MEGALINEAR PU open-end timing belts



MEGALINEARPU open-end timing belts





MEGALINEAR

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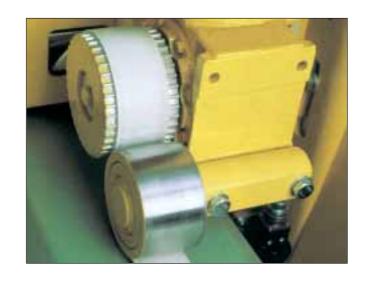
INTRODUCTION TO OPEN-END BELTS

Megadyne commenced manufacturing transmission belts in 1957 and extruding open and belts in 1975. Megalinear open lenghts belts are manufactured in thermoplastic polyurethane, that gives superior wear and abrasion resistance. Various grade of steel cords offer good running characteristics even with high tractive load.

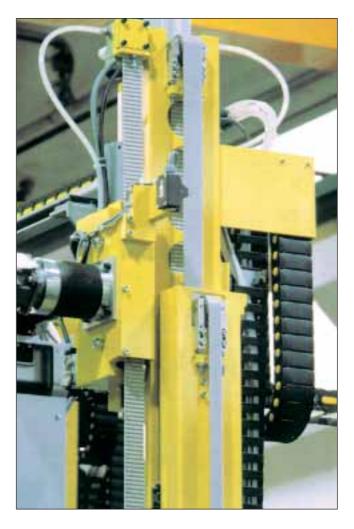
Great production flexibility grant to designers possibility to match any technical requirement and solution.

By selecting different components and material, Megalinear belts can be manufactured to meet every customer requirement.

Megalinear open-end belts are particularly suitable for application where accuracy of positioning, low noise and free-maintenance are requested.







Thanks to their features, Megalinear belts can be successfully used in a wide range of application such as:

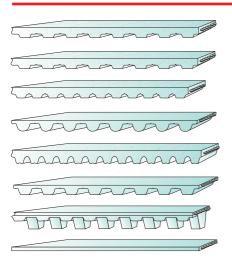
- conveyors
- automatic sliding doors and garage opening system
- elevators
- · automated handling devices
- linear drivers
- positioning system
- wood industry
- textile machine
- serigraphic industry
- glass industry
- stone and marble industry
- packaging industry
- · robot systems
- tobacco industry
- paper and carton industry





Megadyne has developed a very wide range of solutions with numerous tooth designs, tensile members and compound, suitable for all applications.

STANDARD RANGE



XL • L • H • XH

T5 • TT5 • T10 • T20

AT3 • AT5 • AT10 • AT20

MTD3 • MTD5 • MTD8 • MTD14

RPP5 • RPP8 • RPP14 • RPP14XP

STD5 • STD8

HG • TG5 • TG10_{K6} • TG10_{K13} • TG20 • ATG10 • ATG20

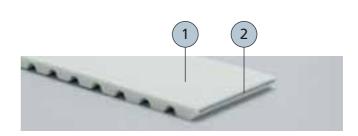
P1 • P2 • P4

CLASSIFICATIONS

CLASSIFICATIONS

Megalinear Timing Belts are manufactured in thermoplastic polyurethane, with single parallel steel cords. This type of belts, developed by our Research & Development, offers good running characteristics and high traction loads. They are especially suited for power transmission and conveying with high loads and speeds. The addition of a nylon coating on the teeth during production enhances the running properties for specific applications and reduces the noise due to a lower frictional coefficient. An extra thickness of special coating is also possible on the back of the belt offering extra protection against aggressive or heavy products.

- 1) The body of the belts is white thermoplastic polyurethane 92 ShA, characterized by high levels of wear resistance even in the presence of shock and surge loading.
- 2) High strength S and Z parallel zinked steel tension members allow high breaking load and extremely low elongation. The combination of these high grade materials improves belt performances which can be summarised as follows:
 - exceptional resistance to abrasion and tooth shear
 - · low coefficient of friction
 - · high flexibility
 - ozone and temperature resistance (-30 °C / +80 °C)
 - oil, grease and gasoline resistance



MECHANICAL AND CHEMICAL CHARACTERISTICS

- Constant dimensions
- Noiseless
- Free maintenance
- · High flexibility
- High resistance steel traction cords, with little stretching and top flexibility
- Linear speeds up to 70 m/s

- Low pretension
- Constant length
- High abrasion resistance
- Ageing, Hydrolysis, Ozone resistant
- Working temperature -30 °C / +80 °C
- High resistance to Oils, Greases and Gasoline
- Fairly Acid-proof and Alkali-proof

BODY

Megalinear belts are manufactured with white thermoplastic Polyurethane 92 ShA as standard. Special compounds (different hardnesses, special properties) are available on request. Here under some PU characteristics:

Water No problem in normal or sea clean water, at room temperature.

Over 60 °C there is a fast decrement of breaking strength.

Acids In acid diluted proportions, at room temperature, this PU is moderately attacked.

In high concentration acid solutions, this PU has a very short lifespan.

Over 50 °C, acids are always dangerous for Thermoplastic PU.

Alkalis In alkalis diluted proportions, at room temperature, this PU is moderately attacked.

In high concentration acid solutions, this PU has a very short lifespan.

Over 50 °C, acids are always dangerous for Thermoplastic PU.

Solvents Thermoplastic PU is insoluble in the greater part of solvents.

Only the very polar solvents (same as tetrahydrofuran, dimethylformamide, n-methylpyrroli-

done) can dissolve or tight damage PU.

The Esters or the Ketons (same as ethyl acetate or methylethylketene) can usually produce a

bulge, decreasing mechanical characteristics.

The Hydrocarbons aromatic and the Hydrocarbons aliphatic produce very high bulge.

All the effects increase by increasing temperature.

Oils PU has a high resistance to mineral pure oils (lubrificants, engine oils, combustible oils).

Usually, high performance syntetic oils, due to special additives contained, can be incompa-

tible with Thermoplastic PU, especially at high temperature.

Greases PU has a high resistance to mineral pure greases (lubrificants greases).

Usually, high performance syntetic greases, due to special additives contained, can be

incompatible with Thermoplastic PU, especially at high temperature.

Fuels Good resistance to petrols without Alcohols.

In presence of Alcohols, Thermoplastic PU can suffer deterioration. Fuels including Aromatiche stuffs can produce reversible bulges.

Microorganisms In presence of grime, containing humidity, Microorganisms can develop.

In case that Microbic attack can produce danger, you have to use a special kind of PU.

Weather agents Good resistance to atmospheric agents. White colour can change to light yellow under long

UV exposure. In any case this hasn't influence on mechanical resistance.

CORDS

Standard cord Kevlar Megalinear is manufactured with S and Z parallel zinked steel cords as standard.

Kevlar tension cords are suggested for:

• Non magnetic, for use in drives with metal detectors

Widely used in the food industry

HP High Performance cords have 25% more strength capacity than standard cords. They are

recommended for high repeatability applications.

HF High Flexibility cords can accept smaller pulley and idler diameters than standard cords. They

are suitable for multi-shaft drives with severe reverse bending.

HPF High Performance and Flexibility cords have 25% more strength capacity like the HP cords,

but they are more flexible than the HP cords. They are suggested for high performance and

multi-shaft drives.

Stainless steel Stainless steel cords have 25% less strength capacity than standard cords.

They are recommended for water applications.

COATING

Megalinear can be manufactured with special coating on the teeth or on the back. Please check on page 86 and 87.

IDENTIFICATION CODE

Using the information in the table below, it is possible to identify the correct belt for every application. The code is composed of letters and numbers as the following example:

1		2		3		4		5		6
J	+	50	+	AT	+	10	+	10000	+	SPECIAL MANUFACTURES

1) J joined belt.

ML Megalinear belt open-end.

2) **50** this number indicates the width of requested belt. The value is in mm for a belt with a pitch in mm,

and in inches for a belt with a pitch in inches.

3) **AT** this code composed by letters indicates the selection of profile.

4) **10** this number indicates the standard pitch of the belt. It is expressed in mm.

5) **10000** the last number indicates the length of the belt always in mm regardless of pitch.

6) SPECIAL MANUFACTURES:

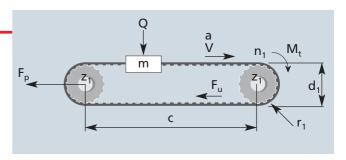
• special cords as Kevlar or HP or HF or HPF or stainless steel

special compound as different hardness 85 ShA or different colours (black - red - yellow - blue)

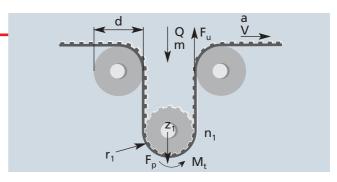
• extra coating NFT or NFB or AVAFC or Tenax or Linatex or Honey comb or PU black cellulose or PU yellow or Neoprene rubber.

TECHNICAL CALCULATION

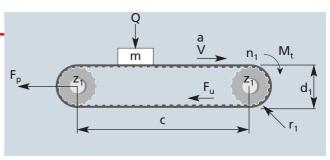
LINEAR MOTION BELT



OMEGA LINEAR MOTION BELT



CONVEYOR BELT

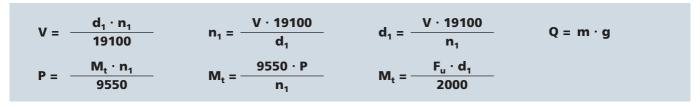


The following pages contain data, formulae and tables that are required to design a new belt drive. For critical and difficult drives, it is recommended that you contact your supplier's Technical Staff for advice.

Symbol	Unit	Definition	Symbol	Unit	Definition
а	m/s ²	acceleration	c	mm	centre distance
b	mm	belt width	g	m/s ²	gravity (9,81)
C,	-	safety factor	μ	_	friction coefficient
$\Delta I/_{00}$	‰	elongation	m	Kg	conveyed mass
d	mm	idler pitch diameters	M _t	Nm	drive torque
d₁	mm	sprocket pitch diameter	n ₁	1/min	revs/min (RPM) of drive sprocket 1
F _p	N	pretension	P	KW	drive power
F _u	N	peripheral force	Q	N	force exerted by mass (m)
F _{p spec}	N/cm	transmittable force	V	m/s	belt speed
p spec		per tooth per unit width	Z _i	number	of teeth of sprocket
MTL	N	max traction load	Z _m	number	of teeth in mesh on driver
BS	N	breaking strength		sprocke	t (12)

Max traction load is maximum acceptable traction on cords. Breaking strength is necessary load to break belt cords. Elongation is belt elongation under load.

USEFUL FORMULAE AND CONVERSION FACTORS



TRANSMISSION CALCULATION

MEGALINEAR

CHOICE OF BELT PITCH AND SPROCKETS

For optimum belt pitch see tables on page 12.

For optimum choice of sprocket size, it is desiderable to have as near to 12 teeth in mesh as possible.

CALCULATION OF THE PERIPHERAL FORCE ON THE TIMING BELT

known mass For horizontal & conveying drives
$$F_u = (m \cdot a) + (m \cdot g \cdot \mu)$$
 (Note: values of μ can be found in table 1 on page 13).

For vertical drives $F_u = (m \cdot a) + (m \cdot g)$ known drive torque $F_u = 2000 \text{ M}_t / d_1$ known drive power $F_u = 19.1 \cdot 10^6 \cdot P / (d_1 \cdot n_1)$

DETERMINATION OF THE BELT WIDTH

The belt width b should be calculated using the following formula

$$b = (F_u \cdot c_s \cdot 10) / (F_{p \, spec} \cdot Z_m)$$

$$C_s = \text{ safety factor from page 13 table 2}$$

$$F_u = \text{ from above calculation}$$

$$Z_m = \text{ number of teeth in mesh on driver sprocket}$$

$$Z_m = Z_1 \bullet \text{ arc of contact / 360}$$

$$= (\text{if calculated } Z_m > = 12 \text{ for an open-end application}$$

$$\text{use } Z_m = 12)$$

$$= (\text{if calculated } Z_m > = 6 \text{ for a joined application}$$

$$\text{use } Z_m = 6)$$

$$F_{p \, spec} = \text{ transmittable force per tooth per unit width (see table section)}$$

on belt data pages)

PRE-TENSIONING

The suggested installation tension: $F_p = 2 \cdot F_u$ for linear and omega linear movement applications $F_p = F_u$ for conveyor applications

CORD CHECK

The maximum allowable tensile load of the belt pitch/width combination selected (see tables on belt data pages):

max traction load of choosen belt >
$$\frac{F_p}{2}$$
 + $(F_u \cdot C_s)$

SPROCKET AND IDLER DIAMETER CHECK

Ensure that all selected pulley and idler diameters are equal to or greater than the minimum values specified in corresponding belt data page.

ELONGATION

When the belt is operating there will be an elongation proportional to max traction load:

$$\Delta I/_{00} = (F_u \cdot 4) / \text{max traction load}$$

LINEAR MOTION CALCULATION EXAMPLE (open-end belt)

MACHINE DATA

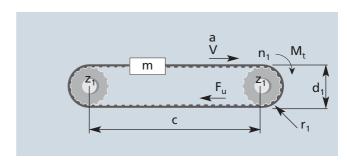
C = 2.000 mm

 $d_1 = 76 \text{ mm}$

 $n_1 = 300 \text{ RPM}$

P = 1.8 KW

low fluctuating load



CHOICE OF BELT PITCH AND SPROCKETS

According to the belt pitch selection table n.1 on page 12 considering the values of P and n1, we select RPP8 belt. Then we consider the pulley diameter nearest to the requested value and the corresponding n. of teeth (see technical information on page 55).

Therefore $Z_1 = 30$ teeth (with a pitch diameter of 76,4 mm).

CALCULATION OF THE EFFECTIVE TENSION

Since the drive power is known, F₁₁ can be calculated

$$F_u = \frac{19,1 \cdot 10^6 \cdot P}{d_1 \cdot n_1} = \frac{19,1 \cdot 10^6 \cdot 1,8}{76,4 \cdot 300} = 1500 \text{ N}$$

DETERMINATION OF THE BELT WIDTH

$$b = \frac{F_u \cdot C_s \cdot 10}{F_{p \text{ spec}} \cdot Z_m}$$

$$b = \frac{1500 \cdot 1,4 \cdot 10}{62 \cdot 12} = 28,2 \text{ mm}$$

 $F_u = \text{from before (1500 N)}$

 C_s = from page 13 table 4, for low fluctuating load C_s = 1,4

 Z_m = given that driver pulley has 30 teeth and angle of belt wrap is 180 degrees n. of teeth in mesh = 12

 $n_1 = 300 \text{ RPM (given)}$

 $F_{p \text{ spec}} = 62 \text{N} / \text{cm} \text{ (refer page 54 at 300 RPM)}$

Since the next closest width is 30 mm; 30 RPP8 is choosen.

PRE-TENSIONING

$$F_p = 2 \cdot F_u$$
 $F_p = 3000 \text{ N}$

CORD CHECK

From page 54, RPP8 pitch 30 mm wide: max traction load 4510 N

max traction load >
$$\frac{F_p}{2}$$
 + $(F_u \cdot C_s)$ $\frac{F_p}{2}$ + $(F_u \cdot C_s)$ = 1500 + 1500 · 1,4

$$\frac{F_p}{2}$$
 + $(F_u \cdot C_s)$ = 1500 + 1500 \cdot 1,4

4510 N > 3600 N selected belt is acceptable.

SPROCKET AND IDLER DIAMETER CHECK

Ensure that all selected pulley and idler diameters are greater than or equal the minimum values specified on page 55.

ELONGATION

$$\Delta I/_{00} = \frac{F_u \cdot 4}{\text{max traction load}} = \frac{1500 \cdot 4}{4510} = 1,33 \text{ mm/m}$$

In the dynamic situations you will have an elongation of 1,33 mm per meter of operating belt.

CONVEYOR BELT CALCULATION EXAMPLE (joined belt)

MEGALINEAR

MACHINE DATA

C = 5.000 mm

 $d_1 = 100 \text{ mm}$

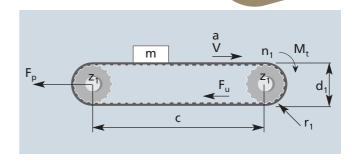
V = 0.5 m/s

 $a = 0.5 \text{ m/s}^2$

Guide in nylon

Q = 7000 N

low fluctuating load



CALCULATION OF THE EFFECTIVE TENSION

Since the mass is known, F_u can be calculated $F_u = (m \cdot a) + (m \cdot g \cdot \mu)$

$$F_{\mu} = (m \cdot a) + (m \cdot g \cdot \mu)$$

value of μ according to table 3 on

page
$$13 = 0.35$$

$$F_u = (714 \cdot 0.5) + (714 \cdot 9.81 \cdot 0.35) = 2808 \text{ N}$$

$$m = Q/g = 7000 / 9,81 = 714 kg$$

CHOICE OF BELT PITCH AND SPROCKETS

According to the belt selection table n. 2 on page 12, considering the values of F_u (for joined belts enter double of calculated F_u in table 2), we select AT 10. Then we consider the pulley diameter nearest to the requested value and the corresponding n. of teeth (see technical information page 41). Therefore $Z_1 = 32$ teeth (with a pitch diameter of 101,86 mm).

DETERMINATION OF THE BELT WIDTH

$$b = \frac{F_u \cdot C_s \cdot 10}{F_{p \text{ spec}} \cdot Z_m}$$

$$b = \frac{2808 \cdot 1,4 \cdot 10}{69 \cdot 6} = 94,95 \text{ mm}$$

Since the next closest width is 100 mm: 100 AT10 is choosen.

 $F_u = \text{from before (2808 N)}$

 C_s = from page 13 table 4, for low fluctuating load C_s = 1,4

 Z_m = given that driver pulley has 32 teeth and angle of belt wrap is 180 degrees, n. of teeth in mesh = 16. But, max Zm for joined belt is 6. Hence, Zm = 6

 $n_1 = (Vp \cdot 60.000) / (\pi \cdot d_1)$

= $(0.5 \cdot 60.000) / (\pi \cdot 101.86)$ as $d_1 = 101.86$ from before

= 99 RPM

 $F_{p \text{ spec}} = 69 \text{ N} / \text{cm} \text{ (refer page 40, at 100 RPM)}$

PRE-TENSIONING

$$F_p = F_u$$
 so $F_p = 2808 \text{ N}$

CORD CHECK

From page 40, AT10 pitch 100 mm wide joined: max traction load 8312,5 N

max traction load
$$> \frac{F_p}{2} + (F_u \cdot C_s)$$

max traction load
$$> \frac{F_p}{2} + (F_u \cdot C_s)$$
 $\frac{F_p}{2} + (F_u \cdot C_s) = \frac{2808}{2} + (2808 \cdot 1,4)$

8312,5 N > 5335 N selected belt is acceptable.

SPROCKET AND IDLER DIAMETER CHECK

Checking technical data on page 41 for pulley and idlers, it can be seen that the drive has acceptable pulley diameters.

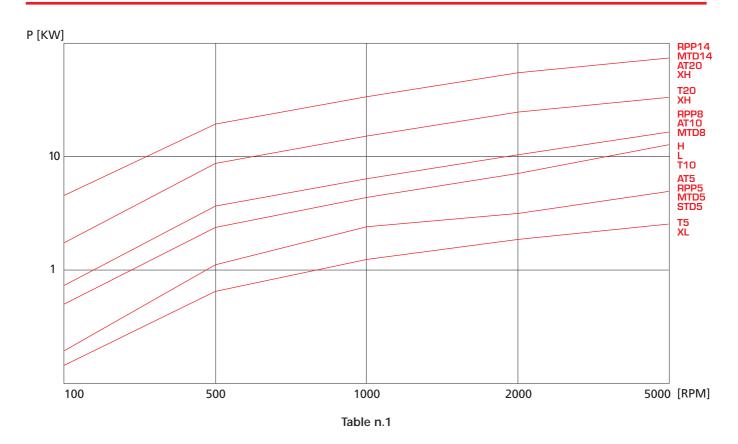
ELONGATION

$$\Delta I/_{00} = \frac{F_u \cdot 4}{\text{max traction load}} = \frac{2808 \cdot 4}{8312.5} = 1,35 \text{ mm/m}$$

In the dynamic situations you will have an elongation of 1,35 mm per meter of operating belt.

