.9	19.8	20.7	22.5	24.2	25.8	27.5	29.1	32.1	34.9	37.4	39.7
2800			18.4	19.4	20.3	21.3	22.2	24.0	25.8	27.6	29.3	30.9	34.0	36.9	39.4	41.6
3000			19.6	20.7	21.7	22.7	23.7	25.6	27.5	29.3	31.0	32.7	35.9	38.7	41.1	43.2
3200			20.9	21.9	23.0	24.0	25.1	27.1	29.1	30.9	32.7	34.5	37.6	40.4	42.7	44.5
3400			22.1	23.2	24.3	25.4	26.5	28.6	30.6	32.5	34.3	36.1	39.2	41.9	44.0	45.5
3600					25.6	26.7	27.8	30.0	32.1	34.0	35.9	37.6	40.7	43.2	45.0	46.1
3800					26.9	28.0	29.2	31.4	33.5	35.5	37.3	39.0	42.0	44.3	45.8	46.5
4000					28.1	29.3	30.5	32.7	34.9	36.9	38.7	40.4	43.2	45.2	46.3	46.5
4200					29.3	30.5	31.7	34.0	36.2	38.2	40.0	41.6	44.2	45.9	46.5	46.1
4400					30.5	31.7	33.0	35.3	37.4	39.4	41.1	42.7	45.0	46.3	46.4	45.3
4600					31.6	32.9	34.1	36.5	38.6	40.5	42.2	43.6	45.7	46.5	46.0	44.0
4800					32.7	34.0	35.3	37.6	39.7	41.6	43.2	44.5	46.1	46.5	45.3	42.4
5000					33.8	35.1	36.4	38.7	40.8	42.5	44.0	45.2	46.4	46.2	44.1	40.3
5200					34.9	36.2	37.4	39.7	41.7	43.4	44.7	45.7	46.5	45.6	42.7	
5400					35.9	37.2	38.4	40.7	42.6	44.2	45.4	46.1	46.4	44.7	40.8	
5600 5800					36.9 37.8	38.2 39.1	39.4 40.3	41.6 42.4	43.4 44.1	44.8 45.4	45.9 46.2	46.4 46.5	46.1 45.5	43.5 42.0		
5000			-	-	38.7	40.0	41.1	43.2	44.1	45.4	46.4	46.5	45.5	40.3	_	-

Use this sprocket and rpm only if required to obtain speed ratio or to meet diameter limitations. See Engineering Section II-5, Sprocket Diameter—Speed, on page 138.

Sprocket surface speeds over 6,500 fpm; special pulleys are required. See Engineering Section II-5, Sprocket Diameter—Speed, on page 138.

orsepower Rating for 3.00 Inch Wide H Section Belt (0.500 Inch Pitch)

RPM of						(Nı		Horsepowe rooves and			ies)					
Faster Shaft	14L 2.228	16L 2.546	18L 2.865	19L 3.024	20L 3.183	21L 3.342	22L 3.501	24L 3.820	26L 4.138	28L 4.456	30L 4.775	32L 5.093	36L 5.730	40L 6.366	44L 7.003	48L 7.639
725	6.02	6.88	7.73	8.16	8.59	9.02	9.45	10.3	11.2	12.0	12.9	13.7	15.4	17.1	18.8	20.4
870	7.22	8.25	9.27	9.79	10.3	10.8	11.3	12.3	13.4	14.4	15.4	16.4	18.4	20.4	22.4	24.4
950	7.88	9.00	10.1	10.7	11.2	11.8	12.4	13.5	14.6	15.7	16.8	17.9	20.1	22.2	24.4	26.5
1160	9.62	11.0	12.3	13.0	13.7	14.4	15.1	16.4	17.7	19.1	20.4	21.7	24.4	27.0	29.5	32.1
1425		13.5	15.1	16.0	16.8	17.6	18.4	20.1	21.7	23.3	24.9	26.5	29.7	32.8	35.8	38.8
1750		16.5	18.5	19.5	20.5	21.5	22.5	24.5	26.5	28.4	30.3	32.2	36.0	39.6	43.1	46.5
2850			29.7	31.2	32.8	34.3	35.8	38.8	41.7	44.5	47.2	49.8	54.8	59.3	63.2	66.7
3450 100	0.83	0.95	35.5 1.07	37.3 1.13	39.1 1.19	40.8 1.25	42.6 1.31	45.9 1.42	49.1 1.54	52.2 1.66	55.1 1.78	57.9 1.90	62.8 2.14	67.0 2.37	70.2 2.61	72.5 2.85
200	1.66	1.90	2.14	2.26	2.37	2.49	2.61	2.85	3.09	3.32	3.56	3.80	4.27	4.75	5.22	5.69
300	2.49	2.85	3.20	3.38	3.56	3.74	3.92	4.27	4.63	4.98	5.34	5.69	6.40	7.11	7.82	8.53
400	3.32	3.80	4.27	4.51	4.75	4.98	5.22	5.69	6.17	6.64	7.11	7.59	8.53	9.48	10.4	11.4
500	4.15	4.75	5.34	5.63	5.93	6.23	6.52	7.11	7.70	8.30	8.89	9.48	10.7	11.8	13.0	14.2
600	4.98	5.69	6.40	6.76	7.11	7.47	7.82	8.53	9.24	9.95	10.7	11.4	12.8	14.2	15.6	17.0
700	5.81	6.64	7.47	7.88	8.30	8.71	9.12	9.95	10.8	11.6	12.4	13.2	14.9	16.5	18.1	19.7
800	6.64	7.59	8.53	9.00	9.48	9.95	10.4	11.4	12.3	13.2	14.2	15.1	17.0	18.8	20.6	22.5
900	7.47	8.53	9.59	10.1	10.7	11.2	11.7	12.8	13.8	14.9	15.9	17.0	19.0	21.1	23.2	25.2
1000	8.30	9.48	10.7	11.2	11.8	12.4	13.0	14.2	15.3	16.5	17.7	18.8	21.1	23.4	25.6	27.9
1100	9.12	10.4	11.7	12.4	13.0	13.6	14.3	15.6	16.8	18.1	19.4	20.6	23.2	25.6	28.1	30.5
1200		11.4	12.8	13.5	14.2	14.9	15.6	17.0	18.3	19.7	21.1	22.5	25.2	27.9	30.5	33.1
1300		12.3	13.8	14.6	15.3	16.1	16.8	18.3	19.8	21.3	22.8	24.3	27.2	30.1	32.9	35.7
1400		13.2	14.9	15.7	16.5	17.3	18.1	19.7	21.3	22.9	24.5	26.1	29.2	32.2	35.2	38.2
1500		14.2	15.9	16.8	17.7	18.5	19.4	21.1	22.8	24.5	26.2	27.9	31.2	34.4	37.5	40.6
1600		15.1	17.0	17.9	18.8	19.7	20.6	22.5	24.3	26.1	27.9	29.6	33.1	36.5	39.8	43.0
1700		16.0	18.0	19.0	20.0	20.9	21.9	23.8	25.7	27.6	29.5	31.4	35.0	38.6	42.0	45.4
1800		17.0	19.0	20.1	21.1	22.1	23.2	25.2	27.2	29.2	31.2	33.1	36.9	40.6	44.2	47.6
1900		17.9	20.1	21.2	22.2	23.3	24.4	26.5	28.6	30.7	32.8	34.8	38.8	42.6	46.3	49.8
2000		18.8	21.1	22.2	23.4	24.5	25.6	27.9	30.1	32.2	34.4	36.5	40.6	44.6	48.4	52.0
2100			22.1	23.3	24.5	25.7	26.9	29.2	31.5	33.8	36.0	38.2	42.4	46.5	50.4	54.0
2200			23.2	24.4	25.6	26.9	28.1	30.5	32.9	35.2	37.5	39.8	44.2	48.4	52.3	56.0
2300			24.2	25.5	26.8	28.0	29.3	31.8	34.3	36.7	39.1	41.4	45.9	50.2	54.2	57.9
2400			25.2	26.5	27.9	29.2	30.5	33.1	35.7	38.2	40.6	43.0	47.6	52.0	56.0	59.7
2500 2600			26.2 27.2	27.6 28.6	29.0 30.1	30.3 31.5	31.7 32.9	34.4 35.7	37.0 38.4	39.6 41.0	42.1 43.6	44.6 46.1	49.3 50.9	53.7 55.3	57.7 59.4	61.4 63.0
2800			29.2	30.7	32.2	33.8	35.2	38.2	41.0	43.8	46.5	49.1	54.0	58.5	62.5	66.0
3000			31.2	32.8	34.4	36.0	37.5	40.6	43.6	46.5	49.3	52.0	57.0	61.4	65.3	68.5
3200			33.1	34.8	36.5	38.2	39.8	43.0	46.1	49.1	52.0	54.7	59.7	64.1	67.7	70.6
3400			35.0	36.8	38.6	40.3	42.0	45.4	48.6	51.6	54.5	57.3	62.2	66.4	69.8	72.2
3600			00.0	00.0	40.6	42.4	44.2	47.6	50.9	54.0	57.0	59.7	64.6	68.5	71.4	73.3
3800					42.6	44.5	46.3	49.8	53.2	56.3	59.3	62.0	66.7	70.3	72.7	73.8
4000					44.6	46.5	48.4	52.0	55.3	58.5	61.4	64.1	68.5	71.7	73.5	73.7
4200					46.5	48.5	50.4	54.0	57.4	60.6	63.4	66.0	70.1	72.8	73.8	73.1
4400					48.4	50.4	52.3	56.0	59.4	62.5	65.3	67.7	71.4	73.5	73.7	71.8
4600					50.2	52.2	54.2	57.9	61.3	64.3	67.0	69.3	72.5	73.8	73.0	69.9
4800					52.0	54.0	56.0	59.7	63.0	66.0	68.5	70.6	73.3	73.7	71.8	67.3
5000					53.7	55.8	57.7	61.4	64.7	67.5	69.9	71.7	73.7	73.3	70.1	63.9
5200					55.3	57.4	59.4	63.0	66.2	68.9	71.0	72.6	73.8	72.3	67.7	
5400					57.0	59.0	61.0	64.6	67.6	70.1	72.0	73.3	73.6	70.9	64.8	
5600					58.5	60.6	62.5	66.0	68.9	71.2	72.8	73.7	73.1	69.1		
5800					60.0	62.0	63.9	67.3	70.0	72.1	73.3	73.8	72.2	66.7		
6000					61.4	63.4	65.3	68.5	71.0	72.8	73.7	73.7	70.9	63.9		

Use this sprocket and rpm only if required to obtain speed ratio or to meet diameter limitations. See Engineering Section II-5, Sprocket Diameter—Speed, on page 138.

Sprocket surface speeds over 6,500 fpm; special pulleys are required. See Engineering Section II-5, Sprocket Diameter—Speed, on page 138.

Long Length Belting

Introduction

Long Length synchronous belting is a cost effective, low maintenance drive alternative that is especially suited for linear movement and positioning applications. Long Length belting is available in a wide variety of belt pitches and constructions. Applications as diverse as automated door openers, product conveying systems, positioning devices, and office equipment are possible using the different pitches and constructions available.

Long Length Belting Designations

PolyChain GT, PowerGrip, and Synchro-Power long length belting is specified using the same width and pitch codes as standard endless belts, except that the part designation includes an LL prefix and omits the length code. An ST suffix may also be used to indicate a steel tensile cord construction. For example, 8mm pitch PowerGrip GT belting, 50mm wide, with steel tensile cords, would be designated LL8MR50ST.

Long Length Belting Product Listing

Standard Long Length belting is available in 8mm and 14mm pitch Poly Chain® GT®; 2mm, 3mm, 5mm, and 8mm PowerGrip® GT®; 3mm, 5mm, 8mm, and 14mm PowerGrip® HTD®; MXL, XL, L, and H PowerGrip Timing; and T5, T10, AT5, and AT10 Synchro-Power® Polyurethane. Available standard and standard/non-stock Long Length belting is listed below.

Poly Chain GT Long Length Belting

	8mm—14	mm Pitch	
Part No.	Product No.	Width (mm)	Net Wt./ft. (lb)
LL8M012GT	9305-0001	12	0.03
LL8M021GT	9305-0002	21	0.06
LL8M036GT	9305-0003	36	0.11
LL14M020GT	9305-0005	20	0.10
LL14M037GT	9305-0006	37	0.19

PowerGrip GT—Long Length Belting

PowerGrip GT—Fiberglass Tensile

2mm	—3mm—5mm-	-8mm Pitc	h
Part No.	Product No.	Width (mm)	Net Wt./ft. (lb)
LL2MR04	9396-0033	4	0.01
LL2MR06	9396-0009	6	0.01
LL2MR09	9396-0011	9	0.01
LL3MR06	9396-0002	6	0.01
LL3MR09	9396-0012	9	0.01
LL3MR15	9396-0021	15	0.01
LL5MR09	9396-0020	9	0.01
LL5MR15	9396-0025	15	0.01
LL5MR25	9396-0018	25	0.05
LL8MR20	9396-0029	20	0.08
LL8MR30	9396-0030	30	0.13
LL8MR50	9396-0031	50	0.21
LL8MR85	9396-0032	85	0.36

PowerGrip GT—Steel Tensile

5mm—8mm Pitch				
Part No.	Product No.	Width (mm)	Net Wt./ft. (lb)	
LL5MR15ST	9308-10043	15	0.18	
LL5MR25ST	9308-40417	25	0.23	
LL8MR20ST	9308-10049	20	0.29	
LL8MR30ST	9308-10050	30	0.37	
LL8MR50ST	9308-40433	50	0.53	

PowerGrip HTD—Long Length Belting

PowerGrip HTD Belting—Fiberglass Tensile

3mm—5mm—8mm—14mm Pitch			
Part No.	Product No.	Width (mm)	Net Wt./ft. (lb)
LL3M06	9308-0044	6	0.01
LL3M09	9308-0003	9	0.01
LL3M15	9308-0084	15	0.01
LL5M09	9308-0045	9	0.01
LL5M15	9308-0033	15	0.01
LL5M25	9308-0025	25	0.05
LL8M20	9308-0001	20	0.08
LL8M30	9308-0004	30	0.13
LL8M50	9308-0005	50	0.21
LL8M85	9308-0006	85	0.36
LL14M40	9308-10009	40	0.26
LL14M55	9308-10020	55	0.35
LL14M85	9308-10057	85	0.55

PowerGrip HTD Belting—Steel Tensile

14mm Pitch				
Part No.	Product No.	Width (mm)	Net Wt./ft. (lb)	
LL14M40ST	9308-10016	40	0.76	
LL14M55ST	9308-10051	55	1.02	
LL14M85ST	9308-10084	85	1.51	

PowerGrip Timing—Long Length Belting

Mini-Pitch (0.080"/MXL)—Fiberglass Tensile			
Part Product Width No. No. (in)		Net Wt./ft. (lb)	
LL025MXL	9314-2020	1/4	0.01
LL037MXL	9314-2014	3/8	0.02
LL050MXL	9314-2038	1/2	0.02

1/5" Pitch (0.200"/XL)—Fiberglass Tensile				
Part No.	Product No.	Width (in)	Net Wt./ft. (lb)	
LL025XL	9314-0001	1/4	0.01	
LL037XL	9314-0002	3/8	0.01	
LL050XL	9314-2012	1/2	0.03	
LL075XL	9314-2090	3/4	0.04	

1/5" Pitch (0.200"/XL)—Steel Tensile				
Part No.			Net Wt./ft. (lb)	
LL025XLST	9314-10028	1/4	0.06	
LL037XLST	9314-10029	3/8	0.07	
LL050XLST	9314-10030	1/2	0.08	

3/8" Pitch (0.375"/L)—Fiberglass Tensile				
Part No.	Product No.	Width (in)	Net Wt./ft. (lb)	
LL037L	9314-2089	3/8	0.02	
LL050L	9314-0004	1/2	0.02	
LL075L	9314-0007	3/4	0.04	
LL100L	9314-0015	1	0.05	

3/8" Pitch (0.375"/L)—Steel Tensile			
Part No.	Product No.	Width (in)	Net Wt./ft. (lb)
LL050LST	9314-10035	1/2	0.16
LL075LST	9314-10036	3/4	0.19

1/2" Pitch (0.500"/H)—Fiberglass Tensile				
Part No.	Product No.	Width (in)	Net Wt./ft. (lb)	
LL050H	9314-0003	1/2	0.04	
LL075H	9314-0006	3/4	0.06	
LL100H	9314-0008	1	0.12	
LL150H	9314-0017	1½	0.12	
LL200H	9314-0021	2	0.16	
LL300H	9314-0025	3	0.24	

1/2" Pitch (0.500"/H)—Steel Tensile			
		Net Wt./ft. (lb)	
LL075HST	9314-10011	3/4	0.22
LL100HST	9314-10037	1	0.25

Synchro-Power PolyUrethane Long Length Belting

T5 Pitch				
Part No.	Width (mm)	Net Wt./ft. (lb)		
U6T5LL	6*	.01		
U8T5LL	8	.01		
U10T5LL	10*	.02		
U12T5LL	12	.02		
U16T5LL	16*	.03		
U20T5LL	20	.03		
U25T5LL	25*	.04		
U32T5LL	32*	.05		
U50T5LL	50*	.08		

AT5 Pitch				
Part No.	Width (mm)	Net Wt./ft. (lb)		
U6AT5LL	6*	.01		
U10AT5LL	10*	.02		
U16AT5LL	16*	.03		
U20AT5LL	20*	.04		
U25AT5LL	25*	.05		
U32AT5LL	32*	.06		
U50AT5LL	50*	.10		

T10 Pitch			
Part No.	Width (mm)	Net Wt./ft. (lb)	
U12T10LL	12	.04	
U16T10LL	16*	.05	
U20T10LL	20	.07	
U25T10LL	25*	.08	
U32T10LL	32*	.11	
U40T10LL	40	.13	
U50T10LL	50*	.16	
U75T10LL	75*	.25	
U100T10LL	100*	.33	

AT10 Pitch			
Part No.	Width (mm)	Net Wt./ft. (lb)	
U16AT10LL	16*	.06	
U20AT10LL	20	.08	
U25AT10LL	25*	.10	
U32AT10LL	32*	.13	
U40AT10LL	40	.16	
U50AT10LL	50*	.20	
U75AT10LL	75	.30	
U100AT10LL	100	.40	

T20 Pitch			
Part No.	Net Wt./ft. (lb)		
U25T10LL	25*	.13	
U32T20LL	32*	.17	
U50T20LL	50*	.27	
U75T20LL	75*	.40	
U100T20LL	100*	.54	

AT20 Pitch			
Part No.	Net Wt./ft. (lb)		
U25AT20LL	25	.17	
U32AT20LL	32	.22	
U50AT20LL	50	.34	
U75AT20LL	75	.50	
U100AT20LL	100	.67	
U120AT20LL	120*	.81	
U150AT20LL	150*	1.01	

^{*}Stock size. All others are Standard/Non-Stock product.

Synchro-Power PolyUrethane Long Length Belting — continued

1/5" Pitch (0.200"/XL)		
Part No.	Net Wt./ft. (lb)	
U.25INXL LL	.250	.01
U.31INXL LL	.310	.01
U.375INXL LL	.375	.01
U.50INXL LL	.500	.02
U.75INXL LL	.750	.03
U1.00INXL LL	1.000	.03
U2.00INXL LL	2.000	.07

5mm Pitch HTD			
Part Width Net Wt./ft. No. (mm) (lb)			
U10MTD5MLL	10	.03	
U15MTD5MLL	15	.04	
U25MTD5MLL	25	.07	
U50MTD5MLL	50	.13	

3/8" Pitch (0.375"/L)			
Part No.	Net Wt./ft. (lb)		
U.375INL LL	.375*	.02	
U.50INL LL	.500*	.02	
U.75INL LL	.750*	.03	
U1.00INL LL	1.000*	.04	
U1.50INL LL	1.500	.06	
U2.00INL LL	2.000	.08	

8mm Pitch HTD			
Part Width Net Wt./ft. No. (mm) (lb)			
U10MTD8MLL	10	.04	
U15MTD8MLL	15	.06	
U20MTD8MLL	20	.08	
U30MTD8MLL	30	.13	
U50MTD8MLL	50	.21	
U85MTD8MLL	85	.36	
U100MTD8MLL	100	.42	

1/2" Pitch (0.500"/H)			
Part No.	Width (mm)	Net Wt./ft. (lb)	
U.50INH LL	.500*	.02	
U.75INH LL	.750*	.04	
U1.00INH LL	1.000*	.05	
U1.50INH LL	1.500*	.07	
U2.00INH LL	2.000*	.09	
U3.00INH LL	3.000	.14	
U4.00INH LL	4.000	.19	

14mm Pitch HTD			
Part No.	Net Wt./ft. (lb)		
U25MTD14MLL	25	.19	
U40MTD14MLL	40	.30	
U55MTD14MLL	55	.41	
U85MTD14MLL	85	.64	
U100MTD14MLL	100	.75	

7/8"Pitch (0.875"/XH)			
Part Width Net Wt./f No. (mm) (lb)			
U1.00INXHLL	1.000	.22	
U1.50INXHLL	1.500	.32	
U2.00INXHLL	2.000	.43	
U3.00INXHLL	3.000	.65	
U4.00INXHLL	4.000	.86	

^{*}Stock size. All others are Standard/Non-Stock product.

Long Length Belting Specifications

The available standard pitches, with belt dimensions, constructions, and allowable working tensions (Ta), are shown below.

Poly Chain GT Belting

8mm Pitch—Aramid Tensile Cord				
Belt Width (mm) 12 21 36				
T _a (lb) 304 534 913				

Poly Chain GT Belting

14mm Pitch - Aramid Tensile Cord					
Belt Width (mm) 20 37					
T _a (lb) 835 1545					

PowerGrip GT Belting

2MR Pitch - Fiberglass Tensile Cord					
Belt Width (mm) 4 6 9					
Ta (lb) 4.0 6.0 9.0					

PowerGrip GT Belting

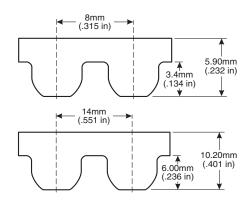
3MR Pitch - Fiberglass Tensile Cord					
Belt Width (mm) 6 9 15					
T _a (lb) 32.8 54.4 97.4					

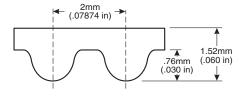
PowerGrip GT Belting

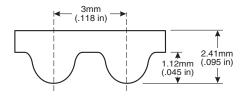
5MR Pitch - Fiberglass Tensile Cord						
Belt Width (mm) 9 15 25						
T _a (lb)	77.9	136.8	253.7			
5MR Pitch - Steel Tensile Cord						
Belt Width (mm)	15 25					
T _a (lb)	184.9		342.8			

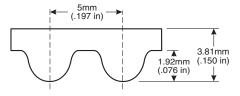
PowerGrip GT Belting

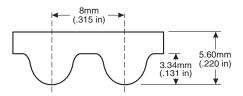
8MR Pitch - Fiberglass Tensile Cord					
Belt Width (mm) 20 30 50					
T _a (lb) 190 216 552					
8MR Pitch - Steel Tensile Cord					
Belt Width (mm)	20	30	50		
T _a (lb)	369	579	1073		





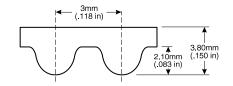






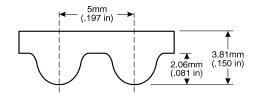
PowerGrip HTD Belting

3M Pitch - Fiberglass Tensile Cord						
Belt Width (mm) 6 9 15						
T _a (lb) 20.7 34.4 61.4						



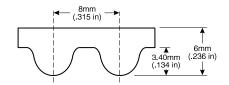
PowerGrip HTD Belting

5M Pitch - Fiberglass Tensile Cord					
Belt Width (mm) 9 15 25					
T _a (lb) 55.6 97.6 181					



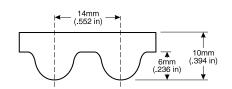
PowerGrip HTD Belting

8M Pitch - Fiberglass Tensile Cord					
Belt Width (mm) 20 30 50					
T _a (lb) 190 216 552					



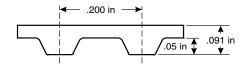
PowerGrip HTD Belting

· · · · · · · · · · · · · · · · · · ·				
14M Pitch - Fiberglass Tensile Cord				
Belt Width (mm)	40	55	85	
T _a (lb)	909 1363 2263			
14M Pitch - Steel Tensile Cord				
Belt Width (mm)	40	55	85	
T _a (lb)	1227	1840	3055	



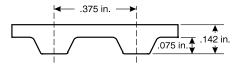
PowerGrip Timing Belting

XL Pitch - Fiberglass Tensile Cord						
Belt Width (in) 0.250 0.375 0.500						
T _a (lb) 6.3 9.8 14.4						
XL Pitch - Steel Tensile Cord						
Belt Width (in)	0.250	0.375	0.500			
T _a (lb) 7.8 12.2 17.8						



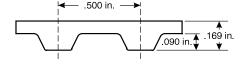
PowerGrip Timing Belting

L Pitch - Fiberglass Tensile Cord				
Belt Width (in) 0.375 0.500 0.750				
T _a (lb)	15.7	24.7	35.9	
L Pitch - Steel Tensile Cord				
Belt Width (in)	0.375	0.500	0.750	
Ta (lb)	15.7	24.7	35.9	



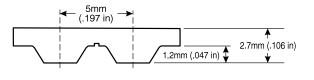
PowerGrip Timing Belting

H Pitch - Fiberglass Tensile Cord						
Belt Width (in) 0.500 0.750 1.000						
T _a (lb)	69.7 109.5 159.6					
H Pitch - Steel Tensile Cord						
Belt Width (in)	0.750 1.000					
T _a (lb)	109.5			159.6		



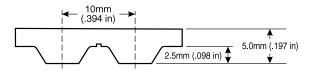
Synchro-Power Polyurethane Belting

AT5 Pitch - Steel Tensile Cord				
Belt Width (mm)	6	10	16	
T _a (lb)	130	137	236	
Belt Width (mm)	25	32	50	
T _a (lb)	389	499	792	



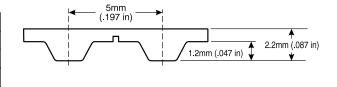
Synchro-Power Polyurethane Belting

AT10 Pitch - Steel Tensile Cord				
Belt Width (mm)	16	25	32	
Ta (lb)	517	819	1059	
Belt Width (mm)	50	75*	100*	
T _a (lb)	1696	2571	3397	



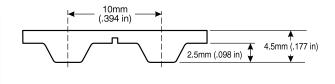
Synchro-Power Polyurethane Belting

-	_			_
T5 Pitch - Steel Tensile Cord				
Belt Width (mm)	6	1	0	16
Ta (lb)	36	6	3	105
Belt Width (mm)	25			32
T _a (lb)	175			225



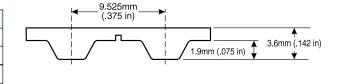
Synchro-Power Polyurethane Belting

T10 Pitch - Steel Tensile Cord			
Belt Width (mm)	16	25	32
Ta (lb)	258	418	558
Belt Width (mm)	50	75	100
T _a (lb)	859	1318	1759



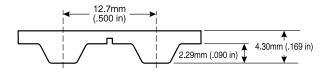
Synchro-Power Polyurethane Belting

L Pitch - Steel Tensile Cord				
Belt Width (in)	0.375	0.5	00	0.750
Ta (lb)	135	18	30	292
Belt Width (in)	1.000			1.500*
T _a (lb)	389			598



Synchro-Power Polyurethane Belting

H Pitch - Steel Tensile Cord				
Belt Width (in)	0.500	0.7	'50	1.000
T _a (lb)	198	3	19	441
Belt Width (in)	1.500			2.000
Ta (lb)	659			900



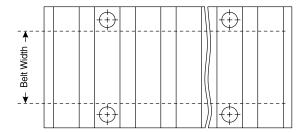
^{*}Standard/Non-Stock belt width

Drive Selection

Due to the unique nature of long length applications, special drive design procedures must be followed. Rather than designing a drive based on a single load at a continuous speed, long length application designs typically consider acceleration/deceleration loads generated by the mass being moved and placed, as well as the orientation of the drive (vertical or horizontal). Maximum dynamic drive tensions are then compared to allowable working tensions (Ta) for proper belt width selection. Considering the drive design procedures unique to Long Length belting applications, it is suggested that designers contact Gates Power Transmission Product Application for a drive system analysis.

Belt Clamping Fixtures

Long length applications typically require that the ends of the belt be mechanically fastened to the component being positioned. A common means of attachment is to use a belt clamping fixture, which clamps the ends of the belt between a grooved plate and a flat top plate. Belt clamping fixtures can have a variety of configurations, depending on belt pitch, belt tooth profile, and system attachment requirements. Contact Gates Power Transmission Product Application for groove dimensions that are suitable for use with clamping fixtures. A minimum of 6 belt teeth should be engaged in the belt clamping fixture to achieve optimum performance. As shown below, mechanical fasteners should be placed beyond the belt's top width in order to maintain belt integrity.



PowerGrip Twin Power Belts

Gates PowerGrip Twin Power Belts have teeth on both sides to provide synchronization from both driving surfaces. This configuration accommodates unique drive designs such as multipoint drives, shaft rotation reversal, and serpentine drives. Twin Power Belts are similar in construction to regular synchronous belts, including nylon-faced teeth on both sides.

Specifying Twin Power Belts

PowerGrip Twin Power Belts are specified using the same code as standard PowerGrip belts, except that they include a TP prefix. Thus, a Twin Power PowerGrip GT2 belt with 8mm pitch, 1600mm pitch length and 30mm width is specified as TP1600-8MGT-30. Similarly, a Twin Power PowerGrip Timing belt with an L pitch, 24" pitch length, and 1" width is specified as TP240L100. A listing of available sizes, both Stock and Standard/Non-Stock, is shown below. Standard/non-stock belts may require manufacturing lead time. Contact your local Gates representative for availability.

PowerGrip GT Twin Power belts are available in 3mm and 5mm pitches as non-stock, made to order items. Contact your Gates representative for availability.

Twin Power Drive Selection

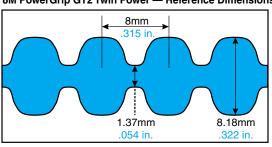
Gates Twin Power Belts can transmit 100% of their maximum rated load capacity from either side of the belt or in combination where the sum of the loads carried by both sides of the belt does not exceed the maximum rating of the belt. For example, a Twin Power Belt rated at 12 HP could be used with 50% of the maximum rated load on one side and 50% on the other; or 90% on one side and 10% on the other.

8mm Pitch PowerGrip GT2 TwinPower Stock Belt Lengths

	Pitch Length		
Part No.	(mm)	(in)	No. of Teeth
TP840-8MGT	840	33.08	105
TP880-8MGT	880	34.65	110
TP920-8MGT	920	36.23	115
TP960-8MGT	960	37.80	120
TP1040-8MGT	1040	40.95	130
TP1120-8MGT	1120	44.10	140
TP1200-8MGT	1200	47.25	150
TP1224-8MGT	1224	48.20	153
TP1280-8MGT	1280	50.40	160
TP1440-8MGT	1440	56.70	180
TP1600-8MGT	1600	63.00	200

	Pitch I		
Part No.	(mm)	(in)	No. of Teeth
TP1760-8MGT	1760	69.30	220
TP1800-8MGT	1800	70.88	225
TP2000-8MGT	2000	78.75	250
TP2200-8MGT	2200	86.63	275
TP2400-8MGT	2400	94.50	300
TP2600-8MGT	2600	102.38	325
TP2800-8MGT	2800	110.25	350
TP3048-8MGT	3048	120.02	381
TP3280-8MGT	3280	129.15	410
TP3600-8MGT	3600	141.75	450
TP4400-8MGT	4400	173.25	550

8M PowerGrip GT2 Twin Power — Reference Dimensions



8M GT2 TwinPower Stock Belt Widths

Belt Width	Belt \	Width
Code	(mm)	(in)
20	20	0.787
30	30	1.181
50	50	1.969
85	85	3.346

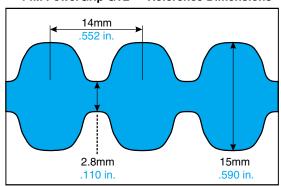
PowerGrip Twin Power Belts — continued

14mm Pitch PowerGrip GT2 TwinPower Stock Belt Lengths

	Pitch Length		
Part No.	(mm)	(in)	No. of Teeth
TP966-14MGT	966	38.03	69
TP1190-14MGT	1190	46.85	85
TP1400-14MGT	1400	55.12	100
TP1610-14MGT	1610	63.38	115
TP1778-14MGT	1778	70.00	127
TP1890-14MGT	1890	74.41	135
TP2100-14MGT	2100	82.67	150
TP2310-14MGT	2310	90.94	165
TP2450-14MGT	2450	96.45	175

	Pitch Length		
Part No.	(mm)	(in)	No. of Teeth
TP2590-14MGT	2590	101.96	185
TP2800-14MGT	2800	110.23	200
TP3150-14MGT	3150	124.01	225
TP3360-14MGT	3360	132.28	240
TP3500-14MGT	3500	137.79	250
TP3850-14MGT	3850	151.57	275
TP4326-14MGT	4326	170.31	309
TP4578-14MGT	4578	180.23	327

14M PowerGrip GT2 — Reference Dimensions



14MGT2 TwinPower Stock Belt Widths

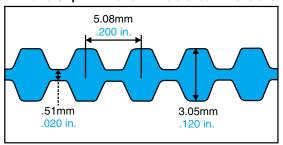
Belt Width	Belt \	Width
Code	(mm)	(in)
40	40	1.575
55	55	2.165
85	85	3.346
115	115	4.528
170	170	6.693

1/5" (0.200") Pitch XL PowerGrip TwinPower Timing Stock Belt Lengths

Part No.	Pitch Length (in)	No. of Teeth
TP140XL	14.00	70
TP150XL	15.00	75
TP160XL	16.00	80
TP170XL	17.00	85
TP180XL	18.00	90
TP190XL	19.00	95
TP200XL	20.00	100
TP210XL	21.00	105
TP220XL	22.00	110
TP230XL	23.00	115

Part No.	Pitch Length (in)	No. of Teeth
TP240XL	24.00	120
TP250XL	25.00	125
TP260XL	26.00	130
TP270XL	27.00	135
TP280XL	28.00	140
TP290XL	29.00	145
TP300XL	30.00	150
TP310XL	31.00	155
TP330XL	33.00	165
TP340XI	34 00	170

XL PowerGrip Twin Power — Reference Dimensions



XL TwinPower Stock Belt Widths

Belt Width	Belt Width
Code	(in)
025	0.250
037	0.375

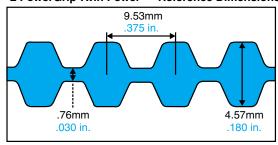
PowerGrip Twin Power Belts — continued

3/8" Pitch (0.375") Pitch L PowerGrip TwinPower Timing Stock Belt Lengths

	, ,	•
Part No.	Pitch Length (in)	No. of Teeth
TP150L	15.00	40
TP165L	16.50	44
TP187L	18.75	50
TP195L	19.50	52
TP210L	21.00	56
TP225L	22.50	60
TP240L	24.00	64
TP255L	25.50	68
TP270L	27.00	72
TP285L	28.50	76
TP300L	30.00	80
TP322L	32.25	86

Part No.	Pitch Length (in)	No. of Teeth
TP345L	34.50	92
TP367L	36.75	98
TP390L	39.00	104
TP420L	42.00	112
TP450L	45.00	120
TP480L	48.00	128
TP510L	51.00	136
TP540L	54.00	144
TP600L	60.00	160
TP660L	66.00	176
TP817L	81.75	218

L PowerGrip Twin Power — Reference Dimensions



L TwinPower Stock Belt Widths

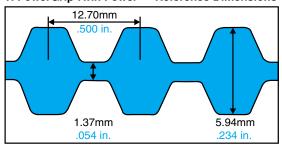
Belt Width Code	Belt Width (in)
050	0.500
075	0.750
100	1.000

1/2" (0.500") Pitch H PowerGrip TwinPower Timing Stock Belt Lengths

Part No.	Pitch Length (in)	No. of Teeth
TP240H	24.00	48
TP270H	27.00	54
TP300H	30.00	60
TP330H	33.00	66
TP350H	35.00	70
TP360H	36.00	72
TP390H	39.00	78
TP400H	40.00	80
TP420H	42.00	84
TP450H	45.00	90
TP480H	48.00	96
TP510H	51.00	102
TP540H	54.00	108
TP570H	57.00	114

Part No.	Pitch Length (in)	No. of Teeth
TP600H	60.00	120
TP630H	63.00	126
TP660H	66.00	132
TP700H	70.00	140
TP750H	75.00	150
TP800H	80.00	160
TP850H	85.00	170
TP900H	90.00	180
TP1000H	100.00	200
TP1100H	110.00	220
TP1250H	125.00	250
TP1400H	140.00	280
TP1700H	170.00	340

H PowerGrip Twin Power — Reference Dimensions



H TwinPower Stock Belt Widths

Belt Width Code	Belt Width (in)
075	0.750
100	1.000
150	1.500
200	2.000
300	3.000

PowerGrip® Twin Power® Belt Drive Selection Procedure

To select a Gates PowerGrip Twin Power Belt drive, you need to know only five facts:

- 1. DriveN horsepower requirements.
- 2. RPM of the driveR shaft.
- 3. RPM of the driveN shafts.
- 4. Approximate geometry for the drive.
- 5. Hours per day operation.

