



COBALT
a CROMANT chain company

PRIMARY CATALOG



Exceptional Performance, Superior Results

MISSION

Our mission is to exceed YOUR expectations.

With continuous improvement, innovative thinking and time-honored values, we will deliver quality, reliability and superior performance... at a competitive price. With our employees, partners and products, we will be meeting and exceeding your expectations in the Power Transmission and Conveying industries.

**IsoTec
Alliance, LLC**



CERTIFICATE OF REGISTRATION

Cobalt Chains Inc.

200 Catherine St. Unit 7B
East Peoria, IL 61611
USA

Has implemented and maintains a Quality Management System
that meets the requirements of ISO 9001: 2015.

The scope of registration includes:

The manufacture of industrial chains and other products for industry.

Through an accredited audit process, it was verified that the management system
fulfills the requirements of the following standard:

ISO 9001 : 2015

Certificate registration no.	2020 - 578
Date of Certification	2020 - 12 - 14
Valid Until	2023 - 12 - 14

Thomas Richardson
President



IsoTec Alliance, LLC
2643 Ellington Street, Concord, NC 28027



Cobalt Chains: YOUR source for premium chains and components for any industry.

Since 2004, Cobalt Chains has been your source for industrial chains, including engineered steel, forged link, welded steel, roller, transport chains and more. Centrally located in East Peoria, Illinois, Cobalt Chains has excelled through the constant development of new markets and new product lines to emerge as a true worldwide supplier of premium conveyor and power transmission chains.

Serving the industries of agriculture, bulk material handling, construction, food processing, lumber, plastics and chemical, power generation, pulp and paper, manufacturing, mining and steel, Cobalt Chains offers in-house fabrication of chain, chain attachments and sprockets to create custom solutions to meet almost any application. As an ISO 9001:2015 certified company, Cobalt Chains inspects and quality controls each chain and sprocket.

Cobalt Chains is dedicated to our position as a world-leader in the conveying industry.

Christopher J. Robinson
President

Jonathan King
Partner



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Exceptional Performance, Superior Results

Telephone: 309-698-9250



ISO
9001:2015

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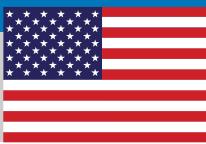


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Exceptional Performance, Superior Results

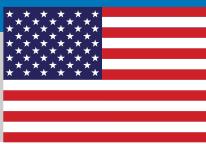


Forged Chains & Sprockets

Telephone: 309-698-9250



COBALT
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Exceptional Performance, Superior Results

FORGED CHAINS & SPROCKETS

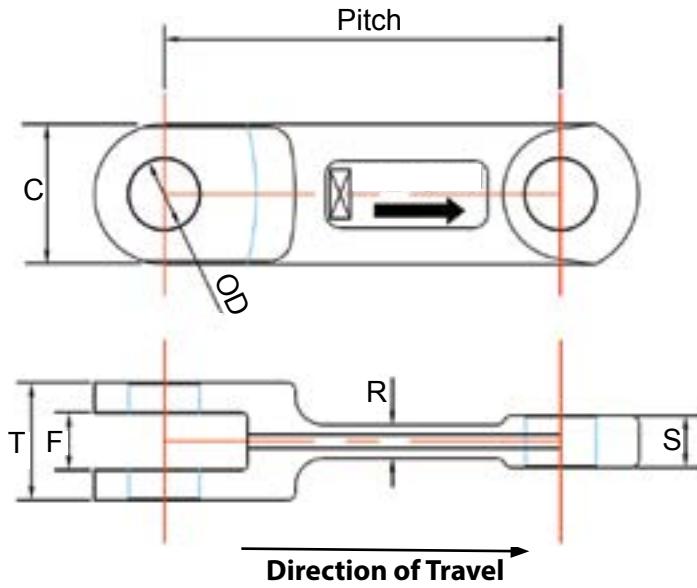
Cobalt Chains forged alloy fork link chain provides an excellent solution for the rigors of heavy duty conveying systems such as cement clinker or boiler ash handling. The low carbon, high strength base material used to manufacture these forged chains is strong and ductile to combat shock loads, and heat treated to control abrasion.

AVAILABLE LINK ALLOYS

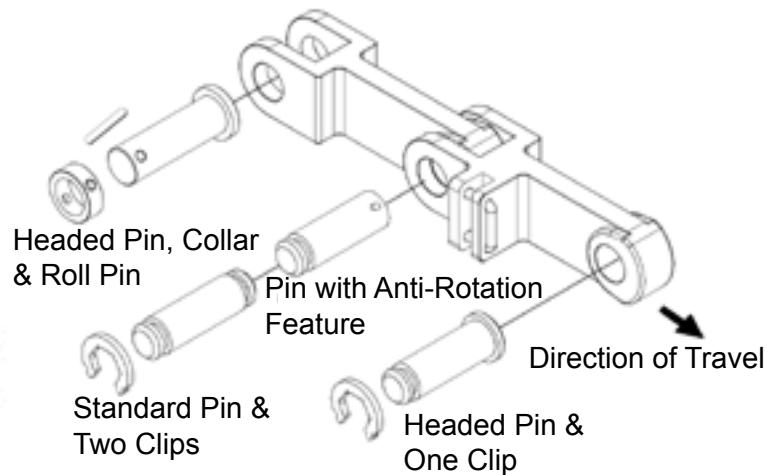
- 18MnCrB5 - Manganese Alloy Steel - Case Hardened
- 18NiCoMo5 - Chrome-Nickel Alloy Steel - Case Hardened
- C45 - Carbon Steel - Hardened & Tempered
- 42CrMo4 - Chrome Moly Alloy Steel - Hardened & Tempered
- Stainless Steel
 - AISI 304 - S3
 - AISI 420 - S4 - Hardened
 - AISI 316 - S6
 -

PIN MATERIALS

- 19MnCr5Pb - Alloy Steel - Case Hardened
- AISI 420 - Stainless Steel - Hardened & Tempered



Drop Forged Chain		
Case Hardness Specifications		
CF102	57-60 Hrc	.5mm (.02")
CF102H	57-60 Hrc	.5mm (.02")
CF14218	57-60 Hrc	.7mm (.03")
CF14226	57-60 Hrc	.7mm (.03")
CF21640	57-60 Hrc	1mm (.04")
CF26040	57-60 Hrc	1mm (.04")

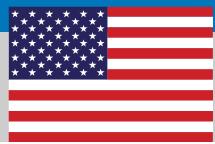


Forged Link Standard Series

All measurements in ins. () in mm.

Chain	Pitch	T	C	S	F	R	OD	Minimum Ultimate Strength LB					Weight
								MN	CN	C	CD	S 420	
CF102Z	4.018 (102)	0.94	1.42	0.31	0.39	0.25	0.56	24,700	2,700	33,700	47,200	46,900	2.31
CF102H	4.018 (102)	1.18	1.42	0.51	0.55	0.35	0.56	40,500	43,800	52,800	74,200	76,900	3.21
CF14214	5.591 (142)	1.18	1.57	0.51	0.55	0.35	0.70	40,000	3,800	52,800	74,000	76,000	3.28
CF14218	5.591 (142)	1.65	1.97	0.75	0.79	0.43	0.98	69,200	71,900	83,150	119,150	131,400	6.30
CF14226/8	5.591 (142)	2.44	1.97	1.10	1.18	0.59	0.98	98,900	105,600	128,100	177,600	187,900	9.12
CF21626	8.504 (216)	2.52	2.83	1.02	1.12	0.79	1.38	161,900	184,300	220,300	269,800	307,600	13.88
CF26040	10.236 (260)	2.76	2.95	1.22	1.30	0.79	1.28	188,800	202,300	247,300	332,700	358,700	14.00