CALCULATION PARAMETERS

BELT PITCH SELECTION



BELT WIDTH SELECTION

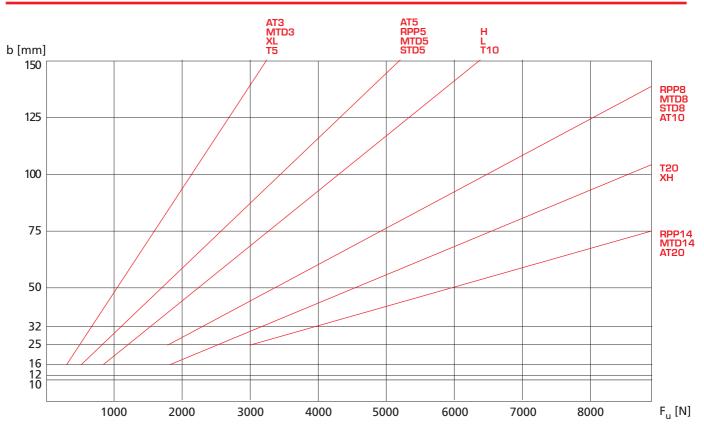
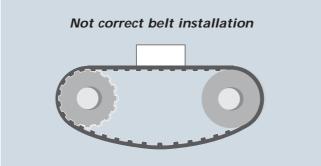


Table n. 3 - Friction co	efficient
Rolling friction on dry surface	
Polyurethane / smooth steel	$\mu = 0.5$
Polyurethane / rough steel	$\mu = 0.7$
Polyurethane / abrasive steel	$\mu = 0.9$
Polyurethane NFT / smooth steel	$\mu = 0.25$
Polyurethane NFT / rough steel	$\mu = 0.35$
Polyurethane NFT / abrasive steel	$\mu = 0.6$
Polyurethane / nylon	$\mu = 0.35$
Polyurethane NFT / nylon	$\mu = 0.15$
Polyurethane / aluminium	$\mu = 0.8$
Polyurethane NFT / aluminium	$\mu = 0.45$
Volvent friction on dry surface	
Bearing	$\mu = 0.015$
Roller / PU Belt	$\mu = 0.03 / 0.06$
Bush	μ = 0.15

Table n. 4 - Safety	factor	
The choice of the Safety factor's , depend The following table shows the value to be		ting conditions.
Steady Load		1
Shock Load	Low	1.4
	Average	1.7
	High	2
Elevators, hoists		1.8
Line shafts		1.6
Paper machines:		
agitators, calenders, driers, winding frame	es,	1.6
willows, Jordan machines, pumps, slicers,	grinders	1.8
Machines for pottery and earthenwar	e:	
cutters, granulators,		1.7
pulping machines		2.0
Laundry machines: general		1.6
extractors, washers	1.8	
Machines for rubber processing		1.8
Woodworking machines:		
lathes, band saws, cutters,		1,7
circular saws, planers, jointer		1,7
Printing machinery:		
rotary, newspaper, linotype, cutters, folde	rs, magazine	1.6
Textile machines:		
warping machines, winders,		1,7
spinners, twisting frames, looms		1.8
Machines tools: drilling machines, lather	s,	
tread cutting machines, gears cutters, bor	ing machines	1.6
millers, planers,		1.7
grinding machines		1.7
Conveyors:		
horsts, light backage, over		1.3
screw fleight		1.8
apron bucket, elevator		1.8
screw		1.8
Brick machinery		1.8

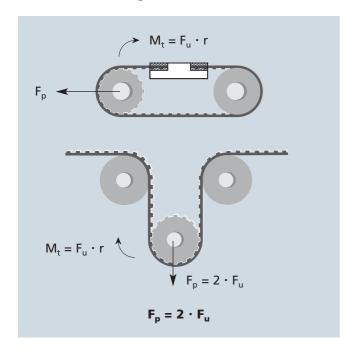
BELT INSTALLATION

A major difficulty installing transmission belt is to achieve correct belt tension. Lifetime of support bearings and transmission belts and therefore reliability of the complete system largely depends on an optimally adjusted belt tension. Pretension is the force needed to put tension into the system to avoid the belt jumping on the pulleys as in the example below:

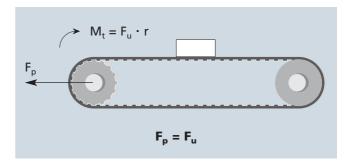


For a correct system installation, all applications with Megalinear belt can be summarised according following two sketches:

1) Linear and omega linear motion belt



2) Conveyor belt



 F_n = pretension

 F_u = peripheral force (see calculation pag. 8/9)

r = pulley radius

PROCEDURE TO MEASURE

The procedure to measure the tension of the belt is to use a Belt Tension Gauging Equipement. This device consists of a small sensing head which is held across the belt to be measured. The belt is then tapped to induce the belt to vibrate at its natural frequency. The vibrations are detected and the frequency of vibration is then displayed on the measuring unit.

The relation between belt static tension (T_5) and frequency of vibration (f) may be calculated using the following formula:



$$f = \frac{1}{2t} \cdot \sqrt{\frac{T_s}{m}}$$
 or $T_s = 4 \cdot m \cdot t^2 \cdot f^2$ (16)

Where:

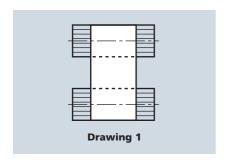
 T_s = Static tension (N) f = Frequency of vibration in Hertz (Hz)

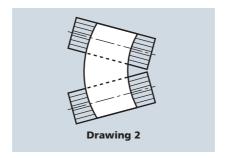
m = Belt mass per unit length (kg/m) t = Free belt span length in meters (m)

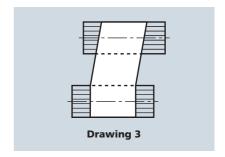
For a correct system functioning and to increase belt life, it is necessary a correct pulley installation: pulleys has to be parallel and aligned as shown in drawing 1 (correct configuration).

If pulleys are not parallel as in drawing 2, belt could fall during functioning and this can provoke damages to complete equipment.

To grant a correct belt running, configuration according drawing 3 has to be avoided.

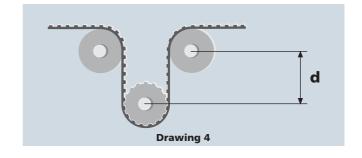




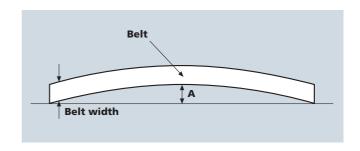


In omega application to grant good mesh between pulley and teeth and to respect belt flexibility avoiding excessive stress on cords, distance d (as drawing 4) has to be:

d = 4 · belt width



Moreover for a good drive work, it is suggested to check belt straigthness as follows:



Belt width	Testing belt length	Maximum suggested bending (A)
Till to 20 mm	1 m	3 mm
Over 20 mm	2 m	4 mm

MEGALINEAR XL OPEN-END

BELT CHARACTERISTICS

STANDARD WIDTHS (inch)	025	037	050	075	100	150	200
Weight (gr/m)	15	20	30	45	60	90	120

Standard compound: white Polyurethane

thermoplastic 92 ShA

Standard back cover: **none** Standard tooth cover: **none**

Standard cords: S and Z torsion zinked steel

Standard width tolerance: +/- 0,5 mm
Standard thickness: 2,3 +/- 0,3 mm
Standard length tolerance: +/- 0,8 mm/m

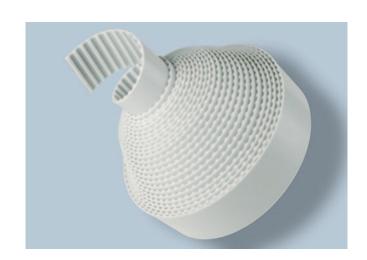
Standard roll length: 100 m

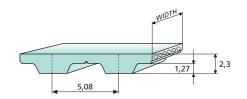
Belt options on request with minimum quantity:

Nylon fabric back Nylon fabric teeth Antistatic nylon fabric FDA compound AVAFC 60/70/85 ShA

APL Cleats

Different back coating materials see page 86





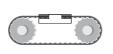
TOOTH RESISTANCE

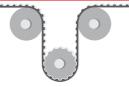
RPM (1/min) 0	20	40	60	80	100	200	300	400	500	750	1000	1500	2000	3000	4000	5000	8000
F _{p spec} (N/cm) 19	19	18	18	17	17	16	15	15	14	13	13	12	11	10	9	8	7

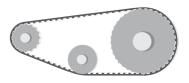
TRACTION RESISTANCE

	Belt width (inch)	025	037	050	075	100	150	200
Steel	Max Traction Load (N)	145	235	355	590	800	1245	1660
	Breaking Strength (N)	590	950	1425	2375	3205	4985	6650
	Elongation at MTL (mm/m)	4	4	4	4	4	4	4
Kevlar	Max Traction Load (N)	210	335	505	845	1140	1775	2365
	Breaking Strength (N)	845	1350	2025	3380	4565	7100	9465
	Elongation at MTL (mm/m)	8	8	8	8	8	8	8
tainless	Max Traction Load (N)	85	140	210	355	480	-	-
	Breaking Strength (N)	355	570	855	1425	1920	-	-
	Elongation at MTL (mm/m)	3,8	3,8	3,8	3,8	3,8	-	-
				Average valu	IOC			

Average values







	Z min
Standard steel cords	10
Kevlar cords	10
Stainless steel cords	13

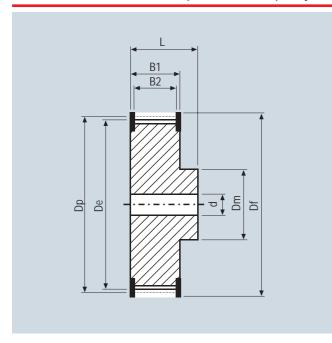
Z min	Idler min dia (mm)
15	30
15	30
15	35

Z min	Idler min dia (mm)
10	30
10	20
13	35

JOINED BELT INFORMATIONS

- Minimum splice length 900 mm
- Traction and tooth resistances = 50% less than open-end
- Joined belt can be used only in conveyor systems
- Rolls with NFT, NFB, AVAFC and APL can be joined too
- Minimum diameters according above table
- For coated belts, minimum diameters on page 86





N° Teeth	Dp	De
10	16,17	15,66
11	17,79	17,28
12	19,40	18,89
13	21,02	20,51
14	22,64	22,13
15	24,26	23,75
16	25,87	25,36
17	27,49	26,98
18	29,11	28,60
19	30,72	30,21
20	32,34	31,83
21	33,96	33,45
22	35,57	35,07
24	38,81	38,30

MEGALINEAR L OPEN-END

BELT CHARACTERISTICS

STANDARD WIDTHS (inch)	037	050	075	100	150	200	400
Weight (gr/m)	35	45	65	90	135	180	325

Standard compound: white Polyurethane

thermoplastic 92 ShA

Standard back cover: **none** Standard tooth cover: **none**

Standard cords: S and Z torsion zinked steel

Standard width tolerance: +/- 0,5 mm
Standard thickness: 3,6 +/- 0,3 mm
Standard length tolerance: +/- 0,8 mm/m

Standard roll length: 100 m

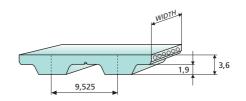
Belt options on request with minimum quantity:

Nylon fabric back Nylon fabric teeth Antistatic nylon fabric FDA compound AVAFC 60/70/85 ShA

APL Cleats

Different back coating materials see page 86





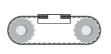
TOOTH RESISTANCE

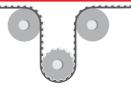
RPM (1/min) 0	20	40	60	80	100	200	300	400	500	750	1000	1500	2000	3000	4000	5000	8000
F _{p spec} (N/cm) 37	36	35	35	34	33	31	29	28	27	24	23	20	19	16	15	13	11

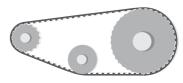
TRACTION RESISTANCE

	Belt width (inch)	037	050	075	100	150	200	400
Steel	Max Traction Load (N)	570	760	1270	1715	2670	3560	7125
	Breaking Strength (N)	2290	3055	5090	6870	10690	14255	24950
	Elongation at MTL (mm/m)	4	4	4	4	4	4	4
Kevlar	Max Traction Load (N)	595	795	1330	1795	2790	3720	7445
	Breaking Strength (N)	2390	3190	5320	7180	11170	14895	26065
	Elongation at MTL (mm/m)	8	8	8	8	8	8	8
Stainless	Max Traction Load (N)	470	625	1045	1410	-	-	-
	Breaking Strength (N)	1880	2505	4180	5640	-	-	-
	Elongation at MTL (mm/m)	3,8	3,8	3,8	3,8	-	-	-
				Avorago vali	IOC			

Average value







	Z min
Standard steel cords	15
Kevlar cords	15
Stainless steel cords	18

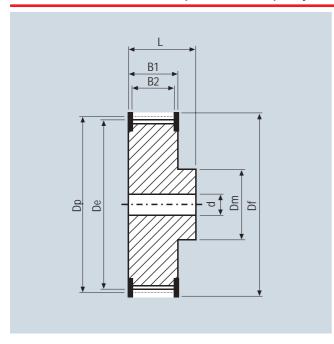
Z min	Idler min dia (mm)
20	60
20	60
20	65

Z min	Idler min dia (mm)
15	60
15	60
18	65

JOINED BELT INFORMATIONS

- Minimum splice length 900 mm
- Traction and tooth resistances = 50% less than open-end
- Joined belt can be used only in conveyor systems
- Rolls with NFT, NFB, AVAFC and APL can be joined too
- Minimum diameters according above table
- For coated belts, minimum diameters on page 86





N° Teeth	Dp	De
15	45,48	44,72
16	48,51	47,75
17	51,54	50,78
18	54,57	53,81
19	57,61	56,85
20	60,64	59,88
21	63,67	62,91
22	66,70	65,94
23	69,73	68,97
24	72,77	72,01
25	75,80	75,04
26	78,83	78,07

N° Teeth	Dp	De
27	81,86	81,10
28	84,89	84,13
29	87,93	87,17
30	90,96	90,20
32	97,02	96,26
34	103,08	102,32
36	109,15	108,39
40	121,28	120,52
44	133,40	132,64
48	145,53	144,76
56	169,79	169,03

MEGALINEAR H OPEN-END

BELT CHARACTERISTICS

STANDARD WIDTHS (inch)	050	075	100	150	200	300	400	600	800*
Weight (gr/m)	55	80	110	160	215	325	430	645	300

Standard compound: white Polyurethane

thermoplastic 92 ShA

Standard back cover: **none** Standard tooth cover: **none**

Standard cords: S and Z torsion zinked steel

Standard width tolerance: +/- 0,5 mm
Standard thickness: 4,3 +/- 0,3 mm
Standard length tolerance: +/- 0,8 mm/m

Standard roll length: 100 m

* Transparent PU, 50% kevlar cords only

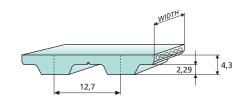
Belt options on request with minimum quantity:

Nylon fabric back Nylon fabric teeth Antistatic nylon fabric FDA compound AVAFC 60/70/85 ShA APL

Cleats

Different back coating materials see page 86





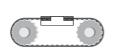
TOOTH RESISTANCE

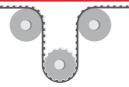
RPM (1/min) 0	20	40	60	80	100	200	300	400	500	750	1000	1500	2000	3000	4000	5000	8000
F _{p spec} (N/cm) 44	43	42	41	40	39	36	34	33	31	29	27	24	22	19	17	16	12

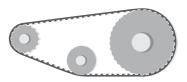
TRACTION RESISTANCE

	Belt width (inch)	050	075	100	150	200	300	400	600	800*
Steel	Max Traction Load (N)	995	1695	2290	3490	4785	7665	11170	11855	6495
	Breaking Strength (N)	3990	6780	9175	13965	19150	29125	39100	41495	22740
	Elongation at MTL (mm/m)	4	4	4	4	4	4	4	4	4
Kevlar	Max Traction Load (N)	895	1535	2050	3205	4360	7020	10260	15240	8350
	Breaking Strength (N)	3590	6155	8205	12825	17440	26675	35910	53350	29240
	Elongation at MTL (mm/m)	8	8	8	8	8	8	8	8	8
Stainless	Max Traction Load (N)	805	1370	1855	2825	3875	-	_	_	-
	Breaking Strength (N)	3230	5490	7425	11305	15500	-	-	-	-
	Elongation at MTL (mm/m)	3,8	3,8	3,8	3,8	3,8	-	_	_	_
				Δverage valu	IOC					

Average value







	Z min
Standard steel cords	14
Kevlar cords	14
Stainless steel cords	18

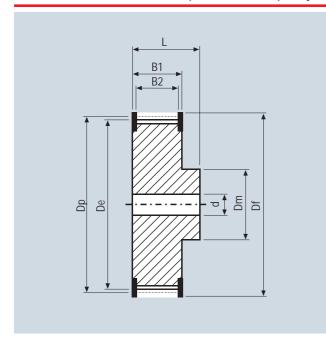
Z min	Idler min dia (mm)
20	80
20	80
20	80

Z min	Idler min dia (mm)
14	60
14	60
18	65

JOINED BELT INFORMATIONS

- Minimum splice length 900 mm
- Traction and tooth resistances = 50% less than open-end
- Joined belt can be used only in conveyor systems
- Rolls with NFT, NFB, AVAFC and APL can be joined too
- Minimum diameters according above table
- For coated belts, minimum diameters on page 86





N° Teeth	Dp	De	N° Teeth	Dp	De
14	56,60	55,23	28	113,19	111,82
15	60,64	59,27	29	117,23	115,86
16	64,68	63,31	30	121,28	119,91
17	68,72	67,35	32	129,36	127,99
18	72,77	71,40	33	133,40	132,03
19	76,81	75,44	34	137,45	136,08
20	80,85	79,48	35	141,49	140,12
21	84,89	83,52	36	145,53	144,16
22	88,94	87,57	38	153,62	152,25
23	92,98	91,61	40	161,70	160,33
24	97,02	95,65	44	177,87	176,50
25	101,06	99,69	48	194,04	192,67
26	105,11	103,74	52	210,21	208,84
27	109,15	107,78	60	242,55	241,18

MEGALINEAR XH OPEN-END

BELT CHARACTERISTICS

STANDARD WIDTHS (inch)	100	150	200	300	400	600
Weight (gr/m)	250	400	530	795	1060	1625

Standard compound: white Polyurethane

thermoplastic 92 ShA

Standard back cover: **none** Standard tooth cover: **none**

Standard cords: S and Z torsion zinked steel

Standard width tolerance: +/- 1 mm Standard thickness: 11,2 +/- 0,5 mm Standard length tolerance: +/- 0,8 mm/m

Standard roll length: 100 m

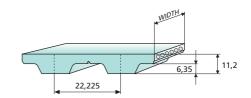
Belt options on request with minimum quantity:

Nylon fabric back Nylon fabric teeth Antistatic nylon fabric FDA compound AVAFC 60/70/85 ShA

APL Fishbone Ribbed Cleats

Different back coating materials see page 86





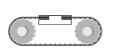
TOOTH RESISTANCE

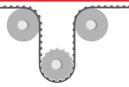
RPM (1/min) 0	20	40	60	80	100	200	300	400	500	750	1000	1500	2000	3000	4000	5000	8000
F _{p spec} (N/cm) 115	111	108	105	103	101	92	86	81	78	70	65	57	51	43	37	-	-

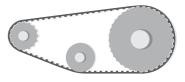
TRACTION RESISTANCE

	Belt width (inch)	100	150	200	300	400	600
Steel	Max Traction Load (N)	3610	5640	7670	12350	18050	26815
	Breaking Strength (N)	14440	22560	30685	46930	63175	93860
	Elongation at MTL (mm/m)	4	4	4	4	4	4
Kevlar	Max Traction Load (N)	4215	6675	9135	14800	21690	32940
	Breaking Strength (N)	16870	26710	36555	56240	75920	115290
	Elongation at MTL (mm/m)	8	8	8	8	8	8
Stainless	Max Traction Load (N)	2865	4480	6095	-	-	-
	Breaking Strength (N)	11475	17930	24385	-	-	-
	Elongation at MTL (mm/m)	3,8	3,8	3,8	-	-	-
				Δνοτασο ναίι	IOC.		