Step 1 Determine Design Horsepower

Design Horsepower = (Service Factor) x (Horsepower Requirement)

- A. To calculate the design horsepower, it is necessary to determine the service factor for each type of driveN unit. Using the Service Factor Chart on Page 15, determine the type of driveR machine.
- B. Using this chart, determine the service factor for each driveN machine, based on the type of driveN machine and the type of service. Add any additional service factors required. Drives with multiple function driveN machines must have an appropriate service factor applied to each type of driveN machine.
- C. Multiply the horsepower requirement of the drive by the service factor selected. This yields the design horsepower for the drive.
- D. Add up the drIveN loads. On multiple function driveN machines, add up the design horsepower for each driveN unit to determine the total horsepower for the drive.

Step 2 Select Belt Pitch

Locate the design horsepower along the bottom of the Belt Pitch Selection Guide on Page 11. Read up from the RPM of the smaller sprocket (faster shaft). The belt pitch indicated in the area surrounding the point of intersection is the one that should be used. If the point of intersection falls outside any specific area, contact your local Gates field representative. If the point is near one of the lines, a good drive can be designed with the belt pitch on either side of the line. Design drives using both belt pitches and select the most economical drive consistent with the other requirements.

Step 3 Select Sprockets and Determine Belt Length

A typical Twin Power Belt application will have three or more sprockets; although in some drives, one of the driveN sprockets may be unloaded and act only as an idler. It may be possible to use the Drive Selection Table as an aid to determine the required sprockets.

- A. For drives with standard motor speeds, refer to the appropriate motor speed column. Read down the column and locate the driveN machine speed nearest the requirements for each driveN sprocket using a common size motor sprocket.
- B. For all other speeds:
 - Find the speed ratio by dividing the RPM of the faster shaft by the RPM of the slower shaft for each driveN sprocket in the drive.

- Read down the speed ratio column and locate the speed ratio nearest the requirements. Select a driveN sprocket using a common size driveN sprocket which yields the speeds nearest the requirements.
- C. Required belt lengths are most easily determined by measuring directly from a drawing of the drive layout. For computer aided assistance in determining the correct belt length, contact Gates Product Application Engineering.

Step 4 Calculate Horsepower Rating

- A. For 8mm and 14mm pitch PowerGrip GT2 Twin Power Belts:
 - 1. Determine Base HP Rating: Refer to the Belt Width Selection tables on page 46 for 20mm wide, 8mm pitch belts, and page 49 for 40mm wide, 14mm pitch belts. The tables present Horsepower Rating values for the narrowest, single sided belt width for each belt pitch. Read down the first column to the speed of the faster shaft, then across to the column headed by the smallest sprocket in the drive. The horsepower rating value shown is the Base Horsepower Rating.
 - 2. Calculate Modified Twin Power HP Rating:
 - a. For 20mm wide, 8mm pitch PowerGrip GT2 Twin Power belts, the Modified Twin Power Base Horsepower Rating is calculated by performing the calculation shown below.

20mm wide, 8mm pitch Twin Power:

Modified Twin Power Horsepower Rating = (Table HP Rating) - (d)(RPM)(TPf)

b. For 40mm wide, 14mm pitch PowerGrip GT2 Twin Power belts, the Modified Twin Power Base Horsepower Rating is calculated by performing the simple calculation shown below.

40mm wide, 14mm pitch Twin Power:

Modified Twin Power Horsepower Rating = (Table HP Rating) - (d)(RPM)(TPf)

where d = pitch diameter of small sprocket, in.

 $RPM = \dot{R}PM$ of small sprocket

TPf = Twin Power factor, based on belt pitch and width, selected from table below

Pitch	Belt Width (mm)	TPf
8M PowerGrip GT2 Twin Power	20	.000799
14M PowerGrip GT2 Twin Power	40	.00228

 Calculate Final PowerGrip GT2 Twin Power HP Rating: To calculate the Final PowerGrip GT2 Twin Power Horsepower Rating for wider belt widths, multiply the Modified Twin Power Horsepower Rating by the appropriate Width Correction Factor shown below.

Pitch	Belt Width (mm)	Width Correction Factor
	20	1.00
OM DowerCrip CTO Twip Dower	30	1.57
8M PowerGrip GT2 Twin Power	50	2.73
	85	4.75
	40	1.00
14M PowerGrip GT2 Twin Power	55	1.50
	85	2.50
	115	3.50
	170	5.32

PowerGrip® Twin Power® Belt Drive Selection Procedure

B. PowerGrip Timing Twin Power Belts: Belt Width Selection tables on pages 75 through 84 show the Horsepower Ratings for each stock belt width. Each table represents one belt width for a specific pitch belt. Read down the first column to the speed of the faster shaft, then across to the column headed by the small sprocket rotating at this speed. This value is the Horsepower Rating.

Step 5 Select Belt Width

- A. Locate the critical sprocket in the drive. This sprocket may be either the smaller diameter sprocket or a larger diameter sprocket with less than six teeth in mesh, depending on the loads transmitted by each sprocket
 - Determine the number of teeth in mesh using the formula below:

- Select the appropriate teeth in mesh factor (Ktm) from Page 135.
- Correct the horsepower rating by multiplying the teeth in mesh factor (Ktm) by the horsepower rating from Step 4.

4. Repeat this procedure for each sprocket to locate the critical sprocket in the drive. Select the proper belt width on the basis of the critical sprocket parameters.

Step 6 Installation and Takeup

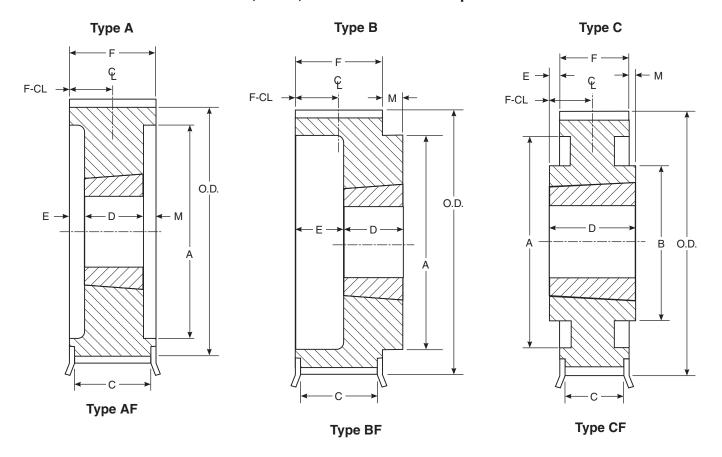
Because of its high resistance to elongation, there is no need to retension PowerGrip Twin Power Belt drives. However, some adjustments must be provided when installing timing belt drives, as with nearly all power transmission methods, because of manufacturing tolerances, wear of pressure surfaces and tensioning requirements. Center distance adjustment values are shown in the Center Distance Allowance Table on Page 141.

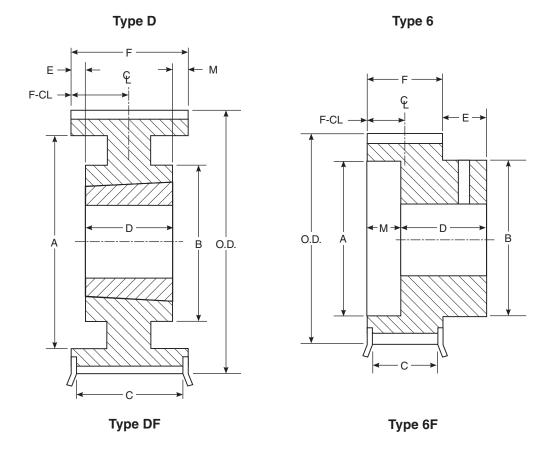
Step 7 Check and Specify Stock Drive Components

- A. Check the sprockets selected against the design requirements using the dimensions given in the Sprocket Specifications Tables on Pages 100 through 111.
- B. Using the Sprocket Specifications Tables, determine the bushing size to use with each sprocket. Check the bore range against the design requirements.
- Specify all stock components using proper designation for the belt, sprockets and bushings.

Gates PowerGrip® GT®2 Sprocket Specifications

For 5mm, 8mm, and 14mm PowerGrip GT2 Belts





Page 10

5mm Pitch PowerGrip GT2 Sprocket Specifications

		Di	iameters (i	n)						Di	mensions ((in)							
	Number														Bore	Sizes			
Sprocket Number	of Teeth	Pitch	0.D	Flange Ref.	Design Type	A	В	C	D	E	F	М	F-CL	Bushing Size	Min.	Max.	Approx. Wt.(lb)	Approx. WR2	Matl. Spec.
P18-5MGT-15 PB	18	1.128	1.083	1.385	6F-1	_	0.68	0.69	1.25	0.36	0.89	0	0.45	MPB	0.250	0.375	0.3	0.0003	S
P19-5MGT-15 PB	19	1.191	1.146	1.420	6F-1	_	0.88	0.69	1.25	0.36	0.89	0	0.45	MPB	0.250	0.437	0.3	0.0003	S
P20-5MGT-15 PB	20	1.253	1.208	1.510	6F-1	_	0.90	0.69	1.25	0.36	0.89	0	0.45	MPB	0.250	0.500	0.3	0.0004	S
P21-5MGT-15 PB	21	1.316	1.271	1.530	6F-1	_	1.09	0.69	1.25	0.36	0.89	0	0.45	MPB	0.250	0.690	0.4	0.0005	S
P22-5MGT-15 PB	22	1.379	1.334	1.530	6F-1	_	1.09	0.69	1.28	0.39	0.89	0	0.45	MPB	0.250	0.655	0.4	0.0006	S
P23-5MGT-15 PB	23	1.441	1.396	1.660	6F-1	_	1.15	0.69	1.28	0.39	0.89	0	0.45	MPB	0.375	0.625	0.5	0.0008	S
P24-5MGT-15 PB	24	1.504	1.459	1.780	6F-1	_	1.18	0.69	1.28	0.39	0.89	0	0.45	MPB	0.375	0.625	0.5	0.0009	S
P25-5MGT-15 PB	25	1.566	1.521	1.780	6F-1	_	1.18	0.69	1.28	0.39	0.89	0	0.45	MPB	0.375	0.625	0.6	0.001	S
P26-5MGT-15 PB	26	1.629	1.584	1.900	6F-1	_	1.21	0.69	1.28	0.39	0.89	0	0.45	MPB	0.375	0.687	0.6	0.001	S
P28-5MGT-15 PB	28	1.754	1.709	2.020	6F-1	_	1.37	0.69	1.34	0.45	0.89	0	0.45	MPB	0.500	0.750	0.7	0.001	S
P30-5MGT-15 PB	30	1.880	1.835	2.130	6F-1	_	1.53	0.69	1.34	0.45	0.89	0	0.45	MPB	0.500	0.937	0.8	0.002	S
P32-5MGT-15 PB	32	2.005	1.960	2.130	6F-1	_	1.55	0.69	1.34	0.45	0.89	0	0.45	MPB	0.500	0.937	0.9	0.002	S
P34-5MGT-15 PB	34	2.130	2.085	2.375	6F-1	_	1.69	0.69	1.34	0.45	0.89	0	0.45	MPB	0.500	1.000	1.1	0.003	S
P36-5MGT-15	36	2.256	2.211	2.380	AF-1	_	_	0.69	0.88	0	0.88	0	0.45	1108	0.500	1.125	0.5	0.002	SS
P36-5MGT-15 PB	36	2.256	2.211	2.380	6F-1	_	1.69	0.69	1.34	0.45	0.89	0	0.45	MPB	0.500	1.000	1.1	0.004	S
P38-5MGT-15	38	2.381	2.336	2.610	AF-1	_	_	0.69	0.88	0	0.88	0	0.45	1108	0.500	1.125	0.6	0.003	SS
P38-5MGT-15 PB	38	2.381	2.336	2.610	6F-1	_	1.96	0.69	1.34	0.45	0.89	0	0.45	MPB	0.500	1.250	1.6	0.005	S
P40-5MGT-15	40	2.506	2.461	2.730	AF-1	_	_	0.69	0.88	0	0.88	0	0.45	1108	0.500	1.125	0.7	0.004	SS
P40-5MGT-15 PB	40	2.506	2.461	2.730	6F-1	_	2.09	0.69	1.38	0.49	0.89	0	0.45	MPB	0.500	1.312	1.6	0.006	S
P44-5MGT-15	44	2.757	2.712	3.090	AF-1	_	_	0.69	0.88	0	0.88	0	0.45	1108	0.500	1.125	0.9	0.007	SS
P45-5MGT-15 PB	45	2.820	2.775	3.090	6F-1	_	2.34	0.69	1.38	0.49	0.89	0	0.45	MPB	0.500	1.500	2.1	0.010	S
P48-5MGT-15	48	3.008	2.963	3.330	BF-1	_	2.69	0.69	1.00	0	0.88	0.13	0.45	1210	0.500	1.250	0.0	0.010	SS
P50-5MGT-15 PB	50	3.133	3.088	3.330	6F-1	_	2.65	0.69	1.38	0.49	0.89	0	0.45	MPB	0.500	1.750	2.6	0.015	S
P52-5MGT-15	52	3.258	3.213	2.570	BF-1	_	2.88	0.69	1.00	0	0.88	0.13	0.45	1210	0.500	1.250	1.3	0.015	SS
P56-5MGT-15	56	3.509	3.464	3.810	BF-1	_	3.07	0.69	1.00	0	0.88	0.13	0.45	1610	0.500	1.688	1.4	0.019	SS
P60-5MGT-15	60	3.760	3.715	4.040	BF-1	_	3.25	0.69	1.00	0	0.88	0.13	0.45	1610	0.500	1.688	1.7	0.026	SS
P64-5MGT-15	64	4.010	3.965	4.140	BF-1	_	3.25	0.69	1.00	0	0.88	0.13	0.45	1610	0.500	1.688	2.1	0.035	SS
P68-5MGT-15	68	4.261	4.216	4.520	BF-1	_	3.25	0.69	1.00	0	0.88	0.13	0.45	1610	0.500	1.688	2.4	0.045	SS
P72-5MGT-15	72	4.511	4.466	4.670	BF-1	_	3.25	0.69	1.00	0	0.88	0.13	0.45	1610	0.500	1.688	2.8	0.058	SS
P80-5MGT-15	80	5.013	4.968	_	B-1	_	3.25	_	1.00	0	0.89	0.11	0.45	1610	0.500	1.688	3.7	0.090	SS
P90-5MGT-15	90	5.639	5.594	_	B-1	_	3.25	_	1.00	0	0.89	0.11	0.45	1610	0.500	1.688	4.9	0.147	SS
P112-5MGT-15	112	7.018	6.973	_	B-1	_	4.38	_	1.25	0	0.89	0.36	0.45	2012	0.500	2.125	8.3	0.374	SS

Material Spec: S - Steel SS - Sintered Steel G - Grey Iron D - Ductile Iron

		Di	iameters (i	n)						Di	mensions ((in)							
	Number														Bore	Sizes			
Sprocket Number	of Teeth	Pitch	0.D	Flange Ref.	Design Type	A	В	С	D	E	F	М	F-CL	Bushing Size	Min.	Max.	Approx. Wt.(lb)	Approx. WR2	Matl. Spec.
P18-5MGT-25 PB	18	1.128	1.083	1.385	6F-1		0.68	1.08	1.65	0.37	1.28	0	0.64	MPB	0.250	0.375	0.4	0.0003	S
P19-5MGT-25 PB	19	1.191	1.146	1.420	6F-1	_	0.88	1.08	1.65	0.37	1.28	0	0.64	MPB	0.250	0.437	0.4	0.0004	S
P20-5MGT-25 PB	20	1.253	1.208	1.510	6F-1	_	0.90	1.08	1.65	0.37	1.28	0	0.64	MPB	0.250	0.500	0.5	0.0005	S
P21-5MGT-25 PB	21	1.316	1.271	1.530	6F-1	_	1.09	1.08	1.65	0.37	1.28	0	0.64	MPB	0.250	0.690	0.5	0.0006	S
P22-5MGT-25 PB	22	1.379	1.334	1.530	6F-1	_	1.09	1.08	1.68	0.40	1.28	0	0.64	MPB	0.250	0.655	0.6	0.0007	S
P23-5MGT-25 PB	23	1.441	1.396	1.660	6F-1	_	1.15	1.08	1.68	0.40	1.28	0	0.64	MPB	0.375	0.625	0.7	0.0009	S
P24-5MGT-25 PB	24	1.504	1.459	1.780	6F-1	_	1.18	1.08	1.68	0.40	1.28	0	0.64	MPB	0.375	0.625	0.8	0.001	S
P25-5MGT-25 PB	25	1.566	1.521	1.780	6F-1	_	1.18	1.08	1.68	0.40	1.28	0	0.64	MPB	0.375	0.625	0.8	0.001	S
P26-5MGT-25 PB	26	1.629	1.584	1.900	6F-1	_	1.21	1.08	1.68	0.40	1.28	0	0.64	MPB	0.375	0.687	0.8	0.001	S
P28-5MGT-25 PB	28	1.754	1.709	2.020	6F-1	_	1.37	1.08	1.73	0.45	1.28	0	0.64	MPB	0.375	0.750	1.0	0.002	S
P30-5MGT-25 PB	30	1.880	1.835	2.130	6F-1	_	1.53	1.08	1.73	0.45	1.28	0	0.64	MPB	0.500	0.937	1.1	0.002	S
P32-5MGT-25 PB	32	2.005	1.960	2.125	6F-1	_	1.55	1.08	1.73	0.45	1.28	0	0.64	MPB	0.500	.937	1.2	0.003	S
P34-5MGT-25 PB	34	2.130	2.085	2.375	6F-1	_	1.69	1.08	1.73	0.45	1.28	0	0.64	MPB	0.500	1.000	1.4	0.004	S
P36-5MGT-25	36	2.256	2.211	2.375	AF-1	1.55	_	1.08	0.88	0	1.29	0.41	0.64	1108	0.500	1.125	0.7	0.003	SS
P36-5MGT-25 PB	36	2.256	2.211	2.380	6F-1	_	1.69	1.08	1.73	0.45	1.28	0	0.64	MPB	0.500	1.000	1.6	0.005	S
P38-5MGT-25	38	2.381	2.336	2.613	AF-1	1.80	_	1.08	0.88	0	1.29	0.41	0.64	1108	0.500	1.125	0.7	0.004	SS
P38-5MGT-25 PB	38	2.381	2.336	2.610	6F-1	_	1.96	1.08	1.73	0.45	1.28	0	0.64	MPB	0.500	1.250	1.9	0.007	S
P40-5MGT-25	40	2.506	2.461	2.733	AF-1	1.90	_	1.08	0.88	0	1.29	0.41	0.64	1108	0.500	1.125	0.8	0.006	SS
P40-5MGT-25 PB	40	2.506	2.461	2.730	6F-1	_	2.09	1.08	1.78	0.50	1.28	0	0.64	MPB	0.500	1.312	2.2	0.009	S
P44-5MGT-25	44	2.757	2.712	3.090	AF-1	2.20	_	1.08	0.88	0	1.29	0.41	0.64	1108	0.500	1.125	1.1	0.009	SS
P45-5MGT-25 PB	45	2.820	2.775	3.090	6F-1	_	2.34	1.08	1.78	0.50	1.28	0	0.64	MPB	0.500	1.500	2.7	0.014	S
P48-5MGT-25	48	3.008	2.963	3.328	AF-1	2.36	_	1.08	1.00	0	1.28	0.28	0.64	1210	0.500	1.250	1.2	0.012	SS
P50-5MGT-25 PB	50	3.133	3.088	3.330	6F-1	_	2.65	1.08	1.78	0.50	1.28	0	0.64	MPB	0.500	1.750	3.4	0.022	S
P52-5MGT-25	52	3.258	3.213	3.566	AF-1	2.62	_	1.08	1.00	0	1.28	0.28	0.64	1210	0.500	1.250	1.6	0.018	SS
P56-5MGT-25	56	3.509	3.464	3.805	AF-1	2.75	_	1.08	1.00	0	1.28	0.28	0.64	1610	0.500	1.688	1.6	0.024	SS
P60-5MGT-25	60	3.760	3.715	4.044	AF-1	2.90	_	1.08	1.00	0	1.28	0.28	0.64	1610	0.500	1.688	2.1	0.033	SS
P64-5MGT-25	64	4.010	3.965	4.170	AF-1	3.37	_	1.08	1.00	0	1.28	0.28	0.64	1610	0.500	1.688	2.4	0.042	G
P68-5MGT-25	68	4.261	4.216	4.520	AF-1	2.57	_	1.08	1.25	0.03	1.28	0.20	0.64	2012	0.500	2.125	2.7	0.057	G
P72-5MGT-25	72	4.511	4.466	4.670	AF-1	2.57	_	1.08	1.25	0.03	1.28	Ö	0.64	2012	0.500	2.125	3.3	0.075	Ğ
P80-5MGT-25	80	5.013	4.968	_	A-1	2.57	_	1.08	1.25	0.03	1.28	0	0.64	2012	0.500	2.125	4.5	0.121	Ğ
P90-5MGT-25	90	5.639	5.594	_	A-1	2.57	_	1.08	1.25	0.03	1.28	0	0.64	2012	0.500	2.125	6.2	0.203	G
P112-5MGT-25	112	7.018	6.973	_	A-1	2.57	_	1.08	1.25	0.03	1.28	0	0.64	2012	0.500	2.125	10.7	0.510	G

Material Spec : S - Steel SS - Sintered Steel G - Grey Iron D - Ductile Iron

Design Type Suffix: 1 - Solid 2 - Web 3 - Arms

Details shown which do not affect drive function may be changed without notification.

		Di	iameters (i	n)			A B C D E F M F-CL Size Min. Max. V 55 — 0.85 0.88 0 1.14 0.26 0.56 1108 0.500 1.125 55 — 0.85 0.88 0 1.14 0.26 0.56 1108 0.500 1.125 10 — 0.85 0.88 0.26 1.14 0 0.56 1108 0.500 1.125 20 — 0.85 1.00 0.13 1.13 0 0.56 1210 0.500 1.250 91 — 0.85 1.00 0 1.13 0.13 0.56 1210 0.500 1.250 91 — 0.85 1.00 0.13 1.13 0 0.56 1210 0.500 1.250 60 — 0.85 1.00 0.13 1.13 0 0.56 1610 0.500 1.688												
	Number					A B C D E 1.55 — 0.85 0.88 0 1.55 — 0.85 0.88 0 1.55 — 0.85 0.88 0.26 1.10 — 0.85 0.88 0.26 1.20 — 0.85 1.00 0.13 1.91 — 0.85 1.00 0 1.60 — 0.85 1.00 0.13 1.60 — 0.85 1.00 0.13 1.60 — 0.85 1.00 0.13 1.60 — 0.85 1.00 0.13 1.60 — 0.85 1.00 0.13 1.60 — 0.85 1.00 0.13 1.60 — 0.85 1.00 0.13 1.60 — 0.85 1.00 0.13 1.60 — 0.85 1.25 0 — 4.25									Bore	Sizes			
Sprocket Number	of Teeth	Pitch	0.D	Flange Ref.	Design Type	Α	В	С	D	E	F	М	F-CL	_	Min.	Max.	Approx. Wt.(lb)	Approx. WR2	Matl. Spec.
P22-8MGT-20	22	2.206	2.152	2.559	AF-1	1.55	_	0.85	0.88	0		0.26	0.56	1108	0.500	1.125	0.5	0.002	D
P24-8MGT-20	24	2.406	2.352	2.756	AF-1	1.55	_	0.85	0.88	0	1.14	0.26	0.56	1108	0.500	1.125	0.7	0.004	D
P26-8MGT-20	26	2.607	2.553	2.953	AF-1	1.55	_	0.85	0.88	0	1.14	0.26	0.56	1108	0.500	1.125	0.9	0.006	D
P28-8MGT-20	28	2.807	2.753	3.150	AF-1	1.10	—	0.85				0		1108	0.500	1.125	1.2	0.009	D
P30-8MGT-20	30	3.008	2.954	3.346	AF-1	1.20	_	0.85	1.00	0.13	1.13	0	0.56	1210	0.500	1.250	1.2	0.011	D
P32-8MGT-20	32	3.208	3.154	3.543	AF-1	1.91	_	0.85	1.00	0	1.13	0.13	0.56	1210	0.500	1.250	1.4	0.015	D
P34-8MGT-20	34	3.409	3.355	3.819	AF-1	1.60	_	0.85	1.00	0.13	1.13	0	0.56	1610	0.500	1.688	1.4	0.018	D
P36-8MGT-20	36	3.609	3.555	3.937	AF-1	1.60	_	0.85	1.00	0.13	1.13	0	0.56	1610	0.500	1.688	1.7	0.024	D
P38-8MGT-20	38	3.810	3.756	4.134	AF-1	1.60	_	0.85	1.00	0.13	1.13	0	0.56	1610	0.500	1.688	2.0	0.032	G
P40-8MGT-20	40	4.010	3.956	4.331	AF-1	1.60	_	0.85	1.00	0.13	1.13	0	0.56	1610	0.500	1.688	2.4	0.040	G
P44-8MGT-20	44	4.411	4.357	4.764	BF-1		3.88	0.85	1.25	0	1.12	0.13	0.56	2012	0.500	2.125	2.7	0.058	G
P48-8MGT-20	48	4.812	4.758	5.157	BF-1	_	4.25	0.85	1.25	0	1.12	0.13	0.56	2012	0.500	2.125	3.7	0.091	G
P56-8MGT-20	56	5.614	5.560	5.945	BF-1	_	4.38	0.85	1.25	0	1.12	0.13	0.56	2012	0.500	2.125	5.6	0.176	G
P64-8MGT-20	64	6.416	6.362	6.772	BF-1	_	4.38	0.85	1.25	0	1.12	0.13	0.56	2012	0.500	2.125	7.7	0.307	G
P72-8MGT-20	72	7.218	7.164	7.598	BF-1	_	4.38	0.85	1.25	0	1.12	0.13	0.56	2012	0.500	2.125	10.2	0.499	G
P80-8MGT-20	80	8.020	7.966	8.386	BF-1	_	4.88	0.85	1.75	0	1.12	0.63	0.56	2517	0.500	2.688	13.1	0.772	G
P90-8MGT-20	90	9.023	8.969	_	C-2	7.90	4.88	_	1.75	0.31	1.13	0.31	0.59	2517	0.500	2.688	12.5	0.903	G

Material Spec : S - Steel

SS - Sintered Steel

G - Grey Iron

D - Ductile Iron

Design Type Suffix: 1 - Solid 2 - Web

		Di	iameters (i	n)						Dii	nensions (in)							
	Number														Bore	Sizes	_		
Sprocket Number	of Teeth	Pitch	0.D	Flange Ref.	Design Type	A	В	C	D	E	F	М	F-CL	Bushing Size	Min.	Max.	Approx. Wt.(lb)	Approx. WR2	Matl. Spec.
P22-8MGT-30	22	2.206	2.152	2.559	AF-1	1.55	_	1.22	0.88	0	1.50	0.63	0.75	1108	0.500	1.125	0.6	0.003	D
P24-8MGT-30	24	2.406	2.352	2.756	AF-1	1.55	_	1.22	0.88	0	1.50	0.63	0.75	1108	0.500	1.125	0.9	0.005	D
P26-8MGT-30	26	2.607	2.553	2.953	AF-1	1.75	_	1.22	0.88	0	1.50	0.63	0.75	1108	0.500	1.125	1.1	0.008	D
P28-8MGT-30	28	2.807	2.753	3.150	AF-1	1.55	_	1.22	0.88	0	1.50	0.63	0.75	1108	0.500	1.125	1.5	0.012	G
P30-8MGT-30	30	3.008	2.954	3.346	AF-1	1.91	_	1.22	1.00	0	1.50	0.50	0.75	1210	0.500	1.250	1.5	0.015	D
P32-8MGT-30	32	3.208	3.154	3.543	AF-1	2.19	_	1.22	1.00	0	1.50	0.50	0.75	1210	0.500	1.250	1.7	0.019	D
P34-8MGT-30	34	3.409	3.355	3.819	AF-1	2.29	_	1.22	1.00	0	1.50	0.50	0.75	1610	0.500	1.688	1.8	0.024	D
P36-8MGT-30	36	3.609	3.555	3.937	AF-1	2.29	_	1.22	1.00	0	1.50	0.50	0.75	1610	0.500	1.688	2.2	0.032	D
P38-8MGT-30	38	3.810	3.756	4.134	AF-1	2.53	_	1.22	1.00	0	1.50	0.50	0.75	1610	0.500	1.688	2.5	0.040	D
P40-8MGT-30	40	4.010	3.956	4.331	AF-1	3.00	_	1.22	1.25	0	1.50	0.25	0.75	2012	0.500	2.125	2.3	0.045	G
P44-8MGT-30	44	4.411	4.357	4.764	AF-1	3.50	_	1.22	1.25	0	1.50	0.25	0.75	2012	0.500	2.125	3.2	0.071	G
P48-8MGT-30	48	4.812	4.758	5.157	AF-1	3.80	_	1.22	1.25	0	1.50	0.25	0.75	2012	0.500	2.125	4.2	0.106	G
P56-8MGT-30	56	5.614	5.560	5.945	AF-1	4.60	_	1.22	1.25	0	1.50	0.25	0.75	2012	0.500	2.125	6.3	0.208	G
P64-8MGT-30	64	6.416	6.362	6.772	BF-1	_	4.88	1.22	1.75	0	1.50	0.25	0.75	2517	0.500	2.688	9.5	0.404	G
P72-8MGT-30	72	7.218	7.164	7.598	BF-1	_	4.88	1.22	1.75	0	1.50	0.25	0.75	2517	0.500	2.688	12.8	0.659	G
P80-8MGT-30	80	8.020	7.966	8.386	BF-1	_	4.88	1.22	1.75	0	1.50	0.25	0.75	2517	0.500	2.688	16.5	1.019	G
P90-8MGT-30	90	9.023	8.969	_	C-2	7.90	4.88	_	1.75	0.13	1.50	0.12	0.51	2517	0.500	2.688	21.6	1.65	G
P112-8MGT-30	112	11.229	11.175	_	C-2	10.00	4.88	_	1.75	0.13	1.50	0.12	0.51	2517	0.500	2.688	25.4	3.42	G
P144-8MGT-30	144	14.437	14.383	_	C-2	13.20	4.88	_	1.88	0.38	1.50	0	0.76	2517	0.500	2.688	31.0	6.014	G

Material Spec : S - Steel

SS - Sintered Steel

G - Grey Iron

D - Ductile Iron

Design Type Suffix: 1 - Solid 2 - Web

		Di	ameters (i	n)						Di	mensions ((in)							
	Number														Bore	Sizes			
Sprocket Number	of Teeth	Pitch	0.D	Flange Ref.	Design Type	A	В	C	D	E	F	М	F-CL	Bushing Size	Min.	Max.	Approx. Wt.(lb)	Approx. WR2	Matl. Spec.
P28-8MGT-50 PB	28	2.807	2.753	3.207	6F-1	1.80	2.34	2.10	2.50	0.62	2.38	0.50	1.19	MPB	0.500	1.500	3.7	0.024	D
P30-8MGT-50	30	3.008	2.954	3.346	AF-1	2.00	_	2.10	1.00	0	2.38	1.38	1.19	1210	0.500	1.250	2.2	0.023	D
P32-8MGT-50	32	3.208	3.154	3.543	AF-1	2.36	_	2.10	1.00	0	2.38	1.38	1.19	1210	0.500	1.250	2.3	0.028	D
P34-8MGT-50	34	3.409	3.355	3.819	AF-1	2.57	_	2.10	1.00	0	2.38	1.38	1.19	1610	0.500	1.688	4.0	0.045	D
P36-8MGT-50	36	3.609	3.555	3.937	AF-1	2.77	_	2.10	1.00	0	2.38	1.38	1.19	1610	0.500	1.688	2.7	0.043	G
P38-8MGT-50	38	3.810	3.756	4.134	AF-1	2.97	_	2.10	1.00	0	2.38	1.38	1.19	1610	0.500	1.688	3.1	0.054	G
P40-8MGT-50	40	4.010	3.956	4.331	AF-1	2.97	_	2.10	1.25	0	2.38	1.13	1.19	2012	0.500	2.125	3.5	0.068	D
P44-8MGT-50	44	4.411	4.357	4.764	AF-1	3.50	_	2.10	1.25	0	2.38	1.13	1.19	2012	0.500	2.125	4.3	0.099	G
P48-8MGT-50	48	4.812	4.758	5.157	AF-1	3.80	_	2.10	1.25	0	2.38	1.13	1.19	2012	0.500	2.125	5.5	0.149	G
P56-8MGT-50	56	5.614	5.560	5.945	AF-1	4.60	_	2.10	1.75	0	2.38	0.63	1.19	2517	0.500	2.688	8.1	0.295	G
P64-8MGT-50	64	6.416	6.362	6.772	AF-1	5.40	_	2.10	1.75	0	2.38	0.63	1.19	2517	0.500	2.688	11.7	0.527	G
P72-8MGT-50	72	7.218	7.164	7.598	AF-1	6.20	_	2.10	1.75	0	2.38	0.63	1.19	2517	0.500	2.688	15.7	0.862	G
P80-8MGT-50	80	8.020	7.966	8.386	AF-1	6.90	_	2.10	1.75	0	2.38	0.63	1.19	2517	0.500	2.688	20.3	1.343	G
P90-8MGT-50	90	9.023	8.969	_	A-1	7.90	_	_	2.00	0	2.38	0.38	1.19	3020	0.875	3.250	26.9	2.277	G
P112-8MGT-50	112	11.229	11.175	_	A-2	10.00	_	_	2.00	0	2.38	0.38	1.19	3020	0.875	3.250	29.8	3.746	G
P144-8MGT-50	144	14.437	14.383	_	A-3	13.49	_	_	2.00	0	2.39	0.39	1.19	3020	0.875	3.250	49.0	8.988	D
P192-8MGT-50	192	19.249	19.195	_	A-3	18.00	_	_	2.00	0	2.38	0.38	1.19	3020	0.875	3.250	108.0	32.21	G

Material Spec : S - Steel

SS - Sintered Steel

G - Grey Iron

D - Ductile Iron

Design Type Suffix: 1 - Solid

2 - Web

		Di	iameters (i	n)						Dir	nensions ((in)							
	Number														Bore	Sizes		_	
Sprocket Number	of Teeth	Pitch	0.D	Flange Ref.	Design Type	A	В	C	D	E	F	М	F-CL	Bushing Size	Min.	Max.	Approx. Wt.(lb)	Approx. WR2	Matl. Spec.
P34-8MGT-85	34	3.409	3.355	3.819	AF-1	2.52	_	3.47	1.50	0.75	3.75	1.50	1.88	1615	0.500	1.688	3.9	0.054	G
P36-8MGT-85	36	3.609	3.555	4.009	AF-1	2.72	_	3.47	1.50	0.75	3.75	1.50	1.88	1615	0.500	1.688	4.4	0.069	G
P38-8MGT-85	38	3.810	3.756	4.210	AF-1	3.00	_	3.47	1.00	0.63	2.75	1.12	2.50	1610	0.500	1.688	4.3	0.077	G
P40-8MGT-85	40	4.010	3.956	4.410	AF-1	3.12	_	3.47	1.25	1.25	3.75	1.25	1.88	2012	0.500	2.125	4.7	0.097	D
P44-8MGT-85	44	4.411	4.357	4.764	AF-1	3.50	_	3.47	1.25	1.25	3.75	1.25	1.88	2012	0.500	2.125	5.9	0.144	G
P48-8MGT-85	48	4.812	4.758	5.212	AF-1	3.80	_	3.47	1.25	1.25	3.75	1.25	1.88	2012	0.500	2.125	7.6	0.214	G
P56-8MGT-85	56	5.614	5.560	6.014	AF-1	4.60	_	3.47	1.75	0.81	3.75	1.19	1.88	2517	0.500	2.688	10.6	0.405	G
P64-8MGT-85	64	6.416	6.362	6.716	AF-1	5.40	_	3.47	1.75	0.59	3.75	1.41	1.88	2517	0.500	2.688	14.5	0.698	G
P72-8MGT-85	72	7.218	7.164	7.500	AF-1	6.20	_	3.47	2.00	0.88	3.76	0.88	1.88	3020	0.875	3.250	18.0	1.121	G
P80-8MGT-85	80	8.020	7.966	8.420	AF-1	7.20	_	3.47	2.00	0.50	3.75	1.25	1.88	3020	0.875	3.250	22.4	1.642	G
P90-8MGT-85	90	9.023	8.969	_	A-1	7.90	_		2.00	0.50	3.75	1.25	1.88	3020	0.875	3.250	31.5	2.846	G
P112-8MGT-85	112	11.229	11.175	_	D-1	10.00	6.25	_	2.00	0.50	3.75	1.25	1.44	3020	0.875	3.250	33.2	4.621	G
P144-8MGT-85	144	14.437	14.383	_	D-1	13.44	6.56	_	3.50	0	3.75	0.25	0.94	3535	1.188	3.938	54.1	11.06	G
P192-8MGT-85	192	19.249	19.195	_	D-1	18.00	7.00		3.50	0.13	3.76	0.13	1.07	3535	1.188	3.938	125.0	39.63	G