Additional links available to custom order

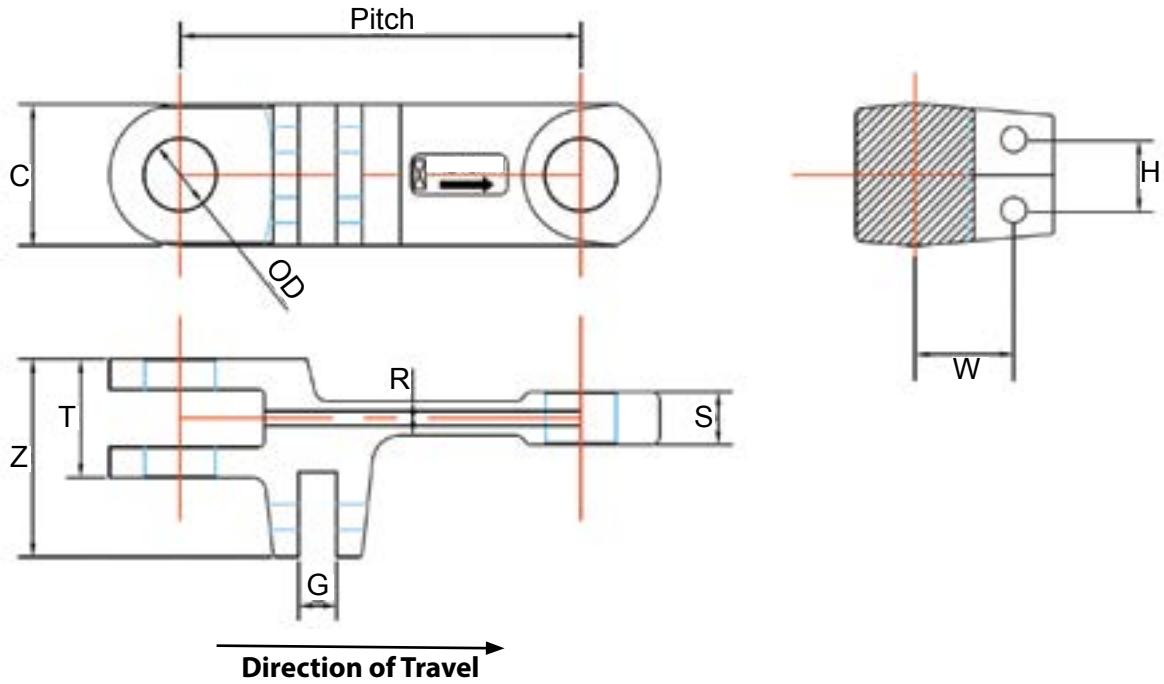


FORGED CHAINS & SPROCKETS

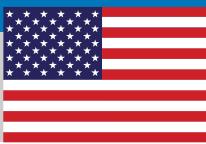
- Case-hardened Manganese Alloy Steel standard in stock
- Chrome-Nickel Alloy Steel, Carbon Steel, Chrome-Moly Alloy Steel & Stainless Steel available
- Standard & made to order flights available



Double Forged Chain with UHMW paddle flights



Forged Link Double Series											All measurements in ins. () in mm.					
Chain	Pitch	T	Z	C	S	G	R	OD	H	W	Minimum Ultimate Strength LB					Weight lbs/ft
											MN	CN	C	CD	S 420	
CF142183	5.591 (142)	1.65	2.76	1.97	0.75	0.53	0.43	0.98	0.98	1.38	65,200	71,900	83,200	123,600	131,400	7.78
CF142263	5.591 (142)	2.44	3.43	1.97	1.10	0.53	0.59	0.98	0.98	1.77	98,900	105,600	128,100	177,600	187,900	11.20
CF175403	6.890 (175)	2.83	3.74	2.36	1.18	0.63	0.91	1.18	0.98	1.53	105,600	119,100	150,600	179,800	200,600	13.61
CF200252	7.874 (200)	2.36	3.19	1.97	0.98	0.53	0.71	0.98	1.18	1.53	71,900	80,900	103,400	121,400	136,600	8.87
CF250603	9.843 (250)	3.94	5.51	2.76	1.77	0.83	1.42	1.38	1.18	1.85	191,100	215,800	265,300	317,000	363,000	23.60



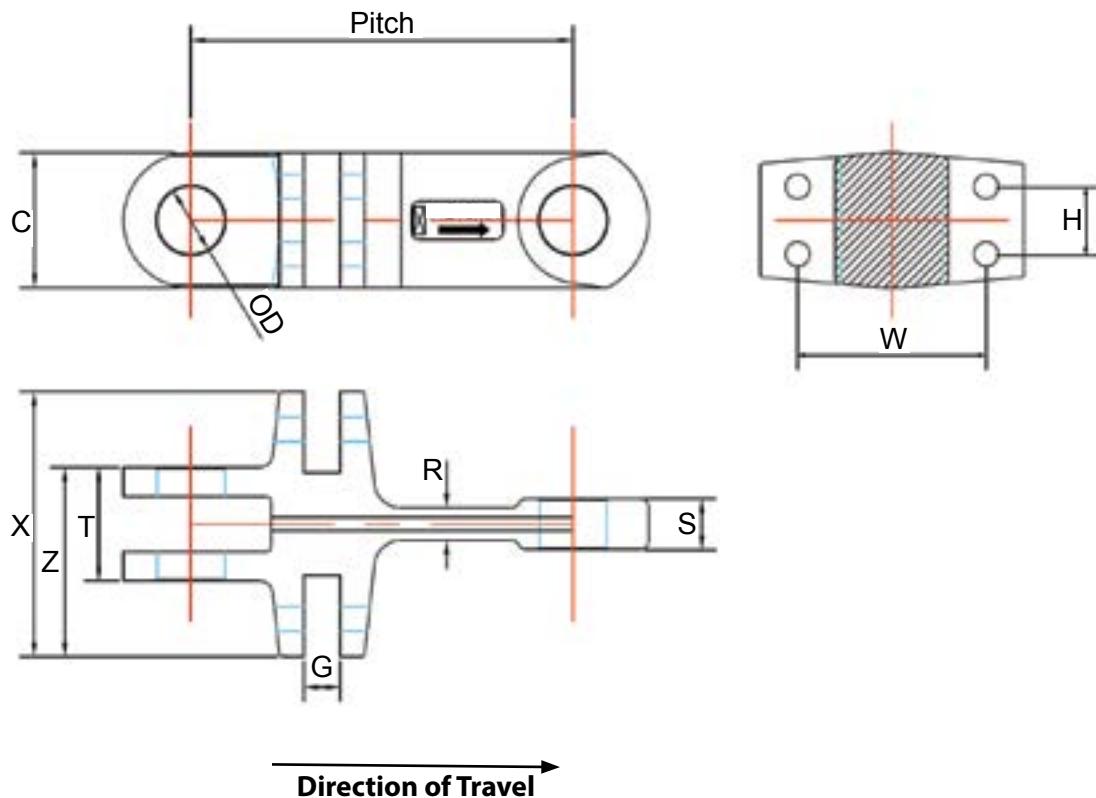
Exceptional Performance, Superior Results

FORGED CHAINS & SPROCKETS

- Forged chains are strong and ductile to combat shock loading
- Large inventory and excellent customer service provide quick delivery of chains
- In-house fabrication allows for customization of forged chains to meet almost any need



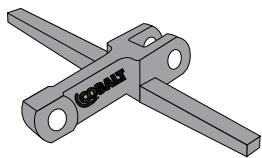
Forged standard triple traversing 7-tooth, self-cleaning idler



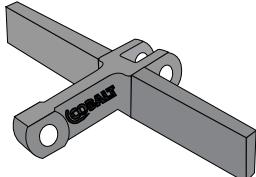
Forged Link Triple Series												All measurements in ins. () in mm.					
Chain	Pitch	T	Z	C	S	G	R	X	D	H	W	Minimum Ultimate Strength LB					Weight
												MN	CN	C	CD	S 420	
CF142184	5.591 (142)	1.65	2.76	1.97	0.75	0.53	0.43	3.86	0.98	0.98	70.00	65,200	71,900	83,200	123,600	131,400	8.00
CF142264	5.591 (142)	2.44	3.43	1.97	1.10	0.53	0.59	4.65	0.98	0.98	90.00	98,900	105,600	128,100	177,600	187,900	11.50