Average value







	Z min
Standard steel cords	18
Kevlar cords	18
Stainless steel cords	23

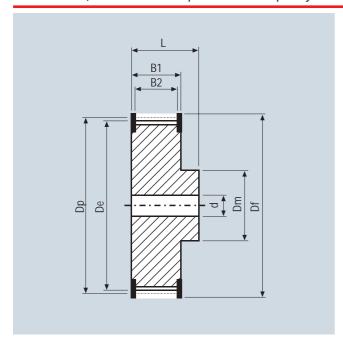
Z min	Idler min dia (mm)
20	180
20	180
25	180

Z min	Idler min dia (mm)
18	150
18	150
23	165

JOINED BELT INFORMATIONS

- Minimum splice length 900 mm
- Traction and tooth resistances = 50% less than open-end
- Joined belt can be used only in conveyor systems
- Rolls with NFT, NFB, AVAFC and APL can be joined too
- Minimum diameters according above table
- For coated belts, minimum diameters on page 86





N° Teeth	Dp	De
18	127,34	124,55
20	141,49	138,70
22	155,64	152,83
24	169,79	167,00
26	183,92	181,13
28	198,08	195,29
30	212,23	209,44
32	226,38	223,59

N° Teeth	Dp	De
40	282,98	280,19
44	311,28	308,48
48	339,57	336,78
60	424,47	421,68
72	509,36	506,57
84	594,25	591,46
96	679,15	676,35
120	848,93	846,14

MEGALINEAR T5 OPEN-END

BELT CHARACTERISTICS

STANDARD WIDTHS (mm)	6	10	16	25	32	50	75	100	
Weight (gr/m)	15	20	35	55	70	105	160	220	

Standard compound: white Polyurethane

thermoplastic 92 ShA Standard back cover: none

Standard tooth cover: **none**

Standard cords: **S and Z torsion zinked steel**

Standard width tolerance: +/- 0,5 mm
Standard thickness: 2,2 +/- 0,15 mm
Standard length tolerance: +/- 0,8 mm/m

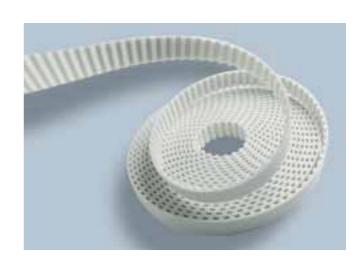
Standard roll length: 100 m

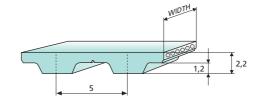
Belt options on request with minimum quantity:

Nylon fabric back Nylon fabric teeth Antistatic nylon fabric FDA compound AVAFC 60/70/85 ShA

APL Fishbone Ribbed Cleats

Different back coating materials see page 86





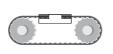
TOOTH RESISTANCE

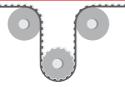
RPM (1/min) 0	20	40	60	80	100	200	300	400	500	750	1000	1500	2000	3000	4000	5000	8000
F _{p spec} (N/cm) 24	23	23	22	22	22	20	19	19	18	17	16	15	14	12	11	11	9

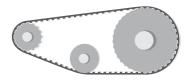
TRACTION RESISTANCE

	Belt width (mm)	6	10	16	25	32	50	75	100	
Steel	Max Traction Load (N)	175	355	475	800	1005	1660	2280	3060	
	Breaking Strength (N)	710	1425	1900	3205	4035	6650	8665	11635	
	Elongation at MTL (mm/m)	4	4	4	4	4	4	4	4	
Kevlar	Max Traction Load (N)	395	795	1060	1795	2260	3720	5110	6860	
	Breaking Strength (N)	1595	3190	4255	7180	9040	14895	19415	26065	
	Elongation at MTL (mm/m)	8	8	8	8	8	8	8	8	
HP	Max Traction Load (N)	-	555	740	1250	1570	2590	3555	4775	
	Breaking Strength (N)	-	2220	2960	5000	6295	10370	13520	18150	
	Elongation at MTL (mm/m)	-	5	5	5	5	5	5	5	
HF	Max Traction Load (N)	-	465	620	1050	1320	2180	2990	4015	
	Breaking Strength (N)	-	1865	2490	4205	5295	8720	11370	15265	
	Elongation at MTL (mm/m)	-	5	5	5	5	5	5	5	
Stainless	Max Traction Load (N)	105	210	285	480	-	-	-	-	
	Breaking Strength (N)	425	855	1140	1920	-	-	-	-	
	Elongation at MTL (mm/m)	3,8	3,8	3,8	3,8	-	-	-	-	
				Average valu	ies					

Average value







	Z min
Standard steel cords	10
Kevlar cords	12
High Power cords	15
High Flexibility cords	10
Stainless steel cords	15

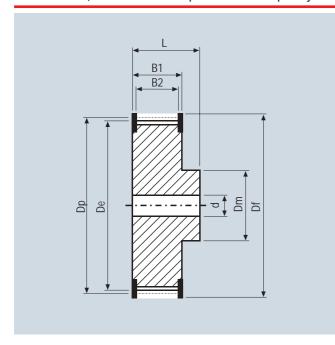
Z min	Idler min dia (mm)
15	30
15	30
15	40
12	30
18	40

Z min	Idler min dia (mm)
10	30
12	30
15	60
10	30
15	40

JOINED BELT INFORMATIONS

- Minimum splice length 900 mm
- Traction and tooth resistances = 50% less than open-end
- Joined belt can be used only in conveyor systems
- Rolls with NFT, NFB, AVAFC and APL can be joined too
- Minimum diameters according above table
- For coated belts, minimum diameters on page 86





N° Teeth	Dp	De
10	15,92	15,09
12	19,10	18,27
14	22,28	21,45
15	23,87	23,04
16	25,46	24,64
18	28,65	27,82
19	30,24	29,41
20	31,83	31,00
22	35,01	34,19
24	38,20	37,37

N° Teeth	Dp	De
25	39,79	38,96
28	44,56	43,73
30	47,75	46,92
32	50,93	50,10
36	57,30	56,47
40	63,66	62,93
42	66,85	66,02
44	70,03	69,20
48	76,39	75,57
60	95,49	94,67

MEGALINEAR TT5 FOR KNITTING MACHINE

BELT CHARACTERISTICS

STANDARD WIDTHS (mm)	10	
Weight (gr/m)	20	

Steel cord

Standard compound: white Polyurethane

thermoplastic 88 ShA

Standard back cover: none Standard tooth cover: none

Standard cords: S and Z torsion zinked steel

Standard width tolerance: +/- 0,5 mm Standard thickness: 3 +0,2/- 0,1 mm Standard length tolerance: +/- 0,8 mm/m

Standard roll length: 100 m

Belt options on request with minimum quantity:

Nylon fabric back Nylon fabric teeth Antistatic nylon fabric Truly endless 50 mm wide roll (ready to be cut 5 * 10 mm



Standard compound: blue Polyurethane

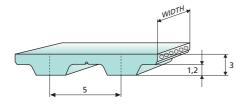
thermoplastic 88 ShA

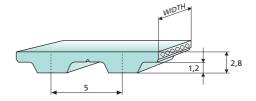
Standard back cover: none Standard tooth cover: none

Standard cords: **S and Z torsion kevlar** Standard width tolerance: +/- 0,5 mm Standard thickness: 2,8 +/- 0,15 mm Standard length tolerance: +/- 0,8 mm/m

Standard roll length: 100 m





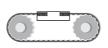


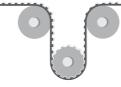
TOOTH RESISTANCE

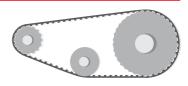
RPM (1/min) 0	20	40	60	80	100	200	300	400	500	750	1000	1500	2000	3000	4000	5000	8000
F _{p spec} (N/cm) 24	23	23	22	22	22	20	19	19	18	17	16	15	14	12	11	11	9

TRACTION RESISTANCE

	Belt width (mm)	10
Steel	Max Traction Load (N)	355
	Breaking Strength (N)	1425
	Elongation at MTL (mm/m)	4
Kevlar	Max Traction Load (N)	795
	Breaking Strength (N)	3190
	Elongation at MTL (mm/m)	8







	Z min
Standard steel cords	10
Kevlar cords	12

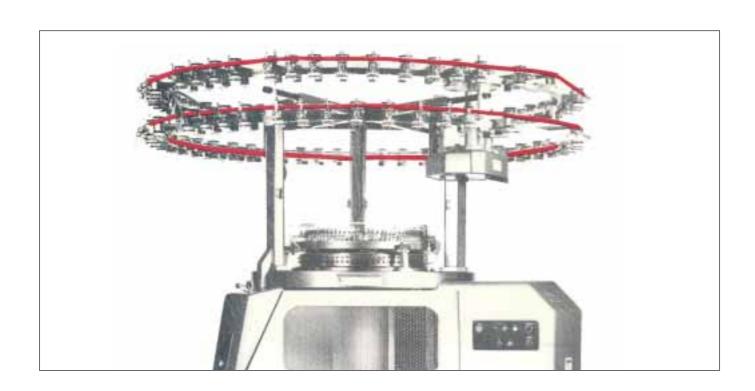
Z min	Idler min dia (mm)
15	30
15	30

Z min	Idler min dia (mm)
10	30
12	30

JOINED BELT INFORMATIONS

- Minimum splice length 900 mm
- Traction and tooth resistances = 50% less than open-end
- Joined belt can be used only in conveyor systems
- Rolls with NFT and NFB can be joined too
- Minimum diameters according above table





MEGALINEAR T10 OPEN-END

BELT CHARACTERISTICS

STANDARD WIDTHS (mm)	12	16	25	32	50	75	100	150	
Weight (gr/m)	50	75	115	145	225	340	435	680	

Standard compound: white Polyurethane thermoplastic 92 ShA

Standard back cover: **none** Standard tooth cover: **none**

Standard cords: S and Z torsion zinked steel

Standard width tolerance: +/- 0,5 mm
Standard thickness: 4,5 +/- 0,3 mm
Standard length tolerance: +/- 0,8 mm/m

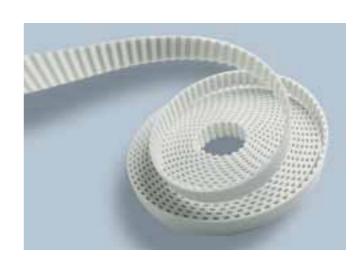
Standard roll length: 100 m

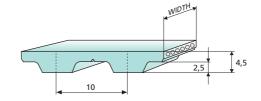
Belt options on request with minimum quantity:

Nylon fabric back Nylon fabric teeth Antistatic nylon fabric FDA compound AVAFC 60/70/85 ShA

APL Fishbone Ribbed Cleats

Different back coating materials see page 86





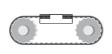
TOOTH RESISTANCE

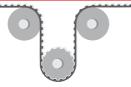
RPM (1/min) 0) 2	20	40	60	80	100	200	300	400	500	750	1000	1500	2000	3000	4000	5000	8000
F (N/cm) 5	1 4	49	48	47	46	45	41	39	37	36	33	31	28	25	22	20	18	14

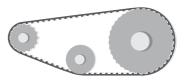
TRACTION RESISTANCE

	Belt width (mm)	12	16	25	32	50	75	100	150	
Steel	Max Traction Load (N)	995	1395	2290	2890	4785	7665	10290	11855	
	Breaking Strength (N)	3990	5585	9175	11570	19150	29125	39100	41495	
	Elongation at MTL (mm/m)	4	4	4	4	4	4	4	4	
Kevlar	Max Traction Load (N)	895	1150	2050	2565	4360	7020	9450	15240	
	Breaking Strength (N)	3590	4615	8205	10260	17440	26675	35910	53350	
	Elongation at MTL (mm/m)	8	8	8	8	8	8	8	8	
HP	Max Traction Load (N)	1575	2030	3610	4510	7670	12350	16625	26815	
	Breaking Strength (N)	6315	8120	14440	18050	30685	46930	63175	93860	
	Elongation at MTL (mm/m)	5	5	5	5	5	5	5	5	
HF	Max Traction Load (N)	1045	1460	2400	3030	5015	8025	10775	12420	
	Breaking Strength (N)	4180	5850	9610	12120	20060	30510	40960	43470	
	Elongation at MTL (mm/m)	5	5	5	5	5	5	5	5	
HPF	Max Traction Load (N)	-	2105	3740	4675	7950	12800	17235	27800	
	Breaking Strength (N)	-	8420	14970	18715	31815	48655	65500	97315	
	Elongation at MTL (mm/m)	-	5	5	5	5	5	5	5	
Stainless	Max Traction Load (N)	805	1130	1855	2340	3875	-	-	-	
	Breaking Strength (N)	3230	4520	7425	9365	15500	-	-	-	
	Elongation at MTL (mm/m)	3,8	3,8	3,8	3,8	3,8	-	-	-	
				Avorago valu						

Average values







	Z min
Standard steel cords	12
Kevlar cords	15
High Power cords	15
High Flexibility cords	12
High Power Flexible cords	14
Stainless steel cords	15

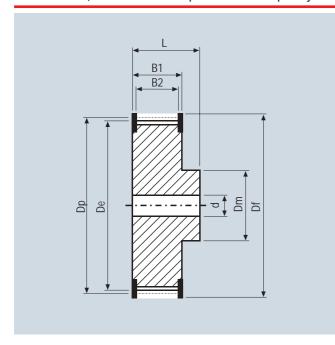
Z min	Idler min dia (mm)
20	60
20	60
20	100
15	50
20	80
20	70

Z min	Idler min dia (mm)
12	60
15	60
15	100
12	50
14	80
15	70

JOINED BELT INFORMATIONS

- Minimum splice length 900 mm
- Traction and tooth resistances = 50% less than open-end
- Joined belt can be used only in conveyor systems
- Rolls with NFT, NFB, AVAFC and APL can be joined too
- Minimum diameters according above table
- For coated belts, minimum diameters on page 86





N° Teeth	Dp	De
12	38,20	36,35
14	44,56	42,71
15	47,75	45,90
16	50,93	49,08
18	57,30	55,45
19	60,48	58,63
20	63,66	61,81
22	70,03	68,18
24	76,39	74,55
25	79,58	77,73

N° Teeth	Dp	De
26	82,76	80,91
27	85,94	84,10
28	89,13	87,28
30	95,49	93,65
32	101,86	100,01
36	114,59	112,74
40	127,32	125,48
44	140,06	138,21
48	152,79	150,94
60	190,99	189,14

MEGALINEAR T10 WITHOUT GAP OPEN-END

BELT CHARACTERISTICS

Standard compound: white Polyurethane

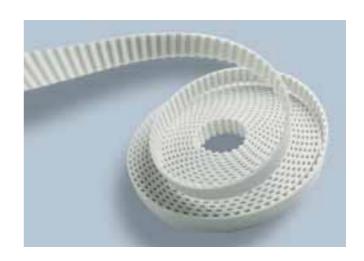
thermoplastic 92 ShA

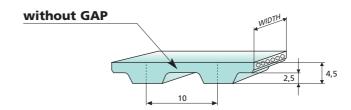
Standard back cover: **none** Standard tooth cover: **none**

Standard cords: S and Z torsion zinked steel

Standard width tolerance: +/- 0,5 mm
Standard thickness: 4,5 +/- 0,3 mm
Standard length tolerance: +/- 0,8 mm/m

Standard roll length: 100 m



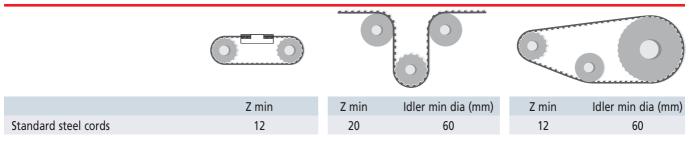


TOOTH RESISTANCE

RPM (1/min) 0	20	40	60	80	100	200	300	400	500	750	1000	1500	2000	3000	4000	5000	8000
F _{n spec} (N/cm) 51	49	48	47	46	45	41	39	37	36	33	31	28	25	22	20	18	14

TRACTION RESISTANCE

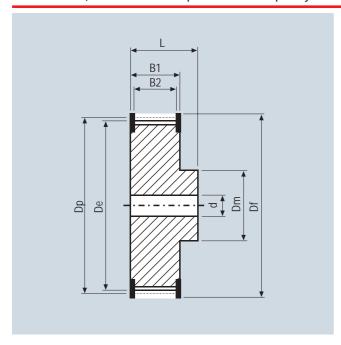
	Belt width (mm)	25
Steel	Max Traction Load (N)	2190
	Breaking Strength (N)	8775
	Elongation at MTL (mm/m)	4



JOINED BELT INFORMATIONS

- Minimum splice length 900 mm
- Traction and tooth resistances = 50% less than open-end
- Joined belt can be used only in conveyor systems
- Minimum diameters according above table





N° Teeth	Dp	De	N° Teeth	Dp	De	
12	38,20	36,35	26	82,76	80,91	
14	44,56	42,71	27	85,94	84,10	
15	47,75	45,90	28	89,13	87,28	
16	50,93	49,08	30	95,49	93,65	
18	57,30	55,45	32	101,86	100,01	
19	60,48	58,63	36	114,59	112,74	
20	63,66	61,81	40	127,32	125,48	
22	70,03	68,18	44	140,06	138,21	
24	76,39	74,55	48	152,79	150,94	
25	79,58	77,73	60	190,99	189,14	

MEGALINEAR T10 WIDE OPEN-END

BELT CHARACTERISTICS

STANDARD WIDTHS (mm)	200	250	300	400	450	500
Weight (gr/m)	410	510	615	820	920	1020

Standard compound: **transparent Polyurethane**

thermoplastic 88 ShA

Standard back cover: **none** Standard tooth cover: **none**

Standard cords: S and Z torsion kevlar at pitch 4,5 mm

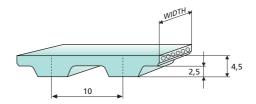
Standard width tolerance: +/- 2 mm
Standard thickness: 4,5 +/- 0,3 mm
Standard length tolerance: +/- 0,8 mm/m

Standard roll length: 100 m

Belt options on request with minimum quantity:

Nylon fabric back Nylon fabric teeth Antistatic nylon fabric



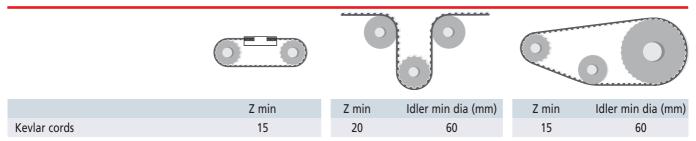


TOOTH RESISTANCE

RPM (1/min) 0	20	40	60	80	100	200	300	400	500	750	1000	1500	2000	3000	4000	5000	8000
F _{n spoc} (N/cm) 51	49	48	47	46	45	41	39	37	36	33	31	28	25	22	20	18	14

TRACTION RESISTANCE

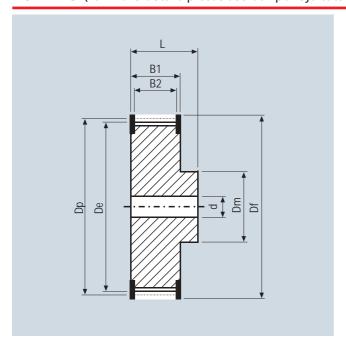
	Belt width (mm)	200	250	300	400	450	500
Kevlar	Max Traction Load (N)	8350	10255	12310	16560	18610	20810
	Breaking Strength (N)	29240	35905	43090	57965	65150	72845
	Elongation at MTL (mm/m)	8	8	8	8	8	8
				Average valu	ies		



JOINED BELT INFORMATIONS

- Minimum splice length 900 mm
- Traction and tooth resistances = 50% less than open-end
- Joined belt can be used only in conveyor systems
- Rolls with NFT and NFB can be joined too
- Minimum diameters according above table





N° Teeth	Dp	De	N° Teeth
12	38,20	36,35	26
14	44,56	42,71	27
15	47,75	45,90	28
16	50,93	49,08	30
18	57,30	55,45	32
19	60,48	58,63	36
20	63,66	61,81	40
22	70,03	68,18	44
24	76,39	74,55	48
25	79,58	77,73	60

N° Teeth	Dp	De
26	82,76	80,91
27	85,94	84,10
28	89,13	87,28
30	95,49	93,65
32	101,86	100,01
36	114,59	112,74
40	127,32	125,48
44	140,06	138,21
48	152,79	150,94
60	190,99	189,14

MEGALINEAR T20 OPEN-END

BELT CHARACTERISTICS

STANDARD WIDTHS (mm)	25	32	50	75	100	150
Weight (gr/m)	185	235	370	550	735	1095

 ${\bf Standard\ compound:\ white\ Polyurethane}$

thermoplastic 92 ShA

Standard back cover: **none** Standard tooth cover: **none**

Standard cords: S and Z torsion zinked steel

Standard width tolerance: +/- 1 mm Standard thickness: 8 +/- 0,45 mm Standard length tolerance: +/- 0,8 mm/m

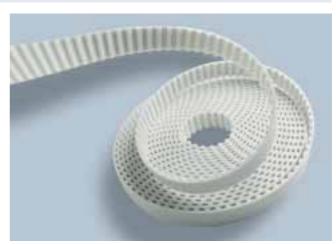
Standard roll length: 100 m

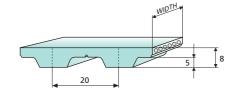
Belt options on request with minimum quantity:

Nylon fabric back Nylon fabric teeth Antistatic nylon fabric FDA compound AVAFC 60/70/85 ShA

APL Fishbone Ribbed Cleats

Different back coating materials see page 86





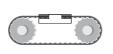
TOOTH RESISTANCE

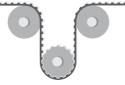
RPM (1/min) 0	20	40	60	80	100	200	300	400	500	750	1000	1500	2000	3000	4000	5000	8000
F _{p spec} (N/cm) 102	98	95	93	91	89	81	76	72	68	62	57	50	45	38	33	29	-