Material Spec : S - Steel SS - Sintered Steel G - Grey Iron D - Ductile Iron

		Di	iameters (i	n)						Di	mensions (in)							
	Number														Bore	Sizes			
Sprocket Number	of Teeth	Pitch	0.D	Flange Ref.	Design Type	A	В	С	D	E	F	М	F-CL	Bushing Size	Min.	Max.	Approx. Wt.(lb)	Approx. WR2	Matl. Spec.
P28-14MGT-40	28	4.912	4.802	5.560	AF-1	3.13	_	1.81	1.25	0	2.13	0.88	1.06	2012	0.500	2.125	5.9	0.153	G
P29-14MGT-40	29	5.088	4.978	5.560	AF-1	3.15	_	1.81	1.25	0	2.13	0.88	1.06	2012	0.500	2.125	6.6	0.181	G
P30-14MGT-40	30	5.263	5.153	6.125	AF-1	3.85	_	1.81	1.25	0	2.13	0.88	1.06	2012	0.500	2.125	6.5	0.193	G
P32-14MGT-40	32	5.614	5.504	6.125	AF-1	3.92	_	1.81	1.25	0	2.13	0.88	1.06	2012	0.500	2.125	8.0	0.265	G
P34-14MGT-40	34	5.965	5.855	6.500	AF-1	4.06		1.81	1.25	0	2.13	0.88	1.06	2012	0.500	2.125	9.4	0.349	G
P36-14MGT-40	36	6.316	6.206	6.875	AF-1	4.69	_	1.81	1.75	0	2.13	0.38	1.06	2517	0.500	2.688	10.5	0.444	G
P38-14MGT-40	38	6.667	6.557	7.219	AF-1	4.94	_	1.81	1.75	0	2.13	0.38	1.06	2517	0.500	2.688	12.2	0.565	G
P40-14MGT-40	40	7.018	6.908	7.500	AF-1	5.06	_	1.81	1.75	0	2.13	0.38	1.06	2517	0.500	2.688	14.2	0.713	G
P44-14MGT-40	44	7.720	7.610	8.343	AF-1	6.14	_	1.81	1.75	0	2.13	0.38	1.06	2517	0.500	2.688	17.6	1.046	G
P48-14MGT-40	48	8.421	8.311	8.937	AF-1	6.50		1.81	1.75	0	2.13	0.38	1.06	2517	0.500	2.688	22.0	1.527	G
P52-14MGT-40	52	9.123	9.013	9.687	AF-1	7.18	_	1.81	1.75	0	2.13	0.38	1.06	2517	0.500	2.688	26.5	2.126	G
P56-14MGT-40	56	9.825	9.715	10.375	AF-1	7.88	_	1.81	1.75	0	2.13	0.38	1.06	2517	0.500	2.688	31.3	2.878	G
P60-14MGT-40	60	10.527	10.417	11.062	AF-1	8.50	_	1.81	2.00	0	2.13	0.13	1.06	3020	0.875	3.250	28.9	3.177	G
P64-14MGT-40	64	11.229	11.119	11.750	AF-1	9.25	_	1.81	2.00	0	2.13	0.13	1.06	3020	0.875	3.250	31.0	3.872	G
P68-14MGT-40	68	11.930	11.820	12.500	DF-1	10.00	6.25	1.81	2.00	0	2.13	0.13	0.53	3020	0.875	3.250	31.3	4.446	G
P72-14MGT-40	72	12.632	12.522	13.187	DF-1	10.69	6.25	1.81	2.00	0	2.13	0.13	0.53	3020	0.875	3.250	33.9	5.41	G
P80-14MGT-40	80	14.036	13.926	14.625	DF-3	12.53	5.50	1.81	2.00	0	2.13	0.13	0.53	3020	0.875	3.250	33.7	7.474	G
P90-14MGT-40	90	15.790	15.680	_	D-3	14.25	5.50	1.81	2.00	0	2.13	0.13	0.53	3020	0.875	3.250	39.7	9.396	G
P112-14MGT-40	112	19.650	19.540	_	A-3	18.09	_	_	2.00	0	2.13	0.13	1.06	3020	0.875	3.250	100.5	29.66	G
P144-14MGT-40	144	25.264	25.154	_	A-3	23.65	_	_	2.00	0	2.13	0.13	1.06	3020	0.875	3.250	154.1	75.16	G
P168-14MGT-40	168	29.475	29.365	_	A-3	27.50		_	2.00	0	2.13	0.13	1.06	3020	0.875	3.250	133.2	113.3	G
P192-14MGT-40	192	33.686	33.576	_	A-3	31.75	_	_	2.00	0	2.13	0.13	1.06	3020	0.875	3.250	167.6	189.8	G

Material Spec : S - Steel

SS - Sintered Steel

G - Grey Iron

D - Ductile Iron

Design Type Suffix: 1 - Solid

2 - Web

		Di	iameters (i	n)						Dir	nensions ((in)							
	Number														Bore	Sizes			
Sprocket Number	of Teeth	Pitch	0.D	Flange Ref.	Design Type	A	В	C	D	E	F	М	F-CL	Bushing Size	Min.	Max.	Approx. Wt.(lb)	Approx. WR2	Matl. Spec.
P28-14MGT-55	28	4.912	4.802	5.560	AF-1	3.13	_	2.43	1.25	0	2.75	1.50	1.38	2012	0.500	2.125	7.4	0.194	G
P29-14MGT-55	29	5.088	4.978	5.560	AF-1	3.13	_	2.43	1.25	0	2.75	1.50	1.38	2012	0.500	2.125	8.4	0.231	G
P30-14MGT-55	30	5.263	5.153	6.125	AF-1	3.80	_	2.43	1.75	0	2.75	1.00	1.38	2517	0.500	2.688	7.4	0.237	G
P32-14MGT-55	32	5.614	5.504	6.125	AF-1	3.92	_	2.43	1.75	0	2.75	1.00	1.38	2517	0.500	2.688	9.3	0.327	G
P34-14MGT-55	34	5.965	5.855	6.500	AF-1	4.06	_	2.43	1.75	0	2.75	1.00	1.38	2517	0.500	2.688	11.2	0.437	G
P36-14MGT-55	36	6.316	6.206	6.875	AF-1	4.69	_	2.43	1.75	0	2.75	1.00	1.38	2517	0.500	2.688	12.4	0.54	G
P38-14MGT-55	38	6.669	6.557	7.219	AF-1	4.94	_	2.43	1.75	0	2.75	1.00	1.38	2517	0.500	2.688	14.4	0.686	G
P40-14MGT-55	40	7.018	6.908	7.500	AF-1	5.06	_	2.43	1.75	0	2.75	1.00	1.38	2517	0.500	2.688	16.7	0.871	G
P44-14MGT-55	44	7.720	7.610	8.343	AF-1	6.12	_	2.43	1.75	0	2.75	1.00	1.38	2517	0.500	2.688	19.9	1.234	G
P48-14MGT-55	48	8.421	8.311	8.937	AF-1	6.50	_	2.43	2.00	0	2.75	0.75	1.38	3020	0.875	3.250	24.4	1.84	G
P52-14MGT-55	52	9.123	9.013	9.687	AF-1	7.18	_	2.43	2.00	0	2.75	0.75	1.38	3020	0.875	3.250	29.6	2.573	G
P56-14MGT-55	56	9.825	9.715	10.375	AF-1	7.88	_	2.43	2.00	0	2.75	0.75	1.38	3020	0.875	3.250	35.3	3.489	G
P60-14MGT-55	60	10.527	10.417	11.062	AF-1	8.50	_	2.43	2.00	0	2.75	0.75	1.38	3020	0.875	3.250	41.6	4.647	G
P64-14MGT-55	64	11.229	11.119	11.750	AF-1	9.25	_	2.43	2.00	0	2.75	0.75	1.38	3020	0.875	3.250	47.9	6.012	G
P68-14MGT-55	68	11.930	11.820	12.500	DF-1	10.00	6.25	2.43	2.00	0	2.75	0.75	0.69	3020	0.875	3.250	40.2	5.909	G
P72-14MGT-55	72	12.632	12.522	13.187	DF-1	10.69	6.25	2.43	2.00	0	2.75	0.75	0.69	3020	0.875	3.250	45.1	7.387	G
P80-14MGT-55	80	14.036	13.926	14.625	DF-3	12.00	5.50	2.43	2.00	0	2.75	0.75	0.69	3020	0.875	3.250	41.6	9.021	G
P90-14MGT-55	90	15.790	15.680	_	D-3	14.22	5.50	_	2.00	0	2.75	0.75	0.69	3020	0.875	3.250	45.0	12.36	G
P112-14MGT-55	112	19.650	19.540	_	D-2	18.04	6.25	_	2.00	0	2.75	0.75	0.69	3020	0.875	3.250	116.7	36.86	G
P144-14MGT-55	144	25.264	25.154	_	D-3	23.38	6.25	_	2.00	0	2.75	0.75	0.69	3020	0.875	3.250	98.0	65.38	G
P168-14MGT-55	168	29.475	29.365	_	D-3	27.50	6.25	_	2.00	0.19	2.75	0.56	0.88	3020	0.875	3.250	145.5	150.2	G
P192-14MGT-55	192	33.686	33.576	_	C-3	31.93	6.56	_	3.50	0	2.75	0.75	0.69	3535	1.188	3.938	432.3	404.3	G

Material Spec: S - Steel SS - Sintered Steel G - Grey Iron D - Ductile Iron

		Di	ameters (i	in)						Dii	mensions ((in)							
	Number														Bore	Sizes			
Sprocket Number	of Teeth	Pitch	0.D	Flange Ref.	Design Type	A	В	C	D	E	F	М	F-CL	Bushing Size	Min.	Max.	Approx. Wt.(lb)	Approx. WR2	Matl. Spec.
P28-14MGT-85	28	4.912	4.802	5.560	AF-1	3.13	_	3.68	1.25	1.31	4.00	1.44	2.00	2012	0.500	2.125	10.5	0.278	G
P29-14MGT-85	29	5.088	4.978	5.560	AF-1	3.13	_	3.68	1.25	1.31	4.00	1.44	2.00	2012	0.500	2.125	11.9	0.332	G
P30-14MGT-85	30	5.263	5.153	6.125	AF-1	3.78	_	3.68	1.75	0.50	4.00	1.75	2.00	2517	0.500	2.688	10.2	0.332	G
P32-14MGT-85	32	5.614	5.504	6.125	AF-1	3.92	_	3.68	1.75	0.81	4.00	1.44	2.00	2517	0.500	2.688	12.7	0.459	G
P34-14MGT-85	34	5.965	5.855	6.500	AF-1	4.06	_	3.68	1.75	0.81	4.00	1.44	2.00	2517	0.500	2.688	15.3	0.614	G
P36-14MGT-85	36	6.316	6.206	6.875	AF-1	4.69	_	3.68	2.00	0.53	4.00	1.47	2.00	3020	0.875	3.250	14.4	0.694	D
P38-14MGT-85	38	6.669	6.557	7.219	AF-1	4.94	_	3.68	2.00	0.53	4.00	1.47	2.00	3020	0.875	3.250	17.0	0.897	G
P40-14MGT-85	40	7.018	6.908	7.500	AF-1	5.06	_	3.68	2.00	0.53	4.00	1.47	2.00	3020	0.875	3.250	20.3	1.161	G
P44-14MGT-85	44	7.720	7.610	8.343	AF-1	6.12	_	3.68	2.00	0.53	4.00	1.47	2.00	3020	0.875	3.250	23.6	1.615	G
P48-14MGT-85	48	8.421	8.311	8.937	AF-1	6.50	_	3.68	2.00	0.53	4.00	1.47	2.00	3020	0.875	3.250	30.6	2.432	G
P52-14MGT-85	52	9.123	9.013	9.687	AF-1	7.18		3.68	3.50	0	4.00	0.50	2.00	3535	1.188	3.938	36.6	3.356	G
P56-14MGT-85	56	9.825	9.715	10.375	AF-1	7.88	_	3.68	3.50	0	4.00	0.50	2.00	3535	1.188	3.938	52.4	5.300	G
P60-14MGT-85	60	10.527	10.417	11.062	AF-1	8.50	_	3.68	3.50	0	4.00	0.50	2.00	3535	1.188	3.938	62.8	7.128	G
P64-14MGT-85	64	11.229	11.119	11.750	AF-1	9.25	_	3.68	3.50	0	4.00	0.50	2.00	3535	1.188	3.938	73.6	9.334	G
P68-14MGT-85	68	11.930	11.820	12.500	DF-1	10.00	7.00	3.68	3.50	0	4.00	0.50	1.00	3535	1.188	3.938	63.3	9.169	G
P72-14MGT-85	72	12.632	12.522	13.187	AF-1	10.69		3.68	3.50	0	4.00	0.50	2.00	3535	1.188	3.938	97.4	15.19	G
P80-14MGT-85	80	14.036	13.926	14.625	DF-2	12.13	7.00	3.68	3.50	0	4.00	0.50	1.00	3535	1.188	3.938	62.9	13.04	G
P90-14MGT-85	90	15.790	15.680	_	D-2	14.15	7.00	_	3.50	0	4.00	0.50	1.00	3535	1.188	3.938	71.5	18.14	G
P112-14MGT-85	112	19.650	19.540	_	D-3	17.97	6.56	_	3.50	0	4.00	0.50	1.00	3535	1.188	3.938	131.2	44.18	D
P144-14MGT-85	144	25.264	25.154	_	D-3	23.40	7.63	_	4.00	0	4.00	0	1.00	4040	1.438	4.438	137.4	92.1	G
P168-14MGT-85	168	29.475	29.365	_	D-3	27.70	7.63	_	4.00	0	4.00	0	1.00	4040	1.438	4.438	192.2	194.5	G
P192-14MGT-85	192	33.686	33.576	_	D-3	31.87	7.63	_	4.00	0	4.00	0	1.00	4040	1.438	4.438	448.0	444.6	G

Material Spec: S - Steel SS - Sintered Steel G - Grey Iron D - Ductile Iron

		Di	ameters (i	in)						Diı	nensions (in)							
	Number														Bore	Sizes		_	
Sprocket Number	of Teeth	Pitch	0.D	Flange Ref.	Design Type	A	В	C	D	E	F	М	F-CL	Bushing Size	Min.	Max.	Approx. Wt.(lb)	Approx. WR2	Matl. Spec.
P28-14MGT-115 PB	28	4.912	4.802	5.562	6F-1	3.13	3.69	4.93	5.00	1.20	5.30	1.50	2.67	MPB	1.250	2.688	22.2	0.508	D
P29-14MGT-115 PB	29	5.088	4.978	5.562	6F-1	3.13	3.69	4.93	5.00	1.20	5.30	1.50	2.67	MPB	1.250	2.688	24.0	0.585	D
P30-14MGT-115	30	5.263	5.153	5.763	AF-1	3.70	_	4.93	1.75	1.75	5.25	1.75	2.63	2517	0.500	2.688	13.4	0.438	G
P32-14MGT-115	32	5.614	5.504	6.114	AF-1	3.94	_	4.93	1.75	1.75	5.25	1.75	2.63	2517	0.500	2.688	16.0	0.587	G
P34-14MGT-115	34	5.965	5.855	6.465	AF-1	4.06		4.93	1.75	1.75	5.25	1.75	2.63	2517	0.500	2.688	19.5	0.790	G
P36-14MGT-115	36	6.316	6.206	6.816	AF-1	4.74	_	4.93	2.00	1.63	5.26	1.63	2.63	3020	0.875	3.250	17.9	0.876	G
P38-14MGT-115	38	6.669	6.557	7.167	AF-1	5.08	_	4.93	2.00	1.63	5.26	1.63	2.63	3020	0.875	3.250	20.3	1.100	G
P40-14MGT-115	40	7.018	6.908	7.518	AF-1	5.43	_	4.93	2.00	1.63	5.26	1.63	2.63	3020	0.875	3.250	22.9	1.357	G
P44-14MGT-115	44	7.720	7.610	8.395	AF-1	6.13	_	4.93	3.50	0.88	5.26	0.88	2.63	3535	1.188	3.938	30.3	2.144	G
P48-14MGT-115	48	8.421	8.311	8.941	AF-1	6.50		4.93	3.50	0.88	5.26	0.88	2.63	3535	1.188	3.938	40.3	3.277	G
P52-14MGT-115	52	9.123	9.013	9.687	AF-1	7.18	_	4.93	4.00	0.63	5.26	0.63	2.63	4040	1.438	4.438	46.8	4.545	G
P56-14MGT-115	56	9.825	9.715	10.355	AF-1	7.88	_	4.93	4.00	0.63	5.26	0.63	2.63	4040	1.438	4.438	58.1	6.335	G
P60-14MGT-115	60	10.527	10.417	11.067	AF-1	8.50	_	4.93	4.00	0.63	5.26	0.63	2.63	4040	1.438	4.438	70.4	8.589	G
P64-14MGT-115	64	11.229	11.119	11.750	AF-1	9.25	_	4.93	4.50	0.38	5.26	0.38	2.63	4545	1.938	4.938	82.4	11.47	G
P68-14MGT-115	68	11.930	11.820	12.500	AF-1	10.00	_	4.93	4.50	0.38	5.26	0.38	2.63	4545	1.938	4.938	97.2	14.91	G
P72-14MGT-115	72	12.632	12.522	13.066	AF-1	10.70	_	4.93	4.50	0.38	5.26	0.38	2.63	4545	1.938	4.938	113.2	19.06	G
P80-14MGT-115	80	14.036	13.926	14.620	AF-2	12.13		4.93	4.50	0.38	5.26	0.38	2.63	4545	1.938	4.938	147.5	29.66	G
P90-14MGT-115	90	15.790	15.680	_	D-1	14.11	9.50	_	4.50	0.38	5.26	0.38	2.32	4545	1.938	4.938	116.9	28.30	G
P112-14MGT-115	112	19.650	19.540	_	D-2	17.94	9.50	_	4.50	0	5.25	0.75	1.94	4545	1.938	4.938	173.3	64.72	G
P144-14MGT-115	144	25.264	25.154	_	D-3	9.50	17.94		4.50	0.38	5.26	0.38	2.32	4545	1.938	4.938	172.2	119.8	G
P168-14MGT-115	168	29.475	29.365	_	D-3	27.66	8.63	_	4.50	0.38	5.26	0.38	2.32	4545	1.938	4.938	223.4	243.3	G
P192-14MGT-115	192	33.686	33.576	_	D-2	31.83	8.63	_	4.50	0.38	5.26	0.38	2.32	4545	1.938	4.938	475.0	496.5	G
P216-14MGT-115	216	37.896	37.786	_	D-3	36.00	13.06	_	5.00	0	5.25	0.25	1.94	6050	4.438	6.000	378.0	686.1	G

D - Ductile Iron

Material Spec : S - Steel SS - Sintered Steel G - Grey Iron

		Di	ameters (i	n)		A B C D E F M F-CL Size Min. Max. V 4.69 5.00 7.06 6.00 1.21 7.42 2.63 3.73 MPB 1.500 3.375 4.94 5.38 7.06 6.00 1.21 7.42 2.63 3.73 MPB 1.500 3.375 5.54 — 7.06 3.50 1.94 7.38 1.94 4.94 3535 1.188 3.938 6.06 — 7.06 3.50 1.94 7.38 1.94 3.69 3535 1.188 3.938 6.50 — 7.06 3.50 1.94 7.38 1.94 3.69 3535 1.188 3.938 7.18 — 7.06 4.00 1.13 7.38 2.25 3.69 4040 1.438 4.438 7.88 — 7.06 4.50 0.75 7.38 2.13 3.69 4545 1.938													
	Number														Bore	Sizes			
Sprocket Number	of Teeth	Pitch	0.D	Flange Ref.	Design Type	A	В	С	D	E	F	М	F-CL		Min.	Max.	Approx. Wt.(lb)	Approx. WR2	Matl. Spec.
P36-14MGT-170 PB	36	6.316	6.206	6.816	6F-1	4.69	5.00	7.06	6.00	1.21	7.42	2.63	3.73	MPB	1.500		47.3	1.849	D
P38-14MGT-170 PB	38	6.667	6.557	7.167	6F-1	4.94	5.38		6.00	1.21			3.73	MPB			53.5	2.321	D
P40-14MGT-170	40	7.018	6.908	7.518	AF-1	5.54	_	7.06	3.50	1.94	7.38	1.94	4.94	3535	1.188	3.938	28.6	1.780	G
P44-14MGT-170	44	7.720	7.610	8.395	AF-1	6.06	_	7.06	3.50	1.94	7.38	1.94	3.69	3535	1.188	3.938	38.9	2.828	G
P48-14MGT-170	48	8.421	8.311	8.941	AF-1	6.50	_	7.06	3.50	1.94	7.38	1.94	3.69	3535	1.188	3.938	51.0	4.283	G
P52-14MGT-170	52	9.123	9.013	9.687	AF-1	7.18	_	7.06	4.00	1.13	7.38	2.25	3.69	4040	1.438	4.438	58.6	5.877	G
P56-14MGT-170	56	9.825	9.715	10.355	AF-1	7.88	_	7.06	4.00	1.13	7.38	2.25	3.69	4040	1.438	4.438	70.9	8.051	G
P60-14MGT-170	60	10.527	10.417	11.067	AF-1	8.50	_	7.06	4.50	0.75	7.38	2.13	3.69	4545	1.938	4.938	82.9	10.85	G
P64-14MGT-170	64	11.229	11.119	11.750	AF-1	9.53	_	7.06	4.50	0.63	7.38	2.25	3.69	4545	1.938	4.938	94.5	13.71	G
P68-14MGT-170	68	11.930	11.820	12.500	AF-1	10.00	_	7.06	4.50	0.63	7.38	2.25	3.69	4545	1.938	4.938	113.0	18.15	G
P72-14MGT-170	72	12.632	12.522	13.066	AF-1	10.69	_	7.06	4.50	0.63	7.38	2.25	3.69	4545	1.938	4.938	130.1	23.00	G
P80-14MGT-170	80	14.036	13.926	14.625	AF-1	12.13	_	7.06	4.50	1.04	7.38	1.84	3.69	4545	1.938	4.938	166.2	35.12	G
P90-14MGT-170	90	15.790	15.680	_	D-1	14.05	9.00	_	4.50	0.63	7.38	2.25	3.10	4545	1.938	4.938	159.2	42.03	G
P112-14MGT-170	112	19.650	19.540	_	D-1	17.87	11.39	_	4.50	0	7.63	3.13	2.47	4545	1.938	4.938	215.1	81.3	G
P144-14MGT-170	144	25.264	25.154	_	D-3	23.31	13.02	_	5.00	1.19	7.38	1.19	3.66	6050	4.438	6.000	264.0	207.9	G
P168-14MGT-170	168	29.475	29.365	_	D-2	27.59	13.02	_	5.00	1.19	7.38	1.19	3.66	6050	4.438	6.000	462.0	384.2	G
P192-14MGT-170	192	33.686	33.576	_	D-3	31.76	13.02	_	5.00	1.19	7.38	1.19	3.66	6050	4.438	6.000	616.0	655.7	G
P216-14MGT-170	216	37.896	37.786	_	D-2	35.93	13.02	_	5.00	1.19	7.38	1.19	3.66	6050	4.438	6.000	563.0	851.7	D

Material Spec :

S - Steel

SS - Sintered Steel

G - Grey Iron

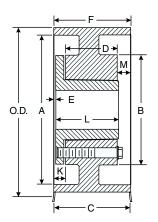
D - Ductile Iron

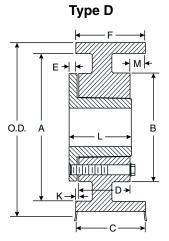
Design Type Suffix: 1 - Solid

2 - Web

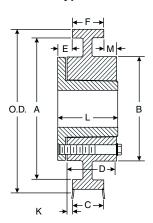
Gates PowerGrip HTD® Sprocket Specifications

For 20mm Pitch PowerGrip GT2 Belts Type A Ty

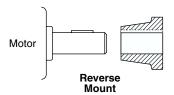


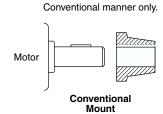


Type G



Bushing Mounting





QD Bushing Types M - S mount in a

20mm Pitch HTD® Stock Sprockets

20mm Pit								n (4.53	in) Wid	le Belts	(20M-1	115)								
Sprocket Code	Q.D.	No. of	Diam	eters (Inc	hes)					Dim	ensions	(in)				Bore	Sizes	Approx. Weight [†]	Approx.	Mat'l
Symbol	Bores	Teeth	Pitch	0.D.	Flange	Type	A	В	C	D	E	F	K	L	M	Min.	Max.	(lb)	WR ²	Spec.
P34-20M-115	F	34	8.522	8.352	97/16	A-1	63/4	0	5	2½	1/16	5%	17/16	3¾	17/16	1	4	36.5	2.820	G
P36-20M-115	F	36	9.023	8.853	927/32	A-1	613/16	0	5	2½	1/16	5%	17/16	3¾	17/16	1	4	46.3	3.881	G
P38-20M-115	F	38	9.524	9.354	107/16	A-1	75/16	0	5	21/2	1/16	5%	17/16	3¾	17/16	1	4	51.0	4.833	G
P40-20M-115	F	40	10.026	9.855	1013/16	A-1	7%	0	5	21/2	1/16	5%	17/16	3¾	17/16	1	4	57.4	5.878	G
P44-20M-115	F	44	11.028	10.858	1113/16	A-1	813/16	0	5	2½	1/16	5%	17/16	3¾	17/16	1	4	70.8	8.681	G
P48-20M-115	J	48	12.031	11.861	1225/32	D-1	913/16	0	5	33/16	3/8	5%	13/16	45/8	1	1½	4½	90.9	13.16	G
P52-20M-115	J	52	13.033	12.863	13¾	D-1	10%	0	5	33/16	3/8	5%	13/16	45%	1	1½	4½	110.0	18.56	G
P56-20M-115	J	56	14.036	13.856	14¾	D-2	113/4	9	5	33/16	3/8	5%	13/16	45%	1	1½	4½	106.0	20.02	G
P60-20M-115	J	60	15.038	14.868	1529/32	D-2	1213/16	9	5	33/16	3/8	5%	13/16	45%	1	1½	4½	116.0	25.09	G
P64-20M-115	J	64	16.041	15.871	1629/32	D-2	1313/16	9	5	33/16	3/8	5%	1 ¾ ₁₆	45%	1	1½	4½	127.0	31.22	G
P68-20M-115	J	68	17.032	16.873	1729/32	D-2	143/4	9	5	33/16	3/8	5%	13/16	45/8	1	1½	4½	148.0	41.30	G
P72-20M-115	J	72	18.046	17.876	18%	D-2	1519/32	9	5	33/16	3/8	5%	13/16	45/8	1	1½	4½	186.0	52.29	G
P80-20M-115	M	80	20.051	19.881	20%	D-2	173/4	11%	5	53/16	1½	5%	3/16	6¾	0	2	5½	237.0	81.91	G
P90-20M-115	M	90	22.557	22.387	2313/32	D-2	205/16	11%	5	53/16	1½	5%	3/16	6¾	0	2	5½	275.0	120.1	G
P112-20M-115	M	112	28.071	27.901	_	D-2	26¾	11%	5	53/16	1½	5%	3/16	6¾	0	2	5½	477.0	273.2	G
P144-20M-115	N	144	36.092	35.922	_	G-3	34¾	12	5	61/4	2	5%	0	813/16	7∕8	27/16	5%	612.0	408.3	G
P168-20M-115	N	168	42.107	41.937	_	G-3	40%	12	5	61/4	2	5%	0	81/8	%	27/16	5%	648.0	606.1	G
P192-20M-115	N	192	48.122	47.952	_	G-3	461/4	12	5	61/4	2	5%	0	81/8	7∕8	27/16	5%	786.0	1068	G
P216-20M-115	N	216	54.136	53.958	_	G-3	521/4	12	5	61/4	2	5%	0	81/8	%	27/16	5%	907.0	1555	G
							230mi	n (9.06	in) Wid	le Belts	(20M-2	230)								
P34-20M-170	МРВ	34	8.522	8.352	97/16	F-1	6½	6½	71/8	_	1/4	7½	_	6½	21/4	21/8	41/4	87.2	5.642	G
P36-20M-170	мрв	36	9.023	8.853	927/32	F-1	7	7	71/8	_	1/4	7½	_	6½	21/4	21/8	4½	98.7	7.136	G
P38-20M-170	J	38	9.524	9.354	107/16	A-1	7%	0	71/8	33/16	5/8	7½	23/16	45%	21/8	1½	4½	64.0	6.369	G
P40-20M-170	J	40	10.026	9.855	1013/16	A-1	73/4	0	71/8	33/16	3/4	7½	25/16	45%	2	1½	4½	73.4	8.032	G
P44-20M-170	J	44	11.028	10.858	1113/16	A-1	8%	0	7%	33/16	5/8	7½	23/16	45%	21/8	1½	4½	88.1	11.51	G
P48-20M-170	М	48	12.031	11.861	1225/32	D-1	9%	0	71/8	53/16	3/16	7½	1½	63/4	13/16	2	5½	120.0	18.50	G
P52-20M-170	M	52	13.033	12.863	13¾	D-1	1011/16	0	71/8	53/16	3/16	7½	1½	6¾	13/16	2	5½	149.0	26.45	G
P56-20M-170	М	56	14.036	13.856	14¾	D-1	1113/16	0	71/8	53/16	3/16	7½	1½	6¾	13/16	2	5½	177.0	35.64	G
P60-20M-170	M	60	15.038	14.868	1529/32	D-1	12%	0	71/8	53/16	3/16	7½	1½	6¾	13/16	2	5½	209.0	47.39	G
P64-20M-170	M	64	16.041	15.871	1629/32	D-1	13%	0	71/8	53/16	3/16	7½	1½	6¾	13/16	2	5½	236.0	61.79	G
P68-20M-170	M	68	17.032	16.873	1729/32	D-2	1413/16	11%	71/8	53/16	3/16	7½	1½	6¾	13/16	2	5½	214.0	58.93	G
P72-20M-170	М	72	18.046	17.876	18%	D-2	1519/32	11%	71/8	53/16	3/16	7½	1½	6¾	13/16	2	5½	238.0	73.88	G
P80-20M-170	М	80	20.051	19.881	20%	D-2	1713/16	11%	71/8	53/16	3/16	7½	1½	63/4	13/16	2	5½	262.0	98.45	G
P90-20M-170	М	90	22.557	22.387	2313/32	D-2	20%	11%	71/8	53/16	3/16	7½	1½	63/4	13/16	2	5½	303.0	143.5	G
P112-20M-170	N	112	28.071	27.901	_	D-2	261/4	12	71/8	61/4	3/4	7½	11/4	81/8	0	27/16	5%	473.0	323.7	G
P144-20M-170	N	144	36.092	35.922	_	D-3	341/4	12	7%	61/4	3/4	7½	11/4	81/8	0	27/16	5%	520.0	515.3	G
P168-20M-170	Р	168	42.107	41.937	_	G-3	401/4	14	71/8	7/4	13/16	7½	1/16	9%	13/16	215/16	7	619.0	804.9	G
P192-20M-170	Р	192	48.122	47.952	_	G-3	461/4	14	71/8	7/4	13/16	7½	1/16	9%	13/16	215/16	7	783.0	1315	G
P216-20M-170	P	216	54.136	53.958	_	G-3	521/8	14	71/8	7/4	13/16	7½	1/16	9%	13/16	215/16	7	902.0	1997	G

[†]Weight shown is for sprocket without bushing.

G = Gray Iron

Details shown which do not affect drive function may be changed without notification.



20mm Pitch HTD® Stock Sprockets

							170mn	n (6.69	in.) Wid	le Belts	s (20M-	170)								
Sprocket Code	Q.D.	No. of		eters (Inc							ensions	· ′					Sizes	Approx. Weight [†]	Approx.	Mat
Symbol	Bores	Teeth	Pitch	0.D.	Flange	Type	Α	В	C	D	E	F	K	L	M	Min.	Max.	(lb)	WR ²	Spec
P38-20M-230	MPB	38	9.524	9.354	107/16	F-1	7%16	7½	9½	_	1/4	9%	—	7½	35/8	2%	43/4	128.0	11.06	G
P40-20M-230	MPB	40	10.026	9.855	1013/16	F-1	8	8	9½	_	11/4	9%	—	8½	25/8	2%	51/4	156.0	14.35	G
P44-20M-230	MPB	44	11.028	10.858	1113/16	F-1	815/16	81/4	9½	_	1/4	9%	—	8½	25/8	27/8	6	189.0	21.65	G
P48-20M-230	М	48	12.031	11.861	1225/32	A-1	915/16	0	9½	53/16	5/16	9%	2	63/4	211/16	2	5½	140.0	21.86	G
P52-20M-230	М	52	13.033	12.863	13¾	A-1	1021/32	0	9½	53/16	5/16	9%	2	63/4	211/16	2	5½	175.0	31.64	G
P56-20M-230	М	56	14.036	13.856	143/4	A-1	11%	0	9½	53/16	5/16	9%	2	63/4	211/16	2	5½	204.0	42.74	G
P60-20M-230	M	60	15.038	14.868	1529/32	A-1	1215/16	0	9½	53/16	5/16	9%	2	63/4	21/16	2	5½	234.0	54.44	G
P64-20M-230	M	64	16.041	15.871	1629/32	A-1	1315/16	0	9½	53/16	5/16	9%	2	63/4	211/16	2	5½	270.0	70.49	G
P68-20M-230	N	68	17.032	16.873	1729/32	D-1	14%	0	9½	61/4	3/16	9%	113/16	81/8	1 13/16	27/16	5%	341.0	98.76	G
P72-20M-230	N	72	18.046	17.876	18%	D-1	151%32	0	9½	61/4	3/16	9%	113/16	81/8	1 13/ ₁₆	27/16	5%	410.0	127.3	G
P80-20M-230	N	80	20.051	19.881	20%	D-2	17%	12	9½	61/4	3/16	9%	113/16	81/8	1 13/16	27/16	5%	343.0	128.9	G
P90-20M-230	N	90	22.557	22.387	2313/32	D-2	207/16	12	9½	61/4	3/16	9%	113/16	81/8	113/16	27/16	5%	398.0	187.5	G
P112-20M-230	N	112	28.071	27.901	_	D-2	261/4	12	9½	61/4	3/16	9%	113/16	81/8	113/16	27/16	5%	664.0	368.8	G
P144-20M-230	Р	144	36.092	35.922	_	D-3	341/4	14	9½	7/4	15/16	9%	15/16	9%	15/16	215/16	7	886.0	637.1	G
P168-20M-230	Р	168	42.107	41.937	_	D-3	401/4	14	9½	$7y_4$	15/16	9%	15/16	9%	1 5/ ₁₆	215/16	7	934.0	967.5	G
P192-20M-230	W	192	48.122	47.952	_	G-3	46	17	9½	9	1	9%	1½	11%	%	4	8½	1429.0	2203	G
P216-20M-230	W	216	54.136	53.958		G-3	52	17	9½	9	1	9%	1½	11%	%	4	8½	1317.0	2576	G
							290mn	1 (11.42	in) Wi	de Belt	s (20M-	290)								
P52-20M-290	N	52	13.033	12.863	13¾	A-1	1013/16	0	11%	61/4	1/2	121/4	2½	81/8	3½	27/16	5%	202.0	37.46	G
P56-20M-290	N	56	14.036	13.856	143/4	A-1	11%	0	11%	61/4	1/2	121/4	2½	81/8	3½	27/16	5%	237.0	50.16	G
P60-20M-290	N	60	15.038	14.868	1529/32	A-1	13	0	11%	61/4	1/2	121/4	2½	81/8	3½	27/16	5%	276.0	65.49	G
P64-20M-290	N	64	16.041	15.871	1629/32	A-1	14	0	11%	61/4	1/2	121/4	2½	81/8	3½	27/16	5%	320.0	84.94	G
P68-20M-290	N	68	17.032	16.873	1729/32	A-1	1415/16	0	11%	61/4	1/2	121/4	2½	81/8	3½	27/16	5%	368.0	109.1	G
P72-20M-290	N	72	18.046	17.876	18%	A-2	151%2	12	11%	61/4	1/2	121/4	2½	81/8	3½	27/16	5%	404.0	120.6	G
P80-20M-290	N	80	20.051	19.881	20%	A-2	1729/32	12	11%	61/4	1/2	121/4	2½	81/8	3½	27/16	5%	376.0	146.7	G
P90-20M-290	N	90	22.557	22.387	2313/32	A-2	20½	12	11%	61/4	1/2	121/4	21/2	81/8	3½	27/16	5%	431.0	210.6	G
P112-20M-290	Р	112	28.071	27.901	—	A-2	26%	14	11%	7/4	1/4	121/4	21/2	9%	2½	215/16	7	799.0	447.8	G
P144-20M-290	Р	144	36.092	35.922	_	A-3	34	14	11%	7/4	1/4	121/4	21/2	9%	2½	215/16	7	1004.00	818.9	G
P168-20M-290	W	168	42.107	41.937	—	A-3	40	17	11%	9	3/16	121/4	211/16	11%	9/ ₁₆	4	8½	1410.0	1669	G
P192-20M-290	W	192	48.122	47.952	_	A-3	46	17	11%	9	3/16	121/4	211/16	11%	9/16	4	8½	1552.0	2491	G
P216-20M-290	W	216	54.136	53.958	_	A-3	52	17	11%	9	3/16	121/4	211/16	11%	9/ ₁₆	4	8½	1441.0	2991	G
							340mm	n (13.39	in) Wi	de Belt:	s (20M-	340)								
P52-20M-340	N	52	13.033	12.863	13¾	A-1	1013/16	0	13%	61/4	1/2	141/4	2½	81/8	5½	27/16	5%	219.0	41.49	G
P56-20M-340	N	56	14.036	13.856	143/4	A-1	11%	0	13%	61/4	1/2	141/4	21/2	81/8	5½	27/16	5%	258.0	55.14	G
P60-20M-340	N	60	15.038	14.868	1529/32	A-1	131/16	0	13%	61/4	1/2	141/4	2½	81/8	5½	27/16	5%	294.0	70.61	G
P64-20M-340	N	64	16.041	15.871	1629/32	A-1	141/16	0	13%	61/4	1/2	141/4	2½	8½	5½	27/16	5%	339.0	91.26	G
P68-20M-340	N	68	17.032	16.873	1729/32	A-1	15	0	13%	61/4	1/2	141/4	2½	8%	5½	27/16	5%	389.0	117.1	G
P72-20M-340	N	72	18.046	17.876	18%	A-2	151%2	12	13%	61/4	1/2	141/4	2½	8%	5½	27/16	5%	438.0	133.5	G
P80-20M-340	Р	80	20.051	19.881	20%	A-2	18	14	13%	7/4	11/4	141/4	3½	93/8	3½	215/16	7	462.0	183.9	G
P90-20M-340	Р	90	22.557	22.387	2313/32	A-2	20%	14	13%	71/4	11/4	141/4	3½	93/8	3½	215/16	7	507.0	245.1	G
P112-20M-340	P	112	28.071	27.901	- 732	A-2	263/32	14	13%	7/4	1/4	141/4	3½	9%	3½	215/16	7	870.0	492.1	G
P144-20M-340	W	144	36.092	35.922	_	A-3	34	17	13%	9	1/8	141/4	25%	11%	25/8	4	8½	1215.0	982.1	G
P168-20M-340	W	168	42.107	41.937	_	A-3	40	17	13%	9	1/8	141/4	25%	11%	25/8	4	81/2	1514.0	1829	G
P192-20M-340	S	192	48.122	47.952	_	D-3	46	19	13%	12	23/8	141/4	11/8	151/4	1/8	5½	10	1817.0	2847	G
P216-20M-340	S	216	54.136	53.958	_	D-3	51%	19	13%	12	2%	141/4	11/8	151/4	11/8	5%	10	1717.0	3625	G

 $^{{}^{\}dagger}\mbox{Weight}$ shown is for sprocket without bushing.