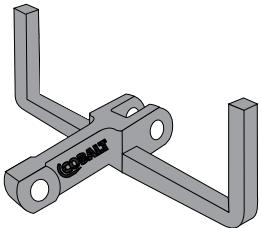
FORGED CHAINS & SPROCKETS



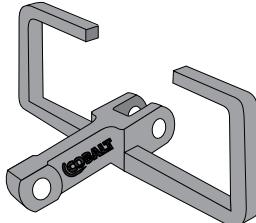
T Bar Flight



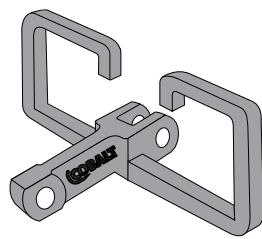
BT Plate Flight



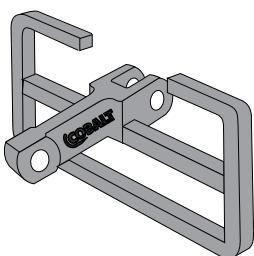
U Bar Flight



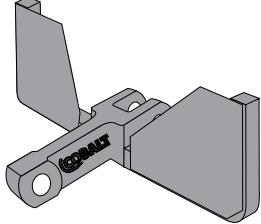
Closed U Flight



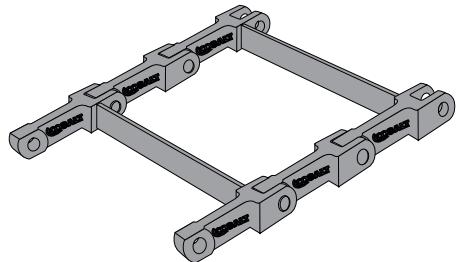
OO Flight



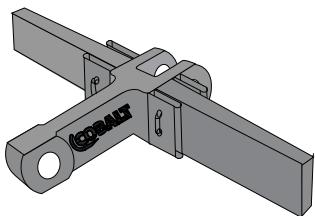
H Flight



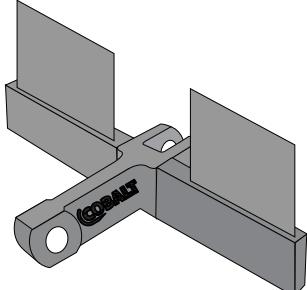
**U Flight With
Blanking Plate**



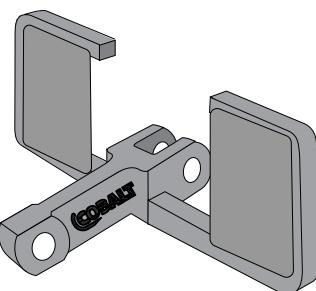
I Flight



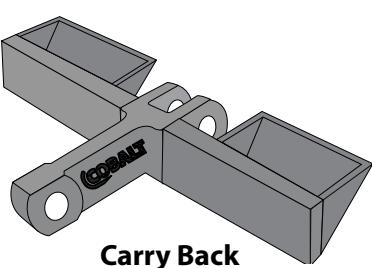
Triple Flight



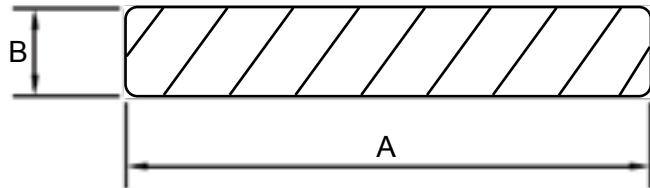
Up-Stand Flight



**OO Flight With
Blanking Plates**



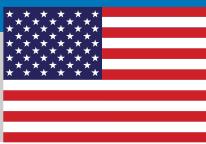
**Carry Back
Cup Flights**



High Manganese Wear Rails

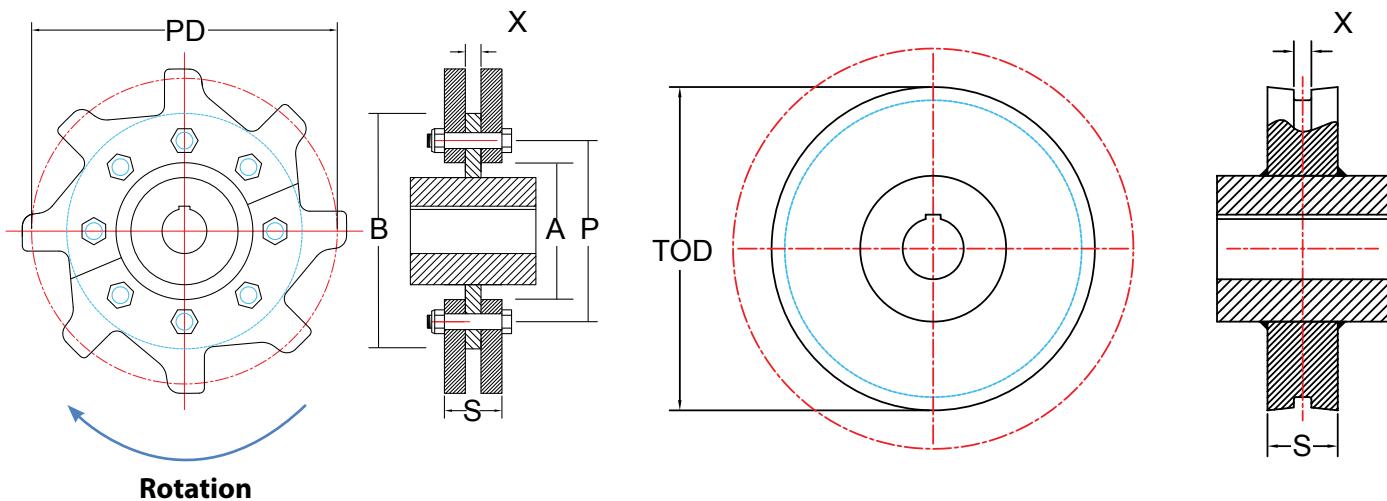
	A		B		Standard Length	Weight
	mm	in	mm	in	ft	lbs/ft
GM4010	40.00	1.57	10.00	0.39	10.00	2.00
GM6010	60.00	2.36	10.00	0.39	10.00	2.98

"V" Grooved and other sizes available to order



Exceptional Performance, Superior Results

FORGED CHAINS & SPROCKETS



Sprocket Hub Detail

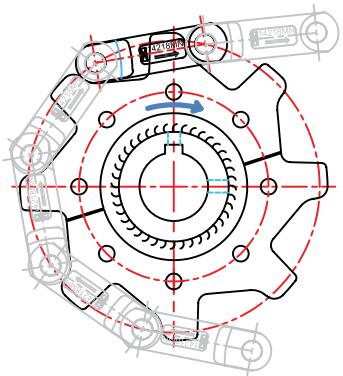
Number of Teeth	Sprocket Pitch Diameter	Trailer Outside Diameter	Segment ID	Flange Diameter	Number of Bolt Holes N	Bolt Diameter	Bolt PD	X	S	Recommended Max Bore
	PD	TOD	A	B		P				
	in					mm	in			
CF102R	7	9.26	7.52	4.250	6	12	5.750	0.500	1.50	2.0
	8	10.49	8.50	5.669	6	12	6.625	0.500	1.50	3.0
	9	11.74	10.24	6.850	6	12	7.875	0.500	1.50	4.0
	10	13.00	11.61	7.047	8	12	9.500	0.500	1.50	4.0
	11	14.25	12.34	8.622	8	16	10.250	0.500	1.50	5.0
	12	15.52	14.00	8.622	8	16	10.250	0.500	1.50	5.0
CF14218	6	11.18	9.21	5.375	6	12	6.625	0.625	1.88	3.0
	7	12.89	11.00	6.375	6	16	7.875	0.625	1.88	4.0
	8	14.61	12.60	7.375	8	20	9.500	0.625	1.88	5.0
	9	16.35	14.25	9.449	8	20	11.250	0.625	1.88	7.0
	10	18.09	16.34	9.449	8	20	11.250	0.625	1.88	7.0
	11	19.84	17.87	12.205	16.500	8	20	14.500	0.625	1.88
	12	21.61	19.69	13.580	18.300	8	20	16.339	0.625	1.88
	13	23.36	21.46	14.961	20.500	8	20	18.500	0.625	1.88
	14	25.13	23.15	14.961	21.500	8	20	18.500	0.625	1.88
CF14226	6	11.18	9.21	5.375	6	12	6.625	0.750	2.25	3.0
	7	12.89	11.00	6.375	6	16	7.875	0.750	2.25	4.0
	8	14.61	12.60	7.375	8	20	9.500	0.750	2.25	5.0
	9	16.35	14.25	9.449	8	20	11.250	0.750	2.25	7.0
	10	18.09	16.34	9.449	8	20	11.250	0.750	2.25	7.0
	11	19.84	17.87	12.205	16.500	8	20	14.500	0.750	2.25
	12	21.61	19.69	13.580	18.300	8	20	16.339	0.750	2.25
	13	23.36	21.46	14.961	20.500	8	20	18.500	0.750	2.25
	14	25.13	23.15	14.961	21.500	8	20	18.500	0.750	2.25