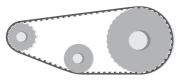
TRACTION RESISTANCE

	Belt width (mm)	25	32	50	75	100	150	
Steel	Max Traction Load (N)	3610	4510	7670	12350	16625	26815	
	Breaking Strength (N)	14440	18050	30685	46930	63175	93860	
	Elongation at MTL (mm/m)	4	4	4	4	4	4	
Kevlar	Max Traction Load (N)	4215	5620	9135	14800	19975	32940	
	Breaking Strength (N)	16870	22495	36555	56240	75920	115290	
	Elongation at MTL (mm/m)	8	8	8	8	8	8	
HP	Max Traction Load (N)	4930	6570	10680	17300	23350	38500	
	Breaking Strength (N)	19720	26295	42730	65740	88745	134765	
	Elongation at MTL (mm/m)	5	5	5	5	5	5	
HF	Max Traction Load (N)	3740	4675	7950	12800	-	-	
	Breaking Strength (N)	14970	18715	31815	48655	-	-	
	Elongation at MTL (mm/m)	5	5	5	5	-	-	
HPF	Max Traction Load (N)	5485	7315	11885	19250	-	-	
	Breaking Strength (N)	21945	29260	47545	73150	-	-	
	Elongation at MTL (mm/m)	5	5	5	5	-	-	
Stainless	Max Traction Load (N)	2865	3585	6095	-	-	-	
	Breaking Strength (N)	11475	14345	24385	-	-	_	
	Elongation at MTL (mm/m)	3,8	3,8	3,8	-	-	-	
				Average valu	ıes			

Average value







	Z min
Standard steel cords	15
Kevlar cords	15
High Power cords	20
High Flexibility cords	15
High Power Flexible cords	18
Stainless steel cords	20

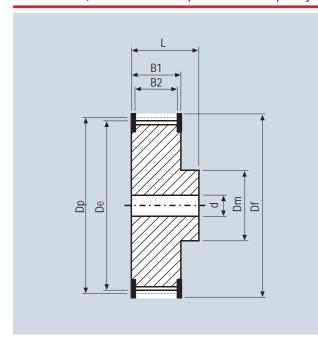
Z min	Idler min dia (mm)
25	120
25	120
25	150
20	120
25	120
25	130

Z min	Idler min dia (mm)
15	120
15	120
20	150
15	120
18	120
20	130

JOINED BELT INFORMATIONS

- Minimum splice length 900 mm
- Traction and tooth resistances = 50% less than open-end
- Joined belt can be used only in conveyor systems
- Rolls with NFT, NFB, AVAFC and APL can be joined too
- Minimum diameters according above table
- For coated belts, minimum diameters on page 86





N° Teeth	Dp	De
15	95,54	92,69
18	114,59	111,73
20	127,32	124,47
22	140,06	137,20
24	152,79	149,93
25	159,15	156,30

N° Teeth	Dp	De
30	190,99	188,13
32	203,72	200,86
36	229,18	226,33
40	254,65	251,80
48	305,58	302,73
60	381,97	379,12

MEGALINEAR AT3 OPEN-END

BELT CHARACTERISTICS

STANDARD WIDTHS (mm)	10	20	25	50
Weight (gr/m)	20	45	60	115

Standard compound: white Polyurethane

thermoplastic 92 ShA

Standard back cover: **none** Standard tooth cover: **none**

Standard cords: S and Z torsion zinked steel

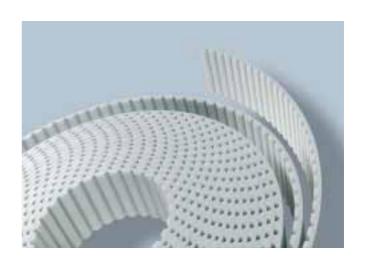
Standard width tolerance: +/- 0,5 mm Standard thickness: 1,9 +/- 0,1 mm Standard length tolerance: +/- 0,5 mm/m

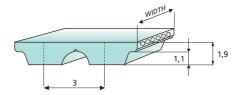
Standard roll length: 100 m

Belt options on request with minimum quantity:

Nylon fabric back Nylon fabric teeth Antistatic nylon fabric FDA compound

Different back coating materials see page 86

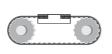


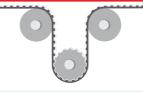


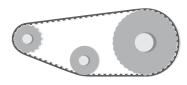
TOOTH RESISTANCE

RPM (1/min) 0	20	40	60	80	100	200	300	400	500	750	1000	1500	2000	3000	4000	5000	8000
F _{p spec} (N/cm) 24	24	24	23	23	23	22	21	21	20	19	18	16	15	14	13	12	10

	Belt width (mm)	10	20	25	50				
Steel	Max Traction Load (N)	385	775	1010	2060				
	Breaking Strength (N)	1555	3115	4050	8255				
	Elongation at MTL (mm/m) 4 4		4	4 4					
Δverage values									







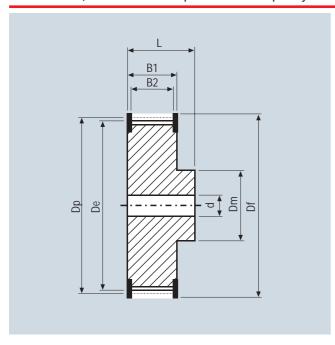
Z min	Idler min dia (mm)	Z min	Idler min dia (mm)
25	30	20	30

Z min Standard steel cords 20

JOINED BELT INFORMATIONS

- Minimum splice length 900 mm
- Traction and tooth resistances = 50% less than open-end
- Joined belt can be used only in conveyor systems
- Rolls with NFT and NFB can be joined too
- Minimum diameters according above table
- For coated belts, minimum diameters on page 86





N° Teeth	Dp	De	N° Teeth	Dp	De
20	19,10	18,69	36	34,39	33,97
22	21,01	20,6	40	38,21	37,79
24	22,92	22,51	44	42,03	41,61
25	23,88	23,46	45	42,99	42,56
27	25,79	25,37	48	45,85	45,43
30	28,66	28,24	60	57,32	58,69
32	30,57	30,15	72	68,78	68,34

MEGALINEAR AT5 OPEN-END

BELT CHARACTERISTICS

STANDARD WIDTHS (mm)	6	10	16	25	32	50	75	100	
Weight (gr/m)	20	35	50	80	105	165	245	340	

Standard compound: white Polyurethane thermoplastic 92 ShA

Standard back cover: **none** Standard tooth cover: **none**

Standard cords: S and Z torsion zinked steel

Standard width tolerance: +/- 0,5 mm Standard thickness: 2,7 +/- 0,2 mm Standard length tolerance: +/- 0,8 mm/m

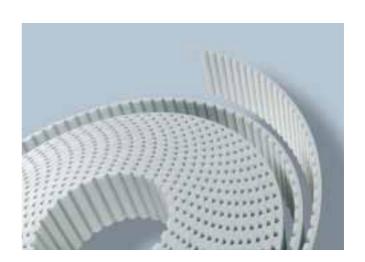
Standard roll length: 100 m

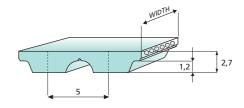
Belt options on request with minimum quantity:

Nylon fabric back Nylon fabric teeth Antistatic nylon fabric FDA compound AVAFC 60/70/85 ShA APL

APL Cleats

Different back coating materials see page 86





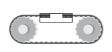
TOOTH RESISTANCE

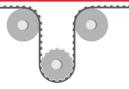
RPM (1/min)	0	20	40	60	80	100	200	300	400	500	750	1000	1500	2000	3000	4000	5000	8000
Fn snos (N/cm)	35	35	35	34	34	34	32	31	30	29	27	26	24	22	19	18	16	13

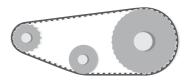
TRACTION RESISTANCE

	Belt width (mm)	6	10	16	25	32	50	75	100	
Steel	Max Traction Load (N)	380	635	1015	1715	2160	3560	4890	6565	
	Breaking Strength (N)	1525	2545	4070	6870	8655	14255	18585	24950	
	Elongation at MTL (mm/m)	4	4	4	4	4	4	4	4	
Kevlar	Max Traction Load (N)	395	665	1060	1795	2260	3720	5110	6860	
	Breaking Strength (N)	1595	2660	4255	7180	9040	14895	19415	26065	
	Elongation at MTL (mm/m)	8	8	8	8	8	8	8	8	
HP	Max Traction Load (N)	-	795	1395	2290	2890	4785	-	-	
	Breaking Strength (N)	-	3190	5585	9175	11570	19150	-	-	
	Elongation at MTL (mm/m)	-	5	5	5	5	5	-	-	
HF	Max Traction Load (N)	-	590	950	1600	2015	3325	-	-	
	Breaking Strength (N)	-	2375	3800	6410	8075	13300	-	-	
	Elongation at MTL (mm/m)	-	5	5	5	5	5	-	-	
HPF	Max Traction Load (N)	-	835	1460	2400	3030	5015	-	-	
	Breaking Strength (N)	-	3340	5850	9610	12120	20060	-	-	
	Elongation at MTL (mm/m)	-	5	5	5	5	5	-	-	
Stainless	Max Traction Load (N)	310	520	835	1410	-	-	-	-	
	Breaking Strength (N)	1250	2090	3340	5640	-	-	-	-	
	Elongation at MTL (mm/m)	3,8	3,8	3,8	3,8	-	-	-	-	

Average values







	Z min
Standard steel cords	15
Kevlar cords	15
High Power cords	25
High Flexibility cords	12
High Power Flexible cords	20
Stainless steel cords	15

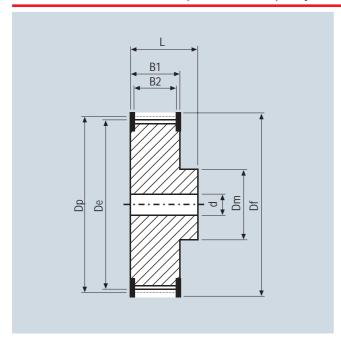
Z min	Idler min dia (mm)
25	60
25	60
25	60
13	40
15	40
18	65

Z min	Idler min dia (mm)
15	25
15	25
25	40
12	25
20	40
15	60

JOINED BELT INFORMATIONS

- Minimum splice length 900 mm
- Traction and tooth resistances = 50% less than open-end
- Joined belt can be used only in conveyor systems
- Rolls with NFT, NFB, AVAFC and APL can be joined too
- Minimum diameters according above table
- For coated belts, minimum diameters on page 86





N° Teeth	Dp	De
15	23,87	22,64
16	25,46	24,24
18	28,65	27,42
19	30,24	29,01
20	31,83	30,60
22	35,01	33,79
24	38,20	36,97
25	39,79	38,56
26	41,38	40,15
27	42,97	41,74

N° Teeth	Dp	De
28	44,56	43,33
30	47,75	46,52
32	50,93	49,70
36	57,30	56,07
40	63,66	62,43
42	66,85	65,62
44	70,03	68,80
48	76,39	75,17
60	95,49	94,27

MEGALINEAR AT10 OPEN-END

BELT CHARACTERISTICS

STANDARD WIDTHS (mm)	16	25	32	50	75	100	150
Weight (gr/m)	90	160	185	290	435	580	890

Standard compound: white Polyurethane thermoplastic 92 ShA

over: **none**

Standard back cover: **none** Standard tooth cover: **none**

Standard cords: S and Z torsion zinked steel

Standard width tolerance: +/- 0,5 mm
Standard thickness: 4,5 +/- 0,3 mm
Standard length tolerance: +/- 0,8 mm/m

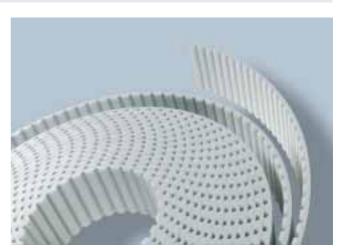
Standard roll length: 100 m

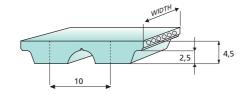
Belt options on request with minimum quantity:

Nylon fabric back Nylon fabric teeth Antistatic nylon fabric FDA compound AVAFC 60/70/85 ShA

APL Fishbone Ribbed Cleats

Different back coating materials see page 86





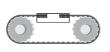
TOOTH RESISTANCE

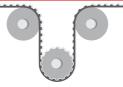
RPM (1/min) 0	20	40	60	80	100	200	300	400	500	750	1000	1500	2000	3000	4000	5000	8000
F _{n spec} (N/cm) 74	72	71	71	70	69	65	62	60	58	53	50	44	40	35	30	27	20

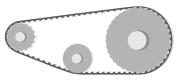
TRACTION RESISTANCE

	Belt width (mm)	16	25	32	50	75	100	150	
Steel	Max Traction Load (N)	2030	3610	4510	7670	12350	16625	26815	
	Breaking Strength (N)	8120	14440	18050	30685	46930	63175	93860	
	Elongation at MTL (mm/m)	4	4	4	4	4	4	4	
Kevlar	Max Traction Load (N)	2105	4215	5620	9135	14800	19980	32940	
	Breaking Strength (N)	8435	16870	22495	36555	56240	75920	115290	
	Elongation at MTL (mm/m)	8	8	8	8	8	8	8	
HP	Max Traction Load (N)	3285	4930	6570	10680	17300	23355	38500	
	Breaking Strength (N)	13145	19720	26295	42730	65740	88745	134765	
	Elongation at MTL (mm/m)	5	5	5	5	5	5	5	
HF	Max Traction Load (N)	2105	3740	4675	7950	12805	17235	27805	
	Breaking Strength (N)	8420	14970	18715	31815	48655	65500	97315	
	Elongation at MTL (mm/m)	5	5	5	5	5	5	5	
HPF	Max Traction Load (N)	3655	5485	7315	11885	19250	25985	42845	
	Breaking Strength (N)	14630	21945	29260	47545	73150	98750	149955	
	Elongation at MTL (mm/m)	5	5	5	5	5	5	5	
Stainless	Max Traction Load (N)	1610	2865	3585	6095	-	-	-	
	Breaking Strength (N)	6455	11475	14345	24385	-	-	_	
	Elongation at MTL (mm/m)	3,8	3,8	3,8	3,8	-	-	-	

Average value







	Z min
Standard steel cords	15
Kevlar cords	15
High Power cords	25
High Flexibility cords	15
High Power Flexible cords	16
Stainless steel cords	19

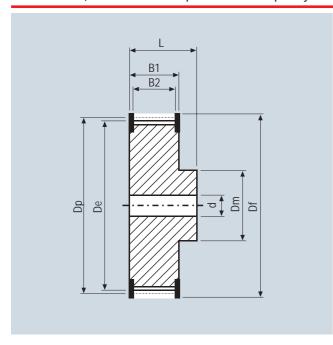
Z min	Idler min dia (mm)
20	120
20	120
25	150
20	80
20	100
25	110

Z min	Idler min dia (mm)
15	50
15	50
25	80
15	50
16	60
19	110

JOINED BELT INFORMATIONS

- Minimum splice length 900 mm
- Traction and tooth resistances = 50% less than open-end
- Joined belt can be used only in conveyor systems
- Rolls with NFT, NFB, AVAFC and APL can be joined too
- Minimum diameters according above table
- For coated belts, minimum diameters on page 86





N° Teeth	Dp	De
15	47,75	45,90
16	50,93	49,08
18	57,30	55,45
19	60,48	58,63
20	63,66	61,81
22	70,03	68,18
24	76,39	74,55
25	79,58	77,73
26	82,76	80,91

N° Teeth	Dp	De	
27	85,94	84,10	
28	89,13	87,28	
30	95,49	93,65	
32	101,86	100,01	
36	114,59	112,74	
40	127,32	125,48	
44	140,06	138,21	
48	152,79	150,94	
60	190,99	189,14	

MEGALINEAR AT20 OPEN-END

BELT CHARACTERISTICS

STANDARD WIDTHS (mm)	25	32	50	75	100	150	200
Weight (gr/m)	225	310	480	720	960	1425	1935

Standard compound: white Polyurethane

thermoplastic 92 ShA

Standard back cover: **none** Standard tooth cover: **none**

Standard cords: S and Z torsion zinked steel

Standard width tolerance: +/- 1 mm
Standard thickness: 8 +/- 0,45 mm
Standard length tolerance: +/- 0,8 mm/m

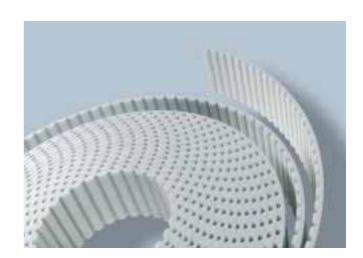
Standard roll length: 100 m

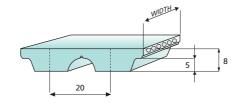
Belt options on request with minimum quantity:

Nylon fabric back Nylon fabric teeth Antistatic nylon fabric FDA compound AVAFC 60/70/85 ShA

APL Fishbone Ribbed Cleats

Different back coating materials see page 86





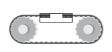
TOOTH RESISTANCE

RPM (1/min)	0	20	40	60	80	100	200	300	400	500	750	1000	1500	2000	3000	4000	5000	8000
F _{n spec} (N/cm)	147	144	142	139	137	135	126	119	112	107	97	88	76	67	58	43	35	_

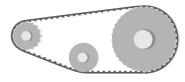
TRACTION RESISTANCE

	Belt width (mm)	25	32	50	75	100	150	200
Steel	Max Traction Load (N)	4930	6570	10680	17300	23355	38500	48835
	Breaking Strength (N)	19720	26295	42730	65740	88745	134765	170920
	Elongation at MTL (mm/m)	4	4	4	4	4	4	4
Kevlar	Max Traction Load (N)	4215	5620	9135	14800	19980	32940	41775
	Breaking Strength (N)	16870	22495	36555	56240	75920	115290	146220
	Elongation at MTL (mm/m)	8	8	8	8	8	8	8
HP	Max Traction Load (N)	_	9880	15200	24000	32000	53850	71220
	Breaking Strength (N)	-	39520	60800	91200	121600	188480	249280
	Elongation at MTL (mm/m)	_	5	5	5	5	5	5
HF	Max Traction Load (N)	5485	7315	11885	19250	25985	42845	54340
	Breaking Strength (N)	21945	29260	47545	73150	98750	149955	190190
	Elongation at MTL (mm/m)	5	5	5	5	5	5	5
				Average valu	ies			

Average value







	Z min
Standard steel cords	18
Kevlar cords	18
High Power cords	25
High Flexibility cords	18

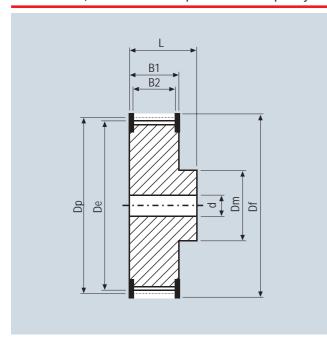
Z min	Idler min dia (mm)
25	180
25	180
25	250
25	150

Z min	Idler min dia (mm)
18	120
18	120
25	160
18	120

JOINED BELT INFORMATIONS

- Minimum splice length 900 mm
- Traction and tooth resistances = 50% less than open-end
- Joined belt can be used only in conveyor systems
- Rolls with NFT, NFB, AVAFC and APL can be joined too
- Minimum diameters according above table
- For coated belts, minimum diameters on page 86





N° Teeth	Dp	De
18	114,59	111,73
20	127,32	124,47
22	140,06	137,20
24	152,79	149,93
25	159,15	156,30
30	190,99	188,13

N° Teeth	Dp	De
32	203,72	200,86
36	229,18	226,33
40	254,65	251,80
48	305,58	302,73
60	381,97	379,12

MEGALINEAR MTD3 OPEN-END

BELT CHARACTERISTICS

STANDARD WIDTHS (mm)	10	20	25	50
Weight (gr/m)	20	45	60	115

Standard compound: white Polyurethane

thermoplastic 92 ShA

Standard back cover: **none** Standard tooth cover: **none**

Standard cords: S and Z torsion zinked steel

Standard width tolerance: +/- 0,3 mm
Standard thickness: 2,2 +/- 0,15 mm
Standard length tolerance: +/- 0,5 mm/m

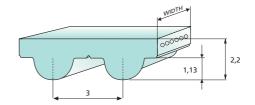
Standard roll length: 100 m

Belt options on request with minimum quantity:

Nylon fabric back Nylon fabric teeth Antistatic nylon fabric FDA compound

Different back coating materials see page 86



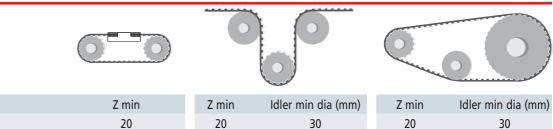


TOOTH RESISTANCE

RPM (1/min) 0	20	40	60	80	100	200	300	400	500	750	1000	1500	2000	3000	4000	5000	8000
F _{p spec} (N/cm) 23	23	22	22	22	22	21	20	20	19	18	17	16	15	13	12	11	9

	Belt width (mm)	10	20	25	50
Steel	Max Traction Load (N)	385	775	1010	2060
Steel	* *	383	//5	1010	2000
	Breaking Strength (N)	1555	3115	4050	8255
	Elongation at MTL (mm/m)	4	4	4	4
				Average valu	105