G = Gray Iron

Details shown which do not affect drive function may be changed without notification.



Gates PowerGrip® Timing Belt Pulleys

0.200" Pitch, XL

For $\frac{1}{4}$ " and $\frac{3}{8}$ " Wide Belts

Pulley Designation	Number of Grooves	Pitch Diameter (in)	Outside Diameter (in)
10XL037	10	.637	.617
11XL037	11	.700	.680
12XL037	12	.764	.744
14XL037	14	.891	.871
15XL037	15	.955	.935
16XL037	16	1.019	.999
18XL037	18	1.146	1.126
20XL037	20	1.273	1.253
21XL037	21	1.337	1.317
22XL037	22	1.401	1.381
24XL037	24	1.528	1.508
28XL037	28	1.783	1.763
30XL037	30	1.910	1.890
32XL037	32	2.037	2.017
36XL037	36	2.292	2.272
40XL037	40	2.546	2.526
42XL037	42	2.674	2.654
44XL037	44	2.801	2.781
48XL037	48	3.056	3.036
60XL037	60	3.820	3.800
72XL037	72	4.584	4.564

0.375" Pitch, L

For 1/2" Wide Belts

Pulley Designation	Number of Grooves	Pitch Diameter (in)	Outside Diameter (in)
10L050	10	1.194	1.164
12L050	12	1.432	1.402
14L050	14	1.671	1.641
16L050	16	1.910	1.880
17L050	17	2.029	1.999
18L050	18	2.149	2.119
19L050	19	2.268	2.238
20L050	20	2.387	2.357
21L050	21	2.507	2.477
22L050	22	2.626	2.596
24L050	24	2.865	2.835
26L050	26	3.104	3.074
28L050	28	3.342	3.312
30L050	30	3.581	3.551
32L050	32	3.820	3.790
40L050	40	4.775	4.745
48L050	48	5.730	5.700
60L050	60	7.162	7.132
72L050	72	8.594	8.564
84L050	84	10.027	9.997

0.375" Pitch, L

For 3/4" Wide Belts

/4						
Pulley Designation	Number of Grooves	Pitch Diameter (in)	Outside Diameter (in)			
12L075	12	1.432	1.402			
14L075	14	1.671	1.641			
16L075	16	1.910	1.880			
17L075	17	2.029	1.999			
18L075	18	2.149	2.119			
19L075	19	2.268	2.238			
20L075	20	2.387	2.357			
21L075	21	2.507	2.477			
22L075	22	2.626	2.596			
24L075	24	2.865	2.835			
26L075	26	3.104	3.074			
28L075	28	3.342	3.312			
30L075	30	3.581	3.551			
32L075	32	3.820	3.790			
40L075	40	4.775	4.745			
48L075	48	5.730	5.700			
60L075	60	7.162	7.132			
72L075	72	8.594	8.564			
84L075	84	10.027	9.997			

0.375" Pitch, L

For 1" Wide Belts

Pulley Designation	Number of Grooves	Pitch Diameter (in)	Outside Diameter (in)
14L100	14	1.671	1.641
16L100	16	1.910	1.880
17L100	17	2.029	1.999
18L100	18	2.149	2.119
19L100	19	2.268	2.238
20L100	20	2.387	2.357
21L100	21	2.507	2.477
22L100	22	2.626	2.596
24L100	24	2.865	2.835
26L100	26	3.104	3.074
28L100	28	3.342	3.312
30L100	30	3.581	3.551
32L100	32	3.820	3.790
40L100	40	4.775	4.745
48L100	48	5.730	5.700
60L100	60	7.162	7.132
72L100	72	8.594	8.564
84L100	84	10.027	9.997

0.500" Pitch, H

For 3/4" and 1" Wide Belts

* *							
Pulley Designation	Number of Grooves	Pitch Diameter (in)	Outside Diameter (in)				
14H100	14	2.228	2.174				
16H100	16	2.546	2.492				
18H100	18	2.865	2.811				
20H100	20	3.183	3.129				
22H100	22	3.501	3.447				
24H100	24	3.820	3.766				
26H100	26	4.138	4.084				
28H100	28	4.456	4.402				
30H100	30	4.775	4.721				
32H100	32	5.093	5.039				
40H100	40	6.366	6.312				
48H100	48	7.639	7.585				
60H100	60	9.549	9.495				
72H100	72	11.459	11.405				
84H100	84	13.369	13.315				
96H100	96	15.279	15.225				
120H100	120	19.099	19.045				

0.500" Pitch, H

For 11/2" Wide Belts

Pulley Designation	Number of Grooves	Pitch Diameter (in)	Outside Diameter (in)
14H150	14	2.228	2.174
16H150	16	2.546	2.492
18H150	18	2.865	2.811
20H150	20	3.183	3.129
22H150	22	3.501	3.447
24H150	24	3.820	3.766
26H150	26	4.138	4.084
28H150	28	4.456	4.402
30H150	30	4.775	4.721
32H150	32	5.093	5.039
40H150	40	6.366	6.312
48H150	48	7.639	7.585
60H150	60	9.549	9.495
72H150	72	11.459	11.405
84H150	84	13.369	13.315
96H150	96	15.279	15.225
120H150	120	19.099	19.045

0.500" Pitch, H

For 2" Wide Belts

Pulley Designation	Number of Grooves	Pitch Diameter (in)	Outside Diameter (in)
16H200	16	2.546	2.492
18H200	18	2.865	2.811
20H200	20	3.183	3.129
22H200	22	3.501	3.447
24H200	24	3.820	3.766
26H200	26	4.138	4.084
28H200	28	4.456	4.402
30H200	30	4.775	4.721
32H200	32	5.093	5.039
40H200	40	6.366	6.312
48H200	48	7.639	7.585
60H200	60	9.549	9.495
72H200	72	11.459	11.405
84H200	84	13.369	13.315
96H200	96	15.279	15.225
120H200	120	19.099	19.045

0.500" Pitch, H

For 3" Wide Belts

Pulley Designation	Number of Grooves	Pitch Diameter (in)	Outside Diameter (in)
16H300	16	2.546	2.492
18H300	18	2.865	2.811
20H300	20	3.183	3.129
22H300	22	3.501	3.447
24H300	24	3.820	3.766
26H300	26	4.138	4.084
28H300	28	4.456	4.402
30H300	30	4.775	4.721
32H300	32	5.093	5.039
40H300	40	6.366	6.312
48H300	48	7.639	7.585
60H300	60	9.549	9.495
72H300	72	11.459	11.405
84H300	84	13.369	13.315
96H300	96	15.279	15.225
120H300	120	19.099	19.045

Sprocket Specifications

Sprocket Tolerance Specifications

PowerGrip® GT®2 sprockets are made to close tolerances. Modifications such as reboring may result in unsatisfactory drive performance. Strict adherence to the standard tolerances (as shown in table below) is highly recommended.

Sprocket Outside Diameter and Pitch

	Outside	Pitch To Pitch Tolerance (in)			
Outside Diameter Range (in)	Diameter Tolerance (in)	Adjacent Grooves	Accumulative Over 90 Degrees		
Over 2.000 to and including 4.000	+ 0.004 - 0.000	± 0.001	± 0.0045		
Over 4.000 to and including 7.000	+ 0.005 - 0.000	± 0.001	± 0.005		
Over 7.000 to and including 12.000	+ 0.006 - 0.000	± 0.001	± 0.006		
Over 12.000 to and including 20.000	+ 0.007 - 0.000	± 0.001	± 0.0065		
Over 20.000	+ 0.008 - 0.000	± 0.001	± 0.0075		

Sprocket Runout

Radial Runout*

Outside D	iameter	Total Eccentricity Total Indicator Reading			
(in) (mm)		(in)	(mm)		
Up to 2	50	0.0025	0.06		
Over 2 to 4	50 100	0.003	0.08		
Over 4 to 8	100 200	0.004	0.10		
Over 8	200	.0005 per inch O.D. over 8"	.013 per mm O.D. over 200mm		
		(may not exceed face	e diameter tolerance)		

^{*} Total Indicator Reading

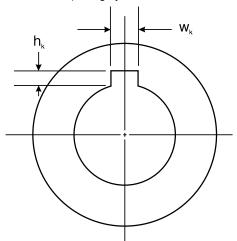
Axial Runout*

Sprocket and Bushing Keyseat

•	•		
Shaft Diameter (in)	Width w _k † (in)	Depth, h _k (in) + 0.015 0.000	
Up through 1/16 (0.44)	³ / ₃₂ (0.0938)	3/ ₆₄ (0.047)	
Over $\frac{1}{16}$ (0.44) to and incl. $\frac{9}{16}$ (0.56)	1/8 (0.125)	½ ₁₆ (0.062)	
Over $\frac{9}{16}$ (0.56) to and incl. $\frac{7}{8}$ (0.88)	3/ ₁₆ (0.1875)	³ / ₃₂ (0.094)	
Over $\frac{7}{8}$ (0.88) to and incl. $1\frac{1}{4}$ (1.25)	1/4 (0.250)	1/8 (0.125)	
Over $1\frac{1}{4}$ (1.25) to and incl. $1\frac{3}{8}$ (1.38)	5/16 (0.3125)	5/32 (0.156)	
Over 1¾ (1.38) to and incl. 1¾ (1.75)	3/ ₈ (0.375)	3/16 (0.188)	
Over $1\frac{3}{4}$ (1.75) to and incl. $2\frac{1}{4}$ (2.25)	1/2 (0.500)	1/4 (0.250)	
Over $2\frac{1}{4}$ (2.25) to and incl. $2\frac{3}{4}$ (2.75)	5/8 (0.625)	⁵ / ₁₆ (0.312)	
Over $2\frac{3}{4}$ (2.75) to and incl. $3\frac{1}{4}$ (3.25)	3/4 (0.750)	3/ ₈ (0.375)	
Over $3\frac{1}{4}$ (3.25) to and incl. $3\frac{3}{4}$ (3.75)	½ (0.875)	7/16 (0.438)	
Over 3¾ (3.75) to and incl. 4½ (4.50)	1 (1.000)	1/2 (0.500)	
Over $4\frac{1}{2}$ (4.50) to and incl. $5\frac{1}{2}$ (5.50)	1½ (1.250)	5/8 (0.625)	

[†]Tolerance on width, W_k

For width up through 1/2 (0.500) + 0.002, 0.000 inches For width over 1/2 (0.500) up through 1 (1.000) . . + 0.003, 0.000 inches For width over 1 (1.000) + 0.004, 0.000 inches



Balancing

Stock Sprockets are statically balanced per MPTA (Mechanical Power Transmission Association) Standard Practice for Pulley Balancing SPB-86 using the weight based on the following two criteria:

- 1. Balance limit (ounces) = Sprocket Weight (lb) x 0.016; or
- 2. 0.176 ounce (5 grams), whichever is greater.

Caution: Stock sprockets should not be used on drives where rim surface speeds exceed 6,500 fpm. Sprocket construction and materials will determine the dynamic balancing requirements of the sprocket(s) where rim surface speeds exceed 6,500 fpm.

Sprocket Tooth Profile and Surface Quality

The PowerGrip GT2 sprocket tooth profile was designed and developed exclusively by The Gates Rubber Company to operate with the Gates PowerGrip GT2 Belt. See Engineering Section II-3, Tooth Profile, on page 137 for a complete discussion of the performance characteristics of this new tooth profile. The tooth surface should be free of any surface defects and should be 80 microinches finish or better.

Sprocket Blanks

Sprocket blanks can be grooved by Gates for specially designed, made-to-order sprockets. If those sprockets are supplied in blank form, Gates can perform the "grooving" operation. The blank diameter must be 0.050" larger than the finished sprocket O.D. Contact your local Gates Representative for additional details.

^{*} Total Indicator Reading

Recommended Re-bore Specifications and Instructions

For Minimum Plain Bore (MPB) Sprockets

When using MPB PowerGrip® GT®2 sprockets in power transmission systems, important guidelines should be followed for proper product finishing and application. Due to the high load carrying capacity and high operating tensions often found in PowerGrip GT2 belt drive systems, it is imperative to use and adhere to industry standard practices.

When finishing MPB sprockets for high performance belt drive systems, care should be taken to ensure proper functionality and performance. General re-bore instructions and specifications are as follows:

- Materials used in PowerGrip GT2 sprockets are steel, gray iron, and ductile iron. The materials used may vary with the size of the sprocket. See the Sprocket Specification Tables, pages 101 thru 111 for specific materials.
- 2. The maximum bore diameter specified by the manufacturer for each sprocket size should NOT be exceeded, or a keyway used which reduces the hub thickness to less than its minimum allowable value. See the Sprocket Specification Tables for a listing of recommended bore ranges by sprocket size. Bores exceeding the maximum recommended value for a particular sprocket size can adversely affect the structural integrity, thereby reducing their load-carrying capability.

The minimum metal thickness between the keyway and hub O.D. should be no less than the set screw diameter specified for the corresponding sprocket size. See Figure 1. A listing of minimum set screw diameters is included below.

P18-5MGT - 8-32 P19-5MGT thru P22-5MGT -10-32 P23-5MGT thru P32-5MGT -1/4" P34-5MGT thru P38-5MGT -5/16" P40-5MGT thru P50-5MGT -3/8" P28-14MGT thru P29-14MGT -7/16" P36-14MGT thru P38-14MGT -5/8"

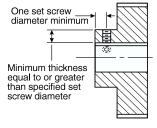


Figure 1 — Minimum Hub Thickness And Set Screw Placement Guidelines

3. The fit between a finished sprocket bore and its mating shaft in a power transmission system must not allow relative movement between the bore and the shaft when the drive is subjected to belt tension and torque loads. This is accomplished, in the case of plain bore sprockets, with the use of set screws and keys and by controlling the fit or clearance between the sprocket bore and its mating shaft. Cyclical, pulsating, or reversing loads may wear the sprocket bore and/or keyway due to the relative movement between the contacting surfaces of the shaft and the bore. The resulting wear may increase the clearance further, if an interference fit is not used.

In order to maximize the performance of high capacity belt drives using plain bore style sprockets, the following for recommendations presented in Table 1 should be followed:

Class 1 Clearance Fits should be used when the transmitted load is smooth in nature.

Interference Fits should be used for PowerGrip GT2 curvilinear drives *transmitting cyclical*, *pulsating*, *or reversing loads*.

Table 1 - Recommended Shaft / Bore Fits (Inches)

		Clearai	nce Fits		Interfere	Range (Minus)		
		Class 1- Lo	Smooth ad	C],	
Nominal Bore Range Over - To (Incl.)	Shaft Tol. (minus)	Bore Tol. (Plus)	Fit Tol. (Plus)	Bore To Rai (Min	ige Ra		nge	
0.4375 - 0.5626	0.0005	0.0010	0.0015	0.0005	0.0010	0.0000	0.0010	
0.5625 - 0.8750	0.0005	0.0010	0.0015	0.0005	0.0010	0.0000	0.0010	
0.8750 - 1.2500	0.0005	0.0010	0.0015	0.0005	0.0010	0.0000	0.0010	
1.2500 - 1.3750	0.0005	0.0010	0.0015	0.0005	0.0010	0.0000	0.0010	
1.3750 - 1.500	0.0005	0.0010	0.0015	0.0005	0.0010	0.0000	0.0010	
1.5000 - 1.7500	0.0010	0.0010	0.0020	0.0010	0.0020	0.0000	0.0020	
1.7500 - 2.0000	0.0010	0.0010	0.0020	0.0010	0.0020	0.0000	0.0020	
2.0000 - 2.2500	0.0010	0.0015	0.0025	0.0010	0.0020	0.0000	0.0020	
2.2500 - 2.7500	0.0010	0.0015	0.0025	0.0010	0.0020	0.0000	0.0020	
2.7500 - 3.0000	0.0010	0.0015	0.0025	0.0010	0.0020	0.0000	0.0020	
3.0000 - 3.2500	0.0010	0.0015	0.0025	0.0015	0.0030	0.0005	0.0030	
3.2500 - 3.7500	0.0010	0.0015	0.0025	0.0015	0.0030	0.0005	0.0030	
3.7500 - 4.0000	0.0010	0.0015	0.0025	0.0015	0.0030	0.0005	0.0030	
4.0000 - 4.5000	0.0010	0.0015	0.0025	0.0020	0.0035	0.0010	0.0035	
4.5000 - 5.0000	0.0010	0.0015	0.0025	0.0020	0.0035	0.0010	0.0035	
5.0000 - 5.5000	0.0010	0.0015	0.0025	0.0025	0.0040	0.0015	0.0040	
5.5000 - 6.5000	0.0010	0.0015	0.0025	0.0025	0.0040	0.0015	0.0040	

Table 1 was extracted in part from AGMA Standard for Bores and Keyways for Flexible Couplings (Inch Series) AGMA 9002-A86 Table.

 DO NOT chuck or center the sprocket on guide flanges. Soft jaws should be used when chucking on the sprocket teeth. Center (indicate) the sprocket using the sprocket tooth O.D.

If chucked on the Rim I.D. or Hub O.D., the sprocket should be centered with respect to the sprocket tooth O.D. Guide flanges are permanently mounted and should not be removed. If original flanges must be removed, they should be replaced with NEW flanges. New guide flanges should be attached securely with care using mechanical fasteners such as screws. Note: Improper guide flange reassembly may cause serious personal injury and/or mechanical damage.

5. Set screw holes in the sprocket hub must be placed properly for maximum holding strength. For both standard and shallow keyseats, two (2) set screws should be used as illustrated in Figure 2. The total holding strength of the set screws is dependent upon their placement and design. Generally, one screw should be placed directly over the keyway, and the other screw at ninety degrees (90°) from the keyway, or at sixty-five degrees (65°) from the keyway—a more recent practice that improves holding power. Sometimes four set screws (or two pair) are used for increased holding strength.

Recommended Re-bore Specifications and Instructions

For Minimum Plain Bore (MPB) Sprockets

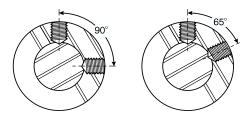


Figure 2 — Set Screw Angles

Each set screw should be placed axially—a minimum of one set screw diameter from the end of the sprocket hub extension. See Figure 1. For recommended set screw

Table 2 — Recommended Tightening Torque Values For Set Screws

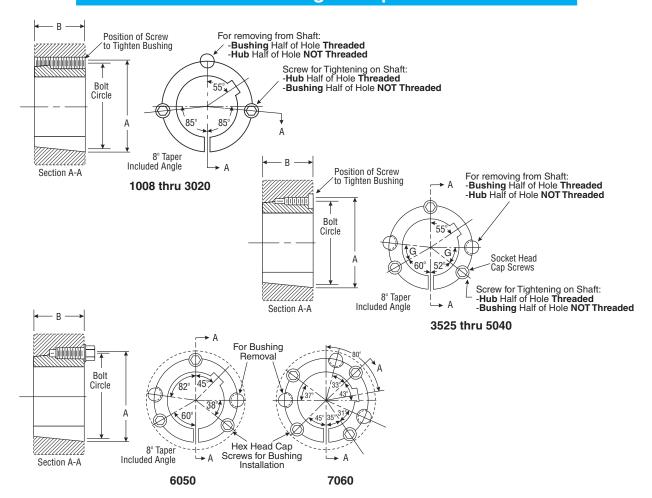
Set Screw Size	Hex Key Size (in)	Approximate Installation Torque Values (lb-in)
8-32	5/64	20
10-32	3/32	35
1/4	1/8	80
5/16	5/32	160
3/8	3/16	275
7/16	7/32	430
1/2	1/4	615
5/8	5/16	1315

tightening torque values see Table 2 below.

- After reboring, the sprocket may require rebalancing. Vibration, noise, reduced bearing life, and undue stresses on the mechanical components in the system could result if improper rebalancing practices are used. See Sprocket Specifications, page 116, for recommended sprocket balancing specifications.
- Standard square or rectangular keys should be used. See page 121 for standard key dimensions.

Refer to Sprocket Specifications, page 116, for specifications and tolerances for sprocket eccentricity, parallelism, and balancing.

Stock Bushings for Sprockets



TAPER-LOCK* BUSHINGS

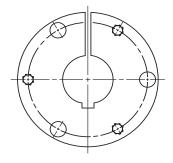
									Bore Range (in)		- Weight Range		
	Torque	Dimensi	ions (in)		Mounting Screws				Max	Bore	(lb)		
Bushing Size	Capacity (lb-in)	A	В	Bolt Circle (in)	Qty.	Size	G (deg)	Min. Bore	Standard Keyseat***	Shallow Keyseat**	Max. Bore	Min. Bore	
1008	1,200	1.386	0.875	1.328	2	1/4 X 1/2	_	0.500	0.875	1.000	0.2	0.3	
1108	1,300	1.511	0.875	1.328	2	1/4 X 1/2	_	0.500	1.000	1.125	0.1	0.3	
1210	3,600	1.875	1.000	1.750	2	3/8 X 5/8	_	0.500	1.250	_	0.4	0.6	
1610	4,300	2.250	1.000	2.125	2	3/8 X 5/8	_	0.500	1.500	1.688	0.5	0.9	
1615	4,300	2.25	1.500	2.125	2	3/8 X 5/8	_	0.500	1.500	1.688	0.6	1.3	
2012	7,150	2.750	1.250	2.625	2	7∕ ₁₆ X 7⁄ ₈	_	0.500	1.875	2.125	0.9	1.7	
2517	11,600	3.375	1.750	3.250	2	½ x 1	_	0.500	2.250	2.688	1.8	3.7	
3020	24,000	4.250	2.000	4.000	2	5/8 x 11/4	_	0.875	2.750	3.250	3.3	6.5	
3525	44,800	5.000	2.500	4.830	3	½ x 1½	39	1.188	3.250	3.938	3.7	10.9	
3535	44,800	5.000	3.500	4.830	3	½ x 1½	39	1.188	3.250	3.938	5.0	14.8	
4030	77,300	5.750	3.000	5.540	3	5/8 x 13/4	40	1.438	3.625	4.438	6.4	17.3	
4040	77,300	5.750	4.000	5.540	3	5/8 x 13/4	40	1.438	3.625	4.438	8.2	22.1	
4535	110,000	6.375	3.500	6.130	3	3∕4 x 2	40	1.938	4.250	4.938	8.8	23.7	
4545	110,000	6.375	4.500	6.130	3	3/4 x 2	40	1.938	4.250	4.938	11.2	30.3	
5040	126,000	7.000	4.000	6.720	3	7⁄8 x 21∕4	37	2.438	4.500	5.000	15.9	31.5	
6050	282,000	9.250	5.000	9.000	3	1½ x 3½	_	4.438	6.000	_	45.0	57.0	
7060	416,000	10.250	6.000	10.000	4	1½ x 3½	_	4.938	7.000	_	66.0	87.0	

^{*} Registered trademark of Reliance Electric. ** Key is furnished with each bushing having a shallow keyseat.

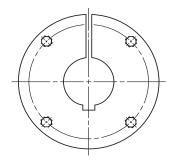
^{***} Keys are not furnished with bushings having standard keyseats.



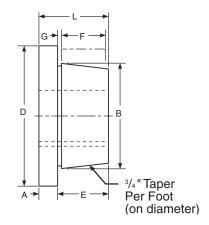
Stock Bushings for Sprockets — continued







Style M through S



QD Bushings

	Torque			Din	nensions	(in)				Ca	p Screws	Bore Ra	nge (in)	Weight R	ange (lb)
Bushing Size	Capacity (lb-in)	A	В	D	E	F	G	L	Bolt Circle	No.	Size	Min.	Max.	Max. Bore	Min. Bore
Е	20,000	0.875	3.825	6.000	1.875	1.625	0.250	2.750	5.000	3	½-13 x 2¾	0.875	3.500	9.0	12.3
F	30,000	1.000	4.438	6.625	2.844	2.500	0.344	3.750	5.625	3	%-12 x 35/8	1.000	4.000*	8.5	19.5
J	45,000	1.125	5.141	7.250	3.563	3.188	0.375	4.625	6.250	3	5/ ₈ -11 x 41/ ₂	1.438	4.500**	12.8	29.7
M	85,000	1.250	6.500	9.000	5.594	5.188	0.406	6.750	7.875	4	3/4-10 x 63/4	2.000	5.500**	47.8	63.8
N	150,000	1.500	7.000	10.000	6.813	6.250	0.563	8.125	8.500	4	⅓-9 x 8	2.438	6.000**	48.0	94.0
Р	250,000	1.750	8.250	11.750	7.875	7.250	0.625	9.375	10.000	4	1-8 x 9½	2.938	7.000**	69.5	133.0
W	375,000	2.000	10.422	15.000	9.500	9.000	0.500	11.375	12.750	4	1½-7 x 11½	4.000	8.500**	164.0	262.0
S	625,000	2.750	12.125	17.750	12.750	12.000	0.750	15.250	15.000	5	1½-7 x 15	5.500	10.000**	133.0	350.0

^{*} Maximum bore without keyway

Bushing Bore and Keyseat Information

Taper Lock and QD Bushings are available from stock with all popular bores within the bore range of each size bushing.

The Taper Lock and QD Bushing Keyseat Dimension charts below list the bore range for each bushing and the appropriate keyseat dimensions.

Where standard keyseats are indicated, refer to the Standard Keyseat Dimensions chart. Where bores do not permit standard depth keyseats, a flat key of the proper dimensions is furnished with the bushing.

Taper-Lock Bushing Keyseat Dimensions

Tupor Look I	busining Reyseat	Dimonorono
Bushing	Bores (in)	Keyseat
1008	0.500 - 0.875	Standard
1000	0.938 - 1.000	1/4 X 1/16
1108	0.500 - 1.000	Standard
1100	1.062 - 1.125	1/4 X 1/ ₁₆
1210	0.500 - 1.250	Standard
1610	0.500 - 1.500	Standard
1010	1.563 - 1.688	3/ ₈ X 1/ ₈
1615	0.500 - 1.500	Standard
1010	1.563 - 1.688	3/8 X 1/8
2012	0.500 - 1.875	Standard
2012	1.938 - 2.125	½ X ¾ ₁₆
2517	0.500 - 2.250	Standard
2017	2.313 - 2.688	5/8 X 3/ ₁₆
3020	0.875 - 2.750	Standard
3020	2.813 - 3.250	3/ ₄ X 1/ ₄
	1.188 - 3.250	Standard
3525	3.313 - 3.750	7/ ₈ X 1/ ₄
	3.875 - 3.938	1 x 1/4
	1.188 - 3.250	Standard
3535	3.313 - 3.750 3.875 - 3.938	7/8 X 1/4
	3.875 - 3.938	1 x 1/ ₄
	1.438 - 3.625	Standard
4030	3.688 - 3.750 3.875 - 4.438	7⁄8 X 1∕4
	3.073 - 4.430	1 x ½
	1.438 - 3.625	Standard
4040	3.688 - 3.750 3.875 - 4.438	7/8 X 1/4
	3.073 - 4.430	1 x ½
	1.938 - 4.250	Standard
4535	4.375 - 4.500 4.750 - 4.938	1 x 1/ ₄
	4.700 4.500	1 ½ x ½
	1.938 - 4.250	Standard
4545	4.375 - 4.500 4.750 - 4.938	1 x 1/ ₄
		1½ x ½
5040	2.438 - 4.500 4.875 - 5.000	Standard
		1½ x ½
6050	4.438 - 6.000	Standard
7060	4.938 - 7.000	Standard

QD Bushing Keyseat Dimensions

•	5 ,	
Bushing	Bores (in)	Keyseat
	0.875 - 2.875	Standard
E	2.938 - 3.250	3/4 X 1/8
	3.375 - 3.500	7⁄8 X 1∕16
	1.000 - 3.250	Standard
F	3.375 - 3.750	₹ X ¾ ₁₆
	3.875 - 3.938	1 x 1/8
J	1.500 - 3.750	Standard
J	3.875 - 4.500	1 x ½
M	2.000 - 4.750	Standard
IVI	4.875 - 5.500	1½ x ½
	2.438 - 5.000	Standard
N	5.125 - 5.500	1 1/4 x 1/4
	5.625 - 6.000	1½ x ½
	2.938 - 5.938	Standard
Р	6.000 - 6.500	1½ x ¼
	7.000	1¾ x ¼
W	4.000 - 8.000	Made to order
S	5.500 - 10.000	Made to order

Standard Keyseat Dimensions

	Keyse	at (in)	Key	(in)
Shaft Diameter (in)	Width	Depth	Width	Depth
0.313 - 0.438	3/32	3/64	3/32	3/32
0.500 - 0.563	1/8	1/16	1/8	1/8
0.625 - 0.875	3/ ₁₆	3/32	3/16	3/16
0.938 - 1.250	1/4	1/8	1/4	1/4
1.313 - 1.375	5/ ₁₆	5/32	5/16	5/16
1.438 - 1.750	3/8	3/16	3/8	3/8
1.813 - 2.250	1/2	1/4	1/2	1/2
2.313 - 2.750	5/8	5/16	5/8	5/8
2.813 - 3.250	3/4	3/8	3/4	3/4
3.313 - 3.750	7∕8	7/16	7/8	7/8
3.813 - 4.500	1	1/2	1	1
4.563 - 5.500	11/4	5/8	11/4	11/4
5.563 - 6.500	1½	3/4	1½	1½
6.563 - 7.500	13/4	3/4	13/4	1½
7.563 - 9.000	2	3/4	2	1½

Bushing Bore and Keyseat Information—continued

Specifying English and Metric Keyways

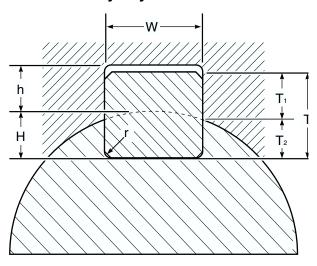
Dimensioning and specifying metric keys and keyways varies significantly from the English system. In the English system, it is the standard practice to dimension the keyway, while in the metric system it is common practice to specify the key size. In the English system, the keyway in the hub is dimensioned by the width and depth at the side, but in the metric system the keyway is dimensioned by the width and the depth measured from the radius of the shaft to the center of the keyway. One of the following methods should be used to specify keyways:

 $\begin{tabular}{lll} \textbf{English:} & \textbf{Metric:} \\ W x T_1 \ Keyway & W x T \ Key & W x T \ Keyway \\ \end{tabular}$

Unless otherwise noted, the keyway in the shaft is assumed to be standard. Also, T_1 and T_2 are not necessarily equal.

The metric system does not refer to keyseat or keyway dimensions as does the English system. Instead, dimensions are given for the key itself which is rectangular in shape, not square, as in the English system. The correct terminology when ordering metric bored bushings with millimeter keyways will be either of the following:

- 1. Specify "standard Keyway"
- 2. Customer to specify keysize (keyseat to be standard size in shaft)



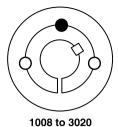
Metric Bore and Key Dimensions for Taper-Lock Bushings

Bushing	Bore (mm)	Keyway (WxT) (mm)	Key Size (ref.) (mm)
2409	14, 16	5 X 2.3	5 X 5
1008	18, 19, 20, 22	6 X 2.8	6 X 6
. 555	24	8 X 3.3	8 X 7
	14*, 16	5 X 2.3	5 X 5
1108	18, 19, 20, 22	6 X 2.8	6 X 6
	24, 25	8 X 3.3	8 X 7
	14, 16	5 X 2.3	5 X 5
1210	18, 19, 20, 22*	6 X 2.8	6 X 6
	24, 25, 28, 30	8 X 3.3	8 X 7
	14*, 16*	5 X 2.3	5 X 5
	18*, 19, 20, 22	6 X 2.8	6 X 6
1610	24, 25, 28, 30	8 X 3.3	8 X 7
	32, 35, 38	10 X 3.3	10 X 8
	40	12 X 3.3	12 X 8
	14, 16	5 X 2.3	5 X 5
	18, 19, 20, 22	6 X 2.8	6 X 6
2012	24, 25, 28, 30	8 X 3.3	8 X 7
	32, 35, 38	10 X 3.3	10 X 8
	40, 42	12 X 3.3	12 X 8
	45, 48*	14 X 3.8	14 X 9
	14, 16	5 X 2.3	5 X 5
	18, 19*, 20, 22	6 X 2.8	6 X 6
	24, 25, 28, 30	8 X 3.3	8 X 7
2517	32, 35, 38	10 X 3.3	10 X 8
	40, 42	12 X 3.3	12 X 8
	45, 48, 50	14 X 3.8	14 X 9
	55	16 X 4.3	16 X 10
	60, 65*	18 X 4.4	18 X 11
	24, 25, 28, 30*	8 X 3.3	8 X 7
	32*, 35*, 38*	10 X 3.3	10 X 8
	40, 42*	12 X 3.3	12 X 8
3020	45, 48, 50	14 X 3.8	14 X 9
	55	16 X 4.3	16 X 10
	60, 65	18 X 4.4	18 X 11
	70*, 75*	20 X 4.9	20 X 12

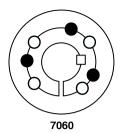
^{*} Non-stock, made to order bushing



Taper-Lock Type Sprocket Installation and Removal







To Install TAPER-LOCK Type Bushings

- Clean the shaft, bore of bushing, outside of bushing and the sprocket hub bore of all oil, paint and dirt. File away any burrs.
 - **Note**: The use of lubricants can cause sprocket breakage. USE NO LUBRICANTS IN THIS INSTALLATION.
- Insert the bushing into the sprocket hub. Match the hole pattern, not threaded holes (each complete hole will be threaded on one side only).
- 3, LIGHTLY oil the set screws and thread them into those half-threaded holes indicated by on the diagram above.
 - **Note**: Do not lubricate the bushing taper, hub taper, bushing bore, or the shaft. Doing so could result in sprocket breakage.
- With the key in the shaft keyway, position the assembly onto the shaft allowing for small axial movement of the sprocket which will occur during the tightening process.
 - **Note**: When mounting sprockets on a vertical shaft, precautions must be taken to positively prevent the sprocket and/or bushing from falling during installation.

- Alternately torque the set screws until the sprocket and bushing tapers are completely seated together (at approximately half of the recommended torque; see table below).
 - **Note**: Do not use worn hex key wrenches. Doing so may result in a loose assembly or may damage screws.
- Check the alignment and sprocket axial runout (wobble), and correct as necessary.
- Continue alternate tightening of the cap screws to the recommended torque values specified in the table below.
- 8. To increase the bushing gripping force, hammer the face of the bushing using a drift or sleeve (Do Not Hit The Bushing Directly With The Hammer).
- 9. Re-torque the bushing screws after hammering.
- Recheck all screw torque values after the initial drive run-in, and periodically thereafter. Repeat steps 5 through 9 if loose.

To Remove

- 1. Loosen and remove all mounting screws.
- Insert screws into all jack screw holes indicated by "•" (see figure above).
- Loosen the bushing by alternately tightening the screws in small but equal increments until the tapered sprocket and bushing surfaces disengage.

Sprocket Installation

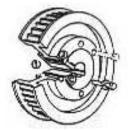
Bushing	Вс	olts	Torque	Wrench
Style	Qty.	Size	lb-ft	lb-in
1008	2	1/4-20 x 1/2	4.6	55
1108	2	1/4-20 x 1/2	4.6	55
1210	2	3/8-16 x 5/8	14.6	175
1610	2	3/8-16 x 5/8	14.6	175
1615	2	3/8-16 x 5/8	14.6	175
2012	2	7/16-14 x 7/8	23.3	280
2517	2	1/2-13 x 1	35.8	430
3020	2	5/8-11 x 1 1/4	66.7	800
3525	3	1/2-13 x 1 1/2	83.3	1000
3535	3	1/2-13 x 1 1/2	83.3	1000
4030	3	5/8-11 x 1 3/4	141.7	1700
4040	3	5/8-11 x 1 3/4	142	1700
4535	3	3/4-10 x 2	204.2	2450
4545	3	3/4-10 x 2	204	2450
5040	3	7/8-9 x 2 1/4	258	3100
6050	3	1 1/4-7 x 3 1/2	652	7820
7060	4	1 1/4-7 x 3 1/2	652	7820

Caution: Excessive bolt torque can cause sprocket and/or bushing breakage.

Note: To insure proper bushing/sprocket performance, full bushing contact on the shaft is recommended.



QD Type Sprocket Installation and Removal







Reverse Mount

To Install QD Type Bushings

 Clean the shaft, bore of bushing, outside of bushing and the sprocket hub bore of all oil, paint and dirt. File away any burrs.