Details on 216mm and 260 mm sprockets and trailers available upon request

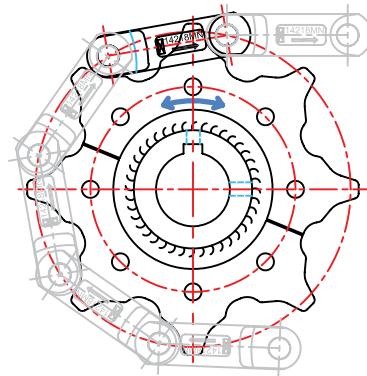
Additional Teeth Options Available



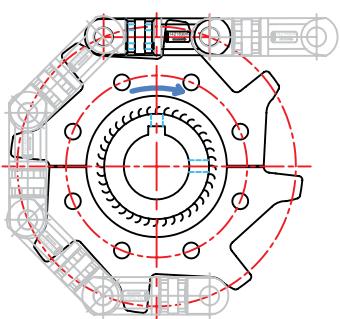
FORGED CHAINS & SPROCKETS



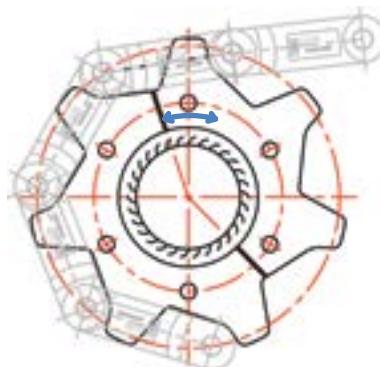
Standard Profile Drive Sprocket



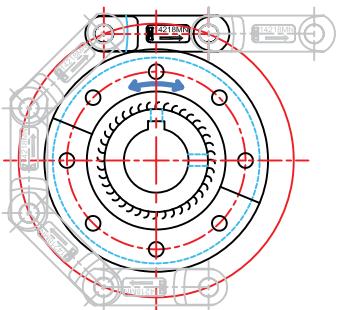
Reversible Symmetrical Drive Sprocket



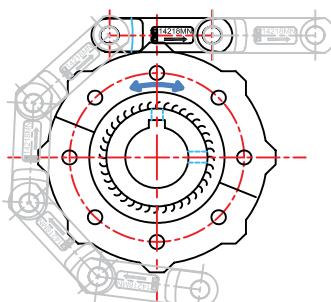
Double/Triple Drive Sprocket



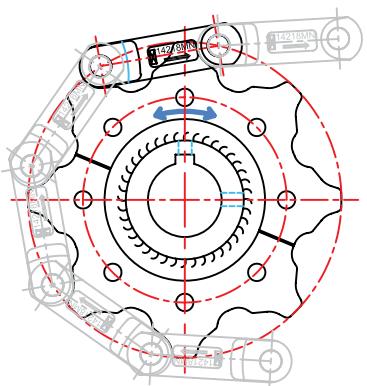
Reversible Asymmetrical Drive/Trailer Sprocket (102R Only)



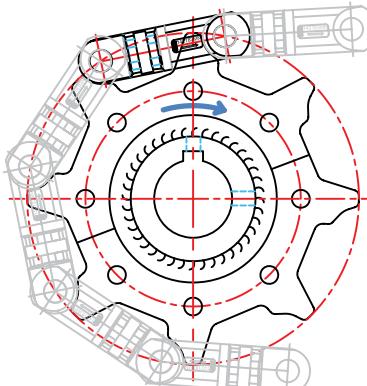
Smooth Idler Trailer Wheel (Segmental)



"Star" Trailer Idler Wheel (Segmental)



Self Cleaning Trailer Wheel

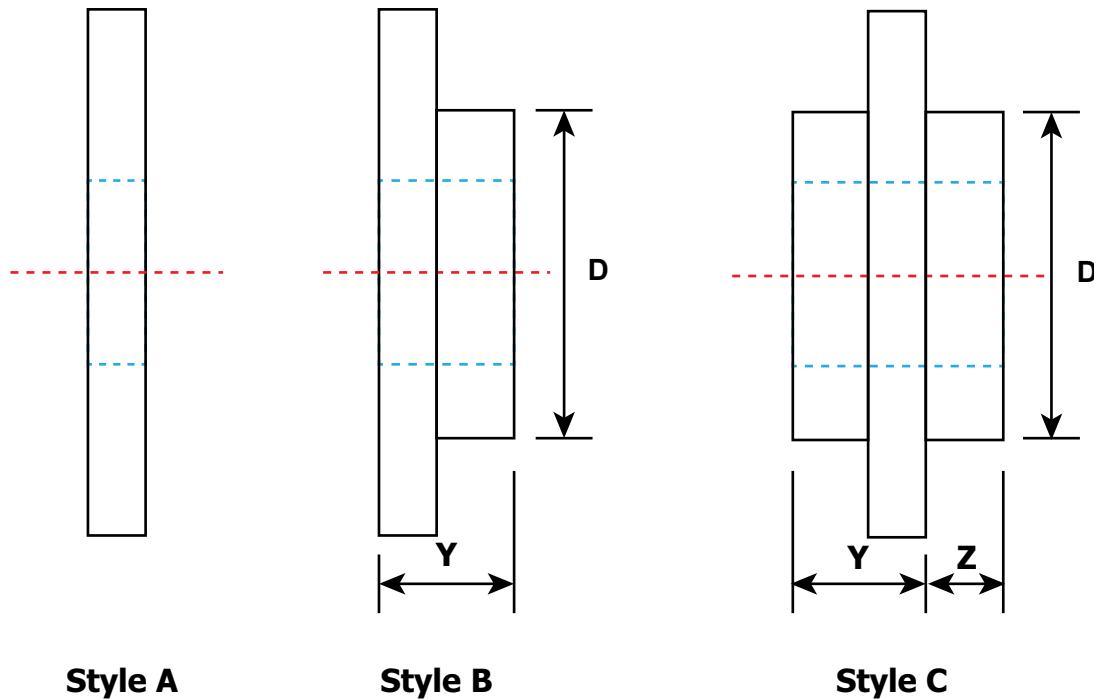


Double/Triple Toothed Trailer



Exceptional Performance, Superior Results

COBALT HUB STYLES

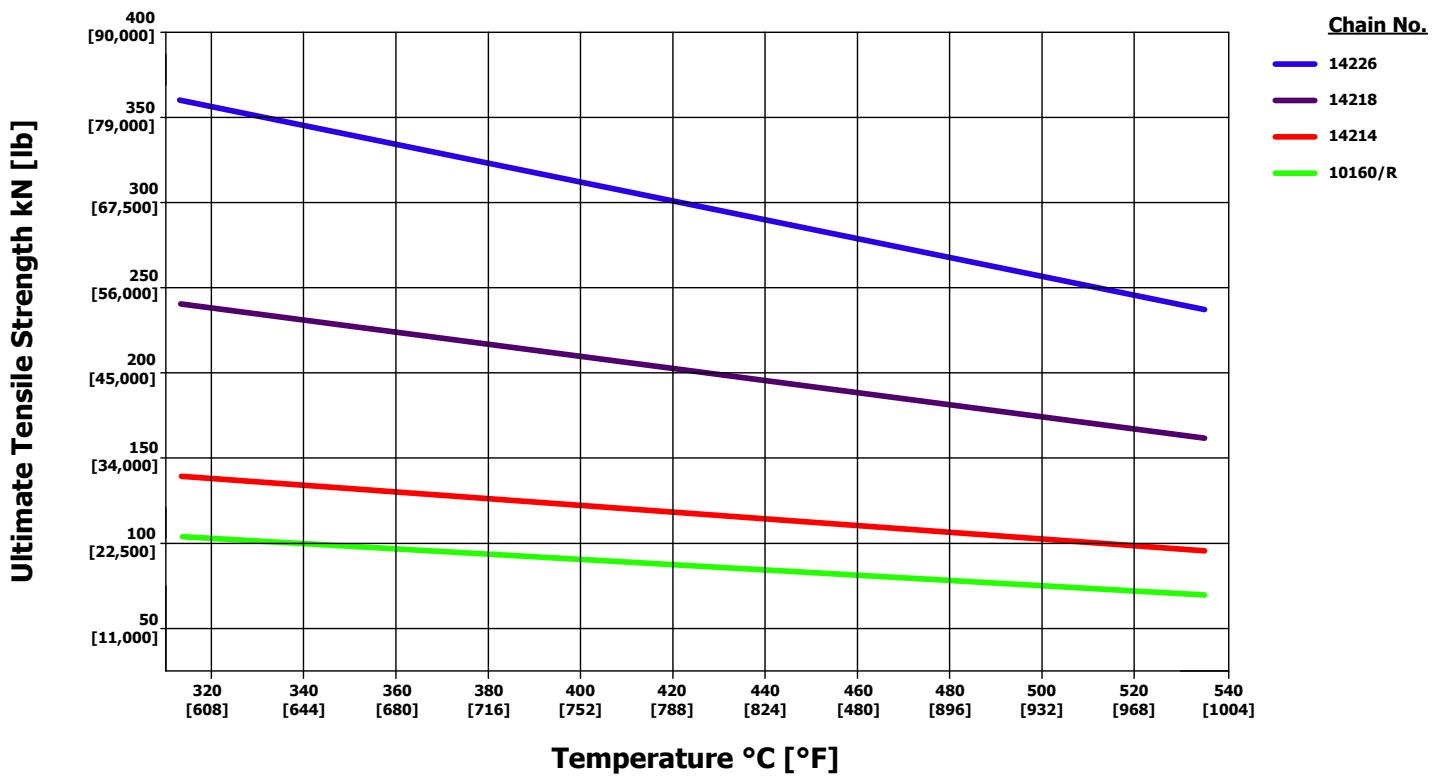


Style A

Style B

Style C

FORGED CHAIN TEMPERATURE RESISTANCE GRAPH





FORGED CHAIN - OPERATION & MAINTENANCE INFORMATION

Cobalt Chains forged alloy chain provides an excellent solution for the rigors of heavy duty conveying systems. The low carbon, high alloy base material used to manufacture these links is strong & ductile to combat shock loads, and the surface is case hardened to \pm RC60 to give excellent abrasion resistance.