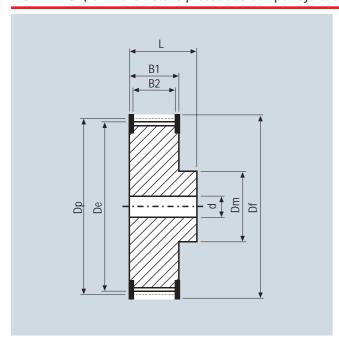
Standard steel cords



JOINED BELT INFORMATIONS

- Minimum splice length 900 mm
- Traction and tooth resistances = 50% less than open-end
- Joined belt can be used only in conveyor systems
- Rolls with NFT and NFB can be joined too
- Minimum diameters according above table
- For coated belts, minimum diameters on page 86





N° Teeth	Dp	De	N° Teeth	Dp	De
20	19,10	18,34	32	30,56	29,80
21	20,05	19,29	36	34,38	33,62
22	21,01	20,25	40	38,20	37,44
24	22,92	22,16	44	42,02	41,25
26	24,83	24,07	48	45,84	45,07
28	26,74	25,98	60	57,30	56,53
30	28,65	27,89	72	68,75	67,99

MEGALINEAR MTD5 OPEN-END

BELT CHARACTERISTICS

STANDARD WIDTHS (mm)	10	15	25	50
Weight (gr/m)	35	50	80	165

Standard compound: white Polyurethane

thermoplastic 92 ShA

Standard back cover: **none** Standard tooth cover: **none**

Standard cords: S and Z torsion zinked steel

Standard width tolerance: +/- 0,5 mm
Standard thickness: 3,6 +/- 0,2 mm
Standard length tolerance: +/- 0,8 mm/m

Standard roll length: 100 m

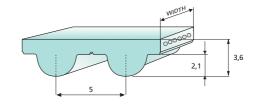
Belt options on request with minimum quantity:

Nylon fabric back Nylon fabric teeth Antistatic nylon fabric

Cleats

Different back coating materials see page 86





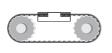
TOOTH RESISTANCE

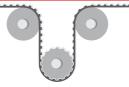
RPM (1/min) 0	20	40	60	80	100	200	300	400	500	750	1000	1500	2000	3000	4000	5000	8000
F _{n spec} (N/cm) 34	34	33	33	33	32	31	30	29	28	26	25	23	21	19	17	16	13

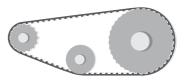
TRACTION RESISTANCE

	Belt width (mm)	10	15	25	50
Steel	Max Traction Load (N)	635	950	1715	3560
	Breaking Strength (N)	2545	3815	6870	14255
	Elongation at MTL (mm/m)	4	4	4	4
Kevlar	Max Traction Load (N)	665	995	1795	3720
	Breaking Strength (N)	2660	3990	7180	14895
	Elongation at MTL (mm/m)	8	8	8	8
Stainless	Max Traction Load (N)	520	780	1410	-
	Breaking Strength (N)	2090	3135	5640	-
	Elongation at MTL (mm/m)	3,8	3,8	3,8	-

Average values







	Z min
Standard steel cords	16
Kevlar cords	16
Stainless steel cords	18

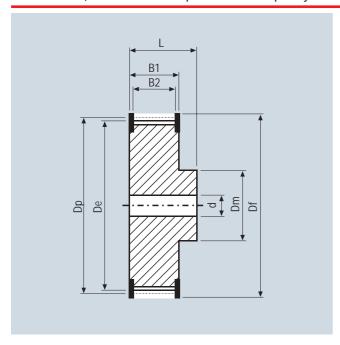
Z min	Idler min dia (mm)
16	50
16	50
20	65

Z min	Idler min dia (mm)
	, ,
16	25
16	25
18	65

JOINED BELT INFORMATIONS

- Minimum splice length 900 mm
- Traction and tooth resistances = 50% less than open-end
- Joined belt can be used only in conveyor systems
- Rolls with NFT, NFB, AVAFC and APL can be joined too
- Minimum diameters according above table
- For coated belts, minimum diameters on page 86





N° Teeth	Dp	De
16	25,46	24,32
18	28,65	27,50
20	31,83	30,69
21	33,42	32,28
22	35,01	33,87
24	38,20	37,05
26	41,38	40,24
28	44,56	43,42

N° Teeth	Dp	De
30	47,75	46,60
32	50,93	49,79
36	57,30	56,15
40	63,66	62,52
44	70,03	68,89
48	76,39	75,25
60	95,49	94,35
72	114,59	113,45

MEGALINEAR MTD8 OPEN-END

BELT CHARACTERISTICS

STANDARD WIDTHS (mm)	10	15	20	30	50	85	100
Weight (gr/m)	65	85	120	185	325	530	650

Standard compound: white Polyurethane

thermoplastic 92 ShA

Standard back cover: **none** Standard tooth cover: **none**

Standard cords: S and Z torsion zinked steel

Standard width tolerance: +/- 0,5 mm
Standard thickness: 5,6 +/- 0,3 mm
Standard length tolerance: +/- 0,8 mm/m

Standard roll length: 100 m

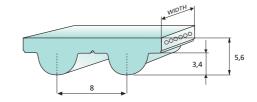
Belt options on request with minimum quantity:

Nylon fabric back Nylon fabric teeth Antistatic nylon fabric FDA compound AVAFC 60/70/85 ShA

APL Fishbone Ribbed Cleats

Different back coating materials see page 86





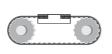
TOOTH RESISTANCE

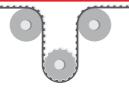
RPM (1/min) 0	20	40	60	80	100	200	300	400	500	750	1000	1500	2000	3000	4000	5000	8000
F _{p spec} (N/cm) 67	66	65	64	63	63	59	57	54	52	48	45	40	37	31	28	24	18

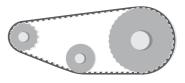
TRACTION RESISTANCE

	Belt width (mm)	10	15	20	30	50	85	100
HP = Standard	Max Traction Load (N)	1350	2030	2930	4510	7670	14010	16625
	Breaking Strength (N)	5415	8120	11730	18050	30685	53245	63175
	Elongation at MTL (mm/m)	5	5	5	5	5	5	5
Kevlar	Max Traction Load (N)	765	1150	1535	2565	4360	7965	9450
	Breaking Strength (N)	3075	4615	6155	10260	17440	30265	35910
	Elongation at MTL (mm/m)	8	8	8	8	8	8	8
HF	Max Traction Load (N)	795	1295	1795	2790	4785	8715	10290
	Breaking Strength (N)	3190	5185	7180	11170	19150	33115	39100
	Elongation at MTL (mm/m)	5	5	5	5	5	5	5
Stainless	Max Traction Load (N)	1075	1610	2330	3585	6095	-	-
	Breaking Strength (N)	4300	6455	9320	14345	24385	-	_
	Elongation at MTL (mm/m)	3,8	3,8	3,8	3,8	3,8	-	-

Average values







	Z min
HP = Standard	20
Kevlar cords	20
High Flexibility cords	20
Stainless steel cords	24

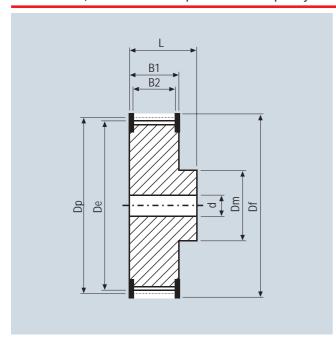
Z min	Idler min dia (mm)
22	100
22	100
20	80
28	110

Z min	Idler min dia (mm)
20	50
20	50
20	40
24	80

JOINED BELT INFORMATIONS

- Minimum splice length 900 mm
- Traction and tooth resistances = 50% less than open-end
- Joined belt can be used only in conveyor systems
- Rolls with NFT, NFB, AVAFC and APL can be joined too
- Minimum diameters according above table
- For coated belts, minimum diameters on page 86





N° Teeth	Dp	De
20	50,95	49,58
22	56,02	54,65
24	61,12	59,75
26	66,21	64,84
28	71,30	70,08
30	76,39	75,13
32	81,49	80,16
34	86,58	85,22
36	91,67	90,30
38	96,77	95,39
40	101,86	100,49

N° Teeth	Dp	De
44	112,05	110,67
48	122,23	141,23
56	142,60	141,23
64	162,97	161,60
72	183,35	181,97
80	203,72	202,35
90	229,18	227,81
112	285,21	283,83
144	366,69	365,32
168	427,81	426,44
192	488,92	487,55

MEGALINEAR MTD14 OPEN-END

BELT CHARACTERISTICS

STANDARD WIDTHS (mm)	25	40	55	85	100	115
Weight (gr/m)	260	400	555	850	1000	1150

Standard compound: white Polyurethane

thermoplastic 92 ShA

Standard back cover: **none** Standard tooth cover: **none**

Standard cords: S and Z torsion zinked steel

Standard width tolerance: +/- 1 mm Standard thickness: 10 +/- 0,45 mm Standard length tolerance: +/- 0,8 mm/m

Standard roll length: 100 m

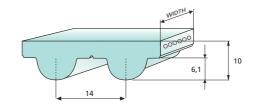
Belt options on request with minimum quantity:

Nylon fabric back Nylon fabric teeth Antistatic nylon fabric FDA compound AVAFC 60/70/85 ShA

APL Fishbone Ribbed Cleats

Different back coating materials see page 86





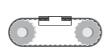
TOOTH RESISTANCE

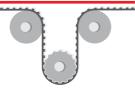
RPM (1/min) 0	20	40	60	80	100	200	300	400	500	750	1000	1500	2000	3000	4000	5000	8000
F _{n spec} (N/cm) 115	113	111	109	108	106	99	93	88	84	76	69	60	52	46	34	28	_

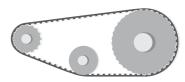
TRACTION RESISTANCE

	Belt width (mm)	25	40	55	85	100	115
Steel	Max Traction Load (N)	5340	8215	12110	19460	23355	28640
	Breaking Strength (N)	21365	32870	46015	73955	88745	100250
	Elongation at MTL (mm/m)	4	4	4	4	4	4
Kevlar	Max Traction Load (N)	4215	7030	10360	16650	19980	24500
	Breaking Strength (N)	16870	28120	39365	63270	75920	85765
	Elongation at MTL (mm/m)	8	8	8	8	8	8
				A., a. a. a. a. a. l.			

Average value







	Z min
Standard steel cords	26
Kevlar cords	26

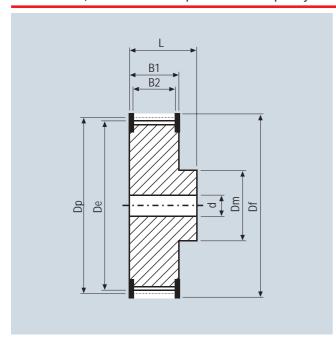
Z min	Idler min dia (mm)
28	180
28	180

Z min	Idler min dia (mm)
26	120
26	120

JOINED BELT INFORMATIONS

- Minimum splice length 900 mm
- Traction and tooth resistances = 50% less than open-end
- Joined belt can be used only in conveyor systems
- Rolls with NFT, NFB, AVAFC and APL can be joined too
- Minimum diameters according above table
- For coated belts, minimum diameters on page 86





	√ eth	Dp		De	
2	26	115,9	2 1	13,13	
2	28	124,7	8 1	21,98	,
2	.9	129,2	3 1	26,44	
3	0	133,69	9 1	30,90)
3	32	142,6	0 1	39,81	
3	34	151,5	1 1	48,72	
3	86	160,4	3 1	57,68	,
3	8	169,3	4 1	66,60)
4	10	178,2	5 1	75,49	
4	14	196,0	8 1	93,28	,
4	8	213,9	0 2	11,11	

N° Teeth	Dp	De
56	249,55	246,76
64	285,21	282,41
72	320,86	318,06
80	356,51	353,71
90	401,07	398,28
112	499,11	496,32
144	641,71	638,92
168	748,66	745,87
192	855,62	852,82
216	962,57	959,76

MEGALINEAR RPP5 OPEN-END

BELT CHARACTERISTICS

STANDARD WIDTHS (mm)	10	15	25	30	50
Weight (gr/m)	40	60	100	120	195

Standard compound: white Polyurethane

thermoplastic 92 ShA

Standard back cover: none

Standard tooth cover: **nylon fabric (NFT)**Standard cords: **S and Z torsion zinked steel**

Standard width tolerance: +/- 0,5 mm
Standard thickness: 3,8 +/- 0,2 mm
Standard length tolerance: +/- 0,8 mm/m

Standard roll length: 100 m

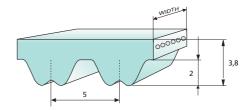
Belt options on request with minimum quantity:

Nylon fabric back Antistatic nylon fabric AVAFC 60/70/85 ShA

APL Cleats

Different back coating materials see page 86

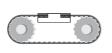


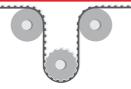


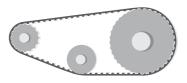
TOOTH RESISTANCE

RPM (1/min) 0	20	40	60	80	100	200	300	400	500	750	1000	1500	2000	3000	4000	5000	8000
F _{p spec} (N/cm) 37	36	36	36	35	35	33	32	30	30	27	26	24	23	21	19	18	15

	Belt width (mm)	10	15	25	30	50
Steel	Max Traction Load (N)	635	950	1715	2100	3560
	Breaking Strength (N)	2545	3815	6870	8400	14255
	Elongation at MTL (mm/m)	4	4	4	4	4
Kevlar	Max Traction Load (N)	665	995	1795	2190	3720
	Breaking Strength (N)	2660	3990	7180	8775	14895
	Elongation at MTL (mm/m)	8	8	8	8	8
Stainless	Max Traction Load (N)	520	780	1410	-	-
	Breaking Strength (N)	2090	3135	5640	-	-
	Elongation at MTL (mm/m)	3,8	3,8	3,8	-	-
				Average valu	IAS	







	Z min
Standard steel cords	12
Kevlar cords	12
Stainless steel cords	15

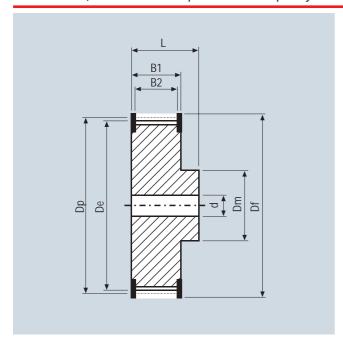
Z m	in Io	dler min dia (mm)
13		60
13		60
17	,	65

Z min	Idler min dia (mm)
12	20
12	20
15	65

JOINED BELT INFORMATIONS

- Minimum splice length 900 mm
- Traction and tooth resistances = 50% less than open-end
- Joined belt can be used only in conveyor systems
- Rolls with NFT, NFB, AVAFC and APL can be joined too
- Minimum diameters according above table
- For coated belts, minimum diameters on page 86





N° Teeth	Dp	De
12	19,10	17,96
14	22,28	21,14
15	23,87	22,73
16	25,46	24,32
18	28,65	27,50
20	31,83	30,69
21	33,42	32,28
22	35,01	33,87
24	38,20	37,05
26	41,38	40,24

N° Teeth	Dp	De
28	44,56	43,42
30	47,75	46,60
32	50,93	49,79
36	57,30	56,15
40	63,66	62,52
44	70,03	68,89
48	76,39	75,25
60	95,49	94,35
72	114,59	113,45

MEGALINEAR RPP8 OPEN-END

BELT CHARACTERISTICS

STANDARD WIDTHS (mm)	10	15	20	30	50	85	100
Weight (gr/m)	65	100	130	195	330	560	655

Standard compound: white Polyurethane

thermoplastic 92 ShA

Standard back cover: none

Standard tooth cover: **nylon fabric (NFT)**Standard cords: **S and Z torsion zinked steel**

Standard width tolerance: +/- 0,5 mm
Standard thickness: 5,4 +/- 0,3 mm
Standard length tolerance: +/- 0,8 mm/m

Standard roll length: 100 m

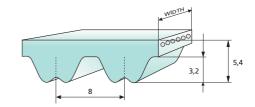
Belt options on request with minimum quantity:

Nylon fabric back Antistatic nylon fabric AVAFC 60/70/85 ShA

APL Fishbone Ribbed Cleats

Different back coating materials see page 86





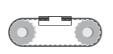
TOOTH RESISTANCE

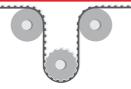
RPM (1/min) 0	20	40	60	80	100	200	300	400	500	750	1000	1500	2000	3000	4000	5000	8000
F _{p spec} (N/cm) 76	75	74	73	72	71	65	62	60	57	53	50	45	42	38	35	32	25

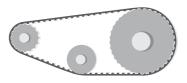
TRACTION RESISTANCE

	Belt width (mm)	10	15	20	30	50	85	100
Steel	Max Traction Load (N)	1350	2030	2930	4510	7670	14010	16625
	Breaking Strength (N)	5415	8120	11730	18050	30685	53245	63175
	Elongation at MTL (mm/m)	4	4	4	4	4	4	4
Kevlar	Max Traction Load (N)	1110	1665	2405	3705	6295	11505	13650
	Breaking Strength (N)	4445	6665	9630	14820	25190	43715	51870
	Elongation at MTL (mm/m)	8	8	8	8	8	8	8
HP	Max Traction Load (N)	2050	3285	4515	6980	11500	21625	25085
	Breaking Strength (N)	8215	13145	18075	27935	46015	82175	95320
	Elongation at MTL (mm/m)	5	5	5	5	5	5	5
				Δverage valu	ıΔς			

Average value







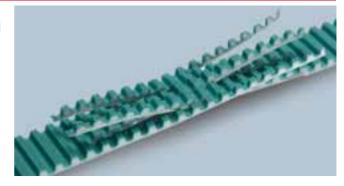
	Z min
Standard steel cords	18
Kevlar cords	18
High Power cords	22

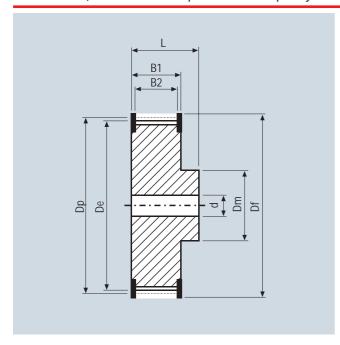
Z min	Idler min dia (mm)
20	100
20	100
25	150

Z min	Idler min dia (mm)
18	45
18	45
22	60

JOINED BELT INFORMATIONS

- Minimum splice length 900 mm
- Traction and tooth resistances = 50% less than open-end
- Joined belt can be used only in conveyor systems
- Rolls with NFT, NFB, AVAFC and APL can be joined too
- Minimum diameters according above table
- For coated belts, minimum diameters on page 86





N° Teeth	Dp	De
18	45,86	44,49
22	56,02	54,65
24	61,12	59,74
26	66,21	64,84
28	71,30	69,93
30	76,39	75,02
32	81,49	80,12
34	86,58	85,21
36	91,67	90,30
38	96,77	95,39
40	101,86	100,49

N° Teeth	Dp	De
44	112,04	110,67
48	122,23	120,86
54	137,51	136,14
64	162,97	161,60
72	183,35	181,97
80	203,72	202,35
90	229,18	227,81
112	285,20	283,83
144	366,69	365,32
168	427,81	426,44
192	488,92	487,55

MEGALINEAR RPP14 OPEN-END

BELT CHARACTERISTICS

STANDARD WIDTHS (mm)	40	55	85	115	150
Weight (gr/m)	470	650	1000	1355	1840

Standard compound: white Polyurethane

thermoplastic 92 ShA

Standard back cover: **none**

Standard tooth cover: **nylon fabric (NFT)**Standard cords: **S and Z torsion zinked steel**

Standard width tolerance: +/- 1 mm Standard thickness: 10 +/- 0,4 mm Standard length tolerance: +/- 0,8 mm/m

Standard roll length: 100 m

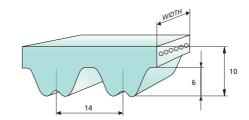
Belt options on request with minimum quantity:

Nylon fabric back Antistatic nylon fabric AVAFC 60/70/85 ShA

APL Fishbone Ribbed Cleats

Different back coating materials see page 86

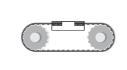


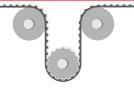


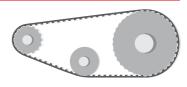
TOOTH RESISTANCE

RPM (1/min) 0	20	40	60	80	100	200	300	400	500	750	1000	1500	2000	3000	4000	5000	8000
F _{p spec} (N/cm) 140	137	135	133	131	128	118	111	105	101	91	84	75	62	52	40	30	-

	Belt width (mm)	40	55	85	115	150		
Steel	Max Traction Load (N)	12160	17600	28000	40820	53850		
	Breaking Strength (N)	48640	66880	106400	142880	188480		
	Elongation at MTL (mm/m)	4	4	4	4	4		
	Average values							