Note: The use of lubricants can cause sprocket breakage. USE NO LUBRICANTS IN THIS INSTALLATION.

2. For Position One or Position Two (whichever applies), line up the unthreaded bushing holes C with the threaded sprocket hub holes T. Lightly oil the cap screws and thread them (with lock washers) into the sprocket hub engaging only 2 or 3 threads. Screw heads should be mounted outside to allow for disassembly. When mounting sprockets on M through W bushing sizes, position the threaded jack screw hole (J) as far from the bushing saw slot as possible to reduce the possibility of bushing breakage during disassembly.

Note: Do not lubricate the bushing taper, hub taper, bushing bore, or the shaft. Doing so could result in sprocket breakage.

3. With the key in the shaft keyway, position the assembly onto the shaft allowing for small axial movement of the sprocket which will occur during the tightening process. When installing large or heavy parts in Position One (see figure above), it may be easier to mount the key and bushing onto the shaft first then place the sprocket on the bushing and align the holes.

Note: When mounting sprockets on a vertical shaft, precautions must be taken to positively prevent the sprocket and/or bushing from falling during installation.

- Alternately tighten the cap screws until the sprocket and bushing tapers are completely seated together (at approximately half the recommended torque).
- Check the alignment and sprocket runout (wobble), and correct as necessary.
- Continue alternate tightening of the cap screws to the recommended torque values specified in the table below.

Note: Excessive cap screw torque can cause sprocket and/or bushing breakage. When properly mounted, there must be a gap between bushing flange and sprocket after the screws are tightened.

Tighten the set screw, when available, to hold the key securely during operation.

To Remove

- 1. Loosen and remove all mounting screws.
- Insert cap screws into all threaded jack screw holes J (see figure above).
- Loosen the bushing by first tightening the screw furthest from the bushing saw slot, then alternately tighten remaining screws. Keep tightening the screws in small but equal incre-

ments until the tapered sprocket and bushing surfaces disengage.

Note: Excessive or unequal pressure on the cap screws can break the bushing flange, making removal nearly impossible without destroying the sprocket.

Sprocket Installation

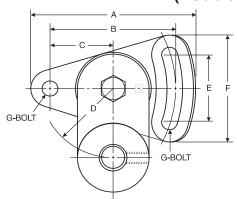
Bushing	Во	olts	Torque Wrench				
Style	Qty.	Size	lb-ft	lb-in			
Н	2	1/4 x 3/4	7.9	95			
JA	3	10-24 x 1	4.5	54			
SH & SDS	3	1/4-20 x 1 3/8	9.0	108			
SD	3	1/4-20 x 1 7/8	9.0	108			
SK	3	5/16-18 x 2	15.0	180			
SF	3	3/8-16 x 2	30.0	360			
E	3	1/2-13 x 2 3/4	60.0	720			
F	3	9/16-12 x 3 5/8	75.0	900			
J	3	5/8-11 x 4 1/2	135.0	1620			
M	4	3/4-10 x 6 3/4	225.0	2700			
N	4	7/8-9 x 8	300.0	3600			
P	4	1-8 x 9 1/2	450.0	5400			
W	4	1 1/8-7 x 11 1/2	600.0	7200			
S	5	1 1/4-7 x 15 1/2	750.0	9000			

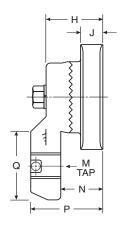
Caution: Excessive bolt torque can cause sprocket and/or bushing breakage.

Note: To insure proper bushing/sprocket performance, full bushing contact on the shaft is recommended.

Belt Drive Tensioners

(Double Adjustable)





Specifications

Tensioner Product No.	Part No.	A (in)	B (in)	C (in)	D (in)	E (in)	F (in)	G (in)	H (in)	J (in)	M (Threads)	N (in)	P (in)	Q (in)	Weight (lb)
7720-2010	10-IDL-BRAK2	4.63	3.50	1.75	2.00	2.06	3.06	0.38	1.50	0.56	3/4-16	1.00	1.88	1.75	2.7
7720-2020	20-IDL-BRAK2	6.94	5.25	2.63	5.00	3.00	4.56	0.63	2.38	1.00	1-14	1.63	2.94	2.75	10.8

5mm Pitch Sprocket Diameters

No. of	Diameters	mm (in)	No. of	Diameters	mm (in)	No. of	Diameters	mm (in)	No. of	Diameters	mm (in)	No. of	Diameters	mm (in)
Grooves	P.D.	0.D.	Grooves	P.D.	0.D.	Grooves	P.D.	0.D.	Grooves	P.D.	0.D.	Grooves	P.D.	0.D.
18	28.65	27.51	47	74.80	73.66	76	120.96	119.82	105	167.11	165.97	134	213.27	212.13
	1.128 30.24	1.083 29.10		2.945 76.39	2.900 75.25		4.762 122.55	4.717 121.41		6.579 168.70	6.534 167.56		8.396 214.86	8.351 213.72
19	1.191	1.146	48	3.008	2.963	77	4.825	4.780	106	6.642	6.597	135	8.459	8.414
	31.83	30.69		77.99	76.85		124.14	123.00		170.30	169.16		216.45	215.31
20	1.253	1.208	49	3.070	3.025	78	4.887	4.842	107	6.705	6.660	136	8.522	8.477
21	33.42	32.28	50	79.58	78.44	79	125.73	124.59	108	171.89	170.75	137	218.04	216.90
	1.316	1.271	30	3.133	3.088	13	4.950	4.905	100	6.767	6.722	107	8.584	8.539
22	35.01	33.87	51	81.17	80.03	80	127.32	126.18	109	173.48	172.34	138	219.63	218.49
	1.379 36.61	1.334 35.47		3.196 82.76	3.151 81.62		5.013 128.92	4.968 127.78		6.830 175.07	6.785 173.93		8.647 221.23	8.602 220.09
23	1.441	35.47 1.396	52	3.258	3.213	81	5.075	5.030	110	6.893	6.848	139	8.710	8.665
	38.20	37.06		84.35	83.21		130.51	129.37		176.66	175.52		222.82	221.68
24	1.504	1.459	53	3.321	3.276	82	5.138	5.093	111	6.955	6.910	140	8.772	8.727
25	39.79	38.65	54	85.94	84.80	83	132.10	130.96	112	178.25	177.11	141	224.41	223.27
	1.566	1.521	J-1	3.384	3.339		5.201	5.156	112	7.018	6.973	171	8.835	8.790
26	41.38	40.24	55	87.54	86.40	84	133.69	132.55	113	179.85	178.71	142	226.00	224.86
	1.629 42.97	1.584 41.83		3.446 89.13	3.401 87.99		5.263 135.28	5.218 134.14		7.081 181.44	7.036 180.30		8.898 227.59	8.853 226.45
27	1.692	1.647	56	3.509	3.464	85	5.326	5.281	114	7.143	7.098	143	8.960	8.915
	44.56	43.42		90.72	89.58		136.87	135.73		183.03	181.89		229.18	228.04
28	1.754	1.709	57	3.572	3.527	86	5.389	5.344	115	7.206	7.161	144	9.023	8.978
29	46.15	45.01	58	92.31	91.17	87	138.46	137.32	116	184.62	183.48	145	230.77	229.63
29	1.817	1.772	56	3.634	3.589	67	5.451	5.406	110	7.268	7.223	140	9.086	9.041
30	47.75	46.61	59	93.90	92.76	88	140.06	138.92	117	186.21	185.07	146	232.37	231.23
	1.880	1.835		3.697	3.652		5.514	5.469		7.331	7.286		9.148	9.103
31	49.34 1.942	48.20 1.897	60	95.49 3.760	94.35 3.715	89	141.65 5.577	140.51 5.532	118	187.80 7.394	186.66 7.349	147	233.96 9.211	232.82 9.166
	50.93	49.79		97.08	95.94		143.24	142.10		189.39	188.25		235.55	234.41
32	2.005	1.960	61	3.822	3.777	90	5.639	5.594	119	7.456	7.411	148	9.274	9.229
33	52.52	51.38	62	98.68	97.54	91	144.83	143.69	120	190.99	189.85	149	237.14	236.00
33	2.068	2.023	02	3.885	3.840	91	5.702	5.657	120	7.519	7.474	149	9.336	9.291
34	54.11	52.97	63	100.27	99.13	92	146.42	145.28	121	192.58	191.44	150	238.73	237.59
ļ	2.130	2.085		3.948	3.903	ļ	5.765	5.720		7.582	7.537		9.399	9.354
35	55.70 2.193	54.56 2.148	64	101.86 4.010	100.72 3.965	93	148.01 5.827	146.87 5.782	122	194.17 7.644	193.03 7.599	151	240.32 9.462	239.18 9.417
	57.30	56.16		103.45	102.31		149.61	148.47		195.76	194.62		241.92	240.78
36	2.256	2.211	65	4.073	4.028	94	5.890	5.845	123	7.707	7.662	152	9.524	9.479
37	58.89	57.75	66	105.04	103.90	95	151.20	150.06	124	197.35	196.21	150	243.51	242.37
37	2.318	2.273	00	4.136	4.091	95	5.953	5.908	124	7.770	7.725	153	9.587	9.542
38	60.48	59.34	67	106.63	105.49	96	152.79	151.65	125	198.94	197.80	154	245.10	243.96
	2.381	2.336		4.198	4.153		6.015	5.970		7.832	7.787		9.650	9.605
39	62.07 2.444	60.93 2.399	68	108.23 4.261	107.09 4.216	97	154.38 6.078	153.24 6.033	126	200.54 7.895	199.40 7.850	155	246.69 9.712	245.55 9.667
	63.66	62.52		109.82	108.68		155.97	154.83		202.13	200.99		248.28	247.14
40	2.506	2.461	69	4.324	4.279	98	6.141	6.096	127	7.958	7.913	156	9.775	9.730
41	65.25	64.11	70	111.41	110.27	99	157.56	156.42	128	203.72	202.58	457	249.87	248.73
41	2.569	2.524	70	4.386	4.341	99	6.203	6.158	120	8.020	7.975	157	9.838	9.793
42	66.85	65.71	71	113.00	111.86	100	159.15	158.01	129	205.31	204.17	158	251.46	250.32
	2.632	2.587		4.449	4.404		6.266	6.221		8.083	8.038		9.900	9.855
43	68.44 2.694	67.30 2.649	72	114.59 4.511	113.45 4.466	101	160.75 6.329	159.61 6.284	130	206.90 8.146	205.76 8.101	159	253.06 9.963	251.92 9.918
	70.03	68.89		116.18	115.04		162.34	161.20		208.49	207.35		254.65	253.51
44	2.757	2.712	73	4.574	4.529	102	6.391	6.346	131	8.208	8.163	160	10.026	9.981
15	71.62	70.48	74	117.77	116.63	103	163.93	162.79	132	210.08	208.94			
45	2.820	2.775	74	4.637	4.592	103	6.454	6.409	132	8.271	8.226			
46	73.21	72.07	75	119.37	118.23	104	165.52	164.38	133	211.68	210.54			
	2.882	2.837		4.699	4.654		6.517	6.472		8.334	8.289			

See Page 116 for sprocket O.D. tolerances.

8mm Pitch Sprocket Diameters

No.	Diameters	mm (in)	No. of	Diameters	mm (in)	No. of	Diameters	mm (in)	No. of	Diameters	mm (in)	No. of	Diameters	mm (in)
Grooves	P.D.	0.D.	Grooves	P.D.	0.D.	Grooves	P.D.	0.D.	Grooves	P.D.	0.D.	Grooves	P.D.	0.D.
22	56.02 2.206	54.65 2.152	56	142.60 5.614	141.23 5.560	90	229.18 9.023	227.81 8.969	124	315.76 12.432	314.39 12.378	158	402.34 15.840	400.97 15.786
23	58.57 2.306	57.20 2.252	57	145.15 5.715	143.78 5.660	91	231.73 9.123	230.36 9.069	125	318.31 12.532	316.94 12.478	159	404.89 15.941	403.52 15.887
24	61.12 2.406	59.74 2.352	58	147.70 5.815	146.32 5.761	92	234.28 9.223	232.90 9.169	126	320.86 12.632	319.48 12.578	160	407.44 16.041	406.07 15.987
25	63.66 2.506	62.29 2.452	59	150.24 5.915	148.87 5.861	93	236.82 9.324	235.45 9.270	127	323.41 12.733	322.03 12.678	161	409.98 16.141	408.61 16.087
26	66.21 2.607	64.84 2.553	60	152.79 6.015	151.42 5.961	94	239.37 9.424	238.00 9.370	128	325.95 12.833	324.58 12.779	162	412.53 16.241	411.16 16.187
27	68.75 2.707	67.38 2.653	61	155.34 6.116	153.96 6.062	95	241.92 9.524	240.54 9.470	129	328.50 12.933	327.12 12.879	163	415.08 16.342	413.70 16.288
28	71.30 2.807	69.93 2.753	62	157.88 6.216	156.51 6.162	96	244.46 9.624	243.09 9.570	130	331.04 13.033	329.67 12.979	164	417.62 16.442	416.25 16.388
29	73.85 2.907	72.48 2.853	63	160.43 6.316	159.06 6.262	97	247.01 9.725	245.64 9.671	131	333.59 13.133	332.22 13.079	165	420.17 16.542	418.80 16.488
30	76.39 3.008	75.02 2.954	64	162.97 6.416	161.60 6.362	98	249.55 9.825	248.18 9.771	132	336.14 13.234	334.76 13.180	166	422.72 16.642	421.34 16.588
31	78.94 3.108	77.57 3.054	65	165.52 6.517	164.15 6.463	99	252.10 9.925	250.73 9.871	133	338.68 13.334	337.31 13.280	167	425.26 16.743	423.89 16.689
32	81.49 3.208	80.12 3.154	66	168.07 6.617	166.70 6.563	100	254.65 10.025	253.28 9.971	134	341.23 13.434	339.86 13.380	168	427.81 16.843	426.44 16.789
33	84.03 3.308	82.66 3.254	67	170.61 6.717	169.24 6.663	101	257.19 10.126	255.82 10.072	135	343.77 13.534	342.40 13.480	169	430.35 16.943	428.98 16.889
34	86.58 3.409	85.21 3.355	68	173.16 6.817	171.79 6.763	102	259.74 10.226	258.37 10.172	136	346.32 13.635	344.95 13.581	170	432.90 17.043	431.53 16.989
35	89.13 3.509	87.76 3.455	69	175.71 6.918	174.34 6.864	103	262.29 10.326	260.92 10.272	137	348.87 13.735	347.50 13.681	171	435.45 17.144	434.08 17.090
36	91.67 3.609	90.30 3.555	70	178.25 7.018	176.88 6.964	104	264.83 10.427	263.46 10.372	138	351.41 13.835	350.04 13.781	172	437.99 17.244	436.62 17.190
37	94.22 3.709	92.85 3.655	71	180.80 7.118	179.43 7.064	105	267.38 10.527	266.01 10.473	139	353.96 13.935	352.59 13.881	173	440.54 17.344	439.17 17.290
38	96.77 3.810	95.39 3.756	72	183.35 7.218	181.97 7.164	106	269.93 10.628	268.56 10.573	140	356.51 14.036	355.14 13.982	174	443.09 17.444	441.72 17.390
39	99.31 3.910	97.94 3.856	73	185.89 7.319	184.52 7.265	107	272.47 10.728	271.10 10.673	141	359.05 14.136	357.68 14.082	175	445.63 17.544	444.26 17.491
40	101.86 4.010	100.49 3.956	74	188.44 7.419	187.07 7.365	108	275.02 10.828	273.65 10.771	142	361.60 14.236	360.23 14.182	176	448.18 17.645	446.81 17.591
41	104.41 4.110	103.03 4.056	75	190.99 7.519	189.61 7.465	109	277.57 10.928	276.19 10.874	143	364.15 14.336	362.77 14.282	177	450.73 17.745	449.36 17.691
42	106.95 4.211	105.58 4.157	76	193.53 7.619	192.16 7.565	110	280.11 11.028	278.74 10.974	144	366.69 14.437	365.32 14.383	178	453.27 17.845	451.90 17.791
43	109.50 4.311	108.13 4.257	77	196.08 7.720	194.71 7.666	111	282.66 11.128	281.29 11.074	145	369.24 14.537	367.87 14.483	179	455.82 17.946	454.45 17.892
44	112.05 4.411	110.67 4.357	78	198.63 7.820	197.25 7.766	112	285.21 11.229	283.83 11.175	146	371.79 14.637	370.41 14.583	180	458.37 18.046	456.99 17.992
45	114.59 4.511	113.22 4.457	79	201.17 7.920	199.81 7.866	113	287.75 11.329	286.38 11.275	147	374.33 14.737	372.96 14.683	181	460.91 18.146	459.54 18.092
46	117.14 4.612	115.77 4.558	80	203.72 8.020	202.35 7.966	114	290.30 11.429	288.93 11.375	148	376.88 14.838	375.51 14.784	182	463.46 18.246	462.09 18.192
47	119.68 4.712	118.31 4.658	81	206.26 8.121	2.4.89 8.067	115	292.85 11.529	291.47 11.475	149	379.43 14.938	378.05 14.884	183	466.01 18.347	464.63 18.293
48	122.23 4.812	120.86 4.758	82	208.81 8.221	207.44 8.167	116	295.39 11.630	294.02 11.576	150	381.97 15.038	380.60 14.984	184	468.55 18.447	467.18 18.393
49	124.78 4.912	123.41 4.858	83	211.36 8.321	209.99 8.267	117	297.94 11.730	296.57 11.676	151	384.52 15.138	353.15 15.084	185	471.10 18.547	469.73 18.493
50	127.32 5.013	125.95 4.959	84	213.90 8.421	212.53 8.367	118	300.48 11.830	299.11 11.776	152	387.06 15.239	385.70 15.185	186	473.65 18.647	472.27 18.593
51	129.87 5.113	128.50 5.059	85	216.45 8.522	215.08 8.468	119	303.03 11.930	301.66 11.876	153	389.61 15.339	388.24 15.285	187	476.19 18.748	474.82 18.694
52	132.42 5.213	131.05 5.159	86	219.00 8.622	217.63 8.568	120	305.58 12.031	304.21 11.977	154	392.16 15.439	390.79 15.385	188	478.74 18.848	477.37 18.794
53	134.96 5.314	133.59 5.259	87	221.54 8.722	220.17 8.668	121	308.12 12.131	306.75 12.077	155	394.70 15.510	393.33 15.486	189	481.28 18.948	479.91 18.894
54	137.51 5.414	136.14 5.360	88	224.09 8.822	222.72 8.768	122	310.67 12.231	309.30 12.177	156	397.25 15.640	395.88 15.586	190	483.83 19.048	482.46 18.994
55	140.06 5.514	138.68 5.460	89	226.64 8.923	225.27 8.869	123	313.22 12.331	311.85 12.277	157	399.80 15.740	398.43 15.686	191	486.38 19.149	485.01 19.095

See Page 116 for sprocket O.D. Tolerances.

14mm Pitch Sprocket Diameters

No.	Diameters	mm (in)												
of Grooves	P.D.	0.D.												
28	124.78	121.98	65	289.66	286.87	102	454.55	451.75	139	619.43	616.64	176	784.32	781.52
20	4.912	4.802	00	11.404	11.294	102	17.895	17.785	100	24.387	24.277	170	30.878	30.768
29	129.23 5.088	126.44 4.978	66	294.12 11.579	291.32 11.469	103	459.00 18.071	456.21 17.961	140	623.89 24.562	621.09 24.452	177	788.77 31.054	785.98 30.944
30	133.69	130.90	67	298.57	295.78	104	463.46	460.66	141	628.34	625.55	178	793.23	790.43
	5.263 138.15	5.153 135.35	07	11.755 303.03	11.645 300.24	104	18.246 467.92	18.136 465.12	171	24.738 632.80	24.628 630.01	170	31.228 797.68	31.119 794.89
31	5.439	5.329	68	11.930	11.820	105	18.422	18.312	142	24.913	24.803	179	31.405	31.295
32	142.60	139.81	69	307.49	304.69	106	472.37	469.58	143	637.26	634.46	180	802.14	799.35
	5.614 147.06	5.504 144.27		12.106 311.94	11.996 309.15		18.597 476.83	18.487 474.03		25.089 641.71	24.979 638.92		31.580 806.60	31.470 803.80
33	5.790	5.680	70	12.281	12.171	107	18.773	18.663	144	25.264	25.154	181	31.756	31.646
34	151.52	148.72	71	316.40	313.61	108	481.28	478.49	145	646.17	643.37	182	811.05	808.26
	5.965 155.98	5.855 153.18		12.457 320.86	12.347 318.06	-	18.948 485.74	18.838 482.95		25.440 650.63	25.330 647.83		31.931 815.51	31.821 812.72
35	6.141	6.031	72	12.632	12.522	109	19.124	19.014	146	25.615	25.505	183	32.107	31.997
36	160.43	157.63	73	325.31	322.52	110	490.20	487.40	147	655.08	652.29	184	819.97	817.17
	6.316 164.88	6.206 162.09		12.808 329.77	12.698 326.97		19.299 494.65	19.189 491.86		25.791 659.54	25.681 656.74		32.252 824.42	32.172 821.63
37	6.492	6.382	74	12.983	12.873	111	19.475	19.365	148	25.966	25.856	185	32.458	32.348
38	169.34	166.55	75	334.22	331.43	112	499.11	496.32	149	663.99	661.20	186	828.88	826.08
	6.667 173.80	6.557 171.00		13.158 338.68	13.048 335.89		19.650 503.57	19.540 500.77		26.141 668.45	26.031 665.66		32.633 833.33	32.523 830.54
39	6.842	6.732	76	13.334	13.224	113	19.825	19.715	150	26.317	26.207	187	32.808	32.698
40	178.25	175.46	77	343.14	340.34	114	508.2	505.23	151	672.91	670.11	188	837.79	835.00
	7.018 182.71	6.908 179.92		13.509 347.59	13.399 344.80		20.001 512.48	19.891 509.68		26.492 677.36	26.382 674.57		32.954 842.25	32.874 839.45
41	7.193	7.083	78	13.685	13.575	115	20.176	20.056	152	26.668	26.558	189	33.159	33.049
42	187.17	184.37	79	352.05	349.26	116	516.93	514.14	153	681.82	679.03	190	846.70	843.91
	7.369 191.62	7.259 188.83		13.860 356.51	13.750 353.71		20.352 521.39	20.242 518.60		26.843 686.28	26.733 683.48		33.335 851.16	33.225 848.37
43	7.544	7.434	80	14.036	13.926	117	20.527	20.417	154	27.019	26.909	191	33.510	33.400
44	196.08	193.28	81	360.96	358.17	118	525.85	523.05	155	690.73	687.94	192	855.62	852.82
	7.720 200.53	7.610 197.74		14.211 365.42	14.101 362.63		20.703 530.30	20.593 527.51		27.194 695.19	27.084 692.39		33.686 860.07	33.576 857.28
45	7.895	7.785	82	14.387	14.277	119	20.878	20.768	156	27.370	27.260	193	33.861	33.751
46	204.99	202.20	83	369.88	367.08	120	534.76	531.97	157	699.64	696.85	194	864.53	861.75
	8.071 209.45	7.961 206.65		14.562 374.33	14.452 371.54		21.054 539.22	20.944 536.42		27.545 704.10	27.435 701.31		34.037 868.98	33.927 866.44
47	8.246	8.136	84	14.737	14.627	121	21.229	21.119	158	27.720	27.610	195	34.212	34.112
48	213.90 8.421	211.11 8.311	85	378.79 14.913	375.99 14.803	122	543.67 21.404	540.88 21.294	159	708.56 27.896	705.76 27.786	196	873.44 34.387	870.64 34.277
	218.36	215.57		383.24	380.45	100	548.13	545.34	100	713.01	710.22	407	877.90	875.11
49	8.597	8.487	86	15.068	14.978	123	21.580	21.470	160	28.071	27.961	197	34.553	34.453
50	222.82 8.772	220.02 8.662	87	387.70 15.264	384.91 15.154	124	552.59 21.755	549.79 21.645	161	717.47 28.247	714.68 28.137	198	882.35 34.738	879.55 34.628
	227.27	224.48	00	392.16	389.36	105	557.04	554.25	100	721.93	719.13	100	886.81	884.02
51	8.948	8.838	88	15.439	15.329	125	21.931	21.821	162	28.422	28.312	199	34.914	34.804
52	231.73 9.123	228.94 9.013	89	396.61 15.615	393.82 15.505	126	561.50 22.106	558.70 21.996	163	726.38 28.598	723.59 28.488	200	891.27 35.089	888.47 34.979
53	236.19	233.39	90	401.07	398.28	127	565.95	563.16	164	730.84	728.05	201	895.72	892.94
	9.299	9.189	90	15.790	15.680	127	22.282	22.172	104	28.773	28.663	201	35.265	35.155
54	240.64 9.474	237.85 9.364	91	405.53 15.966	402.73 15.856	128	570.41 22.457	567.62 22.347	165	735.30 28.949	782.50 28.839	202	900.18 35.440	897.38 35.330
55	245.10	242.30	92	409.98	407.19	129	574.87	572.07	166	739.75	736.96	203	904.64	901.85
	9.650 249.55	9.540 246.76	02	16.141 414.44	16.031 411.64	120	22.633 579.32	22.523	100	29.124 744.21	29.014 741.41		35.616 909.09	35.506 906.30
56	9.825	9.715	93	16.316	16.206	130	22.808	576.53 22.689	167	29.299	29.189	204	35.791	35.681
57	254.01	251.22	94	418.90	416.10	131	583.78	580.99	168	748.66	745.87	205	913.55	910.74
	10.000 258.47	9.890 255.67	· ·	16.492 423.35	16.382 420.56		22.983 588.24	22.873 585.44		29.475 753.12	29.365 750.33		35.966 918.00	35.856 915.21
58	10.176	10.066	95	16.667	16.557	132	23.159	23.049	169	29.650	29.540	206	36.142	36.032
59	262.92	260.13	96	427.81	425.01	133	592.69	589.90	170	757.58	754.78	207	922.46	919.66
	10.351 267.38	10.241 264.59		16.843 432.26	16.733 429.47		23.334 597.15	23.224 594.35		29.826 762.03	29.716 759.24		36.317 926.92	36.207 924.13
60	10.527	10.417	97	17.018	16.908	134	23.510	23.400	171	30.001	29.891	208	36.493	36.383
61	271.84	269.04	98	436.72	433.93	135	601.61	598.81	172	766.49	763.70	209	931.37	928.57
	10.702 276.29	10.592 273.50		17.194 441.18	17.084 438.38		23.685 606.06	23.575 603.27		30.177 770.95	30.067 768.15		36.668 935.83	36.558 933.04
62	10.878	10.768	99	17.369	17.259	136	23.861	23.751	173	30.352	30.242	210	36.844	36.734
63	280.75	277.95	100	445.63	442.84	137	610.52	607.72	174	775.40	772.61	211	940.29	937.49
	11.053 285.21	10.943 282.41		17.545 450.09	17.435 447.30		24.036 614.97	23.926 612.18		30.528 779.86	30.418 777.06		37.019 944.74	36.909 941.96
64	11.229	11.119	101	17.720	17.610	138	24.212	24.102	175	30.703	30.593	212	37.195	37.085
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See Page 116 for sprocket O.D. tolerances.



20mm Pitch Sprocket Diameters

No. of	Diameters	mm (in)	No. of	Diameters	mm (in)	No. of	Diameters	mm (in)	No. of	Diameters	mm (in)	No. of	Diameters	mm (in)
Grooves	P.D.	0.D.	Grooves	P.D.	0.D.	Grooves	P.D.	0.D.	Grooves	P.D.	0.D.	Grooves	P.D.	0.D.
34	216.45 8.522	212.13 8.352	70	445.63 17.545	441.32 17.375	106	674.82 26.568	670.50 26.398	142	904.00 35.591	899.68 35.421	178	1133.18 44.614	1128.87 44.444
35	222.82	218.50	71	452.00	447.68	107	681.18	676.87	143	910.37	906.05	179	1139.55	1135.23
33	8.772 229.18	8.602	71	17.795	17.625	107	26.818	26.648	143	35.841	35.671	179	44.854	44.694 1141.60
36	9.023	224.87 8.853	72	458.37 18.046	454.05 17.876	108	687.55 27.069	683.23 26.899	144	916.73 36.092	912.41 35.922	180	1145.92 45.115	44.945
37	235.55	231.23	73	464.73	460.41	109	693.92	689.60	145	923.10	918.78	181	1152.28	1147.96
	9.274 241.92	9.104 237.60		18.297 471.10	18.127 466.78		27.320 700.28	27.150 695.96		36.342 929.46	36.172 925.15		45.365 1158.65	45.195 1154.33
38	9.524	9.354	74	18.547	18.377	110	27.570	27.400	146	36.593	36.423	182	45.616	45.446
39	248.28 9.775	243.96 9.605	75	477.46 18.798	473.15 18.628	111	706.65 27.821	702.33 27.651	147	935.83 36.84	931.51 36.674	183	1165.01 45.867	1160.70 45.697
40	254.65	250.33	76	483.83	479.51	112	713.01	708.70	148	942.20	937.88	184	1171.38	1167.06
	10.026 261.01	9.855 256.70	- 70	19.048 490.20	18.878 485.88		28.071 719.38	27.901 715.06	140	37.094 948.56	36.924 944.25		46.117 1177.75	45.947 1173.43
41	10.276	10.106	77	19.299	19.129	113	28.322	28.152	149	37.345	37.175	185	46.368	46.198
42	267.38	263.06	78	496.56	492.25	114	725.75	721.43	150	954.93	950.61	186	1184.11	1179.79
40	10.527 273.75	10.357 269.43	70	19.550 502.93	19.380 498.61	445	28.573 732.11	28.403 727.79	454	37.596 961.30	37.426 956.98	407	46.619 1190.48	46.449 1186.16
43	10.777	10.607	79	19.800	19.630	115	28.823	28.653	151	37.846	37.676	187	46.859	46.699
44	280.11 11.028	275.79 10.858	80	509.30 20.051	504.98 19.881	116	738.48 29.074	734.16 28.904	152	967.66 38.097	963.34 37.927	188	1196.85 47.120	1192.53 46.950
45	286.48	282.16	81	515.66	511.34	117	744.85	740.53	153	974.03	969.71	189	1203.21	1198.89
	11.279 292.85	11.109 288.53		20.302 522.03	20.132 517.71		29.325 751.21	29.155 746.89		38.348 980.39	38.178 976.08		47.371 1209.58	47.201 1205.26
46	11.529	11.469	82	20.552	20.382	118	29.575	29.405	154	38.598	38.428	190	47.621	47.451
47	299.21 11.780	294.89 11.610	83	528.39 20.803	524.08 20.633	119	757.58 29.826	753.26 29.656	155	986.76 38.849	982.44 38.679	191	1215.94 47.672	1211.63 47.702
48	305.58	301.26	84	534.76	530.44	120	763.94	759.63	156	993.13	988.81	192	1222.31	1217.99
40	12.031	11.861	04	21.054	20.884	120	30.077	29.907	150	39.099	38.929	192	48.122	47.952
49	311.94 12.281	307.63 12.111	85	541.13 21.304	536.81 21.134	121	770.31 30.327	765.99 30.157	157	999.49 39.350	995.18 39.180	193	1228.68 48.373	1224.36 48.203
50	318.31	313.99	86	547.49	543.18	122	776.68	772.36	158	1005.86	1001.54	194	1235.04	1230.72
	12.532 324.68	12.362 320.36		21.555 553.86	21.385 549.54		30.578 783.04	30.408 778.72		39.601 1012.23	39.431 1007.91		48.624 1241.41	48.454 1237.09
51	12.763	12.613	87	21.805	21.635	123	30.828	30.658	159	39.851	39.681	195	48.874	48.704
52	331.04 13.033	326.72 12.863	88	560.23 22.056	555.91 21.886	124	789.41 31.079	785.09 30.909	160	1018.59 40.102	1014.27 39.932	196	1247.77 49.125	1243.46 48.955
53	337.41	333.09	89	566.59	562.27	125	795.77	791.46	161	1024.96	1020.64	197	1254.14	1249.82
	13.284 343.77	13.114 339.46	- 00	22.307 572.96	22.137 568.64	125	31.330 805.14	31.160 797.82	101	40.353 1031.32	40.183 1027.01	107	49.376 1260.51	49.206 1256.19
54	13.534	13.364	90	22.557	22.387	126	31.580	31.410	162	40.603	40.433	198	49.626	49.456
55	350.14	345.82	91	579.32	575.01	127	808.51	804.19	163	1037.69	1033.37	199	1266.87	1262.56
	13.785 356.51	13.615 352.19	00	22.808 585.69	22.638 581.37	400	31.831 814.87	31.661 810.56	101	40.854 1044.06	40.684 1039.74	000	49.577 1273.24	49.707 1268.92
56	14.036	13.856	92	23.059	22.889	128	32.082	31.912	164	41.105	40.935	200	50.128	49.958
57	362.87 14.286	358.56 14.116	93	592.06 23.309	587.74 23.139	129	821.24 32.332	816.92 32.162	165	1050.42 41.355	1046.10 41.185	201	1279.61 50.378	1275.29 50.208
58	369.24	364.92	94	598.42	594.10	130	827.61	823.29	166	1056.79	1052.47	202	1285.97	1281.65
	14.537 375.61	14.367 371.29		23.560 604.72	23.390 600.47		32.583 833.97	32.413 829.65		41.606 1063.16	41.436 1058.34		50.629 1292.34	50.459 1288.02
59	14.788	14.618	95	23.811	23.641	131	32.834	32.664	167	41.856	41.686	203	50.679	50.709
60	381.97 15.038	377.65 14.868	96	611.15 24.061	606.84 23.891	132	840.34 33.084	836.02 32.914	168	1069.52 42.107	1065.20 41.937	204	1298.70 51.130	1294.39 50.960
61	388.34	384.02	97	617.52	613.20	133	846.70	842.39	169	1075.89	1071.57	205	1305.07	1300.75
	15.289 394.70	15.119 390.39	31	24.312 623.89	24.142 619.57	100	33.335 853.07	33.165 848.75	109	42.358 1082.25	42.188 1077.94	200	51.381 1311.44	51.211 1307.12
62	15.540	15.370	98	24.562	24.392	134	33.585	33.415	170	42.608	42.438	206	51.631	51.461
63	401.07	396.75	99	630.25	625.94	135	859.44	885.12	171	1088.62	1084.30	207	1317.80	1313.48
	15.790 407.44	15.620 403.12		24.813 636.62	24.643 632.30		33.836 865.80	33.666 861.48		42.859 1094.99	42.689 1090.67		51.882 1324.17	51.712 1319.85
64	16.041	15.871	100	25.064	24.894	136	34.087	33.917	172	43.110	42.940	208	52.133	51.963
65	413.80 16.291	409.48 16.121	101	642.99 25.314	638.67 25.144	137	872.17 34.337	867.85 34.167	173	1101.35 43.350	1097.03 43.190	209	1330.54 52.383	1326.22 52.213
66	420.17	415.85	102	649.35	645.03	138	878.54	874.22	174	1107.72	1103.40	210	1336.90	1332.58
	16.542 426.54	16.372 422.22	102	25.565 655.72	25.395 651.40	130	34.588 884.90	34.418 880.58	1/4	43.611 1114.08	43.441 1109.77	210	52.634 1343.27	62.464 1338.95
67	16.793	16.623	103	25.816	25.646	139	34.839	34.669	175	43.862	43.692	211	52.885	52.715
68	432.90	428.58	104	662.08	657.77	140	891.27	886.95	176	1120.45	1116.13	212	1349.63	1345.32
	17.043 439.27	16.873 434.95		26.066 668.45	25.896 664.13		35.089 897.63	34.919 893.32		44.112 1126.82	43.942 1122.50		53.135 1356.00	52.965 1351.68
69	17.299	17.124	105	26.317	26.147	141	35.340	35.170	177	44.363	44.193	213	53.386	53.216

See Page 116 for sprocket O.D. tolerances.



ENGINEERING DATA

NOTE: This engineering section provides general engineering information for synchronous belts and sprockets (or pulleys) which are useful in general drive design work. Where we refer to sprockets (for PowerGrip GT2 belts), you can substitute pulleys for PowerGrip Timing Belts. If you need additional information, contact Gates Power Transmission Product Application.

Section I

Application Design Considerations

When designing synchronous drives, there are several special circumstances that may require additional consideration:

- 1. Gear Motors/ Speed Reducer Drives
- 2. Electric Motor Frame Dimensions
- 3. Minimum Sprocket Diameter Recommendations for Electric Motors
- 4. High-Driven Inertia
- 5. Air Moving Drives
- 6. Linear Motion Drives
- 7. High Performance Applications
- 8. Belt Drive Registration
- 9. Belt Drive Noise
- 10. Use of Flanged Sprockets
- 11. Fixed (Nonadjustable) Center Distance
- 12. Use of Idlers
- 13. Minimum Belt Wrap and Tooth Engagement
- 14. Adverse Operating Environments

Each of these circumstances and special considerations are reviewed below.

1. Gear Motors/ Speed Reducer Drives

When designing a belt drive system to transfer power from the output shaft of a speed reducer to the final driven shaft, the designer must make certain that the belt drive does not exert shaft loads greater than the speed reducing device is rated to carry. Failure to do so can result in premature shaft/ bearing failures whether the belt drive has been designed with the appropriate power capacity or not.

This concept is similar to the National Electric Motor Association (NEMA) establishing minimum acceptable sprocket diameters for each of their standardized motor frames. Abiding by these minimum recommended diameters, when designing a belt drive system, prevents the motor bearings from failing prematurely due to excessive shaft loads exerted by the belt drive.