CHAIN LINKS

- 1) The "Forked Link" style of conveying chain is designed to operate in one direction only, note the direction arrow on each link and the direction of travel shown in fig. 1. However, chains that transit in both directions can be made to special order.
- 2) When assembling or disassembling chain the pin keeper/retainer, whether "C" clip or tension pin, must NEVER be re-used. These are the most important assets of chain security, and if ignored can result in serious crashes and down time.
- 3) Keep the chain properly "Tensioned" in use. Tensioning is defined as applying as much force to the take-up, as is necessary, to remove the slack out of the system. Conveyor chain does not need to be "Pre-tensioned" like a belt, as this is not required for the proper operation. In fact, in most applications, some small amount of slack is desirable, in the return chain.
- 4) Regularly inspect the condition of the chain, paying particular attention to the pin retainers. Missing or broken retainers can result very quickly in chain separation.
- 5) Straighten or replace bent flights, as this will reduce stress on the conveyor system and may prevent chain damage or a conveyor plug condition. Missing, or bent, flights or scrapers, will put significantly more load on the others.
- 6) Replace chain before elongation of pin bore and pin reaches 3mm (1/8").
- 7) Although Cobalt Chains forged chain requires no lubrication in use, if the application permits, drip lubrication of the chain may extend the wear life – for example used gasoline engine oil.
- 8) With "double" or "triple" chains be sure to check the flight connection "U" pins or bolts as in Fig. 1. Make certain that none are missing and all are in sound structural condition.

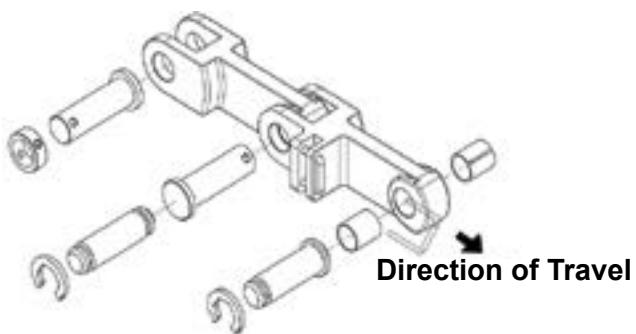
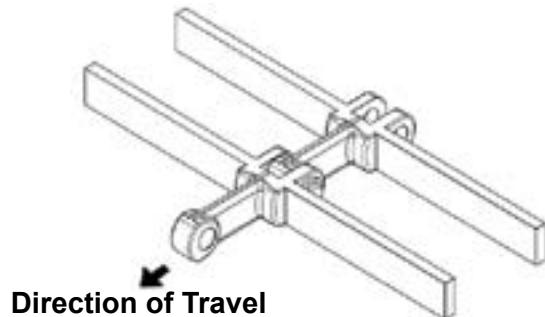
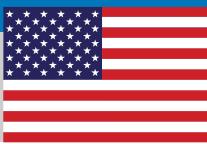


Fig. 1



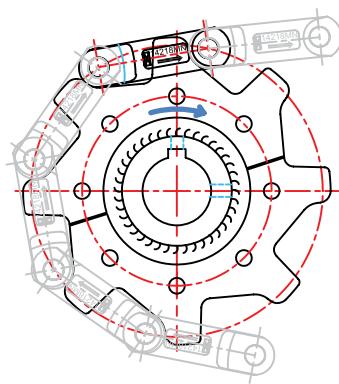


DRIVE SPROCKETS

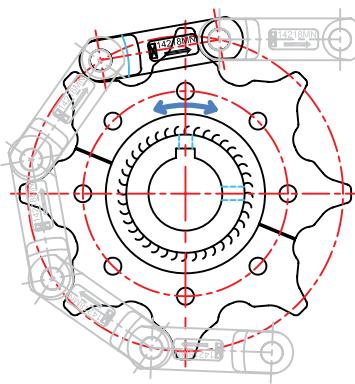
- 1) Regularly inspect the drive sprocket, looking specifically for any evidence of "Pocketing" as this can damage the pin retainers. Replace worn sprocket segments and assembly bolts immediately.
- 2) Periodically check the retaining bolts of the sprocket segments and re-torque them.
- 3) Replace worn or missing sprocket cleaners, return rails, ramp rails and any "hold-down" rails.
- 4) All sprockets are replaceable tooth type. Be sure that during installation and start-up that the mounting bolts are re-torqued to the appropriate setting and also the hub cross bolts, if a split hub is utilized (applies to Idler also).
- 5) There are two styles of sprocket, see Figure 2. The more usual asymmetrical pattern must rotate in the direction shown in Figure 2. The reversible pattern, which is reversible for wear only, is bi-directional and may rotate in either direction.
- 6) Maintain the perpendicularity of drive and end shafts, as well as the alignment of all the sprockets.
- 7) Regularly inspect all shaft keys and setcrews, and re-torque hub setscrews, sprocket assembly bolts and hub cross bolts (split hub only).
- 8) If split hub is present, be sure that the sprocket segments bolt across the split line.



16 Tooth Star Trailer



Standard Profile Drive Sprocket



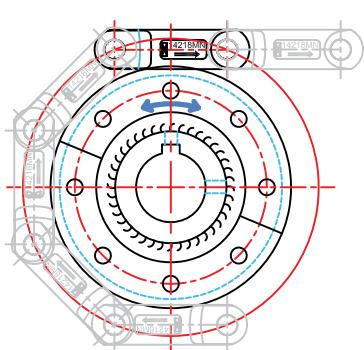
Reversible Symmetrical Drive Sprocket

Figure. 2

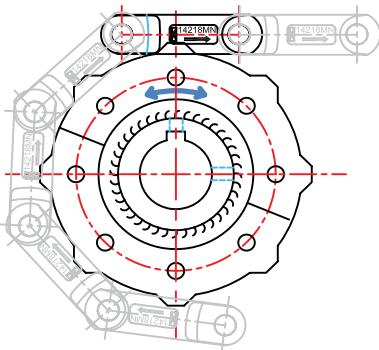


TAKE-UP & IDLER SPROCKETS

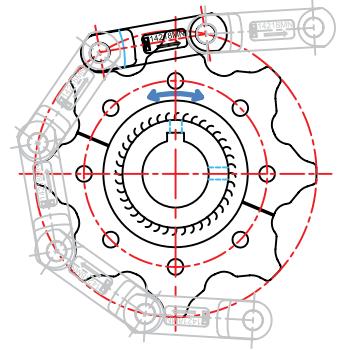
- 1) Regularly inspect the condition of the trailer or take-up wheels. If significant wear is evident the wheel or the segments will need replacing. Worn segments can cause chain damage, and a worn wheel may result in chain run off and mis-tracking.
- 2) There are three styles of idler, see figure 3, and both may rotate in either direction. The toothed style gives a more positive location of the chain and has the benefit of replaceable tooth rim segments.



Smooth Idler Trailer Wheel (Segmental)



"Star" Trailer Idler Wheel (Segmental)



Self Cleaning Trailer Wheel

CLIP RETAINER SYSTEM - Special attention should be given to the pin clips if used:

- 1) Install – fit clip in groove squeezing firmly as fig. 4 – do not over-tighten as clip ends do not touch and there should be about a 0.050" gap.
- 2) Remove – position tool as fig. 5. Squeeze pull & twist, clip will release.
- 3) Standard and Heavy Duty Clip Tools are available from stock.

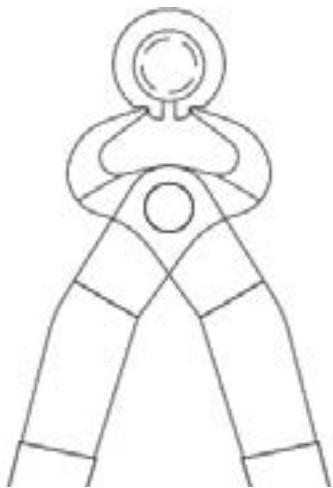


Fig. 4

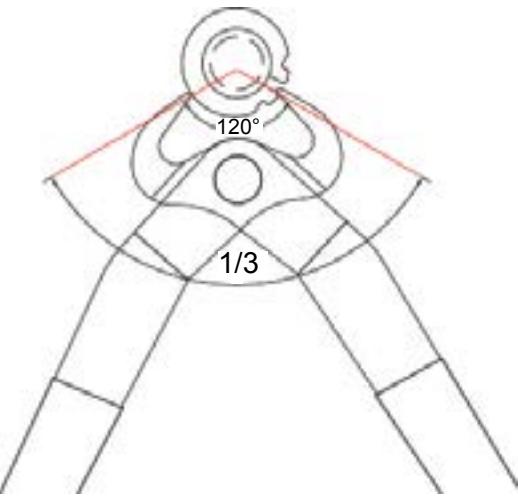


Fig. 5



GENERAL

- 1) When working around machinery such as conveyors you MUST observe all LOTO procedures (Electrical Lock-Out/Tag-Out), as well as OSHA and your company's procedures.
- 2) Cobalt Chains recommends the installation of safety equipment such as a speed switch, a plug detector and slack chain detectors.
- 3) Never "BUMP" a conveyor to clear a plugged conditions.
- 4) The tensioning note herein does not apply to cantenary, spring or automatic take-up systems

SPARE PARTS

The following minimum spare chain parts are recommended per conveyor:

STANDARD STYLE CHAINS

- 10% Complete chain assembly
- 10 Connecting pins and retainers
- 1 Sprocket and Idler segment assembly

DOUBLE STYLE CHAINS

Add to the above:

- 10% Flights and retainers
- 10 Connecting pins and retainers
- 1 Sprocket and Idler segment assembly (these are "paired")

A clip installation tool can be included with the chain system, additional tools may be purchased.