	Z min
Standard steel cords	32

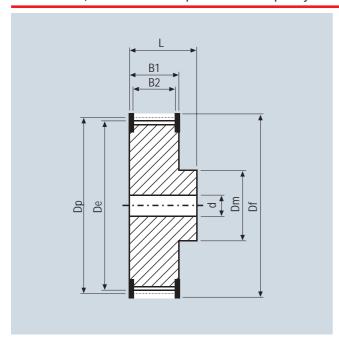
Z min	Idler min dia (mm)
35	250

Z min	Idler min dia (mm)
32	145

JOINED BELT INFORMATIONS

- Minimum splice length 900 mm
- Traction and tooth resistances = 50% less than open-end
- Joined belt can be used only in conveyor systems
- Rolls with NFT, NFB, AVAFC and APL can be joined too
- Minimum diameters according above table
- For coated belts, minimum diameters on page 86





N° Teeth	Dp	De
32	142,60	139,81
34	151,52	148,73
36	160,43	157,64
38	169,34	166,55
40	178,25	175,46
44	196,08	193,29
48	213,90	211,11
56	249,55	246,76
64	285,20	282,41
	•	

N° Teeth	Dp	De
72	320,86	318,07
80	356,51	353,72
90	401,07	398,28
112	499,11	496,32
144	641,71	638,92
168	748,66	745,87
192	855,61	852,82
216	962,57	959,78

MEGALINEAR RPP14XP OPEN-END

BELT CHARACTERISTICS

STANDARD WIDTHS (mm)	40	55	85	115
Weight (gr/m)	590	815	1250	1695

Standard compound: white Polyurethane

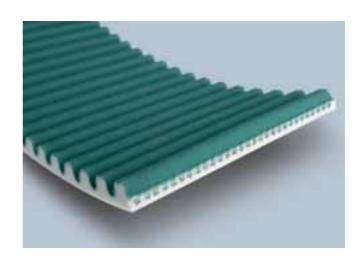
thermoplastic 92 ShA

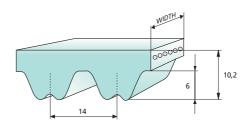
Standard back cover: **none**

Standard tooth cover: **nylon fabric (NFT)**Standard cords: **S and Z torsion zinked steel**

Standard width tolerance: +/- 1 mm
Standard thickness: 10,2 +/- 0,5 mm
Standard length tolerance: +/- 0,8 mm/m

Standard roll length: 100 m

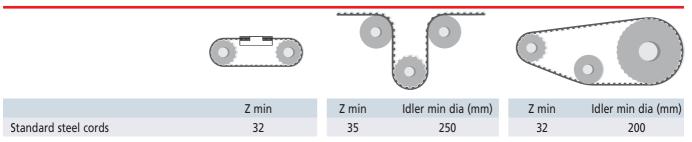




TOOTH RESISTANCE

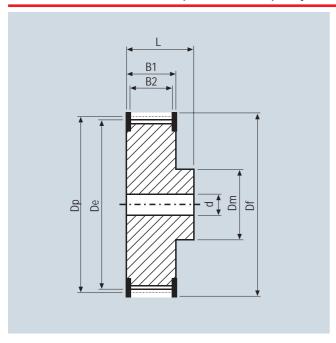
RPM (1/min) 0	20	40	60	80	100	200	300	400	500	750	1000	1500	2000	3000	4000	5000	8000
F _{p spec} (N/cm) 140	137	135	133	131	128	118	111	105	101	91	84	75	62	52	40	30	-

	Belt width (mm)	40	55	85	115				
Steel	Max Traction Load (N)	16000	23600	37050	53030				
	Breaking Strength (N)	64000	89600	140800	185600				
	Elongation at MTL (mm/m)	4	4	4	4				
	Average values								



BELT INFORMATIONS

- RPP14XP is not available in joined version because is suitable only for linear movement application.
- This belt is mainly used for elevators in car industry.
- Due to high Max traction load, system elasticity is very low.



N° Teeth	Dp	De	N° Teeth	Dp	De	
32	142,60	139,81	72	320,86	318,07	
34	151,52	148,73	80	356,51	353,72	
36	160,43	157,64	90	401,07	398,28	
38	169,34	166,55	112	499,11	496,32	
40	178,25	175,46	144	641,71	638,92	
44	196,08	193,29	168	748,66	745,87	
48	213,90	211,11	192	855,61	852,82	
56	249,55	246,76	216	962,57	959,78	
64	285,20	282,41				

MEGALINEAR STD5 OPEN-END

BELT CHARACTERISTICS

STANDARD WIDTHS (mm)	10	15	25	50
Veight (gr/m)	35	50	80	16

Standard compound: **black Polyurethane**

thermoplastic 92 ShA

Standard back cover: none

Standard tooth cover: antistatic nylon fabric (NFT)

Standard cords: S and Z torsion zinked steel

Standard width tolerance: +/- 0,5 mm Standard thickness: 3,4 +/- 0,25 mm Standard length tolerance: +/- 0,8 mm/m

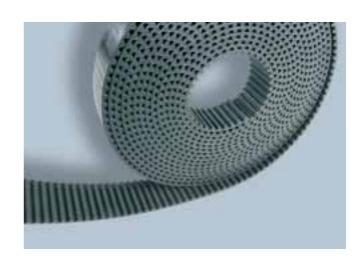
Standard roll length: 100 m

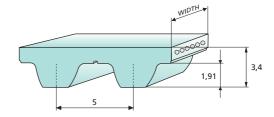
Belt options on request with minimum quantity:

Nylon fabric back AVAFC 60/70/85 ShA

APL Cleats

Different back coating materials see page 86

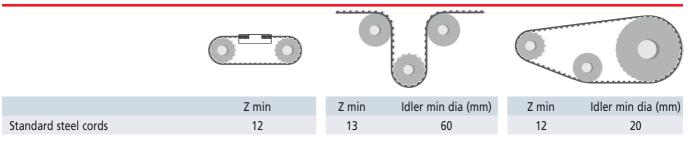




TOOTH RESISTANCE

RPM (1/min) 0	20	40	60	80	100	200	300	400	500	750	1000	1500	2000	3000	4000	5000	8000
F _{p spec} (N/cm) 34	34	33	32	31	30	29	27	25	24	22	20	17	15	12	10	8	3

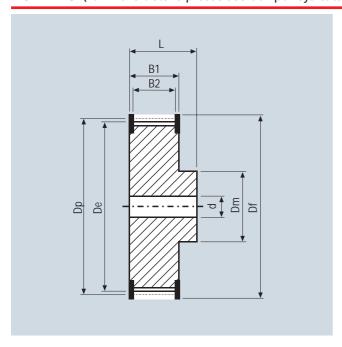
	Belt width (mm)	10	15	25	50						
Steel	Max Traction Load (N)	635	950	1715	3560						
	Breaking Strength (N)	2545	3815	6870	14255						
	Elongation at MTL (mm/m)	4	4	4	4						
Average values											



JOINED BELT INFORMATIONS

- Minimum splice length 900 mm
- Traction and tooth resistances = 50% less than open-end
- Joined belt can be used only in conveyor systems
- Rolls with NFT, NFB, AVAFC and APL can be joined too
- Minimum diameters according above table
- For coated belts, minimum diameters on page 86





N° Teeth	Dp	De	N° Teeth	Dp	De	
12	19,10	18,14	28	44,58	43,60	
14	22,29	21,32	30	47,77	46,79	
15	23,88	22,91	32	50,95	49,79	
16	25,47	24,50	36	57,32	56,34	
18	28,66	27,69	40	63,69	62,70	
20	31,84	30,87	44	70,06	69,07	
22	35,03	34,05	48	76,43	75,43	
24	38,21	37,24	60	95,54	94,53	
26	41,40	40,42	72	114,64	113,63	

MEGALINEAR STD8 OPEN-END

BELT CHARACTERISTICS

STANDARD WIDTHS (mm)	10	12	15	20	30	50	85
Weight (gr/m)	65	75	85	120	185	325	530

Standard compound: black Polyurethane thermoplastic 92 ShA

Standard back cover: none

Standard tooth cover: antistatic nylon fabric (NFT)

Standard cords: S and Z torsion zinked steel

Standard width tolerance: +/- 0,5 mm
Standard thickness: 5,1 +/- 0,25 mm
Standard length tolerance: +/- 0,8 mm/m

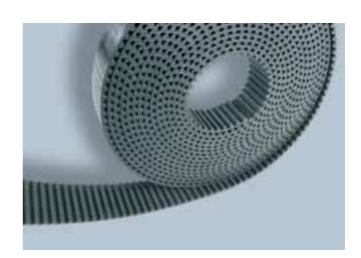
Standard roll length: 100 m

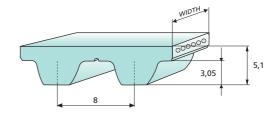
Belt options on request with minimum quantity:

Nylon fabric back AVAFC 60/70/85 ShA

APL Fishbone Ribbed Cleats

Different back coating materials see page 86

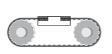


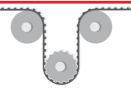


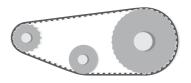
TOOTH RESISTANCE

RPM (1/min) 0	20	40	60	80	100	200	300	400	500	750	1000	1500	2000	3000	4000	5000	8000
F _{p spec} (N/cm) 64	62	58	56	54	51	48	46	44	42	38	35	31	27	23	20	17	-

	Belt width (mm)	10	12	15	20	30	50	85
HP = Standard	Max Traction Load (N)	1350	1575	2030	2930	4510	7670	14010
	Breaking Strength (N)	5415	6315	8120	11730	18050	30685	53245
	Elongation at MTL (mm/m)	5	5	5	5	5	5	5
Kevlar	Max Traction Load (N)	1110	1295	1665	2405	3705	6295	11505
	Breaking Strength (N)	4445	5185	6665	9630	14820	25190	43715
	Elongation at MTL (mm/m)	8	8	8	8	8	8	8
HF	Max Traction Load (N)	795	995	1295	1795	2790	4785	8715
	Breaking Strength (N)	3190	3990	5185	7180	11170	19150	33115
	Elongation at MTL (mm/m)	5	5	5	5	5	5	5
		Δι	verage values					







	Z min
HP = standard	20
Kevlar cords	20
High Flexibility cords	16

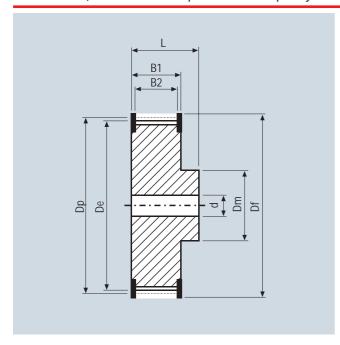
Z min	Idler min dia (mm)
24	100
24	100
24	60

Z min	Idler min dia (mm)
20	50
20	50
22	40

JOINED BELT INFORMATIONS

- Minimum splice length 900 mm
- Traction and tooth resistances = 50% less than open-end
- Joined belt can be used only in conveyor systems
- Rolls with NFT, NFB, AVAFC and APL can be joined too
- Minimum diameters according above table
- For coated belts, minimum diameters on page 86





N° Teeth	Dp	De
22	56,05	54,65
24	61,14	59,75
26	66,24	64,84
28	71,33	69,93
30	76,43	75,02
32	81,52	80,12
34	86,62	85,21
36	91,71	90,30
38	96,81	95,40
40	101,91	100,49
44	112,10	110,68

N° Teeth	Dp	De
48	122,29	120,86
56	142,67	141,23
64	163,05	161,60
72	183,43	181,98
80	203,82	202,35
90	229,29	227,81
112	285,35	283,84
144	366,87	365,32
168	428,02	426,44
192	489,17	487,55

MEGALINEAR HG OPEN-END

BELT CHARACTERISTICS

STANDARD WIDTHS (inch)	150	200	300	400
Weight (gr/m)	230	285	395	500

Standard compound: white Polyurethane

thermoplastic 92 ShA

Standard back cover: **none** Standard tooth cover: **none**

Standard cords: **S and Z torsion zinked steel**Standard width tolerance: **+/- 0,5 mm**Standard length tolerance: **+/- 0,8 mm/m**

Standard roll length: 100 m

Belt options on request with minimum quantity:

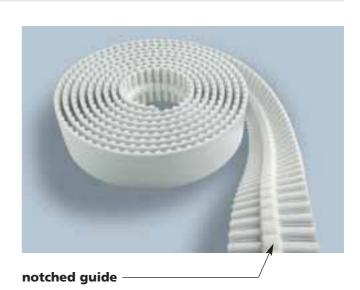
Nylon fabric back Nylon fabric teeth* Antistatic nylon fabric FDA compound

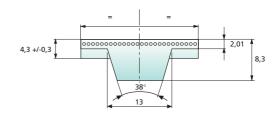
Cleats

Different back coating materials see page 86

*Nylon fabric teeth excluding guide (2 fabric strips on teeth only) is standard version.

Nylon fabric teeth including guide (fabric on complete width) is only on request.

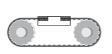


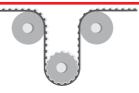


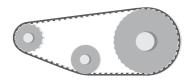
TOOTH RESISTANCE

RPM (1/min) 0	20	40	60	80	100	200	300	400	500	750	1000	1500	2000	3000	4000	5000	8000
F _{p spec} (N/cm) 44	43	42	41	40	39	36	34	33	31	29	27	24	22	19	17	16	12

	Belt width (inch)	150	200	300	400
Steel	Max Traction Load (N)	3490	4785	7665	11170
	Breaking Strength (N)	13965	19150	29125	39100
	Elongation at MTL (mm/m)	4	4	4	4
Kevlar	Max Traction Load (N)	3205	4360	7015	10260
	Breaking Strength (N)	12825	17440	26675	35910
	Elongation at MTL (mm/m)	8	8	8	8
			Average va	lues	







	Z min
Standard steel cords	20
Kevlar cords	20

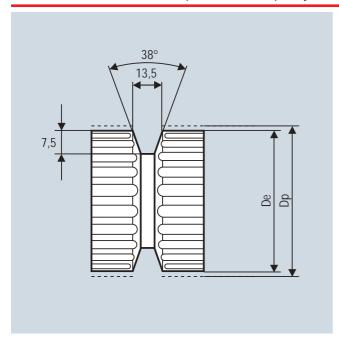
Z min	Idler min dia (mm)
22	160
22	160

Z min	Idler min dia (mm)
20	80
20	80

JOINED BELT INFORMATIONS

- Minimum splice length 900 mm
- Traction and tooth resistances = 50% less than open-end
- Joined belt can be used only in conveyor systems
- Rolls with NFT and NFB can be joined too
- Minimum diameters according above table
- For coated belts, minimum diameters on page 86





N° Teeth	Dp	De
20	80,85	79,48
22	88,94	87,57
24	97,02	95,65
26	105,11	103,74
28	113,19	111,82
30	121,28	119,91
32	129,36	127,99

N° Teeth	Dp	De
34	137,45	136,08
36	145,53	144,16
38	153,62	152,25
40	161,70	160,33
44	177,87	176,50
48	194,04	192,67
60	242,55	241,18

MEGALINEAR TG5 OPEN-END

BELT CHARACTERISTICS

STANDARD WIDTHS (mm)	25	32	50
Weight (gr/m)	70	85	120

Standard compound: white Polyurethane

thermoplastic 92 ShA

Standard back cover: **none** Standard tooth cover: **none**

Standard cords: **S and Z torsion zinked steel**Standard width tolerance: **+/- 0,5 mm**Standard length tolerance: **+/- 0,8 mm/m**

Standard roll length: 100 m

Belt options on request with minimum quantity:

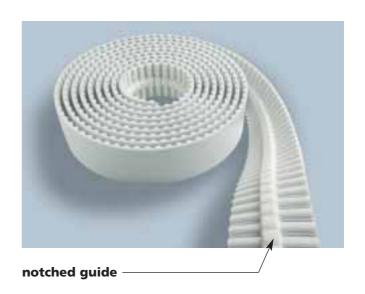
Nylon fabric back Nylon fabric teeth* Antistatic nylon fabric FDA compound

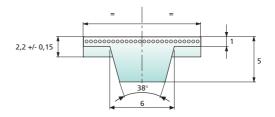
Cleats

Different back coating materials see page 86

*Nylon fabric teeth excluding guide (2 fabric strips on teeth only) is standard version.

Nylon fabric teeth including guide (fabric on complete width) is only on request.

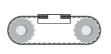


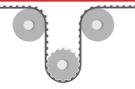


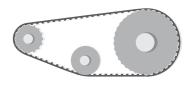
TOOTH RESISTANCE

RPM (1/min) 0	20	40	60	80	100	200	300	400	500	750	1000	1500	2000	3000	4000	5000	8000
F _{p spec} (N/cm) 24	23	23	22	22	22	20	19	19	18	17	16	15	14	12	11	11	9

	Belt width (mm)	25	32	50
Steel	Max Traction Load (N)	800	1005	1660
	Breaking Strength (N)	3205	4035	6650
	Elongation at MTL (mm/m)	4	4	4
Kevlar	Max Traction Load (N)	1795	2260	3720
	Breaking Strength (N)	7180	9040	14895
	Elongation at MTL (mm/m)	8	8	8
				Average values







	Z min
Standard steel cords	25
Kevlar cords	25

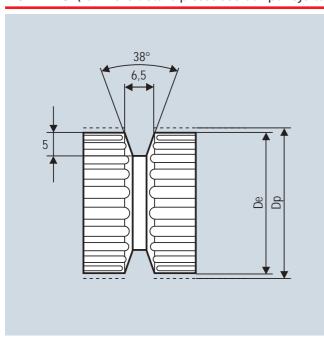
Z min	Idler min dia (mm)
28	80
28	80

Z min	Idler min dia (mm)
25	60
25	60

JOINED BELT INFORMATIONS

- Minimum splice length 900 mm
- Traction and tooth resistances = 50% less than open-end
- Joined belt can be used only in conveyor systems
- Rolls with NFT and NFB can be joined too
- Minimum diameters according above table
- For coated belts, minimum diameters on page 86





N° Teeth	Dp	De
25	39,79	38,96
27	42,97	42,14
30	47,75	46,92
32	50,93	50,10

N° Teeth	Dp	De
36	57,30	56,47
40	63,66	62,93
48	76,39	75,57
60	95,49	94,67

MEGALINEAR TG10 OPEN-END

BELT CHARACTERISTICS

STANDARD WIDTHS (mm)	25TG10 к13	32TG10 к13	50TG10 к13	75ТG10 к13	100ТG10 к13	50ТG10 к6
Weight (gr/m)	190	250	290	390	495	240

Standard compound: white Polyurethane

thermoplastic 92 ShA

Standard back cover: **none** Standard tooth cover: **none**

Standard cords: **S and Z torsion zinked steel**

Standard width tolerance: +/- 0,5 mm Standard length tolerance: +/- 0,8 mm/m

Standard roll length: 100 m

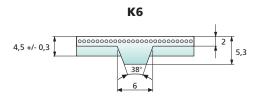
Belt options on request with minimum quantity:

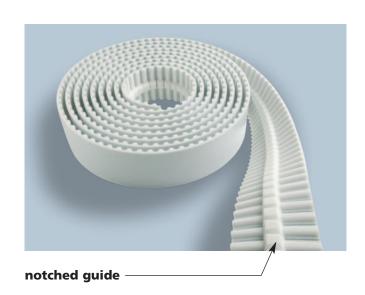
Nylon fabric back Nylon fabric teeth* Antistatic nylon fabric FDA compound AVAFC 60/70/85 ShA

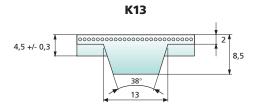
Cleats

Different back coating materials see page 86

*Nylon fabric teeth excluding guide (2 fabric strips on teeth only) is standard version. Nylon fabric teeth including guide (fabric on complete width) is only on request.



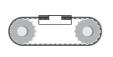


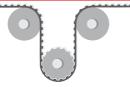


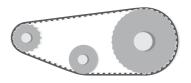
TOOTH RESISTANCE

ı	RPM (1/min)	0	20	40	60	80	100	200	300	400	500	750	1000	1500	2000	3000	4000	5000	8000
	Fn spec (N/cm)	51	49	48	47	46	45	41	39	37	36	33	31	28	25	22	20	18	14

	Belt width (mm)	25ТG10 к13	32ТG10 к13	50ТG10 к13	75ТG10 к13	100TG10 _{K13}	50ТG10 к6
Steel	Max Traction Load (N)	2290	2890	4785	7665	10290	4785
	Breaking Strength (N)	9175	11570	19150	29125	39100	19150
	Elongation at MTL (mm/m)	4	4	4	4	4	4
Kevlar	Max Traction Load (N)	2050	2565	4360	7020	9450	4360
	Breaking Strength (N)	8205	10260	17440	26675	35910	17440
	Elongation at MTL (mm/m)	8	8	8	8	8	8
Stainless	Max Traction Load (N)	1855	2340	3875	-	-	3875
	Breaking Strength (N)	7425	9365	15500	-	-	15500
	Elongation at MTL (mm/m)	3,8	3,8	3,8	-	-	3,8
			Average valu	ies			







	Z min
Standard steel cords	25
Kevlar cords	25
Stainless steel cords	31

Z min	Idler min dia (mm)
28	80
28	80
34	90

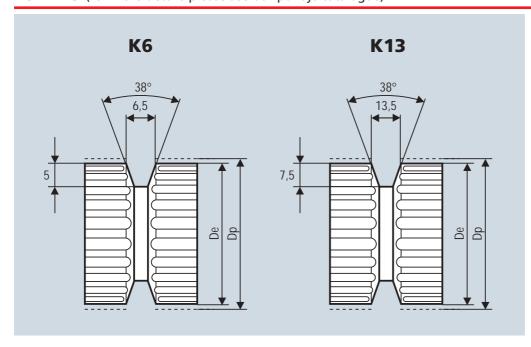
Z min	Idler min dia (mm)
25	80
25	80
31	90

Valid for **K6** and **K13**.