Overhung load is generally defined as a force exerted by a belt or chain drive, that is perpendicular to a speed reducer shaft, and applied beyond its outermost bearing. Calculated overhung load values are intended to serve as an indication of how heavily loaded the shaft and outermost bearing of a speed reducer actually is.

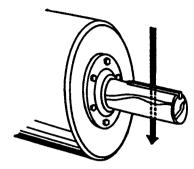


Figure 3 - Overhung Load

Overhung load calculations are generally assumed to apply to the slower output shaft of a speed reducer. It is important to note that these calculations apply to higher speed input shafts as well.

Most speed reducer manufacturers publish allowable overhung load values for every model in their product line. This value represents the maximum load that the shaft and bearings can support without negatively impacting the durability of the speed reducer. When the actual overhung load exceeds the published allowable value, premature shaft or bearing failure may occur. In extreme cases, catastrophic failures can occur.

A general formula used to calculate overhung load (OHL) is as follows:

Where: HP = Actual horsepower being transmitted at the gear motor/reducer output shaft with no service factor applied

KLCF = Overhung load connection factor (1.3 for all synchronous belt drives)

 K_{SF} = Service factor for the speed reducer (available from the manufacturer)

KLLF = Load location factor for the speed reducer (available from the manufacturer)

PD = Pitch diameter of the speed reducer output shaft sprocket

RPM = RPM of the speed reducer output shaft

Speed reducer manufacturers each publish their own specific formula and constants to calculate overhung load. They also publish specific overhung load ratings for each speed reducer product that they produce. It is very important to use the correct overhung load calculation procedure in conjunction with the manufacturer's accompanying overhung load rating.

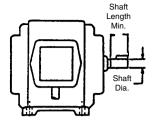
If the calculated overhung load for a particular belt drive system does exceed the speed reducer manufacturer's maximum recommended value, consider altering the belt drive design. In order to reduce the calculated overhung load, consider:

- · Increasing sprocket diameters
- · Reducing belt width
- Mounting the sprocket closer to the speed reducer outboard bearing

Increasing the sprocket diameter not only reduces calculated overhung load, it also potentially reduces the required belt width. Reducing the belt width and mounting the sprocket as close as possible to the outermost bearing of the speed reducer both move the center of the belt load closer to the speed reducer. This also reduces the calculated overhung load. Alterations to the belt drive design should be made until the calculated overhung load is within the speed reducer manufacturer's recommendations.

2. Electric Motor Frame Dimensions

Motor dimensions can be important considerations depending on the application and its requirements. If motor shaft length, motor shaft diameter, or clearance issues are a concern, refer to the motor dimension table on this page. The table lists common general purpose electric motors by frame size.



Motor Frame Dimensions

Frame Size	Shaft Dia. (in)	Shaft Length Min. (in)	Key (in)
48 56	1/2 5/8	_ _ _	3/64 Flat 3/16 x 3/16 x 1-3/8
143T	7/8	2	3/16 x 3/16 x 1-3/8
145T	7/8	2	3/16 x 3/16 x 1-3/8
182	7/8	2	3/16 x 3/16 x 1-3/8
182T	1-1/8	2-1/2	1/4 x 1/4 x 1-3/4
184	7/8	2	3/16 x 3/16 x 1-3/8
184T	1-1/8	2-1/2	1/4 x 1/4 x 1-3/4
213	1-1/8	2-3/4	1/4 x 1/4 x 2
213T	1-3/8	3-1/8	5/16 x 5/16 x 2-3/8
215	1-1/8	2-3/4	1/4 x 1/4 x 2
215T	1-3/8	3-1/8	5/16 x 5/16 x 2-3/8
254U	1-3/8	3-1/2	5/16 x 5/16 x 2-3/4
254T	1-5/8	3-3/4	3/8 x 3/8 x 2-7/8
256U	1-3/8	3-1/2	5/16 x 5/16 x 3-3/4
256T	1-5/8	3-3/4	3/8 x 3/8 x 2-7/8
284U	1-5/8	4-5/8	3/8 x 3/8 x 3-3/4
284T	1-7/8	4-3/8	1/2 x 1/2 x 3-1/4
284TS	1-5/8	3	3/8 x 3/8 x 1-7/8
286U	1-5/8	4-5/8	3/8 x 3/8 x 3-3/4
286T	1-7/8	4-3/8	1/2 x 1/2 x 3-1/4
286TS	1-5/8	3	3/8 x 3/8 x 1-7/8
324U 324T 324TS 326U 326T 326TS	1-7/8 2-1/8 1-7/8 1-7/8 2-1/8 1-7/8	5-3/8 5 3-1/2 5-3/8 5 3-1/2	1/2 x 1/2 x 4-1/4 1/2 x 1/2 x 3-7/8 1/2 x 1/2 x 2 1/2 x 1/2 x 2 1/2 x 1/2 x 4-1/4 1/2 x 1/2 x 3-7/8 1/2 x 1/2 x 2
364U	2-1/8	6-1/8	1/2 x 1/2 x 5
364US	1-7/8	3-1/2	1/2 x1/2 x 2
364T	2-3/8	5-5/8	5/8 x 5/8 x 4-1/4
364TS	1-7/8	3-1/2	1/2 x 1/2 x 2
365U	2-1/8	6-1/8	1/2 x 1/2 x 5
365US	1-7/8	3-1/2	1/2 x 1/2 x 2
365T	2-3/8	5-5/8	5/8 x 5/8 x 4-1/4
365TS	1-7/8	3-1/2	1/2 x 1/2 x 2
404U	2-3/8	6-7/8	5/8 x 5/8 x 5-1/2
404US	2-1/8	4	1/2 x 4 x 2-3/4
404T	2-7/8	7	3/4 x 3/4 x 5-5/8
404TS	2-1/8	4	1/2 x 1/2 x 2-3/4
405U	2-3/8	6-7/8	5/8 x 5/8 x 5-1/2
405US	2-1/8	4	1/2 x 1/2 x 2-3/4
405T	2-7/8	7	3/4 x 3/4 x 5-5/8
405TS	2-1/8	4	1/2 x 1/2 x 2-3/4
444U 444US 444T 444TS 445U 445US 445T 445TS 447T 447TS 449T 449TS	2-7/8 2-1/8 3-3/8 2-3/8 2-7/8 2-1/8 3-3/8 2-3/8 3-3/8 2-3/8 3-3/8 2-3/8 3-3/8	8-3/8 4 8-1/4 4-1/2 8-3/8 4 8-1/4 4-1/2 8-1/4 4-1/2 8-1/4 4-1/2	3/4 x 3/4 x 7 1/2 x 1/2 x 2-3/4 7/8 x 7/8 x 6-7/8 5/8 x 5/8 x 3 3/4 x 3/4 x 7 1/2 x 1/2 x 2-3/4 7/8 x 7/8 x 6-7/8 5/8 x 5/8 x 3 7/8 x 7/8 x 6-7/8 5/8 x 5/8 x 3 7/8 x 7/8 x 6-7/8 5/8 x 5/8 x 3 7/8 x 7/8 x 6-7/8 5/8 x 5/8 x 3

3. Minimum Sprocket Diameter Recommendations for Electric Motors

Minimum Recommended Sprocket / Sheave Diameters

NEMA (The National Electric Manufacturers Association) publishes recommendations for the minimum diameter of sprockets and sheaves to be used on General Purpose Electric Motors. The purpose of these recommendations is to prevent the use of excessively small sprockets or sheaves. This can result in motor shaft or bearing damage since belt pull increases as the diameter is reduced.

Table data has been compiled from NEMA Standard MG-1-14-42; 11/78, MG-1-14-43; 1/68, and a composite of electric motor manufacturers data. Values are generally conservative, and specific motors may permit the use of a smaller sprocket or sheave. Consult the motor manufacturer.

Motor Frames and Minimum Diameters for 60 Cycle Electric Motors

		Horsepower at Synchronous Speed (rpm)				Synchronous Belts	
Motor Frame Code	Shaft Dia. (in)	3600 (3450)	1800 (1750)	1200 (1160)	900 (870)	Min. Pitch Dia. (in)	
143T 145T	0.875 0.875	1-1/2 2—3	1 1-1/2— 2	3/4 1	1/2 3/4	2.0 2.2	
182T 182T	1.125 1.125	3 5	3	1-1/2 —	1 —	2.2 2.4	
184T 184T 184T	1.125 1.125 1.125	— 5 7-1/2	— — 5	2 — —	1-1/2 — —	2.2 2.2 2.7	
213T	1.375	7-1/2—10	7-1/2	3	2	2.7	
215T 215T	1.375 1.375	10 15	_ 10	5	3	2.7 3.4	
254T 254T	1.625 1.625	15 20	— 15	7-1/2 —	5 —	3.4 4.0	
256T 256T	1.625 1.625	20—25 —	_ 20	10 —	7-1/2 —	4.0 4.0	
284T 284T	1.875 1.875	_	— 25	15 —	10 —	4.0 4.0	
286T	1.875		30	20	15	4.7	
324T	2.125	_	40	25	20	5.4	
236T	2.125	_	50	30	25	6.1	
364T 364T	2.375 2.375	_ _	— 60	40 —	30 —	6.1 6.7	
365T 365T	2.375 2.375		— 75	50 —	40 —	7.4 7.7	
404T 404T 404T	2.875 2.875 2.875		— — 100	60 — —	 50 	7.2 7.6 7.7	
405T 405T 405T	2.875 2.875 2.875		— 100 125	75 — —	60	9.0 7.7 9.5	
444T 444T 444T 444T	3.375 3.375 3.375 3.375		— — 125 150	100 — — —	 75 	9.0 8.6 9.5 9.5	
445T 445T 445T 445T	3.375 3.375 3.375 3.375		— — 150 200	125 — — —	100 — —	10.8 10.8 9.5 11.9	

4. High-Driven Inertia

Many drives, such as piston compressors, punch presses and crushers, depend on the driveN pulley acting as a flywheel. This flywheel effect, or WR² is used to help moderate or smooth out fluctuations in driven load and speed. Failure to compensate for this during a redesign can result in premature damage to the prime mover or early belt failures. This can be a consideration when replacing older belt drives with new, higher capacity belts.

When replacing large pulleys or sheaves with sprockets, be careful not to remove a designed-in flywheel effect. Ask questions of the user to make sure there is not a concern for a high WR². If there is a concern, you may have to use a wider sprocket, a larger diameter, or a special made-to-order sprocket designed with added weight and WR².

Drives which have a high driveN inertia and are subjected to high acceleration or emergency stop conditions require additional design expertise. Contact Gates Power Transmission Product Application for further engineering assistance.

5. Air Moving Drives

HVAC Equipment Inspection

Many air handling drives have structures that are not particularly rigid, which can create belt tension and drive alignment problems resulting in unusual and premature belt wear. Synchronous belts are sensitive to fluctuations in center distance that can be caused by inadequate bracketry. Under start up conditions, an AC motor can be required to provide 150% to 200% of its rated capacity. Synchronous belts cannot slip, and must transmit the higher start up torque. Under these conditions, the drive center distance may collapse if the structure is not sufficiently rigid.

With the drive shut off and safely locked out, a simple method to use when inspecting potential drive conversions is to grab the two belt spans and push them together while observing the motor. If any significant relative change in center distance or motor position is noticed, the drive's structural strength is most likely insufficient for a simple conversion. The structure would need to be reinforced to obtain optimum performance from a synchronous belt drive. The best conversion candidates have motors that are mounted solidly on support bracketry that is part of the fan's structural system. When possible, select synchronous drives with diameters similar to existing V-belt sheave diameters. This will maintain similar belt pulls and loads on the shafts and structure.

Air Handling Unit Start-Up Characteristics

Full Load Start Up

Start up loads can be a concern when evaluating potential drives for conversion to synchronous belts. Synchronous belts will transmit all of the start up torque, where V-belts may slip if the load is excessive. Due to the inertia of the fan, start up loads can potentially be 150% to 200% of the normal operating load. It is important that the start up load be considered by selecting appropriate service factors when designing a belt drive system.



Controlled Start Up

An air handling drive with soft start or variable frequency controller (AC Inverter) is ideal for conversion to synchronous belts. The fan will be ramped up to speed slowly, with a corresponding increase in load as the speed increases. Structural flexing is typically not a concern when designing synchronous belt drives on systems using soft starts or variable frequency controllers.

Fan Speed

The volume of air being transmitted and the required horsepower are both sensitive to changes in the driveN fan speed. If designing a synchronous belt drive for energy savings, it is important that the synchronous belt drive be designed to operate at the proper driveN fan speed. All conversions from existing V-belt drives should have the synchronous belt drive speed ratio based on a measured driveN shaft RPM, and not calculated from the theoretical Vbelt speed ratio. This measurement can be made by either using a mechanical contact tachometer or a strobe tachometer.

The horsepower requirement for fans varies with the cube of the fan speed. A small change in the fan speed makes a much larger difference in the actual horsepower and energy required.

 $HP_1/HP_2 = (RPM_1/RPM_2)^3$

Where: HP₁ = Initial Horsepower

HP₂ = New Horsepower @ New Fan RPM

RPM₁ = Initial Fan RPM RPM₂ = New Fan RPM

6. Linear Motion Drives

In linear motion drives, such as a rack and pinion application, the belt is not transmitting a load in the conventional rotational manner. The two cut ends of the belt are connected to clamping fixtures and the belt travels back and forth a specified distance while rotating over a sprocket. Because of these characteristics, the drive design process will typically not follow standard catalog design procedures.

The designer will most likely have available a maximum belt load or pull which will need to be related to the belt's allowable working tension. Reasonably sized sprocket diameters are still required to prevent excessive stress fatigue in the belt. In these applications, the designer may either use endless belts and cut them, or use standard long length belting when available. Design information and belt clamping recommendations are included on pages 85 through 94. PowerGrip Long Length Belting. Gates Power Transmission Product Application may also be consulted for additional design assistance.

7. High Performance Applications

For special high performance applications, such as motorcycles or race car and boat supercharger drives, the design loads will typically exceed published data. Because of the extremely high loads and speeds (as much as 500 HP and belt speeds exceeding 10,000 fpm), it is necessary for the designer to contact Gates Power Transmission Product Application for additional assistance.

Although special considerations may be involved, it is important to remember that reasonable drive recommendations can be provided to the designer in most cases.

8. Belt Drive Registration

The three primary factors contributing to belt drive registration (or positioning) errors are belt elongation, backlash, and tooth deflection. When evaluating the potential registration capabilities of a synchronous belt drive, the system must first be determined to be either static or dynamic in terms of its registration function and requirements.

Static Registration: A static registration system moves from its initial static position to a secondary static position. During the process the designer is concerned only with how accurately and consistently the drive arrives at its secondary position. Potential registration errors that occur during transport are not considered. Therefore, the primary factor contributing to registration error in a static registration system is backlash. The effects of belt elongation and tooth deflection do not have any influence on the registration accuracy of this type of system.

Dynamic Registration: A dynamic registration system is required to perform a registering function while in motion with torque loads varying as the system operates. In this case, the designer is concerned with the rotational position of the drive sprockets with respect to each other at every point in time. Therefore, belt elongation, backlash, and tooth deflection will all contribute to registrational inaccuracies.

Further discussion about each of the factors contributing to registration error is as follows:

Belt Elongation: Belt elongation, or stretch, occurs naturally when a belt is placed under tension. The total tension exerted within a belt results from installation as well as working loads. The amount of belt elongation is a function of the belt tensile modulus, which is influenced by the type of tensile cord and the belt construction. The standard tensile cord used in rubber synchronous belts is fiberglass. Fiberglass has a high tensile modulus, is dimensionally stable, and has excellent flex-fatigue characteristics. If a higher tensile modulus is needed in a rubber synchronous belt, aramid tensile cords can be considered, although they are generally used to provide resistance to harsh shock and impulse loads. Aramid tensile cords used in rubber synchronous belts generally have only a marginally higher tensile modulus in comparison to fiberglass. When needed, belt tensile modulus data is available from Gates Power Transmission Product Application.

Backlash: Backlash in a synchronous belt drive results from clearance between the belt teeth and the sprocket grooves. This clearance is needed to allow the belt teeth to enter and exit the grooves smoothly with a minimum of interference. The amount of clearance necessary depends upon the belt tooth profile. PowerGrip® Timing Belt Drives are known for having relatively little backlash. PowerGrip® HTD® Drives have improved torque carrying capability and resist ratcheting, but have a significant amount of backlash. PowerGrip® GT2 Drives have considerably improved torque carrying capability, and backlash characteristics in between that of PowerGrip HTD and PowerGrip Timing Drives. In special cases, alterations can be made to drive systems to

further decrease backlash. These alterations often result in increased belt wear, increased drive noise and shorter drive life. Contact Gates Power Transmission Product Application for additional information.

Tooth Deflection: Tooth deformation in a synchronous belt drive occurs as a torque load is applied to the system, and individual belt teeth are loaded. The amount of belt tooth deformation depends upon the amount of torque loading, sprocket size, installation tension and belt type. Of the three primary contributors to registration error, tooth deflection is the most difficult to quantify. Experimentation with a prototype drive system is the best means of obtaining realistic estimations of belt tooth deflection.

Additional guidelines that may be useful in designing registration critical drive systems are as follows:

- · Design with large sprockets with more teeth in mesh.
- · Keep belts tight, and control tension closely.
- · Design frame/shafting to be rigid under load.
- Use high quality machined sprockets to minimize radial run out and lateral wobble.

9. Belt Drive Noise

Field experience on actual applications verifies that some positive belt drives can produce some noise. The noise levels produced are typically greater than V-belts, and are associated with tooth meshing characteristics. For the most part, this noise is low level and will not exceed the level of noise produced by the equipment it is used on or the surrounding environment of the equipment. Laboratory studies (confirmed by field studies), using highly instrumented equipment, show a high probability for significant noise generation at speeds greater than 3,500 feet per minute and belt widths in excess of 85mm.

Many times a belt drive system, when operating under load, is not the primary cause for noise. Undersized, poorly lubricated, worn or misaligned bearings can cause significant noise levels. Rotating parts of a total system can create air disturbances, thus generating noise. A weak structural design could flex under the load and cause misalignment and affect components in the drive system, thereby creating noise. Consideration should also be given to assuring that the total system has not been designed to act as an echo chamber, thus amplifying an otherwise insignificant noise.

It becomes obvious there are many sources for noise in most applications. The study and understanding of noise analysis is a complex and controversial issue. It should be apparent to the designer that noise problems require very careful and thorough examinations. If belt drive noise is a problem, contact Gates Power Transmission Product Application for further assistance.

10. Use of Flanged Sprockets

Guide flanges are needed in order to keep the belt on the sprocket. Due to tracking characteristics, even on the best aligned drives, belts will ride off the edge of the sprockets. Flanges will prevent this belt ride-off.

On all drives using stock or made-to-order sprockets, the following conditions should be considered when selecting flanged sprockets:

- On all two-sprocket drives, the minimum flanging requirements are two flanges on one sprocket or one flange on each sprocket on opposite sides.
- On drives where the center distance is more than eight times the diameter of the small sprocket, both sprockets should be flanged on both sides. (See Engineering Section II-10, Drive Alignment on page 141 and Engineering Section II-11, Belt Installation on page 142.)
- On vertical shaft drives, one sprocket should be flanged on both sides, and all the other sprockets in the system should be flanged on the bottom side only.
- On drives with more than two sprockets, the minimum flanging requirements are two flanges on every other sprocket or one flange on every sprocket—on alternating sides around the system.

On made-to-order sprockets, flanges must be securely fastened, such as using mechanical fasteners, welding, shrinkfit or other equivalent methods.

11. Fixed (Nonadjustable) Center Distance

Designers sometimes attempt to design synchronous belt drive systems without any means of belt adjustment or take up. This type of system is called a Fixed Center Drive. While this approach is often viewed as being economical, and is simple for assemblers, it often results in troublesome reliability and performance problems in the long run.

The primary pitfall in a fixed center design approach is failure to consider the affects of system tolerance accumulation. Belts and sprockets are manufactured with industry accepted production tolerances. There are limits to the accuracy that the center distance can be maintained on a production basis as well. The potential effects of this tolerance accumulation is as follows:

Low Tension:

Long Belt with Small Sprockets on a Short Center Distance

High Tension:

Short Belt with Large Sprockets on a Long Center Distance

Belt tension in these two cases can vary by a factor of 3 or more with a standard fiberglass tensile cord, and even more with an aramid tensile cord. This potential variation is great enough to overload bearings and shafting, as well as the belts themselves. The probability of these extremes occurring is a matter of statistics, but however remote the chances seem, they will occur in a production setting. In power transmission drives, the appearance of either extreme is very likely to impact drive system performance in a negative manner.

The most detrimental aspect of fixed center drives is generally the potentially high tension condition. This condition can be avoided by adjusting the design center distance. A common approach in these designs is to reduce the center distance from the exact calculated value by some small fraction. This results in a drive system that is inherently loose, but one that has much less probability of yielding excessively high shaft loads. **NOTE:** This approach should not be used for power transmission drives since the potentially loose operating conditions could result in accelerated wear and belt ratcheting, even under nominal loading.

There are times when fixed center drive designs can't be avoided. In these cases, the following recommendations will maximize the probability of success.

- Do not use a fixed center design for power transmission drives. Consider using a fixed center design only for lightly loaded or motion transfer applications.
- **2.** Do not use a fixed center design for drives requiring high motion quality or registration precision.
- 3. When considering a fixed center design, the center distance must be held as accurately as possible, typically within 0.002"—0.003" (0.05mm—0.08mm). This accuracy often requires the use of stamped steel framework. Molding processes do not generally have the capability of maintaining the necessary accuracy.
- 4. Sprockets for fixed center systems should be produced with a machining process for accuracy. Molding and sintering processes are generally not capable of holding the finished O.D. sufficiently accurate for these systems.
- 5. The performance capabilities of the drive system should be verified by testing belts produced over their full length tolerance range on drive systems representing the full potential center-distance variation. Contact Gates Power Transmission Product Application for further details.
- **6.** Contact Gates Power Transmission Product Application for design center distance recommendations, and to review the application.

12. Use of Idlers

Use of idlers should be restricted to those cases in which they are functionally necessary. Idlers are often used as a means of applying tension when the center distance is not adjustable.

Idlers should be located on the slack side span of the belt drive. For inside idlers, grooved sprockets are recommended up to 40 grooves. On larger diameters, flat uncrowned idlers may be used. In some cases, such as high capacity drives utilizing large sprockets, idlers as large as the smallest loaded sprocket in the system may be more appropriate.

Outside or backside idlers should be flat and uncrowned; flanges may or may not be necessary. Diameters should not be smaller than 1.3 times the smallest recommended inside sprocket size.

Idler arc of contact should be held to a minimum. All idlers should be rigidly mounted in place to minimize movement or deflection during drive startup and operation.

In most cases, use of spring-loaded idlers is not recommended on positive belt applications. This stems from the fact that a synchronous belt can generate sufficient tension to overcome any reasonable force imposed by a spring-loaded idler (See Engineering Section II-14, Self-Generated Tension on page 143). The belt may ratchet in this situation because the idler has not maintained sufficient belt tension on the slack side span. Any spring force sufficient to resist being overcome by belt span tensions may be excessive and could significantly reduce belt life. Exceptions include lightly loaded applications.

13. Minimum Belt Wrap and Tooth Engagement

Horsepower ratings listed in this catalog are based on a minimum of six teeth in mesh between the belt and the sprocket. The ratings must be corrected for excessive tooth loading if there are less than six teeth in mesh. For non-stock drives not listed in the Drive Selection Tables, the teeth in mesh may be calculated by using this formula:

Teeth in Mesh =
$$\left[0.5 - \left(\frac{D-d}{6C}\right) \ \right] \ N_{\text{g}}$$

Where: D = pitch diameter, large sprocket, inches d = pitch diameter, small sprocket, inches

C = center distance between shafts, inches

N₉ = number of grooves in small sprocket

In cases where fewer than six teeth are in full contact, 20% of the horsepower rating must be subtracted for each tooth less than six not in full contact. After computing the teeth in mesh, the belt rating should be multiplied by the appropriate K_{tm} factor shown in the following table.

Teeth In Mesh Correction Factor

Teeth in Mesh	Factor K™
6 or more	1.00
5	0.80
4	0.60
3	0.40
2	0.20

In addition to the number of teeth in mesh, some drives with more than two shafts may have a greater potential for the belts to ratchet where loaded sprockets have 6 teeth in mesh, but a small arc of contact. In order to minimize this condition, each loaded sprocket in the drive system should have an arc of contact or belt wrap angle of at least 60 degrees. Non-loaded idler sprockets do not have tooth meshing or wrap angle requirements.

14. Adverse Operating Environments

Debris

Be very careful when using synchronous drives in high debris environments. Debris can be more damaging to the positive belt drive than a V-belt drive, which has a tendency to remove debris from the sheave grooves through drive operation. Entrapment of debris in synchronous drives is a major concern. Debris can be packed into sprocket grooves causing improper belt tooth engagement, reducing belt life and accelerating belt and sprocket wear. Care must be taken to provide adequate shielding to drives in environments where debris is likely. Completely enclosing a synchronous belt drive may be acceptable. Since synchronous belts generate minimal heat during drive operation, air circulation is not critical except where extremely high temperatures already are present. Depending on the type and abrasive characteristics of the debris, excessive wear can be generated on both belt and sprockets.

Temperature

Belt performance is generally unaffected in ambient temperature environments between -30° and 185°F (-34° and 85°C). Temperature extremes beyond these limits should be reviewed by Gates Power Transmission Product Application.

Chemical Resistance

Based on lab and field testing, PowerGrip belts provide excellent resistance to most chemicals. Actual performance characteristics will be determined by the degree of concentration of the chemical, the time of exposure and the type of exposure (drip, splash, immersion, etc.). In addition to possible belt degradation, these chemicals can act as a lubricant in the drive system. As with any positive belt drive, PowerGrip drives which run where excessive lubrication is present have an increased tendency to ratchet (See Engineering Section II-14, Self Generated Tension on page 143). Special attention should be given to assure that recommended tension is maintained (See Engineering Section II-8, Belt Installation Tension on page 139).

High Humidity

Many industrial applications face the problems of rusting parts. This is equally true of sprockets when used in very wet or humid environments, such as seen with air moving drives on cooling towers or wood kilns. The constant effects of the wet air surrounding the belt drive can cause excessive rust, which in the most severe cases may lead to premature wear.

In these instances the designer may elect to use special stainless steel sprockets or a more economical choice such as nickel coating. A 0.001" thick coating of electroless nickel can, in many instances, dramatically slow down the effects of rusting.

Section II

Engineering Design Considerations

All synchronous belt drives require proper installation procedures for optimum performance. In addition, topics such as tooth profile advantages, sprocket rim speed limitations, efficiency, and tolerances are common to all Gates synchronous belt drives.

- 1. Belt Storage and Handling
- 2. Center Distance and Belt Length
- 3. Tooth Profiles
- 4. Static Conductivity
- 5. Sprocket Diameter Speed
- 6. Efficiency
- 7. Belt Tolerances
- 8. Belt Installation Tension
- 9. Center Distance Allowances for Installation and Tensioning
- 10. Drive Alignment
- 11. Belt Installation
- 12. Belt Pull Calculations
- 13. Bearing/Shaft Load Calculations
- 14. Self-Generated Tension

Each of these circumstances and special considerations are reviewed below.

1. Belt Storage and Handling

Synchronous belts should be protected from moisture, temperature extremes, direct sunlight and high ozone environments. Each belt should be stored In its original package, avoiding any sharp bends or crimping which will cause damage. When properly stored, Gates synchronous belts should easily meet the criteria covered in RMA Bulletin IP-3-4 (eight years' storage with no reduced performance).

2. Center Distance and Belt Length

The approximate relationship between a center distance and belt pitch length is given by the following formula:

Formula 1

$$L_p = 2C + 1.57(D+d) + \frac{(D-d)^2}{4C}$$

Where: L_p = belt pitch length, inches

D = diameter of large sprocket, inches

d = diameter of small sprocket, inches

C = center distance, inches

A more precise formula is given below:

Formula 2

$$L_p = 2C Cos \phi + \frac{\pi (D + d)}{2} + \frac{\pi \phi (D - d)}{180}$$

Where: Lp = belt pitch length, inches C = center distance, inches

D = pitch diameter of large sprocket, inches

d = pitch diameter of small sprocket, inches

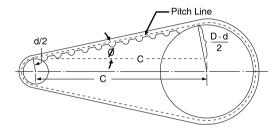
$$\phi \ = \ sin^{-1}\left(\frac{D-d}{2C}\right) degrees$$

The approximate center distance can be found by this formula:

Formula 3

$$C = \frac{K + \sqrt{K^2 - 32(D - d)^2}}{16}$$

Where: $K = 4L_p - 6.28 (D + d)$



The exact center distance can be calculated using an iterative process between the center distance (Formula 3) and belt length (Formula 2) equations. The exact center distance has been found when the two equations converge. The pitch length increment of a synchronous belt is equal to a multiple of the belt pitch.

3. Tooth Profiles

Conventional trapezoidal belts (MXL, XL, etc.) were the earliest developments of positive drive belts. In more recent years, new curvilinear profiles have entered the market. The most predominant of these profiles is the HTD® system (5mm, 8mm, etc.). While these curvilinear profiles provide many advantages, they also can provide significant disadvantages.

With the development of the new Gates GT® tooth profile. the combined advantages of the various curvilinear profiles have now been optimized. Characteristics such as ratcheting resistance, improved load/life and noise reduction were prime factors in the design of the Gates GT® profile. Additionally, it allowed optimization in incorporating premium materials into its superior construction.

The GT® tooth profile is based on the tractix mathematical function. Engineering handbooks describe this function as a "frictionless" system. This early development by Schiele is described as an involute form of a catenary. With this system, the belt and sprocket teeth move substantially tangentially during entry and exit, thus improving significantly the belts' performance characteristics. This is illustrated in Fig. 4.

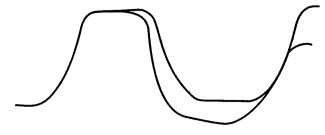


Figure 4

4. Static Conductivity

All belts, whether made from rubber or urethane, naturally build up an electric charge while in operation. While the likelihood that an electrical discharge from a belt could actually cause a detonation continues to be a point of speculation. lower humidity levels around 15% are known to result in significantly stronger electrical charges than higher humidity levels around 60% or more. Thus, greater precautions should be taken for belt drive systems operating in low humidity, or dry, environments.

Power transmission belts produced in a conductive construction have traditionally been considered to be relatively safe for explosive environments. Conductive belts continuously dissipate their electrical charge into the ferrous sprockets or sheaves on which they operate. The test procedure described in RMA Bulletin IP-3-3/1995 provides a measurable standard of belt conductivity to ensure that electrical charges from power transmission belts are safely dissipated into the belt drive hardware. It is important to note that this test procedure applies only to new belts.

PowerGrip belts do not meet the static conductivity requirements specified in RMA Bulletin IP-3-3/1995. Though PowerGrip belts can be produced in a conductive construction, it is important to understand that belt conductivity properties are known to decay over time with belt usage. In addition, power transmission belts that do not meet the RMA IP-3-3 standard are widely available. A conductive power transmission belt used in an explosive environment could inadvertently be replaced with an unsafe belt, creating a potential safety hazard.

The user must ensure that belt drives operating in potentially hazardous or explosive environments are designed and installed in accordance with existing building codes, OSHA requirements, and/or recognized safety-related organizations.

5. Sprocket Diameter—Speed



Drives shaded in the Belt Width Selection Tables on pages 44 through 51, pages 56 through 58, and pages 75 through 84 use sprocket diameters that may reduce belt life. The amount of reduction will depend on speed—the higher the speed, the greater the reduction. The drives are included for use where speed ratio or space requirements must be met. Blanks in the lower right-hand portions of the Belt Width Selection Tables occur because sprocket rim speed exceeds 6,500 feet per minute. Centrifugal forces developed beyond this speed may prohibit the use of stock gray cast iron sprockets. For rim speeds above 6,500 feet per minute, contact Gates Power Transmission Product Application for other alternatives.

Sprockets Recommended

For maximum performance, we recommend using Gates PowerGrip belts only with Gates PowerGrip® Sprockets

6. Efficiency

When properly designed and applied, PowerGrip belt drive efficiency will be as high as 98%. This high efficiency is primarily due to the positive, no slip characteristic of synchronous belts. Since the belt has a thin profile, it flexes easily, thus resulting in low hysteresis losses as evidenced by low heat buildup in the belt.

Gates synchronous belts are uniquely constructed because they use high performance materials. Optimization of these high-technology features provide maximum performance and efficiency.

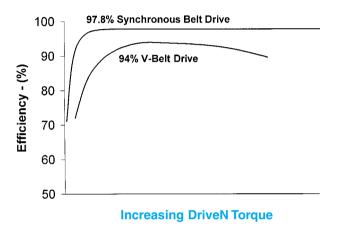
Synchronous belt drive efficiency can be simply defined as shown in the following equation:

Efficiency, percent =
$$\frac{DN \text{ RPM} \times DN \text{ Torque}}{DR \text{ RPM} \times DR \text{ Torque}} \times 100$$

When examining the loss of energy, it is necessary to consider belt losses in terms of shaft torque and shaft speed. Torque losses result from bending stress and friction. Chain drives running unlubricated may generate significant

heat build up due to increased friction in the roller joints. Even properly lubricated chains running at higher speeds tend to throw off the oil due to centrifugal forces, making it difficult to maintain proper lubrication at the load bearing surfaces. Consequently, chain drives are typically only 92-98% efficient.

Speed losses result from belt slip and creep. Unlike V-belts, slip is not a factor with synchronous belts. Well maintained V-belt drives are typically in the range of 95-98% efficient. However, on a poorly designed or maintained drive, the efficiency may drop as much as 5% or more. If proper maintenance cannot be scheduled for a V-belt drive or it is located in an inaccessible area, a positive belt drive system should be considered.



The belt drive is only part of the total system. Motors should be properly sized for the application. They must have sufficient capacity to meet the power needs, yet over-designed motors will lead to electrical inefficiencies. DriveN machines also may have inherent inefficiencies which may contribute to overall system efficiency.

7. Belt Tolerances

These tolerances are for reference only. For fixed center drive applications and special tolerances, contact Gates Power Transmission Product Application.

Stock I	Stock Belt Center Distance Tolerances				
Belt Length	(mm) (in)	Center Distance (mm) Tolerance (in)			
over 127	to 254	± 0.20 ± .008			
over 254	to 381	± 0.23			
10	15	± .009			
over 381 15	to 508	0.25 ± .010			
over 508	to 762	± 0.30			
20	30	± . 012			
over 762	to 1016	± 0.33			
30	40	± .013			
over 1016	to 1270	± 0.38			
40	50	± . 015			
over 1270	to 1524	± 0.41			
50	60	± . 016			
over 1524	to 1778	± 0.43			
60	70	± . 017			
over 1778	to 2032 80	± 0.46 ± . 018			
over 2032	to 2286	± 0.49			
80	90	± . 019			
over 2286	to 2540	± 0.52			
90	100	± . 020			
over 2540	to 2794	± 0.54			
100	110	± . 021			
over 2794	to 3048	± 0.56			
110	120	± . 022			
over 3048	to 3302	± 0.58			
120	1 30	± . 023			
over 3302	to 3556	± 0.60			
130	140	± . 024			
over 3556	to 3810	± 0.63			
140	150	± . 025			
over 3810	to 4064	± 0.66			
150	160	± . 026			
over 4064 160	to 4318	0.69 ± .027			
over 4318	to 4572	0.72 ± .028			
over 4572 180		add ± .03 for			
		every 254 increment			

S	Stock Belt Width Tolerances					
		Belt Width Tolerances				
(mm)	Belt	(mm)	Belt	(mm)	Belt	(mm)
Belt Width	Lengths	(in)	Length	s (in)	Lengths	s (in)
(in)	0	838	over 838	1676	ov 16	
	-	o 33	33	to 66	6	
					Ť	
over 11.1 38.1	+ .8	8	.8 +	_ 1.2	.8 +	_ 1.2
0.438 1.500	0.032	0.032	0.032	0.047	0.032	0.047
38.1 50.8	.8	1.2	1.2	1.2	1.2	1.6
over to 2.000	0.032	0.047	+ 0.047	0.047	0.047	0.063
50.8 63.5 over to	1.2	1.2	1.2	1.6	1.6	1.6
2.000 2.500	0.047	0.047	+ 0.047	0.063	0.063	0.063
63.5 76.5 over to	1.2	_ 1.6	1.6	_ 1.6	1.6	2.9
2.500 3.000	0.047	0.063	0.063	0.063	0.063	0.078
76.2 101.6 over to	1.6	1.6	1.6	2.0	2.0	2.0
3.000 4.000	0.063	0.063	0.063	0.078	0.078	0.078
101.6 177.8 over to	2.4	2.4	2.4	2.8	2.4	3.2
4.000 7.000	0.094	0.094	⁺ 0.094	0.109	0.094	0.125
over 177.8 to					+ 4.8	_ 6.4
7.000					0.188	0.250

8. Belt Installation Tension

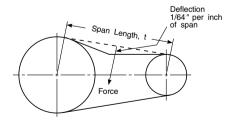
Standard Belt Tensioning Procedure

When installing a Gates PowerGrip belt:

- A. Be sure it is tensioned adequately to prevent tooth jumping (ratcheting) under the most severe load conditions which the drive will encounter during operation.
- B. Avoid extremely high tension which can reduce belt life and possibly damage bearings, shafts and other drive components.

When you wish to use a numerical method for calculating recommended belt installation tension values, the following procedure should be used:

Measure the force (lb) required to deflect one belt span a given amount, as shown in the sketch below.



STEP 1: Calculate the required base static installation tension.