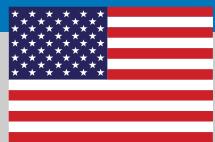
Please contact Cobalt Chains Inc. at any time should you have questions or concerns regarding your Cobalt Conveyor or Drive chain System.

After hours phone numbers are:

Chris Robinson: 309.840.8988

Mike Robinson: 309-840-5042

Exceptional Performance, Superior Results

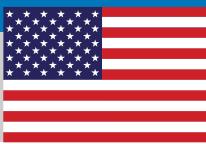


Mining Chains & Sprockets

Telephone: 309-698-9250



COBALT
a CROMANT chain company



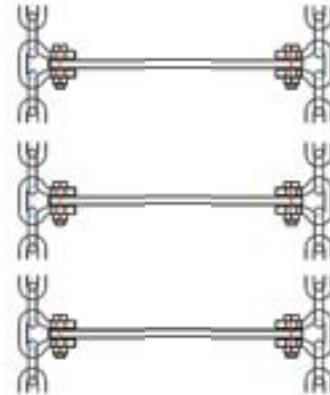
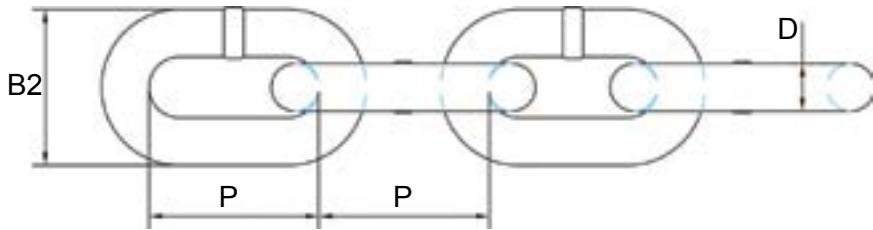
Exceptional Performance, Superior Results

ROUND LINK CHAINS & SPROCKETS

Cobalt Chains round link steel chains have become a proven standard in aggressive mining, ash handling, cement production, and other heavy-duty applications due to their high strength and flexibility in operation. They are built to meet or exceed standards for dimensional consistency, interchangeability, and correct sprocket engagement, commonly with the DIN 22252 & DIN 764 specifications. We also offer a range of quality accessories such as forged master links, attachment shackles, mounting hardware, and complete sprocket solutions.



- Round Link Chain is through hardened from stock, case hardened can be ordered
- Single style forged sprocket teeth are made to order
- 2, 3 or 4 piece split sprockets are available



Typical Chain Layout

*During installation, orient the link welds so that they are to the outside of the sprocket/idler. Additionally, on double chains, orient the link welds towards the outside/conveyor walls.

Round Link Chains											
Chain	P		D		B2		Hardness		Minimum UTS		
	mm	in	mm	in	mm	in	RC	BHN	kN	lbs	lbs/ft
CR11x38	38.00	1.49	11.00	0.43	35.00	1.37	40.00	375.00	172.00	38,000	2.00
CR14x50	50.00	1.97	14.00	0.55	46.00	1.81	40.00	375.00	250.00	55,000	2.70
CR18x64	64.00	2.52	18.00	0.71	60.00	2.36	40.00	375.00	410.00	90,000	4.50
CR22x86	86.00	3.39	22.00	0.87	74.00	2.91	40.00	375.00	610.00	135,000	6.40
CR26x92	92.00	3.62	26.00	1.02	85.00	3.35	40.00	375.00	850.00	191,000	9.21
CR26x100	100.00	3.94	26.00	1.02	87.00	3.42	40.00	375.00	1130.00	249,000	14.50
CR30x108	108.00	4.25	30.00	1.18	97.00	3.81	40.00	375.00	1220.00	27,000	19.60
CR34x126	126.00	4.96	34.00	1.39	109.00	4.29	40.00	375.00	1560.00	344,000	24.80

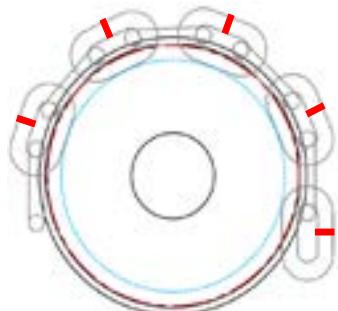
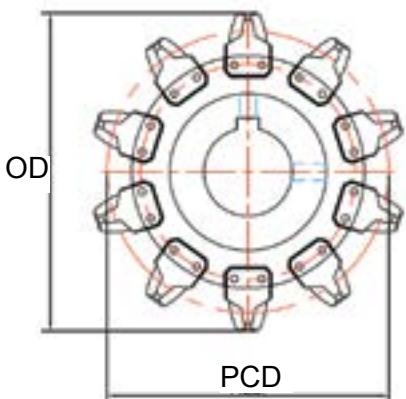
*Dimensions +/- 1mm

Other Chains Available

Case Hardened chains are available to order - note that the Minimum UTS for case hardened chain will be significantly less than is stated above



ROUND LINK CHAINS & SPROCKETS



*Smooth Idler
** Note link weld orientation



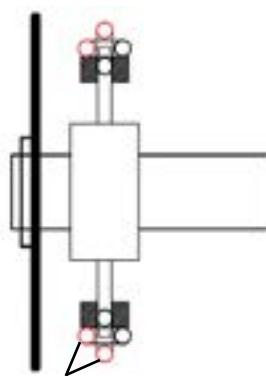
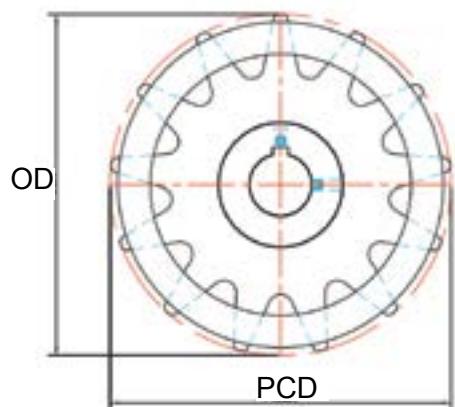
8-Tooth Round Link Chain Sprocket

Sprockets

Size	6T				8T				10T				13T			
	PCD		OD		PCD		OD		PCD		OD		PCD		OD	
	mm	in														
14x50	194.00	7.64	232.00	9.13	256.00	10.08	293.00	11.54	319.00	12.56	357.00	14.06	415.00	16.34	453.00	17.83
18x64	247.00	9.72	298.00	11.73	328.00	12.91	381.00	15.00	409.00	16.10	460.00	18.11	531.00	20.91	583.00	22.95
22x86	335.00	13.19	420.00	16.54	442.00	17.40	526.00	20.71	550.00	21.65	634.00	24.96	-	-	-	-
26x92	354.00	13.94	434.00	17.09	471.00	18.54	551.00	21.69	588.00	23.15	668.00	26.30	-	-	-	-
30x108	416.00	16.34	517.00	20.35	554.00	21.81	655.00	25.79	759.00	29.88	860.00	33.86	-	-	-	-

Other sizes available

*Smooth Idlers made to order



Link welds to outside of conveyor



13-Tooth Self-Cleaning Round Link Sprockets

Self Cleaning Sprockets

Size	6T				8T				10T				13T			
	PCD		OD		PCD		OD		PCD		OD		PCD		OD	
	mm	in														
14x50	194.00	7.64	218.00	8.58	256.00	10.08	279.00	10.98	319.00	12.56	305.00	12.00	415.00	16.34	439.00	17.28
18x64	247.00	9.72	280.00	11.02	328.00	12.91	363.00	14.29	409.00	16.10	442.00	17.40	531.00	20.91	565.00	22.24
22x86	335.00	13.19	398.00	15.67	442.00	17.40	504.00	19.84	550.00	21.65	612.00	24.09	-	-	-	-
26x92	354.00	13.94	408.00	16.06	471.00	18.54	525.00	20.67	588.00	23.15	642.00	25.28	-	-	-	-
30x108	416.00	16.34	487.00	19.17	554.00	21.81	625.00	24.61	759.00	29.88	830.00	32.68	-	-	-	-

*All dimensions or values of any type in this catalog are subject to change without notice