JOINED BELT INFORMATIONS

- Minimum splice length 900 mm
- Traction and tooth resistances = 50% less than open-end
- Joined belt can be used only in conveyor systems
- Rolls with NFT, NFB and AVAFC can be joined too
- Minimum diameters according above table
- For coated belts, minimum diameters on page 86





N° Teeth	Dp	De
25	79,58	77,73
27	85,94	84,10
30	95,49	93,65
32	101,86	100,01
36	114,59	112,74
40	127,32	125,48
48	152,79	150,94
60	190,99	189,14

MEGALINEAR TG20 OPEN-END

BELT CHARACTERISTICS

STANDARD WIDTHS (mm)	50	75	100
Weight (gr/m)	375	590	770

Standard compound: white Polyurethane

thermoplastic 92 ShA

Standard back cover: **none** Standard tooth cover: **none**

Standard cords: S and Z torsion zinked steel

Standard width tolerance: +/- 1 mm Standard length tolerance: +/- 0,8 mm/m

Standard roll length: 100 m

Belt options on request with minimum quantity:

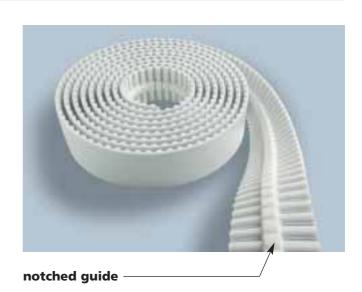
Nylon fabric back Nylon fabric teeth* Antistatic nylon fabric FDA compound

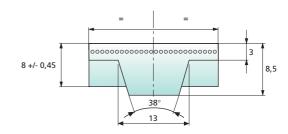
Cleats

Different back coating materials see page 86

*Nylon fabric teeth excluding guide (2 fabric strips on teeth only) is standard version.

Nylon fabric teeth including guide (fabric on complete width) is only on request.



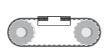


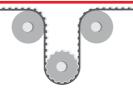
TOOTH RESISTANCE

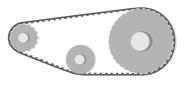
RPM (1/min) 0	20	40	60	80	100	200	300	400	500	750	1000	1500	2000	3000	4000	5000	8000
F _{p spec} (N/cm) 102	98	95	93	91	89	81	76	72	68	62	57	50	45	38	33	29	-

	Belt width (mm)	50	75	100
Steel	Max Traction Load (N)	7670	12350	16625
	Breaking Strength (N)	30685	46930	63175
	Elongation at MTL (mm/m)	4	4	4
Kevlar	Max Traction Load (N)	9135	14800	19975
	Breaking Strength (N)	36555	56240	75920
	Elongation at MTL (mm/m)	8	8	8
				Average value

FLEXION RESISTANCE







	Z min
Standard steel cords	30
Kevlar cords	30

Z min	Idler min dia (mm)
33	140
33	140

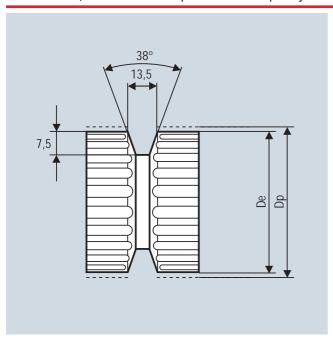
Z min	Idler min dia (mm)
30	120
30	120

JOINED BELT INFORMATIONS

- Minimum splice length 900 mm
- Traction and tooth resistances = 50% less than open-end
- Joined belt can be used only in conveyor systems
- Rolls with NFT and NFB can be joined too
- Minimum diameters according above table
- For coated belts, minimum diameters on page 86



PULLEYS (for more details please see our pulleys catalogue)



N° Teeth	Dp	De
30	190,99	188,13
32	203,72	200,86
36	229,18	226,33

N° Teeth	Dp	De
40	254,65	251,80
48	305,58	302,73
60	381,97	379,12

MEGALINEAR ATG10 OPEN-END

BELT CHARACTERISTICS

STANDARD WIDTHS (mm)	25	32	50	75	100	150
Weight (gr/m)	180	230	330	465	620	930

Standard compound: white Polyurethane thermoplastic 92 ShA

Standard back cover: **none** Standard tooth cover: **none**

Standard cords: **S and Z torsion zinked steel**

Standard width tolerance: +/- 0,5 mm
Standard length tolerance: +/- 0,8 mm/m

Standard roll length: 100 m

Belt options on request with minimum quantity:

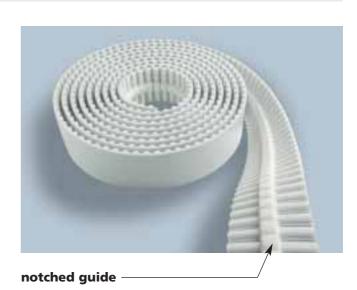
Nylon fabric back Nylon fabric teeth* Antistatic nylon fabric FDA compound AVAFC 60/70/85 ShA

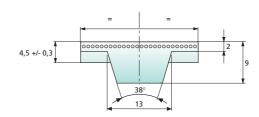
Cleats

Different back coating materials see page 86

*Nylon fabric teeth excluding guide (2 fabric strips on teeth only) is standard version.

Nylon fabric teeth including guide (fabric on complete width) is only on request.





TOOTH RESISTANCE

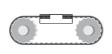
RPM (1/min) 0	20	40	60	80	100	200	300	400	500	750	1000	1500	2000	3000	4000	5000	8000
F _{p spec} (N/cm) 74	72	71	71	70	69	65	62	60	58	53	50	44	40	35	30	27	20

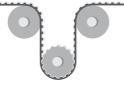
TRACTION RESISTANCE

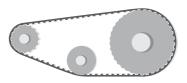
	Belt width (mm)	25	32	50	75	100	150
Steel	Max Traction Load (N)	3610	4510	7670	12350	16625	26815
	Breaking Strength (N)	14440	18050	30685	46930	63175	93860
	Elongation at MTL (mm/m)	4	4	4	4	4	4
Kevlar	Max Traction Load (N)	4215	5620	9135	14800	19980	32940
	Breaking Strength (N)	16870	22495	36555	56240	75920	115290
	Elongation at MTL (mm/m)	8	8	8	8	8	8
HP	Max Traction Load (N)	4930	6570	10680	17300	23350	38500
	Breaking Strength (N)	19720	26295	42730	65740	88745	134765
	Elongation at MTL (mm/m)	5	5	5	5	5	5
Stainless	Max Traction Load (N)	2865	3585	6095	-	-	-
	Breaking Strength (N)	11475	14345	24385	-	-	-
	Elongation at MTL (mm/m)	3,8	3,8	3,8	-	-	-

Average values

FLEXION RESISTANCE







	Z min
Standard steel cords	25
Kevlar cords	25
High Power cords	40
Stainless steel cords	31

Z min	Idler min dia (mm)
28	120
28	120
40	160
34	130

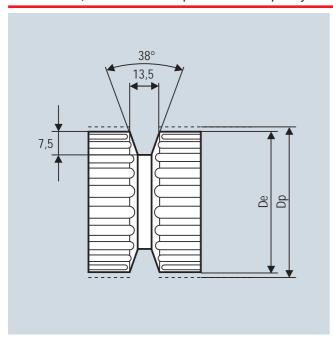
Z min	Idler min dia (mm)
25	100
25	100
40	120
31	130

JOINED BELT INFORMATIONS

- Minimum splice length 900 mm
- Traction and tooth resistances = 50% less than open-end
- Joined belt can be used only in conveyor systems
- Rolls with NFT, NFB and AVAFC can be joined too
- Minimum diameters according above table
- For coated belts, minimum diameters on page 86



PULLEYS (for more details please see our pulleys catalogue)



N° Teeth	Dp	De
25	79,58	77,73
27	85,94	84,10
30	95,49	93,65
32	101,86	100,01

N° Teeth	Dp	De
36	114,59	112,74
40	127,32	125,48
48	152,79	150,94
60	190,99	189,14

MEGALINEAR ATG20 OPEN-END

BELT CHARACTERISTICS

STAND	NDARD WIDTHS (mm)	75	150
Weigh	ght (gr/m)	795	1500

Standard compound: white Polyurethane

thermoplastic 92 ShA

Standard back cover: **none** Standard tooth cover: **none**

Standard cords: S and Z torsion zinked steel

Standard width tolerance: +/- 1 mm Standard length tolerance: +/- 0,8 mm/m

Standard roll length: 100 m

Belt options on request with minimum quantity:

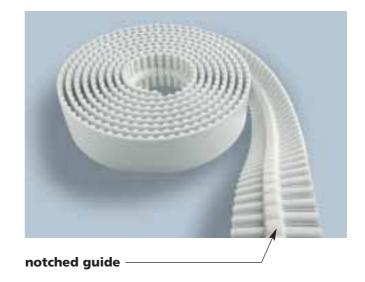
Nylon fabric back Nylon fabric teeth* Antistatic nylon fabric FDA compound AVAFC 60/70/85 ShA

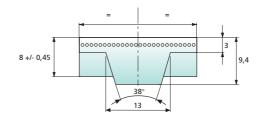
Cleats

Different back coating materials see page 86

*Nylon fabric teeth excluding guide (2 fabric strips on teeth only) is standard version.

Nylon fabric teeth including guide (fabric on complete width) is only on request.





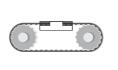
TOOTH RESISTANCE

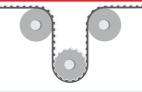
RPM (1/min) 0	20	40	60	80	100	200	300	400	500	750	1000	1500	2000	3000	4000	5000	8000
F _{p spec} (N/cm) 147	144	142	139	137	135	126	119	112	107	97	88	76	67	58	43	35	-

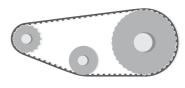
TRACTION RESISTANCE

	Belt width (mm)	75	150
Steel	Max Traction Load (N)	17300	38500
	Breaking Strength (N)	65740	134765
	Elongation at MTL (mm/m)	4	4

FLEXION RESISTANCE







	Z min
Standard steel cords	30

Z min	Idler min dia (mm)
33	180

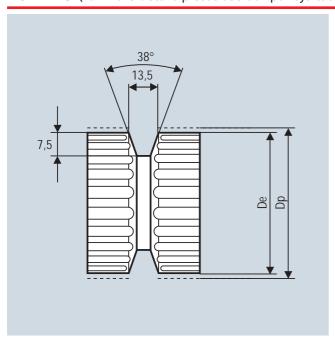
Z min	Idler min dia (mm)
30	160

JOINED BELT INFORMATIONS

- Minimum splice length 900 mm
- Traction and tooth resistances = 50% less than open-end
- Joined belt can be used only in conveyor systems
- Rolls with NFT, NFB and AVAFC can be joined too
- Minimum diameters according above table
- For coated belts, minimum diameters on page 86



PULLEYS (for more details please see our pulleys catalogue)

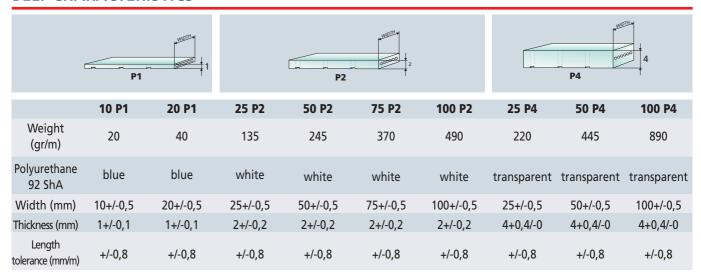


N° Teeth	Dp	De
30	190,99	188,13
32	203,72	200,86
36	229,18	226,33

N° Teeth	Dp	De	
40	254,65	251,80	
48	305,58	302,73	
60	381,97	379,12	

MEGALINEAR FLAT OPEN-END

BELT CHARACTERISTICS



Standard back cover: **none** Standard tooth cover: **none**

Standard cords: S and Z torsion zinked steel

Standard roll length: 100 m

Belt options on request with minimum quantity:

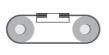
Nylon fabric back Nylon fabric teeth Antistatic nylon fabric

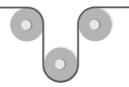


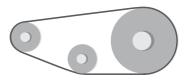
TRACTION RESISTANCE

	Belt width (mm)	10 P1	20 P1	25 P2	50 P2	75 P2	100 P2	25 P4	50 P4	100 P4
Steel	Max Traction Load (N)	465	930	3380	7445	11875	16150	7600	15200	32000
	Breaking Strength (N)	1865	3735	13535	29780	45125	61370	30400	60800	121600
	Elongation at MTL (mm/m)	4	4	4	4	4	4	4	4	4
HP	Max Traction Load (N)	-	-	4930	10680	17300	23355	-	-	-
	Breaking Strength (N)	-	-	19720	42730	65740	88745	-	-	-
	Elongation at MTL (mm/m)	-	-	5	5	5	5	-	-	-
				Average val	ues					

FLEXION RESISTANCE







	Driver pulley min dia (mm)
Standard steel cords P1	16
Standard steel cords P2	45
Standard steel cords P4	100
High Power cords P2	56

Driver pulley min dia (mm)	Idler min dia (mm)
25	30
50	90
110	150
62	150

Driver pulley min dia (mm)	Idler min dia (mm)
16	30
45	50
100	100
56	80

JOINED BELT INFORMATIONS

- Minimum splice length 900 mm
- Traction and tooth resistances = 50% less than open-end
- Joined belt can be used only in conveyor systems
- Minimum and stardard width are according previous list
- Rolls with NFT and NFB can be joined too
- Minimum diameters according above table
- For coated belts, minimum diameters on page 86



FIXING PLATES

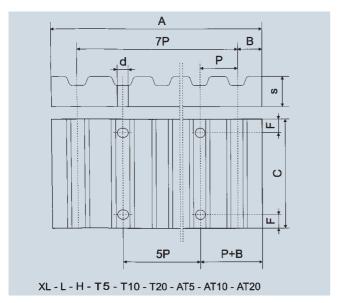
The fixing plates are used to fix the tail of the open belts.

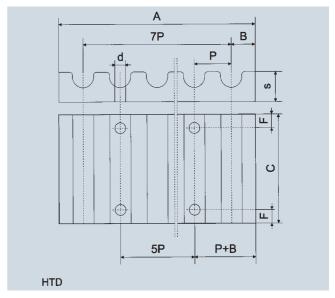
On the customer's request, the plates can be delivered with or without fixing holes.

As the belt can't be stretched with the fixing plates we suggest to use other tension system.

The plates are delivered in aluminium alloy.

The Megadyne Technical Staff is ready to study special or particular applications.





Order code example: AT10 pitch clamping plate for 25 mm width belt

	Clamping plates for imperial pitch belts														
	Belt width (inches)														
Ξ	Pitch	F	d	В	Α	S	025	037	050	075	100	150	200	300	400
uminium											C				
E	• XL	6	5,5	3,5	42,5	8	25,5	28,5	32	38	45				
A	• L	8	9	5	76,5	15		36	39	45	51,5	64	77		
	• H	10	11	9	106,9	22			45	51	57,5	70	83	108	134

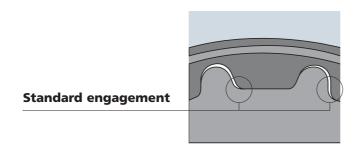
	Clamping plates for HTD pitch belts																		
	Belt width (mm)																		
Ε	Pitch	F	d	В	Α	S	6	9	10	15	20	25	30	40	50	55	85	115	170
uminium													C						
E	• 5M	6	5,5	3,25	41,5	8	25	28		34		44							
Ā	• 8M	8	9	5	66	15			35	40	45		55		75		110		
	• 14M	10	11	9	116	22						56		71		86	116	146	201

	Clamping plates for metric pitch belts														
		Belt width (mm)													
	Pitch	F	d	В	Α	S	6	10	16	20	25	32	50	75	100
_											C				
Aluminium	• T5	6	5,5	3,25	41,65	8	25	29	35	39	44	51	69		
E i	• AT5	U	5,5	3,23	71,05	O	23	23	33	33		31	05		
A	• T10	8	9	5	80	15		35	41		50	57	75	100	125
	• AT10	· ·	,	,	00	15		33	71		30	31	7.5	100	123
	• T20	10	11	10	160	20					56	63	81	106	132
	• AT20	10	" "	10	100	20					50	03	01	100	132

POSITIONING AND TRANSMISSION PRECISION

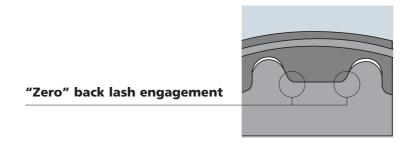
MEGALINEAR

Engagement between teeth and pulley tooth space is important for positioning precision and transmission synchronism.



It is possible to use pulley with "zero" back lash to reduce positioning mistakes, in such case belt and pulley tooth edges are in touch cancelling lash between these two elements. In any case, in application with high loads, a certain lash will always occur due to belt tooth deformation.

Transmission with "zero" back lash has always to be widely oversized to contrast belt elongation on free tensioned span.

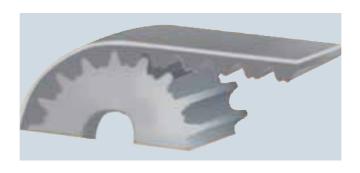


In following table you can find list of available "zero" back lash pulleys and average value for back lash:

Available pitch for "zero" back lash pull	ey T5	T10	T20	AT5	AT10	AT20
Average back lash value for standard	+/-0.3	+/-0.6	+/-1.2	+/-0.1	+/-0.2	+/-0.4

All not-mentioned pitches are not available in "zero" back lash version.

RPP belts and pulleys in standard version offer a great solution for positioning system because their parabolic profile reduces interference and improves meshing characteristics.



CLEATS

Megadyne timing belts can be customised with profiles vulcanised on the backside. All the cleats are made using the same thermoplastic polyurethane as the MEGALINEAR body (white PU 92 ShA).

The profiles are attached with the best technology now available, the High Vibration System.

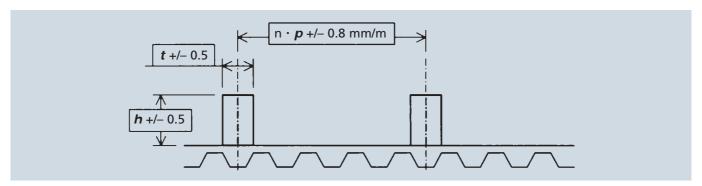
The production process for these profiles is very flexible; Megadyne can design any profile to meet the specific requirement of the customer, in order to check and develop all the needed special profiles.

STANDARD PARALLELEPIPED PROFILES

Megadyne can produce, as standard cleats, the parallelepiped profiles, starting from a thermoplastic polyurethane strip roll and cutting until the requested profile dimension.

The t value (thickness) is available from 2 until 13 mm, the h value (height) can be from 3 until 120 mm and the width can be 150 mm maximum.

Megadyne recommend that the profile spacing were multiple of the belt pitch; in any case, for special inquiries and small quantities, it is possible to weld the profiles also in others positions; the feasible dimensions, with the standard process tolerances, are introduced in the following sketch.



The tolerances on the position are \pm 0.5 mm.

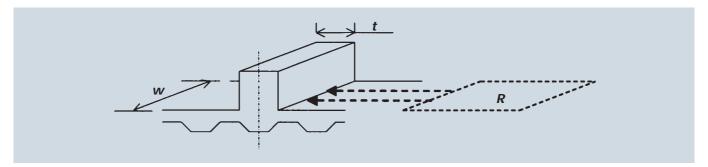
The cumulative tolerance on the spacing of the profiles is the same of the length tolerance for our standard belts (+/– 0.8 mm/m) (tighter tolerances are available on request).

Due to the welding process, a bead of material develops at the meeting point of profile and belt. In any case, Megadyne always remove this welding bead.