Use Formula 4 to calculate the required base static installation tension.

Formula 4

$$T_{st} = \frac{17.4DHP}{S} + mS^2 \text{ , pounds}$$

Where: T_{st} = base static installation tension

DHP = Design Horsepower

 $S = \frac{PD \times RPM}{3820}$

m = Value from Table 3

PD = Sprocket Pitch Diameter, inches

RPM = Sprocket Speed

Table 3

Pitch	Belt Width	m	Υ	Minimum T _{st} (lb) per span
5MR PowerGrip GT2	9mm 15mm 25mm	0.17 0.28 0.47	14.90 24.90 41.50	8.4 14.1 23.4
8M PowerGrip GT2 PowerGrip GT	20mm 30mm 50mm 85mm	0.58 0.88 1.46 2.45	34.18 51.27 85.45 145.26	18.5 30.0 52.0 94.5
14M PowerGrip GT2 PowerGrip GT	40mm 55mm 85mm 115mm 170mm	1.78 2.44 3.77 5.11 7.55	93.04 127.93 197.72 267.50 395.43	76.5 120.0 205.5 291.0 447.5
20M PowerGrip GT2	115mm 170mm 230mm 290mm 340mm	7.24 10.71 14.49 18.27 21.42	366.98 542.49 733.96 925.43 1084.99	391.5 603.0 834.0 1065.0 1257.5
5M PowerGrip HTD	15mm 25mm	0.26 0.43	13.32 22.20	12.0 16.5
XL PowerGrip Timing	1/4 in. 3/8 in.	0.07 0.11	3.30 4.90	3.2 5.1
L PowerGrip Timing	1/2 in. 3/4 in. 1 in.	0.19 0.29 0.38	10.00 18.00 25.00	13.0 19.0 25.0
H PowerGrip Timing	3/4 in. 1 in. 1-1/2 in. 2 in. 3 in.	0.34 0.46 0.69 0.92 1.40	33.00 47.00 73.00 100.00 160.00	54.0 72.0 110.0 140.0 220.0
XH PowerGrip Timing	2 in. 3 in. 4 in.	2.70 4.00 5.30	200.00 320.00 460.00	210.0 310.0 410.0
XXH PowerGrip Timing	2 in. 3 in. 4 in. 5 in.	3.50 5.30 7.00 8.80	320.00 510.00 720.00 930.00	260.0 390.0 520.0 650.0

Because of the high performance capabilities of PowerGrip belts, it is possible to design drives that have significantly greater load than are necessary to carry the actual design load. Consequently, Formula 4 can provide $T_{\rm st}$ values less than are necessary for the belt to operate properly, resulting in poor belt performance and reduced service life.

If a more appropriately sized drive cannot be designed, minimum recommended $T_{\rm st}$ values are provided in Table 3 to assure that the PowerGrip belts are tensioned properly when lightly loaded.

Always use the greater T_{st} value; i.e., from T_{st} Formula 4 or Table 3.

NOTE: When applying static belt tension values directly, multiply the required base static installation tension(T_{st}) calculated in Formula 4 by the following factors:

For New Belts:

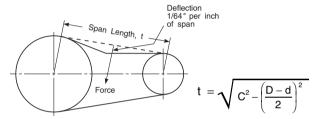
Minimum Static Tension = 1.4 x T_{st} Maximum Static Tension = 1.5 x T_{st}

For Used Belts:

Minimum Static Tension = $1.2 \times T_{st}$ Maximum Static Tension = $1.3 \times T_{st}$

STEP 2: Calculate the minimum and maximum recommended deflection forces.

A. Measure the span length of your drive (see sketch).



B. New belt minimum recommended force:

Formula 5

deflection force, Min. =
$$\frac{1.4 \text{ T}_{st} + \left(\frac{t}{L}\right) \text{Y}}{16}, \text{ lb}$$

C. New belt maximum recommended force:

Formula 6

deflection force, Max. =
$$\frac{1.5~T_{st}~+\left(\frac{t}{L}\right)Y}{16}~,~lb_{f}$$

Where: T_{st} = Base Static installation tension, lbf (Formula 4 or Table 3)

t = span length, inches L = belt pitch length, inches Y = constant from Table 3

USED BELT NOTE: For re-installation of a used belt, a recommended tension of 1.2 Tst to 1.3 Tst value should be used in calculating the deflection forces, instead of the 1.4 Tst to 1.5 Tst shown for new belts.

STEP 3: Applying the tension.

- A. At the center of the span (t) apply a force perpendicular to the span large enough to deflect the belt on the drive ¹/₆₄ inch per inch of span length from its normal position. One sprocket should be free to rotate. Be sure the force is applied evenly across the entire belt width.
- **B.** Compare this deflection force with the range of forces calculated in Step 2.
 - If it is less than the minimum recommended deflection force, the belt should be tightened.
 - If it is greater than the maximum recommended deflection force, the belt should be loosened.

9. Center Distance Allowances for **Installation and Tensioning**

Since fixed center drives are not recommended, center distance allowances for a Gates PowerGrip belt drive are necessary to assure that the belt can be installed without damage and then tensioned correctly. The standard installation allowance is the minimum decrease in center distance required to install a belt when flanged sprockets are removed from their shafts for belt installation. This is shown in the first column of Table 4. This table also lists the minimum increase in center distance required to assure that a belt can be properly tensioned over its normal lifetime. If a belt is to be installed over flanged sprockets without removing them, the additional center distance allowance for installation shown in the second table below must be added to the first table data.

Table 4 Center Distance Allowance For Installation and Tensioning

Length Belt ^(mm) (in)	Standard Installation Allowance (Flanged Sprockets (mm) RemovedFor Installation) (in)	Tensioning Allowance (All Drives) (mm) (in)		
Up to 125 5	0.5 0.02	0.5 0.02		
Over 125 to 250 5 10	0.8 0.03	0.8 0.03		
Over 250 to 500 10 20	1.0 0.04	0.8 0.03		
Over 500 to 1000 20 40	1.8 0.07	0.8 0.03		
Over 1000 to 1780 40 70	2.8 0.10	0.8 0.04		
Over 1780 to 2540 70 100	3.3 0.13	1.0 0.04		
Over 100 130	4.1 0.16	1.3 0.05		
Over 130 to 4600 180	4.8 0.19	1.3 0.05		
Over 180 6900 270	5.6 0.22	1.3 0.05		

Additional Center Distance Allowance For Installation Over Flanged Sprockets*

(Add to Installation Allowance In Table No. 4)

(Add to installation Allowance in Table No. 4)				
Pitch	One Sprocket (mm) Flanged (in)	Both Sprockets (mm) Flanged (in)		
0.080" (MXL)	8.4 0.33	12.4 0.49		
0.200" (XL)	11.7 0.46	18.0 0.71		
0.375" (L)	16.3 0.64	21.6 0.85		
0.500" (H)	16.3 0.64	24.4 0.85		
5mm	13.5 0.53	19.1 0.75		
8mm	21.8 0.86	33.3 1.31		
14mm	31.2 1.23	50.0 1.97		
20mm	47.0 1.85	77.5 3.05		

^{*} For drives that require installation of the belt over one sprocket at a time, use the value for "Both Sprockets Flanged"

10. Drive Alignment

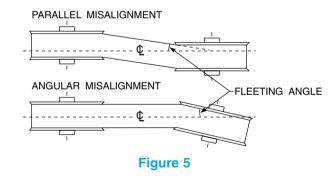
Provision should be made for center distance adjustment, according to the two tables on this page, or to change the idler position so the belt can be slipped easily onto the drive. When installing a belt, never force it over the flange. This will cause internal damage to the belt tensile member.

Synchronous belts typically are made with high modulus tensile members which provide length stability over the belt life. Consequently, misalignment does not allow equal load distribution across the entire belt top width. In a misaligned drive, the load is being carried by only a small portion of the belt top width, resulting in uneven belt wear and premature tensile failure.

There are two types of misalignment: parallel and angular (See Fig.5). Parallel misalignment is where the driveR and driveN shafts are parallel, but the two sprockets lie in different planes. When the two shafts are not parallel, the drive is angularly misaligned.

A fleeting angle is the angle at which the belt enters and exits the sprocket, and equals the sum of the parallel and angular misalignments.

Any degree of sprocket misalignment will result in some reduction of belt life, which is not accounted for in the normal drive design procedure. Misalignment of all synchronous belt drives should not exceed 1/4° or 1/16" per foot of linear distance. Misalignment should be checked with a good straight edge tool. The tool should be applied from driveR to driveN, and then from driveN to driveR so that the total effect of parallel and angular misalignment is taken into account.



Drive misalignment can also cause belt tracking problems. However, light flange contact by the belt is normal and won't affect performance.

For those drives in which the center distance is greater than eight times the small sprocket diameter, belt tracking can be a problem. In these cases, the parallel position of the two sprockets may need to be adjusted until only one flange guides the belt in the system and the belt tracks fully on all sprockets. Regardless of the drive center distance, the optimum drive performance will occur with the belt lightly contacting one flange in the system. The worst case is for the belt to contact flanges on opposite sides of the system. This traps the belt between opposite flanges and can force the belt into undesirable parallel misalignment.



Improper installation of the bushing can result in the bushing / sprocket assembly being "cocked" on the shaft. This leads to angular misalignment and sprocket wobble. Be sure to follow the instructions provided with the bushings.

11. Belt Installation

During the belt installation process, it is very important the belt be fully seated in the sprocket grooves before applying final tension. Serpentine drives with multiple sprockets and drives with large sprockets are particularly vulnerable to belt tensioning problems resulting from the belt teeth being only partially engaged in the sprockets during installation. In order to prevent these problems, the belt installation tension should be evenly distributed to all belt spans by rotating the system by hand. After confirming that belt teeth are fully engaged in the sprocket grooves, belt tension should be rechecked and verified. Failure to do this may result in an undertensioned condition with the potential for belt ratcheting.

12. Belt Pull Calculations

When the machine designer requests shaft load calculations from the drive designer, the following procedure can be applied:

A. Calculate Belt Span Tensions

Belt pull is the vector sum of $T_{\scriptscriptstyle T}$ and $T_{\scriptscriptstyle S}$, the tightside and slackside tensions. $T_{\scriptscriptstyle T}$ and $T_{\scriptscriptstyle S}$ may be calculated using the following formulas:

Formula 7

 $T_{T} = \frac{144,067 \text{ DHP}}{(\text{PD})(\text{RPM})}$

Formula 8

 $Ts = \frac{18,008 \text{ DHP}}{(PD)(RPM)}$

Where: DHP = Horsepower x Service Factor
PD = Sprocket Pitch Diameter (in)
RPM = Sprocket Speed (rev/min)

B. Solution For Both Magnitude and Direction

The vector sum of T_{T} and T_{S} can be found so that the direction of belt pull, as well as magnitude, is known. This is necessary if belt pull is to be vectorially added to sprocket weight, shaft weight, etc., to find true bearing loads. In this case, the easiest method of finding the belt pull vector is by graphical addition of T_{T} and T_{S} . If only the magnitude of belt pull is needed, numerical methods for vector additions are faster to use.

If both direction and magnitude of belt pull are required, the vector sum of $T_{\scriptscriptstyle T}$ and $T_{\scriptscriptstyle S}$ can be found by graphical vector addition as shown in Fig. 6. $T_{\scriptscriptstyle T}$ and $T_{\scriptscriptstyle S}$ vectors are drawn to a convenient scale and parallel to the tightside and slack-side, respectively. Fig. 6 shows vector addition for belt pull on the motor shaft. The same procedures can be used for finding belt pull on the driveN shaft. This method may be used for drives using three or more sprockets or idlers. For two-sprocket drives, belt pull on the driveN and driveN

shafts is equal but opposite in direction. For drives using idlers, both magnitude and direction may be different.

C. Solution For Magnitude Only

If only the magnitude of belt pull is needed, follow the steps below. Use this method for drives with two sprockets. Use the graphical method shown if the drive uses idlers.

- 1. Add T_T and T_S
- **2.** Using the value of $\frac{D-d}{C}$ for the drive, find the vector sum correction factor using Fig. 7, where:

D = large diameter

d = small diameter

C = center distance

Or, use the arc of contact on the small sprocket if known.

 Multiply the sum of T_T plus T_S by the vector sum correction factor to find the vector sum of T_T plus T_S.

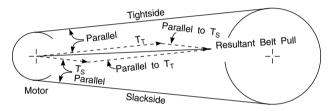


Figure 6

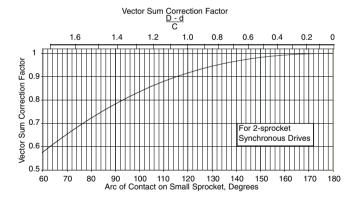


Figure 7

13. Bearing / Shaft Load Calculations

A. Shaft Load Calculations

If true side load on the shaft, including sprocket weight, is desired, the sprocket weight can be added to the belt pull using the same graphical method shown in Fig. 6. The sprocket weight vector is vertical toward the ground. Weights for standard sprockets are shown in the sprocket specification tables.

B. Bearing Load Calculations

In order to find actual bearing loads, it is necessary to know weights of machine components and the value of all other forces contributing to the load. However, it is sometimes desirable to know the bearing load contributed by the synchronous drive alone. Bearing loads resulting from a synchronous belt drive can be calculated knowing bearing placement with respect to the sprocket center and the shaft load as previously calculated. For rough estimates, machine designers sometimes use belt pull alone, ignoring sprocket weight. If accuracy is desired, or if the sprocket is unusually heavy, actual shaft load values including sprocket weight should be used.

A. Overhung Sprocket

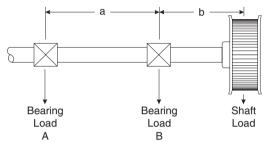


Figure 8

Formula 9

Load at B, (lb) =
$$\frac{ShaftLoad x (a+b)}{a}$$

Formula 10

Load at A, (lb) = Shaft Load x $\frac{b}{a}$

Where: a and b = spacing, (in), per Fig. 8

B. Sprocket Between Bearings

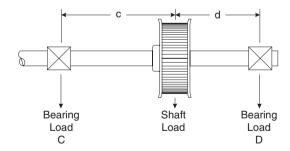


Figure 9

Formula 11

$$Load \ at \ D \ (lb) = \frac{ShaftLoad \times c}{(c+d)}$$

Formula 12

Load at C (lb) = $\frac{ShaftLoad \times d}{(c+d)}$

Where: c and d = spacing (in), per Fig. 9

14. Self-Generated Tension

All synchronous belt drives exhibit a self-generating or self-tightening characteristic when transmitting a load. Laboratory testing has shown this characteristic is similar with all tooth profiles. The designer/user should be aware that self-tensioning can result in increased bearing and shaft loads and reduced drive performance; i.e., short belt life. This can be avoided by following proper tensioning procedures.

Properly designed and tensioned drives will not be significantly affected by self-generated tension. While belt overtensioning can impose higher bearing and shaft loads and lead to reduced belt life, undertensioning can result in self-tensioning.

When a belt is too loose for the design load, the self-tensioning characteristic results in the belt teeth climbing out of the sprocket grooves, leading to increased stresses on the belt teeth, accelerated tooth wear and reduced belt life.

When a belt is severely undertensioned, the self-tensioning characteristic can result in the belt ratcheting (jumping teeth). When this occurs, significant shaft separation forces are instantaneously developed in the drive, resulting in damage to bearings, shafts, and other drive components including the belt.

NOTE: This is true for all synchronous belts.

Maximum drive performance and belt life are achieved when the belt is properly tensioned for the design load and maintained.

Made-to-order (MTO) PowerGrip® Belts

In addition to the stock industrial PowerGrip $^{@}$ belts listed in this catalog, Gates offers many special construction, made-to-order belts for use with stock sprockets. The table below lists some of them. Contact Gates for more information.

MTO BELT TYPES	APPLICATION
Alternate tensile member	Special applications: i.e., low rpm, shock loads and precise registration.
Nonstock widths and/or lengths in stock pitches	When exact width or length is required.
High temperature	Dry operation from -40°F to 230°F (-40°C to 110°C)
Oil resistance	For excessively oily conditions, including immersion in commercial motor oil. Temperature range: in oil, -20°F to 240°F (-29°C to 116°C); dry, -20°F to 210°F (-29°C to 99°C)
Static dissipating	Resistance of 6 megohms or less.
Low temperature	Dry temperature operation from -65°F to 180°F (-54°C to 82°C)
Nonmarking backing	For conveyors, food handling, etc., with taste and toxicity subject to customer approval.
Precision ground backing	Special applications involving a critical overall belt thickness dimension.
Special thickness rubber backing	For functional and other applications where belt back may require special thickness, durometer or material.
Special tracking	When belt must track in a specific direction.

Troubleshooting

Symptom	Diagnosis	Possible Remedy
Unusual noise	Misaligned drive	Correct alignment
	Too low or high belt tension	Adjust tension to recommended value
	Backside idler	Use inside idler
	Worn sprocket	Replace sprocket
	Bent guide flange	Replace sprocket/flange
	Belt speed too high	Redesign drive
	Incorrect belt profile for the sprocket (i.e., GT® etc.)	Use proper Gates PowerGrip® GT®2 belt/sprocket
	Subminimal diameter	Redesign drive using larger diameters
	Excess load	Redesign drive for increased capacity
Tension loss	Weak support structure	Reinforce the structure
	Excessive sprocket wear	Use alternate sprocket material
	Fixed (nonadjustable) centers	Use inside idler for belt adjustment
	Excessive debris	Protect drive
	Excessive load	Redesign drive for increased capacity
	Subminimal diameter	Redesign drive using larger diameters
	Belt, sprockets or shafts running too hot	Check for conductive heat transfer from prime mover
	Unusual belt degradation, such as softening or melting	Reduce ambient drive temperature to 180°F maximum
Belt tracking	Belt running partly off unflanged sprocket	Correct alignment
g	Centers exceed 8 times small sprocket diameter and the large sprocket is not flanged.	Correct parallel alignment to set belt to track on both sprockets
	Excessive belt edge wear	Correct alignment
Flange failure	Belt forcing flanges off	Correct alignment or properly secure flange to sprocket
Excessive belt edge wear	Damage due to handling	Follow proper handling instructions
	Flange damage	Repair flange or replace sprocket
	Belt too wide	Use proper width sprocket
	Belt tension too low	Adjust tension to recommended value
	Rough flange surface finish	Replace or repair flange (to eliminate abrasive surface)
	Improper tracking	Correct alignment
	Belt hitting drive guard or bracketry	Remove obstruction or use inside idler
Premature tooth wear	Too low or high belt tension	Adjust tension to recommended value
	Belt running partly off unflanged sprocket	Correct alignment
	Misaligned drive	Correct alignment
	Incorrect belt profile for the sprocket (i.e., GT®, etc.)	Use proper Gates PowerGrip® GT®2 belt/sprocket
	Worn sprocket	Replace sprocket
	Rough sprocket teeth	Replace sprocket
	Damaged sprocket	Replace sprocket
	Sprocket not to dimensional specification	Replace sprocket
	Belt hitting drive bracketry or other structure	Remove obstruction or use inside idler
	Excessive load	Redesign drive for increased capacity
	Excessive load	
		Use a more wear-resistant material
	Insufficient hardness of sprocket material Excessive debris	. ,

Troubleshooting

Symptom	Diagnosis	Possible Remedy
Tooth shear	Excessive shock loads	Redesign drive for increased capacity
	Less than 6 teeth-in-mesh	Redesign drive
	Extreme sprocket runout	Replace sprocket
	Worn sprocket	Replace sprocket
	Backside idler	Use inside idler
	Incorrect belt profile for the sprocket (i.e., GT, etc.)	Use proper Gates PowerGrip GT2 belt/sprocket
	Misaligned drive	Correct alignment
	Belt undertensioned	Adjust tension to recommended value
Tensile break	Excessive shock load	Redesign drive for increased capacity
	Subminimal diameter	Redesign drive using larger diameters
	Improper belt handling and storage prior to installation	Follow proper handling and storage procedures
	Debris or foreign object in drive	Protect drive
	Extreme sprocket runout	Replace sprocket
Unusual sprocket wear	Sprocket has too little wear resistance (i.e., plastic, aluminum, softer metals)	Use alternate sprocket material
	Misaligned drive	Correct alignment
	Excessive debris	Protect drive
	Excessive load	Redesign drive for increased capacity
	Too high, too low belt tension	Adjust tension to recommended value
	Incorrect belt profile (i.e. GT, etc.)	Use proper Gates PowerGrip GT2 belt/sprocket
Belt cracking	Subminimal diameter	Redesign drive using larger diameters
	Backside idler	Use inside idler
	Extreme low temperature startup	Preheat drive environment
	Extended exposure to harsh chemicals	Protect drive
	Cocked bushing/sprocket assembly	Install bushing per instructions
Excessive temperature	Misaligned drive	Correct alignment
(belt, bearing, hous-	Too low or too high belt tension	Adjust tension to recommended value
ing, shafts, etc.)	Incorrect belt profile (i.e. GT, etc.)	Use proper Gates PowerGrip GT2 belt/sprocket
Vibration	Incorrect belt profile for the sprocket (i.e. GT, etc.)	Use proper Gates PowerGrip GT2 belt/sprocket
	Too low or too high belt tension	Adjust tension to recommended value
	Bushing or key loose	Check and reinstall per instructions

Standard Calculations

Required	Given	Formula	
Speed ratio (R)	Shaft speeds (rpm)	R = rpm (faster shaft speed) rpm (slower shaft speed)	
	Pulley diameter (D & d)	$R = \frac{D \text{ (larger pulley diameter)}}{d \text{ (smaller pulley diameter)}}$	
	Number of pulley grooves (N & n)	$R = \frac{N \text{ (larger pulley groove no.)}}{n \text{ (smaller pulley groove no.)}}$	
Horsepower (hp) (33,000 lb-ft/min)	Torque (T) in lb-in Shaft speed (rpm)	$hp = \frac{T \times rpm}{63,025}$	
	Effective tension (Te) in lb. Belt velocity in fpm	$hp = \frac{\text{Te x V}}{33,000}$	
Design horsepower (Dhp)	Rated horsepower (hp) Service factor (SF)	Dhp = hp x SF	
Power (kw)	Horsepower (hp)	kw = .7457 x hp	
Torque (T) in lb-in	Shaft horsepower (hp) Shaft speed (rpm)	$T = \frac{63,025 \times hp}{rpm}$	
	Effective tension (Te) in lbs Pulley radius (R) in inches	T = Te x R	
Torque (T) in N-mm	Torque (T) in lb-inches	T = 112.98 x T	
Belt velocity in ft/min	Pulley pd in inches Pulley speed in rpm	$V = \frac{pd \ x \ rpm}{3.82}$	
Belt velocity in m/s	Pulley pd in mm Pulley speed in rpm	V = .0000524 x pd x rpm	
Belt pitch length (PL) in inches (approximate)	Center distance (C) in inches Pulley diameters (D & d) in inches	PL = 2C + $[1.57 \times (D-d)] + \frac{(D-d)^2}{4C}$	
Arc of contact on smaller pulley (A/Cs)	Pulley diameters (D & d) in inches Center distance (C) in inches	A / Cs = 180 $-\left[\frac{(D-d)\times60}{4C}\right]$	
Torque (T) due to flywheel effect (WR2) in lb-inches (accel. and/or decel.)	Final speed (RPM) Initial speed (rpm) Flywheel effect (WR²) in lbs-ft² Time (t) in seconds	$T = \frac{.039 \times (RPM - rpm) \times WR^2}{t}$	
Flywheel effect (WR ²) in lb-ft ²	Face width of rim (F) in inches Material density (Z) in lbs/in ³ Outside rim diameter (D) in inches Inside rim diameter (d) in inches	$WR^{2} = \frac{F \times Z \times (D^{4} - d^{4})}{1467}$	

Useful Formulas and Calculations

Power Transmission Conversions

FORCE CONVERSION CONSTANTS

Metric to U.S.

Newtons \times 3.5969 = Ounces_f Newtons \times 0.2248 = Pounds Kilograms_f \times 2.2046 = Pounds_f U.S. to Metric

Ounces_f \times 0.2780 = Newtons Pounds_f \times 4.4482 = Newtons Pounds_f \times 0.4536 = Kilograms_f Metric to Metric

Kilograms_f \times 9.8067 = Newtons Newtons \times 0.1020 = Kilograms_f

TORQUE CONVERSION CONSTANTS

Metric to U.S.

Newton Meters \times 141.6119 = Ounce_f Inches Newton Meters \times 8.8508 = Pound_f Inches Newton Meters \times 0.7376 = Pound_f Feet

Metric to Metric

Newton Meters \times 10.1972 = Kilogram_f Centimeters Kilogram_f Centimeters \times 0.0981 = Newton Meters Newton Meters \times 0.1020 = Kilogram_f Meters $Kilogram_f Meters \times 9.8067 = Newton Meters$

U.S. to Metric

Ounce Inches \times 0.0071 = Newton Meters Pound_f Inches \times 0.1130 = Newton Meters Pound_f Feet \times 1.3558 = Newton Meters

POWER CONVERSION CONSTANTS

Metric to U.S.

 $Kilowatt \times 1.3410 = Horsepower$ Watt \times 0.0013 = Horsepower

U.S. to Metric

Horsepower \times 745.6999 = Watt Horsepower \times 0.7457 = Kilowatt

LINEAR BELT SPEED CONVERSION CONSTANTS

Metric to U.S.

Meters per second \times 196.8504 = Feet per Minute

U.S. to Metric

Feet per Minute \times 0.005080 = Meters per Second Square Miles × 2.5900 = Square Kilometers

U.S. to U.S.

Feet per Second \times 60.00 = Feet per Minute Feet per Minute \times 0.0167 = Feet per Second

Other Conversions

LENGTH CONVERSION CONSTANTS

Metric to U.S.

Millimeters \times 0.0394 = Inches Meters \times 39.3701 = Inches Meters \times 3.2808 = Feet Meters \times 1.0936 = Yards Kilometers \times 3280.84 = Feet Kilometers \times 0.6214 = Statute Miles Kilometers \times 0.5396 = Nautical Miles U.S. to Metric

Inches \times 25.4000 = Millimeters Inches \times 0.0254 = Meters Feet \times 0.3048 = Meters Yards \times 0.9144 = Meters Feet \times 0.0003048 = Kilometers Statute Miles × 1.6093 = Kilometers Nautical Miles \times 1.8532 = Kilometers

AREA CONVERSION CONSTANTS

Metric to U.S.

Square Millimeters \times 0.0016 = Square Inches Square Centimeters \times 0.1550 = Square Inches Square Meters \times 10.7639 = Square Feet Square Meters \times 1.1960 = Square Yards

Hectares \times 2.4711 = Acres

Square Kilometers \times 247.105 = Acres Square Kilometers \times 0.3861 = Square Miles U.S. to Metric

Square Inches \times 645.160 = Square Millimeters Square Inches \times 6.4516 = Square Centimeters Square Feet \times 0.0929 = Square Meters Square Yards \times 0.8361 = Square Meters Acres \times 0.4047 = Hectares

Acres \times 0.004047 = Square Kilometers Square Miles \times 2.5900 = Square Kilometers



Useful Formulas and Calculations

Other Conversions — continued

WEIGHT CONVERSION CONSTANTS

Metric to U.S.

Grams \times 15.4324 = Grains

Grams \times 0.0353 = Ounces (Avd.)

Grams \times 0.0338 = Fluid Ounces (water)

Kilograms \times 35.2740 = Ounces (Avd.) Kilograms \times 2.2046 = Pounds (Avd.)

Metric Tons (1000 Kg) \times 1.1023 = Net Ton (2000 lbs.)

Metric Tons (1000 Kg) \times 0.9842 = Gross Ton (2240 lbs.)

U.S. to Metric

Grains \times 0.0648 = Grams

Ounces (Avd.) \times 28.3495 = Grams

Fluid Ounces (water) \times 29.5735 = Grams

Ounces (Avd.) \times 0.0283 = Kilograms

Pounds (Avd.) \times 0.4536 = Kilograms

Net Ton (2000 lbs.) \times 0.9072 = Metric Tons (1000 Kg) Gross Ton (2240 lbs.) \times 1.0160 = Metric Tons (1000 Kg)

DECIMAL AND MILLIMETER EQUIVALENTS OF FRACTIONS

Inches			Inches		
Fractions	Decimals	Millimeters	Fractions	Decimals	Millimeters
1/64	.015625	.397	33/64	.515625	13.097
1/32	.03125	.794	1//20	.53125	13.494
3/64	.046875	1.191	35/64	.546875	13.891
1/16	.0625	1.588	9/ ₁₆ —	.5625	14.288
5/64	.078125	1.984	37_{64} ————————————————————————————————————	.578125	14.684
3/32	.09375	2.381	19/32 ———	.59375	15.081
7/64	.109375	2.778	39/64	.609375	15.478
1/8 —	.125	3.175	5/8 —	.625	15.875
9/64	.140625	3.572	41/64	.640625	16.272
J/22	.15625	3.969	21/00	.65625	16.669
11/64 - 3/	.171875	4.366	43/64	.671875	17.066
9/10	.1875	4.763	11/16 —	.6875	17.463
13/64	.203125	5.159	45/64	.703125	17.859
7/32	.21875	5.556	23/32	.71875	18.256
15/64	.234375	5.953	47/64	.734375	18.653
1/4 —	.250	6.350	3/4 —	.750	19.050
17/64	.265625	6.747	49/64	.765625	19.447
3/00	.28125	7.144	25/32 ———	.78125	19.844
19/64	.296875	7.541	51/64	.796875	20.241
3/40	.3125	7.938	13/16 —	.8125	20.638
21/64	.328125	8.334	53/64	.828125	21.034
11/22	.34375	8.731	21/22	.84375	21.431
23/64	.359375	9.128	55/64 - 7.2	.859375	21.828
J/ ₀ —	.375	9.525	1/0 —	.875	22.225
25/64	.390625	9.922	57/64 —————	.890625	22.622
13/22	.40625	10.319	29/00	.90625	23.019
27/64	.421875	10.716	J3/C4	.921875	23.416
//16	.4375	11.113	13/16	.9375	23.813
29/64	.453125	11.509	61/64	.953125	24.209
15/22	.46875	11.906	$31/_{22}$ ————	.96875	24.606
31/64	.484375	12.303	63/64	.984375	25.003
1/2 —	.500	12.700	1 —	1.000	25.400

Synchronous Belt Product Design Catalogs

Gates Synchronous Belt Products	Pitch	For Design Information Refer to:
Poly Chain [®] GT [®] 2	8mm, 14mm	Poly Chain [®] GT [®] 2 Belt Drive Design Manual Catalog 17595
PowerGrip [®] GT [®] 2	5mm, 8mm, 14mm, 20mm	PowerGrip [®] Belt Systems Drive Design Manual Catalog 17195
PowerGrip [®] GT [®] 2	2mm, 3mm	Light Power & Precision Drives Design Manual Catalog 17183
PowerGrip [®] HTD [®]	3mm, 5mm	Light Power & Precision Drives Design Manual Catalog 17183
PowerGrip [®] Timing	XL, L, H	PowerGrip [®] Belt Systems Drive Design Manual Catalog 17195
PowerGrip [®] Timing	MXL, XL	Light Power & Precision Drives Design Manual Catalog 17183
Poly Chain [®] GT [®] Long Length Belting	8mm,14mm	PowerGrip [®] Belt Systems Drive Design Manual Catalog 17195
PowerGrip [®] Timing Long Length Belting	MXL, XL, L, H	PowerGrip [®] Belt Systems Drive Design Manual Catalog 17195
PowerGrip [®] HTD Long Length Belting	3mm, 5mm, 8mm, 14mm HTD	PowerGrip [®] Belt Systems Drive Design Manual Catalog 17195
PowerGrip [®] GT [®] Long Length Belting	2mm, 3mm, 5mm, 8mm PowerGrip GT	PowerGrip [®] Belt Systems Drive Design Manual Catalog 17195
Synchro-Power Polyurethane Long Length Belting	T5, T10, T20, AT5, AT10, AT20, XL, L, H, XH, 5mm, 8mm, 14mm HTD	PowerGrip [®] Belt Systems Drive Design Manual Catalog 17195
Twin Power [®]	XL, L, H PowerGrip Timing, 8mm, 14mm PowerGrip GT2	PowerGrip [®] Belt Systems Drive Design Manual Catalog 17195

Synchronous Belt Product Listing

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8mm Pitch Poly Chain GT2 and Short Length Poly Chain GT Belts

8M and 8MGT Stock Belt Lengths

		0.1	n and bivion .
Part Pitch Length		No. of	
No.	(mm)	(in)	Teeth
8M-248	248	9.77	31
8M-288	288	11.34	36
8M-352	352	13.86	44
8M-416	416	16.38	52
8M-456	456	17.96	57
8M-480	480	18.90	60
8M-544	544	21.42	68
8M-608	608	23.94	76
8MGT-640	640	25.20	80
8MGT-720	720	28.35	90
8MGT-800	800	31.50	100
8MGT-896	896	35.28	112
8MGT-1000	1000	39.38	125
8MGT-1120	1120	44.10	140

Part	Pitch Length		No. of
No.	(mm)	(in)	Teeth
8MGT-1200	1200	47.25	150
8MGT-1280	1280	50.40	160
8MGT-1440	1440	56.70	180
8MGT-1600	1600	63.00	200
8MGT-1792	1792	70.56	224
8MGT-2000	2000	78.75	250
8MGT-2240	2240	88.20	280
8MGT-2400	2400	94.50	300
8MGT-2520	2520	99.23	315
8MGT-2840	2840	111.83	355
8MGT-3200	3200	126.00	400
8MGT-3600	3600	141.75	450
8MGT-4000	4000	157.50	500
8MGT-4480	4480	176.40	560

8M Short Length Stock Belt Widths

Belt Width Code	Belt Width (mm)	Belt Width (in)
12	12	0.472
21	21	0.827
36	36	1.417

8MGT Stock Belt Widths

Belt Width Code	Belt Width (mm)	Belt Width (in)
12	12	0.472
21	21	0.827
36	36	1.417
62	62	2.441

14mm Pitch Poly Chain GT2 Stock Belts

14MGT Stock Belt Lengths

	Pitch Length		No. of
Part No.	(mm)	(in)	Teeth
14MGT-994	994	39.13	71
14MGT-1120	1120	44.09	80
14MGT-1190	1190	46.85	85
14MGT-1260	1260	49.60	90
14MGT-1400	1400	55.11	100
14MGT-1568	1568	61.73	112
14MGT-1750	1750	68.89	125
14MGT-1890	1890	74.40	135
14MGT-1960	1960	77.16	140
14MGT-2100	2100	82.67	150

	Pitch Length		No. of
Part No.	(mm)	(in)	Teeth
14MGT-2240	2240	88.18	160
14MGT-2380	2380	93.69	170
14MGT-2520	2520	99.20	180
14MGT-2660	2660	104.71	190
14MGT-2800	2800	110.23	200
14MGT-3136	3136	123.45	224
14MGT-3304	3304	130.07	236
14MGT-3500	3500	137.78	250
14MGT-3920	3920	154.32	280
14MGT-4410	4410	173.60	315

14MGT Stock Belt Widths

Belt Width Code	Belt Width (mm)	Belt Width (in)
20	20	0.787
37	37	1.457
68	68	2.677
90	90	3.543
125	125	4.921

2mm Pitch PowerGrip® GT®2 Stock Belts

2MR Stock Belt Lengths

			ZIVIR Stoc
	Pitch Length		No. of
Part No.	(mm)	(in)	Teeth
2MR-100	100	3.94	50
2MR-112	112	4.41	56
2MR-126	126	4.96	63
2MR-134	134	5.28	67
2MR-136	136	5.35	68
2MR-140	140	5.51	70
2MR-152	152	5.98	76
2MR-158	158	6.22	79
2MR-160	160	6.30	80
2MR-164	164	6.46	82
2MR-166	166	6.54	83
2MR-168	168	6.61	84
2MR-172	172	6.77	86
2MR-180	180	7.09	90
2MR-192	192	7.56	96
2MR-200	200	7.87	100
2MR-202	202	7.95	101
2MR-210	210	8.27	105
2MR-212	212	8.35	106
2MR-216	216	8.50	108
2MR-220	220	8.66	110
2MR-232	232	9.13	116
2MR-236	236	9.29	118
2MR-240	240	9.45	120
2MR-250	250	9.84	125
2MR-252	252	9.92	126
2MR-258	258	10.16	129

	Pitch Length		No. of
Part No.	(mm)	(in)	Teeth
2MR-278	278	10.94	139
2MR-280	280	11.02	140
2MR-300	300	11.81	150
2MR-320	320	12.60	160
2MR-322	322	12.68	161
2MR-346	346	13.62	173
2MR-350	350	13.78	175
2MR-364	364	14.33	182
2MR-370	370	14.57	185
2MR-380	380	14.96	190
2MR-386	386	15.20	193
2MR-400	400	15.75	200
2MR-406	406	15.98	203
2MR-420	420	16.54	210
2MR-456	456	17.95	228
2MR-470	470	18.50	235
2MR-474	474	18.66	237
2MR-488	488	19.21	244
2MR-504	504	19.84	252
2MR-528	528	20.79	264
2MR-552	552	21.73	276
2MR-576	576	22.68	288
2MR-600	600	23.62	300
2MR-640	640	25.20	320
2MR-696	696	27.40	348
2MR-744	744	29.29	372
2MR-1164	1164	45.83	582

2MR Stock Belt Widths

Belt Width Code	Belt Width (mm)	Belt Width (in)
04	4	0.157
06	6	0.236
09	9	0.354

3mm Pitch PowerGrip GT2 Stock Belts

3MR Stock Belt Lengths

	Pitch Length		No. of
Part No.	(mm)	(in)	Teeth
3MR-165	165	6.50	55
3MR-189	189	7.44	63
3MR-201	201	7.91	67
3MR-219	219	8.62	73
3MR-225 3MR-240 3MR-243 3MR-267 3MR-282 3MR-291	225 240 243 267 282 291	8.86 9.45 9.57 10.51 11.10 11.46	75 80 89 94 97
3MR-300	300	11.81	100
3MR-339	339	13.35	113
3MR-348	348	13.70	116
3MR-357	357	14.06	119
3MR-360	360	14.17	120
3MR-375	375	14.76	125
3MR-420	420	16.54	140

	Pitch Length		No. of
Part No.	(mm)	(in)	Teeth
3MR-447	447	17.60	149
3MR-450	450	17.72	150
3MR-474	474	18.66	158
3MR-480	480	18.90	160
3MR-483	483	19.02	161
3MR-489	489	19.25	163
3MR-537	537	21.14	179
3MR-600	600	23.62	200
3MR-630	630	24.80	210
3MR-684	684	26.93	228
3MR-750	750	29.53	250
3MR-840	840	33.07	280
3MR-945	945	37.20	315
3MR-1050	1050	41.34	350
3MR-1080	1080	42.52	360
3MR-1536	1536	60.47	512
3MR-2061	2062	81.18	687

3MR Stock Belt Widths

Belt Width Code	Belt Width (mm)	Belt Width (in)
06	6	0.236
09	9	0.354
15	15	0.591

5mm Pitch PowerGrip® GT®2 Stock Belt Lengths

5MR Stock Belt Lengths

			SIVIR STOCK
	Pitch Length		No. of
Part No.	(mm)	(in)	Teeth
5MR-300	300	11.81	60
5MR-355	355	13.98	71
5MR-375	375	14.76	75
5MR-400	400	15.75	80
5MR-405	405	15.94	81
5MR-425	425	16.73	85
5MR-450	450	17.72	90
5MR-500	500	19.69	100
5MR-535	535	21.06	107
5MR-565	565	22.24	113
5MR-580	580	22.83	116
5MR-600	600	23.62	120
5MR-625	625	24.61	125

J	Pitch Length		No. of
Part No.	(mm)	(in)	Teeth
5MR-650	650	25.59	130
5MR-700	700	27.56	140
5MR-750	750	29.53	150
5MR-800	800	31.50	160
5MR-850	850	33.46	170
5MR-900	900	35.43	180
5MR-1000	1000	39.37	200
5MR-1150	1150	45.28	230
5MR-1300	1300	51.18	260
5MR-1450	1450	57.09	290
5MR-1600	1600	62.99	320
5MR-1720	1720	67.72	344
5MR-2100	2100	82.67	420

5MR Stock Belt Widths

Belt Width Code	Belt Width (mm)	Belt Width (in)
09	9	0.354
15	15	0.591
25	25	0.984

8mm Pitch PowerGrip GT2 Belts

8MGT Stock Belt Lengths

	Pitch Length		No. of
Part No.	(mm)	(in)	Teeth
384-8MGT	384	15.12	48
480-8MGT	480	18.89	60
560-8MGT	560	22.05	70
600-8MGT	600	23.62	75
640-8MGT	640	25.20	80
720-8MGT	720	28.35	90
800-8MGT	800	31.50	100
840-8MGT	840	33.07	105
880-8MGT	880	34.65	110
920-8MGT	920	36.22	115
960-8MGT	960	37.80	120
1040-8MGT	1040	40.94	130
1064-8MGT	1064	41.89	133
1120-8MGT	1120	44.09	140
1160-8MGT	1164	45.67	145
1200-8MGT	1200	47.24	150
1224-8MGT	1224	48.19	153

	Pitch Length		No. of
Part No.	(mm)	(in)	Teeth
1280-8MGT	1280	50.39	160
1440-8MGT	1440	56.69	180
1512-8MGT	1512	59.53	189
1584-8MGT	1584	62.36	198
1600-8MGT	1600	62.99	200
1760-8MGT	1760	69.29	220
1800-8MGT	1800	70.87	225
2000-8MGT	2000	78.74	250
2200-8MGT	2200	86.61	275
2400-8MGT	2400	94.49	300
2600-8MGT	2600	102.36	325
2800-8MGT	2800	110.24	350
3048-8MGT	3048	120.00	381
3280-8MGT	3280	129.13	410
3600-8MGT	3600	141.73	450
4400-8MGT	4400	173.23	550

8MGT Stock Belt Widths

Belt Width Code	Belt Width (mm)	Belt Width (in)
20	20	0.787
30	30	1.181
50	50	1.969
85	85	3.346

Refer to the Industrial Power Transmission Products catalog, 19993, for a listing of 8mm and 14mm pitch PowerGrip GT belts for replacement use on existing PowerGrip GT or HTD drives.