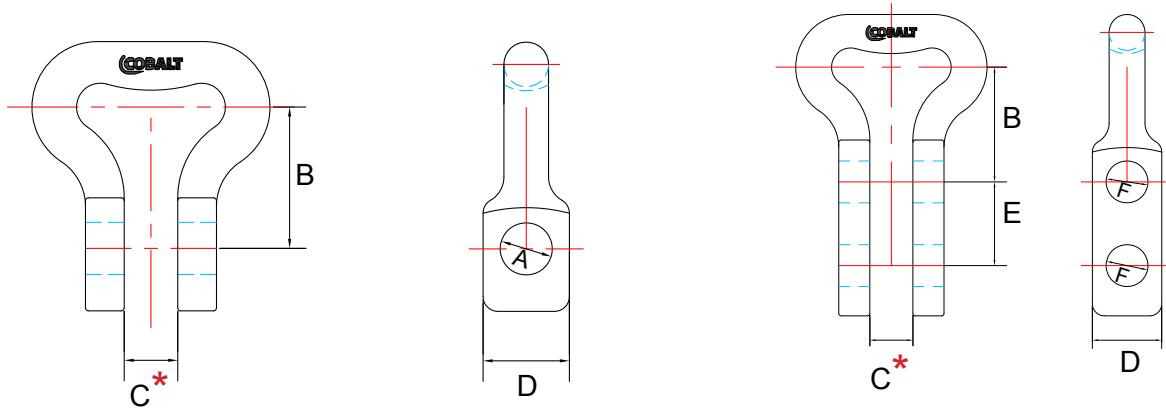
Telephone: 309-698-9250





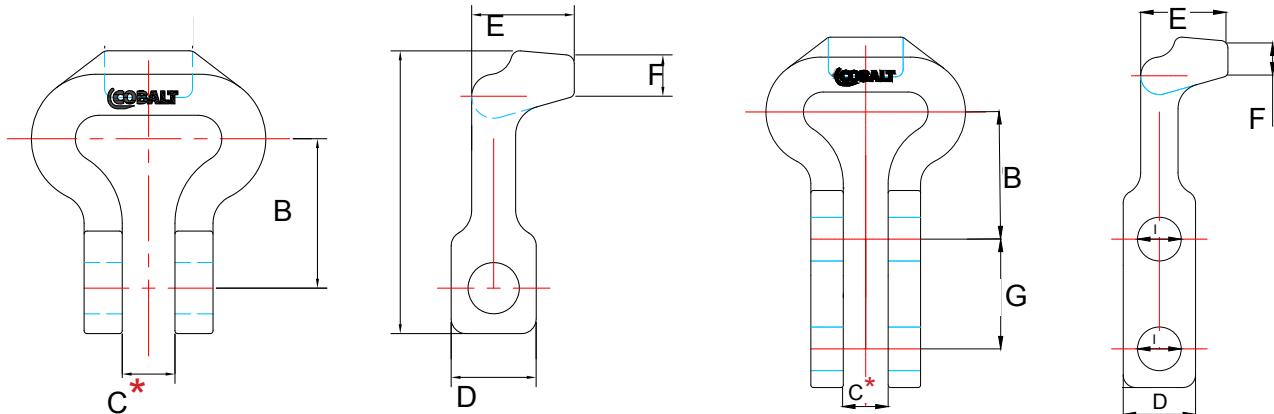
Exceptional Performance, Superior Results

ROUND LINK CHAINS & SPROCKETS



Round Link Single Padless Shackles

Size	A Single Bolt	F Double Bolt	B	C	D	E	Weight	
	in						Single Bolt	Double Bolt
							lbs	
14x50	0.63	0.63	1.88	0.71	1.15	1.38	0.80	1.20
18x64	0.63	0.63	2.00	0.92	1.50	1.75	1.60	2.20
18x64	0.75	-	2.20	0.92	1.50	-	1.60	-
22x86	1.00	0.63	3.00	1.15	2.00	1.56	3.60	4.60
26x92	1.00	0.88	3.50	1.12	2.25	2.38	5.51	7.05
30x108	1.18	1.00	3.78	1.34	2.52	2.36	7.72	18.74
34x126	1.42		4.33	1.38	2.56	-	10.56	-



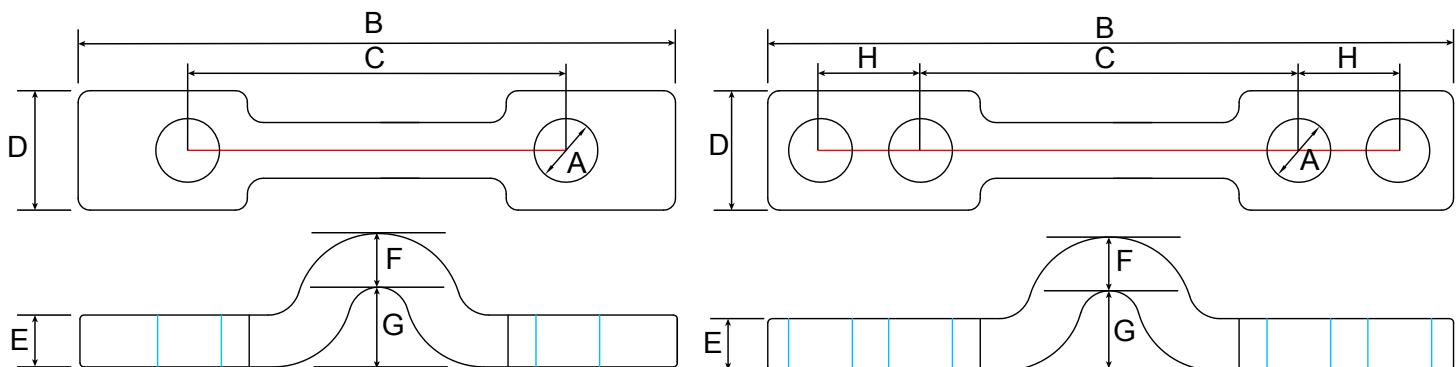
Round Link Single Bolt Padded Shackles

Size	A Single Bolt	I Double Bolt	B	C	D	E	F	G	Weight	
	in								Single Bolt	Double Bolt
									lbs	
14x50	0.63	0.63	1.88	0.71	1.15	1.38	0.56	1.38	1.10	1.65
18x64	0.63	0.63	2.00	0.79	1.22	1.57	0.58	1.75	3.04	4.18
22x86	1.00	0.63	2.95	1.15	2.00	1.81	0.61	1.56	5.69	7.30

WARNING: DURING INSTALLATION, FORGED ALLOY SHACKLE DIMENSION "C" SHOULD NOT BE REDUCED BY MORE THAN 0.020"

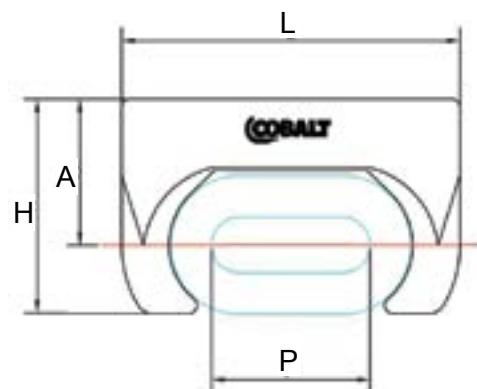
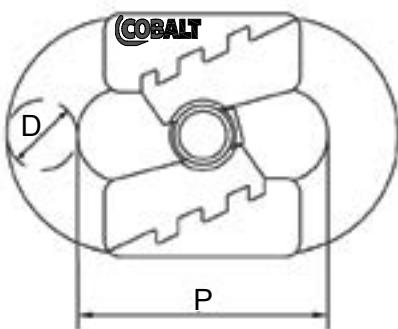


ROUND LINK CHAINS & SPROCKETS



Round Link Half Shackles

Size	Bolts	D	C	B	A-Bolt	G	E	F	H	Weight
		in				in				lbs
14x50	2	1.19	3.74	5.88	0.63	0.76	0.50	0.56	-	0.60
18x64	2	1.41	4.44	6.88	0.63	1.00	0.72	0.72	-	1.98
18x64	4	1.41	4.44	9.44	0.63	1.00	0.72	0.72	1.62	2.00

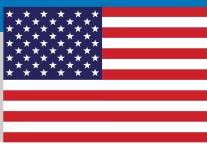


Chainlock Connectors

Size	P	D	Weight
	in	in	lbs
14x50	1.97	0.55	1.00
18x64	2.52	0.71	1.50
22x86	3.39	0.87	2.70
26x92	3.62	1.02	7.50
30x108	4.25	1.18	6.61
34x126	4.96	1.34	9.48

Plug In Connectors

Size	P	L	H	A	Weight
	in	in	in	in	lbs
14x50	1.97	4.33	2.87	1.97	1.10
18x64	2.52	5.31	3.31	2.52	1.80
22x86	3.39	7.17	4.57	3.15	4.40
26x100	3.94	8.41	5.31	3.62	7.30
30x108	4.25	9.45	6.30	4.33	11.02
34x126	4.96	10.71	6.97	4.80	15.90