PROFILE MECHANICAL RESISTANCE

In order to find the right cleat dimensions, please consider the following factors:

- Section base cleats resistance (R) becomes bigger, increasing:
 - cleats width (w)
 - cleats thickness (t)



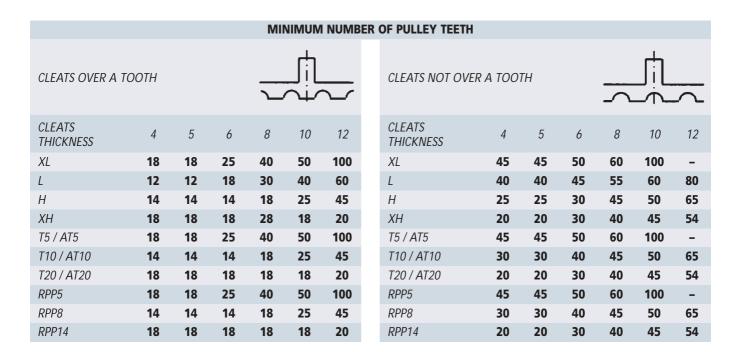
- Cleat stiffness is bigger:
 - increasing cleat thickness (t)
 - using special moulded profiles, like STDE0006, STDE0008, STDE0010 and STMI0012 types

MIN. N° OF PULLEY TEETH FOR BELTS WITH PROFILES

The profiles presence can change the belt flexibility properties; the two factors that affect the original flexibility are the following:

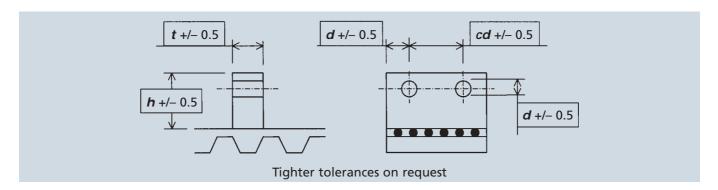
- thickness of the cleat "foot" (size of the base). Flexibility decreases when welded area dimensions increase
- position of the welded profile on the belt. When the cleats are welded in axis with the teeth, belt flexibilty is better than when cleats are welded in axis with the little nose.

Please find, in the following table, flexibility properties for the cleated belts.



STANDARD PARALLELEPIPED PROFILES WITH HOLES

Parallelepided profiles are available also with holes, to satisfy specials applications; please find below the standard tolerances for this kind of cleats.



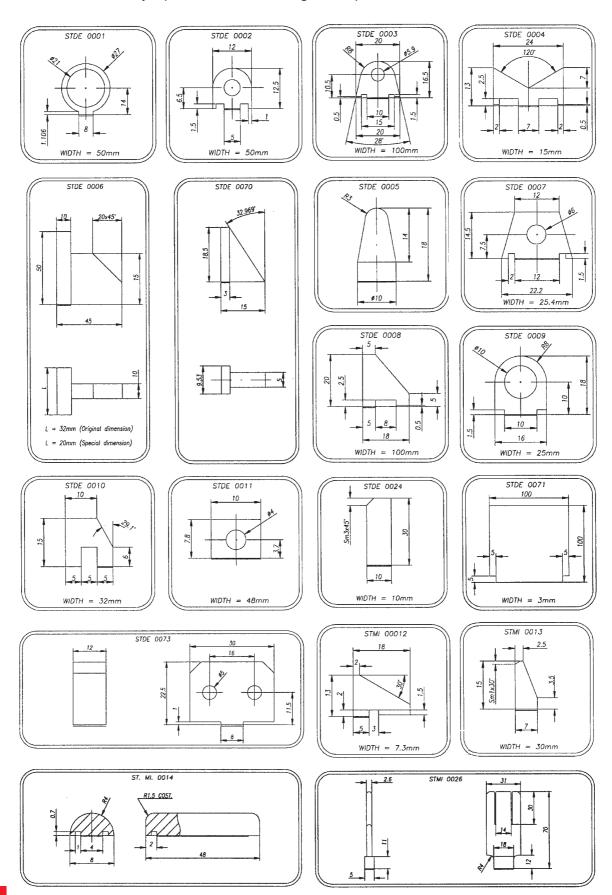
For belt flexibilty and mechanical resistance, please kinldy refer to values for cleats without holes.

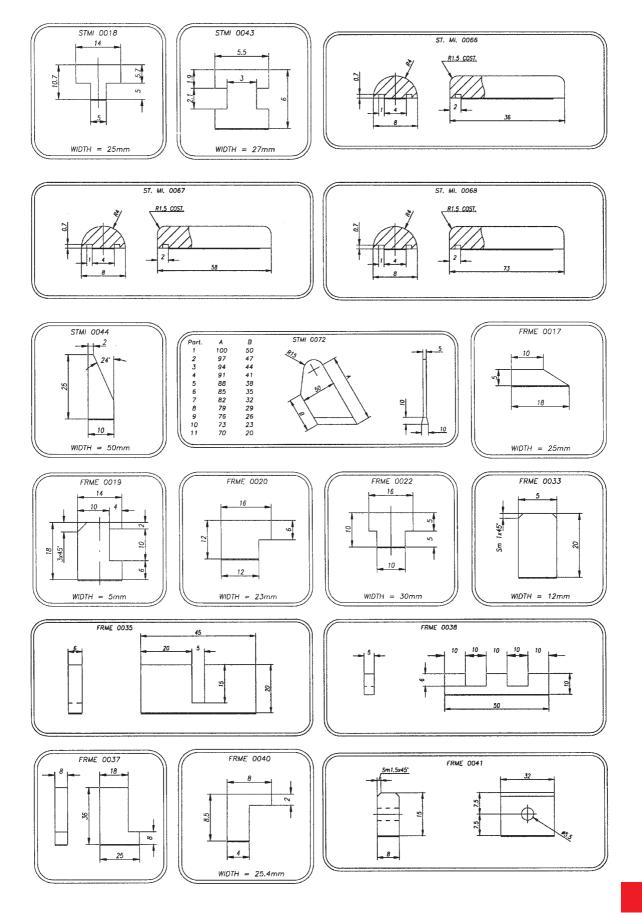
MOULDED CLEATS

Using an high performance injection system, Megadyne can produce any profile designed by the customer. For cleats not yet present in following pages, Megadyne can produce dedicated mould according customer requirements. For belt flexibility and mechanical resistance, please kinldy refer to standard parallelepiped profiles section.

SPECIAL CLEATS DRAWING LIST

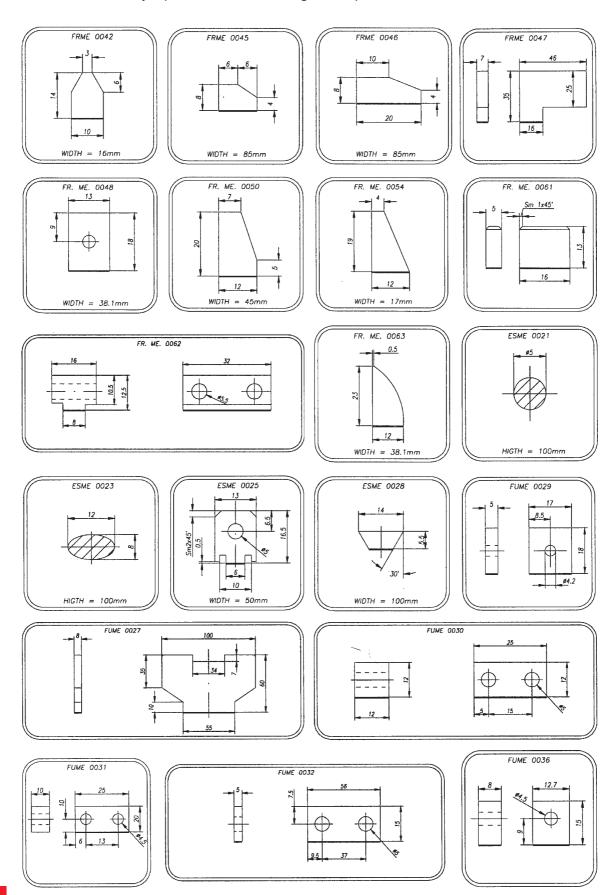
If the needed cleat wouldn't yet present in the following tables, please contact MEGADYNE staff.

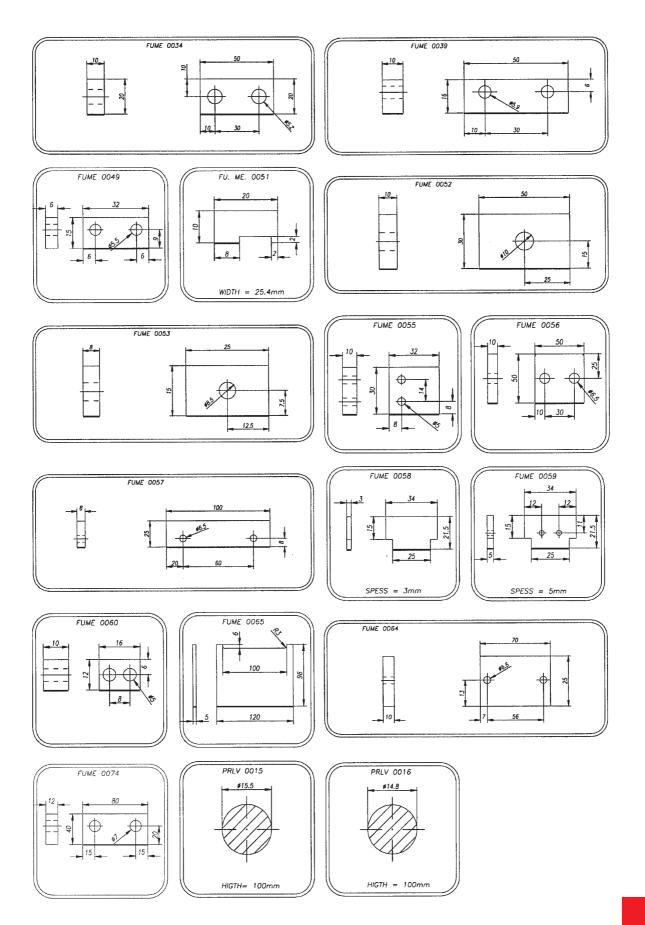




SPECIAL CLEATS DRAWING LIST

If the needed cleat wouldn't yet present in the following tables, please contact MEGADYNE staff.





COVER PROPERTIES

Megalinear belt can be coated with several materials. Those coatings are able to suit Megalinear belts to all applications. Main advantages for using coated belts are: reducing noise and modifing friction in conveying materials. Choice of correct coating depends on application field.

Megadyne is able to supply extruded coated belt, in this case coating method is same as belt production method and coehesion between belt and cover is guaranteed by welding without using glue.

Properties of extruded coating are followings:

					Cover type				
	NFB nylon fabric back	NFT nylon fabric teeth	AVAFC 60	AVAFC 70	AVAFC 85	Foamed polyurethane	APL	Fishbone	Ribbed
Raw material	nylon	nylon	polyurethane	polyurethane	polyurethane	foamed polyurethane	polyurethane/ PVC	polyurethane	polyurethane
Hardness (ShA)	-	-	60	70	85	50	55	70	70
Colour	green	green	transparent	transparent	transparent	yellow/grey	red	transparent	transparent
Coating and belt cohesion method	by extrusion	by extrusion	by extrusion	by extrusion	by extrusion	by spray	by extrusion	by extrusion	by extrusion
Thickness range (mm)	-	-	2/3/4	2/3/4	2/3/4	0,5 till 8	3,5	4,3	2,7
Tolerance on coating thickness	-	-	+ /- 0,3	+/- 0,3	+/- 0,3	+/- 0,3	+/- 0,3	+/- 0,5	+/- 0,5
Working temperature range (°C)	-20 +80	-20 +80	-20 +80	-20 +80	-20 +80	-20 +60	-20 +60	-20 +80	-20 +80
Friction coefficient (1)	0,25	0,25	0,65	0,65	0,6	0,4	0,7	0,6	0,6
Water resistance	good	good	very good	very good	very good	good	good	very good	very good
Abrasion resistance	intermediate	intermediate	very good	very good	very good	very good	good	very good	very good
Oil resistance	intermediate	intermediate	very good	very good	very good	very good	good	very good	very good
FDA approved	no	no	no	no	no	no	no	no	no
Min. pulley dia = thickness •	std pulley	std pulley	x 40	x 40	x 40	x 25	x 30	x 30	x 35
(1) Static average values for steel guides.	-	100	1						

Megalinear belt can be supplied also with vulcanised or glued cover. Their technical properties are listed in following table:

					Cove	r type				
	Porol mousse	Linatex	Tenax 40	Tenax Standard	White Rubber for food industry		Gummy Correx ambra parablond	NBR	Hypalon	Honeycomb
Raw material	open cell neoprene rubber	natural rubber	natural rubber	natural rubber	synthetic rubber	synthetic rubber	natural rubber	nitrilic rubber	rubber	natural rubber
Hardness (ShA)	10	42	40	45	70	70	48	70	60	45
Colour	black	red	red	red	white	gray/black	light brown	white	white	red
Coating and belt cohesion method	by gluing	by gluing	by vulcanization	by vulcanization	by vulcanization	by vulcanization	by vulcanization	by vulcanization	by vulcanization	by gluing
Thickness range (mm)	2 till 15	0,8 till 15	0,8 till 15	0,8 till 15	0,8 till 15	0,8 till 15	0,8 till 15	0,8 till 15	0,8 till 15	4,5
Tolerance on coating thickness	+/- 0,3	+/- 0,3	+/- 0,3	+/- 0,3	+/- 0,3	+/- 0,3	+/- 0,3	+/- 0,3	+/- 0,3	+/- 0,5
Working temperature range (°C)	-10 +60	-20 +50	-20 +60	-20 +60	0 +120	-10 +100	-20 +60	0 +120	0 +160	-20 +60
Friction coefficient (1)	0,7	0,75	0,75	0,7	0,65	0,6	0,6	0,6	0,6	0,6
Water resistance	good	very good	very good	very good	good	very good	very good	good	good	very good
Abrasion resistance	intermediate	very good	very good	very good	intermediate	good	very good	intermediate	intermediate	very good
Oil resistance	intermediate	low	low	low	good	good	low	good	good	low
FDA approved	no	no	no	no	no	no	no	no	no	no
Min. pulley dia = thickness •	x 25	x 30	x 30	x 30	x 35	x 35	x 30	x 35	x 35	x 30
(1) Static average values for steel guides.						1	-			

SPECIAL EXECUTION FEASIBILITY

Megadyne can make special extrusion on customer request to improve belt properties and to suit better to special applications.

SPECIAL POLYURETHANE

On customer request and with minimum quantity, Megalinear belt can be produced with different hardness:

- 85 ShA food quality polyurethane for contact with food and medical products
- 92 ShA higher resistance to temperature
- 92 ShA silicon free for painting system based on water
- 95 ShA glass reinforced
- 98 ShA extra hard polyurethane

COLOUR

On customer request and with a minimum quantity is possible to produce megalinear with several colours.

Different colour doesn't influence belt technical properties so mechanical features are same as standard white belt.

Available colours are: • White • Black • Blue • Yellow • Transparent

SPECIAL EXTRUSION

On customer request, Megadyne R&D department can develop special extruded belts by designing special mould. It is also possible to extrude standard belt with special cords position, ready for successive reworkings.

MECHANICAL REWORK

Megadyne have been producing specialized belting for many years. Our in-house facilities enable us to produce belt with special holes for vacuum conveyors, belts with special backings / ground finishes for high tolerance applications. We can remove individual teeth and perforate the timing belt as required.

BACK GRINDING

A belt back can be ground to achieve a precise belt thickness as an adjunct to precision drives. When belt back grinding to a tolerance is required, the total thickness, including the tooth, must be specified. A grinding tolerance of +/- 0.2 mm is achievable with a level finish (i.e. thickness will not vary greatly around the belt). Most widths and lengths are available.

LONGITUDINAL REWORK

Longitudinal rework along the belt back is possible on covered and uncovered belts. The profile can be machined precisely for required function. The measurement is given as the depth on the belt back. Most widths and lenghts are available.

REWORK ON BELT TEETH

The rework of the tooth profile can be very useful, i.e. improving the steering effect with guide rails. The rework dimension is given from the top of the tooth. Most belt widths and lengths are available.

HOLES IN TIMING BELTS

Holes in timing belts can be for vacuum or air film conveying or as clearance for assembly mechanisms. Stops and cams can be attached through the holes. Customized tooling may be required depending on the layout and dimensions of holes required.

SINGLE TOOTH REMOVAL

Single and multiple tooth removal is available to your requirement, for applications in handling and conveying technology.

ANTISTATIC POLYURETHANE TIMING BELTS

MEGALINEAR

Megadyne now offers antistatic belts. Under certain conditions, a polyurethane belt may build-up a significant static electric charge. For applications where belts are intended for operation in a potentially explosive atmosphere or near electrical components, polyurethane belts should be sufficiently conductive to dissipate this electrical charge. Belts can be constructed (using proper nylon fabric coating) with a relatively low electrical resistance characteristic and are typically referred to as "static conductive" surface or "antistatic" surface. The test methods for determining the surface resistive properties of a belt are based on ISO 9563, "Belt Drives - Electrical Conductivity of Antistatic Endless Synchronous Belts - Characteristics and Test Method". The electrical resistance, in ohms, can be found using the test methods in ISO 9563 and the following equation:



Resistance =
$$\Omega = \frac{(6 \cdot 10^5) \cdot L}{W}$$

where: L = is dry distance between electrodes (inches)

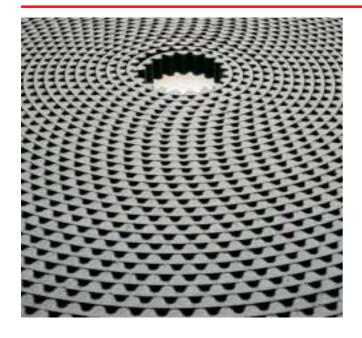
W = is the width of the belt (inches)

Test Voltage = 100 V

Based on this calculation and experimental results, belts can be categorized according to the following table:

	Antistatic (Conductor)	Electric Dissipative	Resistive (Insulator)
Belt Resistivity Range (Ω)	< 6 · 10 ⁵	$6 \cdot 10^5 < \Omega < 1 \cdot 10^5$	> 1 · 10 ⁵

TYPICAL APPLICATIONS

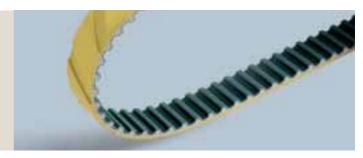


- Conveyance of PC boards or other electronic assemblies
- Semiconductor processing
- Conveying munitions of explosive detonators
- Paper conveying
- Power transmission applications in textile industries
- Chemical environment power transmission or convenying
- Clean room conveyors and power transmissions

SPECIAL EXECUTION PHOTOS

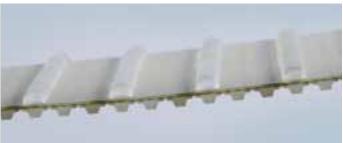
Glass industry

Coating and special grinding on the back allow Megadyne belt to be suitable to all customer applications



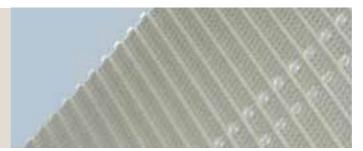
Tobacco industry

Belt with special cleats for tobacco industry



Nappy industry

Wide extruded belt for nappy industry



Packaging industry

Special reworking to install custom made elements





Automotive industry

Belt suitable to convey steel coils and plates due to guides on the back



Paper industry

Special extruded belt for vacuum conveyor application in paper industry



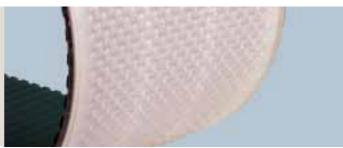
Carton industry

New extruded belt for vacuum application in carton conveyor industry



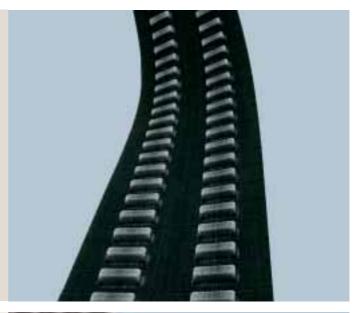
Conveyor application

Special coating for conveyor application



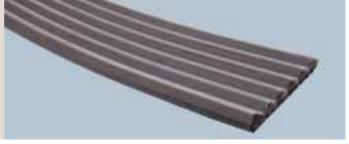
Automotive industry

Due to its antistatic properties, belt suitable for steel plate conveyor in car industry



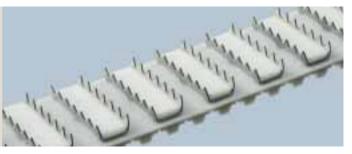
Lift industry

Patented belt designed on customer requirement for an innovative lift system



Fish industry

High variety of cleats allow Megalinear belts to work in several fields



BELT CALCULATION PROGRAM

New Calculation program allows you to design your drive choosing correct polyurethane or rubber belt suitable for your application.



All information was compiled with utmost care according current knowledge. We wish to stress that the technical data is subject to tolerances and not intended to be understood as a delivery specification. We further emphasise the fact that the section "Belt data" and their application implies development risks. No claims can be derived from possible errors or false application interpretation.

NOTES

NOTES

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