14mm Pitch PowerGrip® GT®2 Belts

14MGT Stock Belt Lengths

14001 30			
	Pitch Length		No. of
Part No.	(mm)	(in)	Teeth
966-14MGT	966	38.03	69
1190-14MGT	1190	46.85	85
1400-14MGT	1400	55.12	100
1610-14MGT	1610	63.39	115
1778-14MGT	1778	70.00	127
1890-14MGT	1890	74.41	135
2100-14MGT	2100	82.63	150
2310-14MGT	2310	90.94	165
2450-14MGT	2450	96.46	175
2590-14MGT	2590	101.97	185
2800-14MGT	2800	110.24	200

	Pitch Length		No. of
Part No.	(mm)	(in)	Teeth
3150-14MGT	3150	124.02	225
3360-14MGT	3360	132.28	240
3500-14MGT	3500	137.80	250
3850-14MGT	3850	151.57	275
4326-14MGT	4326	170.32	309
4578-14MGT	4578	180.24	327
4956-14MGT	4956	195.12	354
5320-14MGT	5320	209.45	380
5740-14MGT	5740	225.98	410
6160-14MGT	6160	242.52	440
6860-14MGT	6860	270.08	490

14MGT Stock Belt Widths

Belt Width Code	Belt Width (mm)	Belt Width (in)
40	40	1.575
55	55	2.165
85	85	3.346
115	115	4.528
170	170	6.693

Refer to the Industrial Power Transmission Products catalog, 19993, for a listing of 8mm and 14mm pitch PowerGrip GT belts for replacement use on existing PowerGrip GT or HTD drives.

20mm Pitch PowerGrip GT2 Stock Belt Lengths

20M Stock Belt Lengths

	Pitch Length		No. of
Part No.	(mm)	(in)	Teeth
2000-20M	2000	78.74	100
2500-20M	2500	98.43	125
3400-20M	3400	133.86	170
3800-20M	3800	149.61	190
4200-20M	4200	165.35	210
4600-20M	4600	181.10	230
5000-20M	5000	196.85	250
5200-20M	5200	204.72	260

	Pitch Length		No. of
Part No.	(mm)	(in)	Teeth
5400-20M	5400	212.60	270
5600-20M	5600	220.47	280
5800-20M	5800	228.35	290
6000-20M	6000	236.22	300
6200-20M	6200	244.09	310
6400-20M	6400	251.97	320
6600-20M	6600	259.84	330

20M Stock Belt Widths

Belt Widt Code	Belt Width (mm)	Belt Width (in)
115	115	4.528
170	170	6.693
230	230	9.055
290	290	11.417
340	340	13.386

3mm Pitch PowerGrip® HTD® Belts

3M Stock Belt Widths

			3101 31001
	Pitch Length		No. of
Part No.	(mm)	(in)	Teeth
150-3M	150	5.91	50
159-3M	159	6.26	53
168-3M	168	6.61	56
177-3M	177	6.97	59
189-3M	189	7.44	63
201-3M	201	7.91	67
213-3M	213	8.39	71
225-3M	225	8.86	75
240-3M	240	9.45	80
252-3M	252	9.92	84
255-3M	255	10.04	85
267-3M	267	10.51	89
285-3M	285	11.22	95
300-3M	300	11.81	100
312-3M	312	12.28	104
318-3M	318	12.52	106
339-3M	339	13.35	113
357-3M	357	14.06	119
363-3M	363	14.29	121
384-3M	384	15.12	128
390-3M	390	15.35	130
399-3M	399	15.71	133

	Pitch Length		No. of
Part No.	(mm)	(in)	Teeth
420-3M	420	16.54	140
447-3M	447	17.60	149
474-3M	474	18.66	158
486-3M	486	19.13	162
501-3M	501	19.72	167
513-3M	513	20.20	171
531-3M	531	20.91	177
564-3M	564	22.20	188
597-3M	597	23.50	199
633-3M	633	24.92	211
669-3M	669	26.34	223
711-3M	711	27.99	237
753-3M	753	29.65	251
795-3M	795	31.30	265
843-3M	843	33.19	281
882-3M	882	34.72	294
945-3M	945	37.20	315
1002-3M	1002	39.45	334
1062-3M	1062	41.81	354
1125-3M	1125	44.29	375
1191-3M	1191	46.89	397
1263-3M	1263	49.72	421

3M HTD Stock Belt Widths

Belt Width Code	Belt Width (mm)	Belt Width (in)
06	6	0.236
09	9	0.354
15	15	0.591

5mm Pitch PowerGrip HTD Belts

5M Stock Belt Widths

	Pitch Length		No. of
Part No.	(mm)	(in)	Teeth
350-5M	350	13.78	70
375-5M	375	14.76	75
400-5M	400	15.75	80
425-5M	425	16.73	85
450-5M	450	17.72	90
475-5M	475	18.70	95
500-5M	500	19.69	100
535-5M	535	21.06	107
565-5M	565	22.24	113
600-5M	600	23.62	120
635-5M	635	25.00	127
670-5M	670	26.38	134
710-5M	710	27.95	142
740-5M	740	29.13	148
800-5M	800	31.50	160
850-5M	850	33.46	170

	Pitch Length		No. of
Part No.	(mm)	(in)	Teeth
890-5M	890	35.04	178
950-5M	950	37.40	190
1000-5M	1000	39.37	200
1050-5M	1050	41.34	210
1125-5M	1125	44.29	225
1195-5M	1195	47.05	239
1270-5M	1270	50.00	254
1420-5M	1420	55.91	284
1595-5M	1595	62.80	319
1690-5M	1690	66.54	338
1790-5M	1790	70.47	358
1895-5M	1895	74.61	379
2000-5M	2000	78.74	400
2250-5M	2250	88.58	450
2525-5M	2525	99.40	505

5M HTD Stock Belt Widths

Belt Width Code	Belt Width (mm)	Belt Width (in)
09	9	0.354
15	15	0.591
25	25	0.984

MXL Pitch PowerGrip® Timing Belts

MXL Stock Belt Lengths

Part No.	Pitch Length (in)	No. of Teeth
36MXL	3.60	45
40MXL	4.00	50
44MXL	4.40	55
48MXL	4.80	60
56MXL	5.60	70
64MXL	6.40	80
68MXL	6.80	85
72MXL	7.20	90
76MXL	7.60	95
80MXL	8.00	100
88MXL	8.80	110
96MXL	9.60	120
104MXL	10.40	130

Part No.	Pitch Length (in)	No. of Teeth
112MXL	11.20	140
120MXL	12.00	150
132MXL	13.20	165
140MXL	14.00	175
152MXL	15.20	190
160MXL	16.00	200
168MXL	16.80	210
180MXL	18.00	225
200MXL	20.00	250
208MXL	20.80	260
236MXL	23.60	295
240MXL	24.00	300
320MXL	32.00	400

MXL Stock Belt Widths

Belt Width Code	Belt Width (in)
012	0.125
019	0.188
025	0.250

XL Pitch PowerGrip Timing Belts

XL Stock Belt Lengths

Part No.	Pitch Length (in)	No. of Teeth
50XL	5.00	25
60XL	6.00	30
70XL	7.00	35
80XL	8.00	40
90XL	9.00	45
100XL	10.00	50
110XL	11.00	55
120XL	12.00	60
130XL	13.00	65
140XL	14.00	70
150XL	15.00	75
160XL	16.00	80
170XL	17.00	85
180XL	18.00	90
190XL	19.00	95
200XL	20.00	100
210XL	21.00	105
220XL	22.00	110
230XL	23.00	115
240XL	24.00	120
250XL	25.00	125

	Pitch Length	No. of
Part No.	(in)	Teeth
260XL	26.00	130
280XL	28.00	140
290XL	29.00	145
300XL	30.00	150
310XL	31.00	155
330XL	33.00	165
340XL	34.00	170
350XL	35.00	175
370XL	37.00	185
380XL	38.00	190
390XL	39.00	195
400XL	40.00	200
420XL	42.00	210
450XL	45.00	225
460XL	46.00	230
480XL	48.00	240
500XL	50.00	250
570XL	57.00	285
630XL	63.00	315
770XL	77.00	385

XL Stock Belt Widths

Belt Width	Belt Width
Code	(in)
025	0.250
037	0.375

L Pitch PowerGrip® Timing Belts

L Stock Belt Lengths

L 310Cl		
Part No.	Pitch Length (in)	No. of Teeth
124L	12.38	33
135L	13.50	36
150L	15.00	40
165L	16.50	44
187L	18.75	50
195L	19.50	52
210L	225L 22.50 60	
225L		
240L	24.00	64
255L	25.50	68
270L	27.00	72
285L	28.50	76
300L	30.00	80
315L	31.50	84

Part No.	Pitch Length No. of (in) Teeth	
322L	32.25	86
345L	34.50	92
367L	36.75	98
390L	39.00	104
420L	42.00	112
450L	45.00	120
480L	48.00	128
510L	51.00	136
540L	54.00	144
600L	60.00	160
660L	66.00	176
817L	81.75	218
900L	90.00	240

L Stock Belt Widths

Belt Width Code	Belt Width (in)
050	0.500
075	0.750
100	1.000

H Pitch PowerGrip Timing Belts

H Stock Belt Lengths

Part No.	Pitch Length No. of Tee	
210H	21.00	42
220H	22.00	44
230H	23.00	46
240H	24.00	48
270H	27.00	54
300H	30.00	60
320H	32.00	64
330H	33.00	66
340H	34.00	68
350H	35.00	70
360H	36.00	72
370H	37.00	74
390H	39.00	78
400H	40.00	80
410H	41.00	82
420H	42.00	84
450H	45.00	90
480H	48.00	96
490H	49.00	98
510H	51.00	102
540H	54.00	108
560H	56.00	112
570H	57.00	114

Part No. Pitch Length		No. of Teeth
585H		
600H	60.00	120
630H	63.00	126
645H	64.50	129
660H	66.00	132
700H	70.00	140
730H	73.00	146
750H	75.00	150
780H	78.00	156
800H	80.00	160
820H	82.00	164
840H		
850H	85.00	170
900H	90.00	180
960H		
1000H	1000H 100.00	
1100H	110.00	220
1140H	114.00	228
1250H	125.00	250
1400H	1400H 140.00	
1550H	155.00	310
1700H	170.00	340

H Stock Belt Widths

1 Otook Belt Widtis			
Belt Width Code	Belt Width (in)		
75	0.750		
100	1.000		
150	1.500		
200	2.000		
300	3 000		

Refer to the Industrial Power Transmission Products catalog, 19993, for a listing of XH and XXH PowerGrip Timing belts for replacement use on existing drives.



8mm Pitch PowerGrip® GT®2 Twin Power® Belts

TP 8MGT Stock Belt Lengths

	IF BIVIGITS			
		Pitch Length		No. of
	Part No.	(mm)	(in)	Teeth
ſ	TP840-8MGT	840	33.08	105
١	TP880-8MGT	880	34.65	110
١	TP920-8MGT	920	36.23	115
١	TP960-8MGT	960	37.80	120
ı	TP1040-8MGT	1040	40.95	130
ſ	TP1120-8MGT	1120	44.10	140
١	TP1200-8MGT	1200	47.25	150
١	TP1224-8MGT	1224	48.20	153
١	TP1280-8MGT	1280	50.40	160
١	TP1440-8MGT	1440	56.70	180
١	TP1600-8MGT	1600	63.00	200

<u> </u>			
	Pitch Length		No. of
Part No.	(mm)	(in)	Teeth
TP1760-8MGT	1760	69.30	220
TP1800-8MGT	1800	70.88	225
TP2000-8MGT	2000	78.75	250
TP2200-8MGT	2200	86.63	275
TP2400-8MGT	2400	94.50	300
TP2600-8MGT	2600	102.38	325
TP2800-8MGT	2800	110.25	350
TP3048-8MGT	3048	120.02	381
TP3280-8MGT	3280	129.15	410
TP3600-8MGT	3600	141.75	450
TP4400-8MGT	4400	173.25	550

8MGT2 Twin Power Stock Belt Widths

Belt Width Code	Belt Width (mm)	Belt Width (in)
20	20	0.787
30	30	1.181
50	50	1.969
85	85	3.346

14mm Pitch PowerGrip GT2 Twin Power Belts

TP 14MGT Stock Belt Lengths

	Pitch Length		No. of
Part No.	(mm)	(in)	Teeth
TP966-14MGT	966	38.03	69
TP1190-14MGT	1190	46.85	85
TP1400-14MGT	1400	55.12	100
TP1610-14MGT	1610	63.38	115
TP1778-14MGT	1778	70.00	127
TP1890-14MGT	1890	74.41	135
TP2100-14MGT	2100	82.67	150
TP2310-14MGT	2310	90.94	165
TP2450-14MGT	2450	96.45	175

	Pitch Length		No. of
Part No.	(mm)	(in)	Teeth
TP2590-14MGT	2590	101.96	185
TP2800-14MGT	2800	110.23	200
TP3150-14MGT	3150	124.01	225
TP3360-14MGT	3360	132.28	240
TP3500-14MGT	3500	137.79	250
TP3850-14MGT	3850	151.57	275
TP4326-14MGT	4326	170.31	309
TP4578-14MGT	4578	180.23	327

14MGT2 Twin Power Stock Belt Widths

Belt Width Code	Belt Width (mm)	Belt Width (in)
40	40	1.575
55	55	2.165
85	85	3.346

Refer to the Industrial Power Transmission Products catalog, 19993, for a listing of 8mm and 14mm pitch PowerGrip GT Twin Power belts for replacement use on existing PowerGrip GT or HTD Twin Power drives.

XL Pitch PowerGrip® Twin Power® Timing Belts

Stock Belt Lengths

Part No.	Pitch Length (in)	No. of Teeth
TP140XL	14.00	70
TP150XL	15.00	75
TP160XL	16.00	80
TP170XL	17.00	85
TP180XL	18.00	90
TP190XL	19.00	95
TP200XL	20.00	100
TP210XL	21.00	105
TP220XL	22.00	110
TP230XL	23.00	115

Part No.	Pitch Length (in)	No. of Teeth
TP240XL	24.00	120
TP250XL	25.00	125
TP260XL	26.00	130
TP270XL	27.00	135
TP280XL	28.00	140
TP290XL	29.00	145
TP300XL	30.00	150
TP310XL	31.00	155
TP330XL	33.00	165
TP340XL	34.00	170

XL Twin Power Stock Belt Widths

Belt Width	Belt Width
Code	(in)
025	0.250
037	0.375

L Pitch PowerGrip Twin Power Timing Belts

Stock Belt Lengths

Part No.	Pitch Length (in)	No. of Teeth
TP150L	15.00	40
TP165L	16.50	44
TP187L	18.75	50
TP195L	19.50	52
TP210L	21.00	56
TP225L	22.50	60
TP240L	24.00	64
TP255L	25.50	68
TP270L	27.00	72
TP285L	28.50	76
TP300L	30.00	80
TP322L	32.25	86

Part No.	Pitch Length (in)	No. of Teeth
TP345L	34.50	92
TP367L	36.75	98
TP390L	39.00	104
TP420L	42.00	112
TP450L	45.00	120
TP480L	48.00	128
TP510L	51.00	136
TP540L	54.00	144
TP600L	60.00	160
TP660L	66.00	176
TP817L	81.75	218

L Twin Power. Stock Belt Widths

Belt Width Code	Belt Width (in)	
050	0.500	
075	0.750	
100	1.000	

H Pitch PowerGrip® Twin Power® Timing Belts

Stock Belt Lengths

Part No.	Pitch Length (in)	No. of Teeth
TP240H	24.00	48
TP270H	27.00	54
TP300H	30.00	60
TP330H	33.00	66
TP350H	35.00	70
TP360H	36.00	72
TP390H	39.00	78
TP400H	40.00	80
TP420H	42.00	84
TP450H	45.00	90
TP480H	48.00	96
TP510H	51.00	102
TP540H	54.00	108
TP570H	57.00	114

Part No.	Pitch Length (in)	No. of Teeth
TP600H	60.00	120
TP630H	63.00	126
TP660H	66.00	132
TP700H	70.00	140
TP750H	75.00	150
TP800H	80.00	160
TP850H	85.00	170
TP900H	90.00	180
TP1000H	100.00	200
TP1100H	110.00	220
TP1250H	125.00	250
TP1400H	140.00	280
TP1700H	170.00	340

H Twin Power Stock Belt Widths

Belt Width Code	Belt Width (in)	
075	0.750	
100	1.000	
150	1.500	
200	2.000	
300	3.000	

PowerGrip® Timing — Long Length Belting

Mini-Pitch (0.080/MXL) — Fiberglass Tensile

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Part No.	Product No.	Width (in)	Net Wt. /ft. (lbs)	
LL025MXL	9314-2020	1/4	0.01	
LL037MXL	9314-2014	3/8	0.02	
LL050MXL	9314-2038	1/2	0.02	

1/5 Pitch (0.200/XL) - Steel Tensile

Part No.	Product No.	Width (in)	Net Wt. /ft. (lbs)
LL025XLST	9314-10028	1/4	0.064
LL037XLST LL050XLST	9314-10029 9314-10030	³ / ₈ 1/ ₂	0.072 0.082

1/5 Pitch (0.200/XL) - Fiberglass Tensile

Part No.	Product No.	Width (in)	Net Wt. /ft. (lbs)
LL025XL	9314-0001	1/4	0.01
LL037XL	9314-0002	3/8	0.01
LL050XL	9314-2012	1/2	0.03
LL075XL	9314-2090	3/4	0.04

3/8 Pitch (0.375/L) - Steel Tensile

Part No.	Product	Width	Net Wt. /ft.
	No.	(in)	(lbs)
LL050LST	9314-10035	1/2	0.163
LL075LST	9314-10036	3/4	0.198

3/8 Pitch (0.375/L) - Fiberglass Tensile

Part No.	Product No.	Width (in)	Net Wt. /ft. (lbs)
LL037L	9314-2089	3/8	0.02
LL050L	9314-0004	1/2	0.02
LL075L	9314-0007	3/4	0.04
LL100L	9314-0015	1	0.05

1/2" Pitch (0.500"/H) - Steel Tensile

Part No.	Product	Width	Net Wt. /ft.
	No.	(in)	(lbs)
LL075HST	9314-10011	3/4	0.229
LL100HST	9314-10037	1	0.253

1/2" Pitch (0.500"/H) - Fiberglass Tensile

<u></u>			
Part No.	Product No.	Width (in)	Net Wt. /ft. (lbs)
LL050H	9314-0003	1/2	0.04
LL075H	9314-0006	3/4	0.06
LL100H	9314-0008	1	0.12
LL150H	9314-0017	11/2	0.12
LL200H	9314-0021	2	0.16
LL300H	9314-0025	3	0.24

Poly Chain GT Long Length Belting

8mm - 14mm Pitch

	Part No.	Product No.	Width (in)	Net Wt. /ft. (lbs)
ſ	LL8M012GT	9305-0001	12	0.03
١	LL8M021GT	9305-0002	21	0.06
1	LL8M036GT	9305-0003	36	0.11
ſ	LL14M020GT	9305-0005	20	0.10
-	LL14M037GT	9305-0006	37	0.19

PowerGrip® HTD® — Long Length Belting

PowerGrip HTD - Long Length Belting

PowerGrip HTD Belting - Fiberglass Tensile 3mm - 5mm - 8mm - 14mm Pitch

3111111 - 31111111 -					
Part No.	Product	Width	Net Wt. /ft.		
	No.	(in)	(lbs)		
LL3M06	9308-0044	6	0.01		
LL3M09	9308-0003	9	0.01		
LL3M15	9308-0084	15	0.01		
LL5M09	9308-0045	9	0.01		
LL5M15	9308-0033	15	0.01		
LL5M25	9308-0025	25	0.05		
LL8M20	9308-0001	20	0.08		
LL8M30	9308-0004	30	0.13		
LL8M50	9308-0005	50	0.21		
LL8M85	9308-0006	85	0.36		
LL14M40	9308-10009	40	0.26		
LL14M55	9308-10020	55	0.35		
LL14M85	9308-10057	85	0.55		

PowerGrip HTD Belting - Steel Tensile 14mm Pitch

Part No.	Product No.	Width (in)	Net Wt. /ft. (lbs)
LL14M40ST	9308-10016	40	0.76
LL14M55ST	9308-10051	55	1.02
LL14M85ST	9308-10084	85	1.51

PowerGrip GT - Long Length Belting

PowerGrip GT - Fiberglass Tensile 2mm - 3mm - 5mm - 8mm Pitch

Part No.	Product No.	Width (in)	Net Wt. /ft. (lbs)
LL2MR04	9396-0033	4	0.01
LL2MR06	9396-0009	6	0.01
LL2MR09	9396-0011	9	0.01
LL3MR06	9396-0002	6	0.01
LL3MR09	9396-0012	9	0.01
LL3MR15	9396-0021	15	0.01
LL5MR09	9396-0020	9	0.01
LL5MR15	9396-0025	15	0.01
LL5MR25	9396-0018	25	0.05
LL8MR20	9396-0029	20	0.08
LL8MR30	9396-0030	30	0.13
LL8MR50	9396-0031	50	0.21
LL8MR85	9396-0032	85	0.36

PowerGrip GT - Steel Tensile 5mm - 8mm Pitch

Part No.	Product No.	Width (in)	Net Wt. /ft. (lbs)
LL5MR15ST	9308-10043	15	0.18
LL5MR25ST	9308-40417	25	0.23
LL8MR20ST	9308-10049	20	0.29
LL8MR30ST	9308-10050	30	0.37
LL8MR50ST	9308-40433	50	0.53

Synchro-Power® PolyUrethane Long Length Belting

T5 Pitch

10111011				
Part No.	Width (mm)	Wt. per ft. (lbs)		
U6T5LL	6	.01		
U8T5LL	8*	.01		
U10T5LL	10	.02		
U12T5LL	12*	.02		
U16T5LL	16	.03		
U20T5LL	20*	.03		
U25T5LL	25	.04		
U32T5LL	32	.05		
U50T5LL	50	.08		

AT5 Pitch

Part No.	Width (mm)	Wt. per ft. (lbs)
U6AT5LL	6	.01
U10AT5LL	10	.02
U16AT5LL	16	.03
U20AT5LL	20	.04
U25AT5LL	25	.05
U32AT5LL	32	.06
U50AT5LL	50	.10

T10 Pitch

Part No.	Width (mm)	Wt. per ft. (lbs)
U12T10LL	12*	.04
U16T10LL	16	.05
U20T10LL	20*	.07
U25T10LL	25	.08
U32T10LL	32	.11
U40T10LL	40*	.13
U50T10LL	50	.16
U75T10LL	75	.25
U100T10LL	100	.33

AT10 Pitch

Part No.	Width (mm)	Wt. per ft. (lbs)
U16AT10LL	16	.06
U20AT10LL	20*	.08
U25AT10LL	25	.10
U32AT10LL	32	.13
U40AT10LL	40*	.16
U50AT10LL	50	.20
U75AT10LL	75*	.30
U100AT10LL	100*	.40

T20 Pitch

Part No.	Width (mm)	Wt. per ft. (lbs)
U25T10LL	25*	.13
U32T20LL	32*	.17
U50T20LL	50*	.27
U75T20LL	75*	.40
U100T20LL	100*	.54

^{*}Standard/Non-Stock item, may require manufacturing lead time.

AT20 Pitch

Part No.	Width (mm)	Wt. per ft. (lbs)
U25AT20LL	25*	.17
U32AT20LL	32*	.22
U50AT20LL	50*	.34
U75AT20LL	75*	.50
U100AT20LL	100*	.67
U120AT20LL	120*	.81
U150AT20LL	150*	1.01

^{*}Standard/Non-Stock item, may require manufacturing lead time.

Synchro-Power® PolyUrethane Long Length Belting

1/5"Pitch (0.200"/XL)

Part No.	Width (mm)	Wt. per ft. (lbs)
U.25INXL LL	.250*	.01
U.31INXL LL	.310*	.01
U.375INXL LL	.375*	.01
U.50INXL LL	.500*	.02
U.75INXL LL	.750*	.03
U1.00INXL LL	1.000*	.03
U2.00INXL LL	2.000*	.07

5mm Pitch HTD

Part No.	Width (mm)	Wt. per ft. (lbs)
U10MTD5MLL	10*	.03
U15MTD5MLL	15*	.04
U25MTD5MLL	25*	.07
U50MTD5MLL	50*	.13

3/8" Pitch (0.375"/L)

Part No.	Width (mm)	Wt. per ft. (lbs)
U.375INL LL	.375	.02
U.50INL LL	.500	.02
U.75INL LL	.750	.03
U1.00INL LL	1.000	.04
U1.50INL LL	1.500*	.06
U2.00INL LL	2.000*	.08

8mm Pitch HTD

Part No.	Width (mm)	Wt. per ft. (lbs)
U10MTD8MLL	10*	.04
U15MTD8MLL	15*	.06
U20MTD8MLL	20*	.08
U30MTD8MLL	30*	.13
U50MTD8MLL	50*	.21
U85MTD8MLL	85*	.36
U100MTD8MLL	100*	.42

1/2" Pitch (0.500"/H)

Part No.	Width (mm)	Wt. per ft. (lbs)
U.50INH LL	.500	.02
U.75INH LL	.750	.04
U1.00INH LL	1.000	.05
U1.50INH LL	1.500	.07
U2.00INH LL	2.000	.09
U3.00INH LL	3.000*	.14
U4.00INH LL	4.000*	.19

14MM Pitch HTD

Part No.	Width (mm)	Wt. per ft. (lbs)
U25MTD14MLL	25*	.19
U40MTD14MLL	40*	.30
U55MTD14MLL	55*	.41
U85MTD14MLL	85*	.64
U100MTD14MLL	100*	.75

^{*}Standard/Non-Stock item, may require manufacturing lead time.

7/8" Pitch (0.875"/XH)

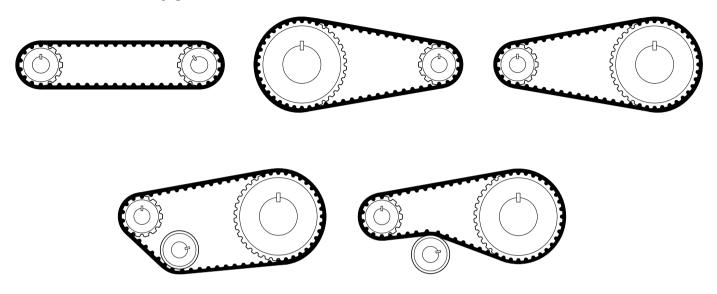
Part No.	Width (mm)	Wt. per ft. (lbs)
U1.00INXHLL	1.000*	.22
U1.50INXHLL	1.500*	.32
U2.00INXHLL	2.000*	.43
U3.00INXHLL	3.000*	.65
U4.00INXHLL	4.000*	.86

^{*}Standard/Non-Stock item, may require manufacturing lead time.

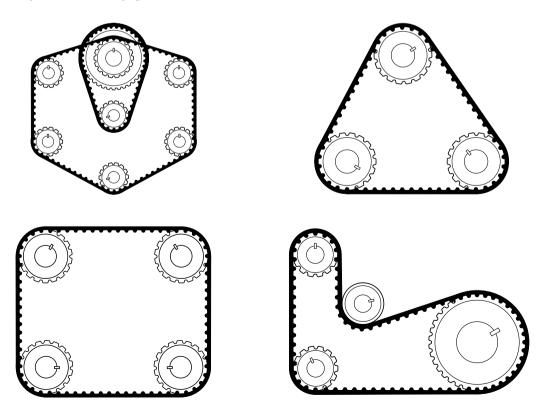
Application Examples

The following illustrations show a few of the many ways that PowerGrip belt drives can be used to transmit both power and motion. Synchronous belt drive systems are amazingly versatile, yet reliable and efficient. The examples that follow utilize conventional endless, Long-Length and Twin Power belting, all of which is readily available.

Common Drive Configurations

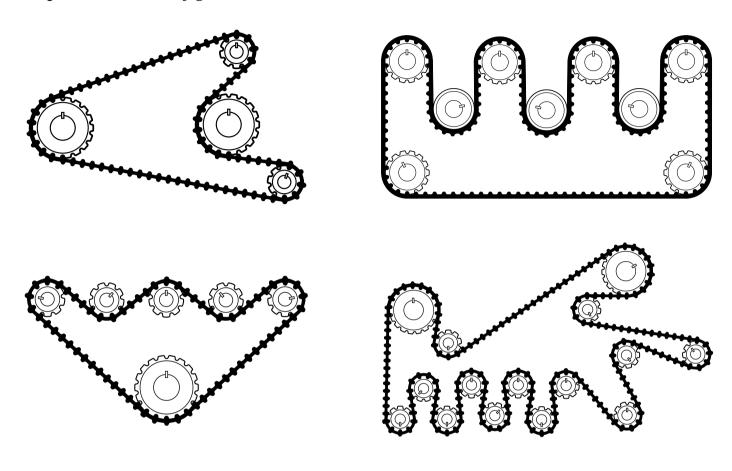


Multiple Shaft Drive Configurations

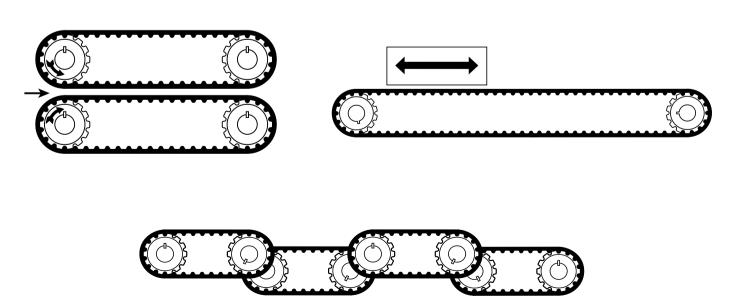


Application Examples — continued

Serpentine Drive Configurations

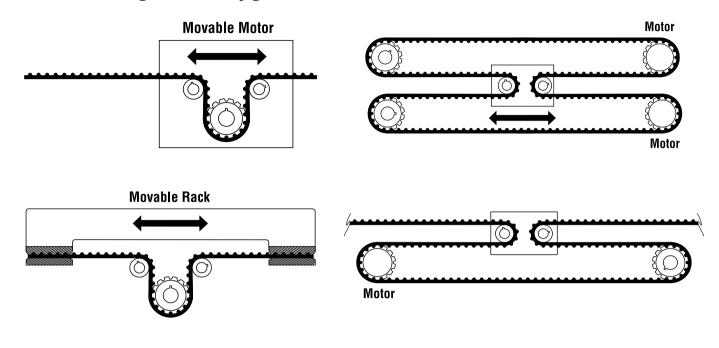


Conveying and Material Transport Applications

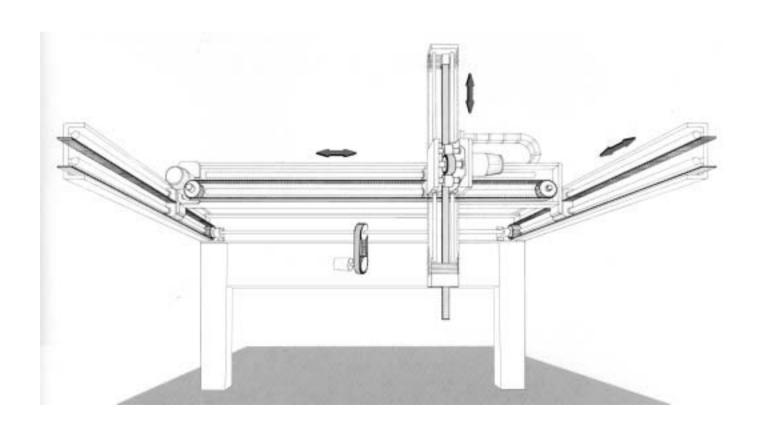


Application Examples — continued

Rack and Carriage Drive Configurations

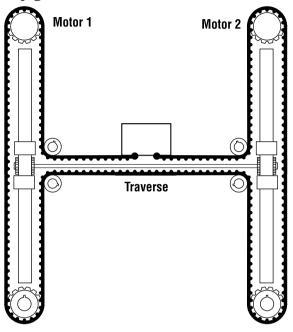


Long Length Drive Applications

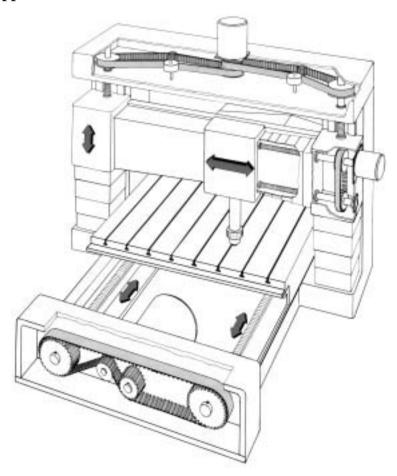


Application Examples — continued

Complex Carriage Drive Configuration



Lead Screw Drive Applications



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For more information on any of Gates Industrial Power Transmission products, programs or services, contact your local Gates representative, call the Gates Belt Information Line at 800-777-6363, or visit us at www.gates.com.

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Your Local Distributor

PowerGrip® GT®2 Belt Drive Design Manual

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