Exceptional Performance, Superior Results



Exceptional Performance, Superior Results



Welded Steel Chains

Telephone: 309-698-9250

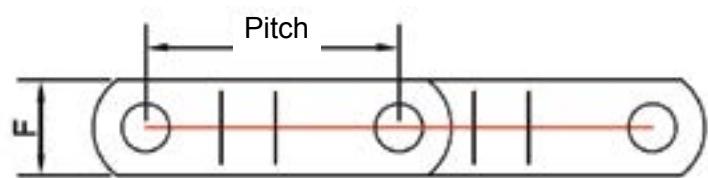
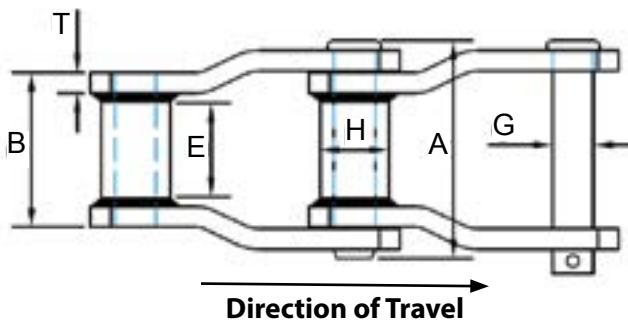


COBALT
a CROMANT chain company



WELDED STEEL CONVEYOR CHAINS

Cobalt Chains welded steel chains are high-strength, rollerless chains that are often used in the lumber industry, grain conveying, or anywhere that bulk material conveyance is required. Premium, heat-treated sidebars are precision machined and welded to solid, tubular barrels, then connected with induction-hardened pins for maximum strength and durability. Our chains are built to exceed industry standards. Most common sizes are available from on-hand inventory and can be provided with welded attachments and paddles as a turn-key solution to meet your specific material handling needs.

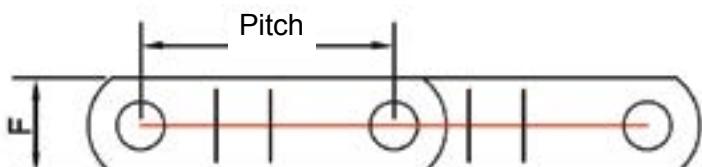
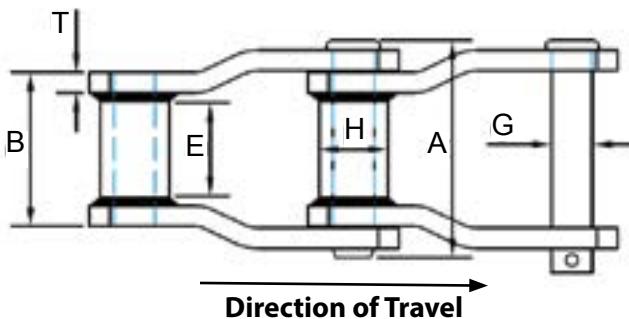


Standard WH Series

Chain	Pitch		A		E		Sidebars	Pins	Barrel	Minimum Ultimate Strength		Working Load		Weight							
							T	F	G	B	H										
	in	mm	in	mm	in	mm	in	mm	in	mm	in	in	mm	in	mm	lbs	kg	lbs	kg	lbs/ft	
WH78	2.609	66.30	3.00	78.20	1.00	25.40	0.25	6.35	1.25	31.75	0.50	12.70	2.00	50.80	0.88	22.22	33,000	15,000	3,000	1,350	4.10
WH82	3.075	78.10	3.31	84.14	1.38	34.93	0.25	6.35	1.25	31.75	0.56	14.29	2.25	57.15	1.06	27.00	36,000	16,400	4,400	1,996	4.70
WH124	4.000	101.60	4.25	107.95	1.50	38.10	0.38	9.52	1.50	88.10	0.75	19.05	2.81	74.43	1.25	31.75	57,000	26,000	7,350	3,334	8.00
WH111	4.760	120.90	4.94	104.78	1.88	47.63	0.38	9.52	1.50	88.10	0.75	19.05	4.81	122.23	1.25	31.75	60,000	27,000	8,850	3,788	8.60
WH106	6.000	152.40	4.25	107.95	1.50	38.10	0.38	9.52	1.50	88.10	0.75	19.05	2.81	71.43	1.25	31.75	60,000	27,000	7,350	3,334	7.00
WH110	6.000	152.40	4.63	117.60	1.88	47.63	0.38	9.52	1.50	88.10	0.75	19.05	3.00	76.20	1.25	31.75	80,000	36,000	7,900	3,600	4.72
WH132	6.050	153.70	6.25	158.75	2.88	73.03	0.50	12.70	2.00	50.80	1.00	25.40	4.42	112.32	1.75	44.45	122,000	55,400	15,000	6,800	13.50
WH150	6.050	153.70	6.25	158.75	2.88	73.03	0.50	12.70	2.50	63.50	1.00	25.40	4.42	112.32	1.75	44.45	122,000	55,400	15,000	6,800	16.80
WH155	6.050	153.70	6.50	165.90	2.88	73.03	0.63	15.88	2.50	63.50	1.13	28.58	4.63	117.48	1.75	44.45	151,000	68,600	18,200	8,270	19.50
WH157	6.050	153.70	6.75	171.45	2.75	69.85	0.63	15.88	2.50	63.50	1.13	28.58	4.63	117.48	1.75	44.45	175,000	79,379	29,000	13,154	20.00
WH159	6.125	155.58	6.75	171.45	2.75	69.85	0.63	15.88	3.00	76.20	1.25	31.75	4.63	117.48	1.90	48.26	210,000	95,254	32,000	14,514	26.00
WH200	6.125	155.58	6.75	171.45	2.75	69.85	0.63	15.88	2.50	63.50	1.25	31.75	4.63	117.48	1.90	48.26	190,000	86,183	32,000	14,514	22.10

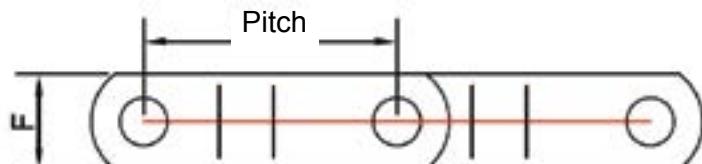
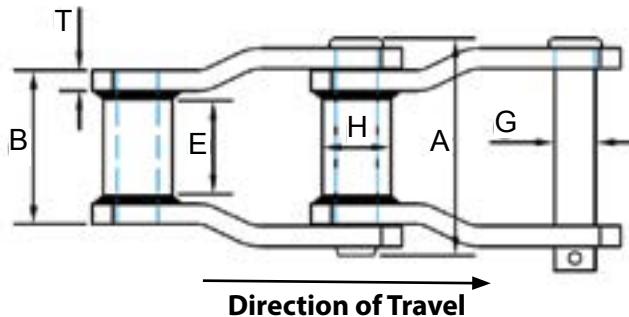


WELDED STEEL CONVEYOR CHAINS



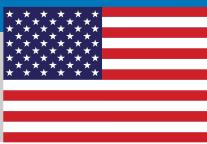
WS Stainless Steel Series

Chain	Pitch		A		E		Sidebar		Pins		Barrel				Minimum Ultimate Strength		Working Load		Weight						
	in		mm		in		mm		in		mm		in		mm		in		mm		lbs	kg	lbs	kg	lbs/ft
	T	F	G	B	H																				
WS78	2.609	66.30	3.00	78.20	1.00	25.40	0.25	6.35	1.25	31.75	0.50	12.70	2.00	50.80	0.88	22.22	11,600	5,200	2,300	1,050	4.00				
WS82	3.075	78.10	3.31	84.14	1.38	34.93	0.25	6.35	1.25	31.75	0.56	14.29	2.25	57.15	1.06	27.00	13,000	5,900	2,600	1,200	4.80				
WS124	4.000	101.60	4.25	107.95	1.50	38.10	0.38	9.52	1.50	88.10	0.75	19.05	2.81	74.43	1.25	31.75	21,400	9.700	4,250	1,900	8.30				
WS106	6.000	152.40	4.25	107.95	1.50	38.10	0.38	9.52	1.50	88.10	0.75	19.05	2.81	71.43	1.25	31.75	38,000	17,200	4,650	2,100	7.00				
WS132	6.050	153.70	6.25	158.75	2.88	73.03	0.50	12.70	2.00	50.80	1.00	25.40	4.42	112.32	1.75	44.45	38,000	17,200	4,650	2,100	14.20				
WS150	6.050	153.70	6.25	158.75	2.88	73.03	0.50	12.70	2.50	63.50	1.00	25.40	4.42	112.32	1.75	44.45	56,400	25,600	11,200	5,100	16.80				
WS155	6.050	153.70	6.50	165.90	2.88	73.03	0.63	15.88	2.50	63.50	1.13	28.58	4.63	117.48	1.75	44.45	52,100	23,600	10,400	4,700	20.00				



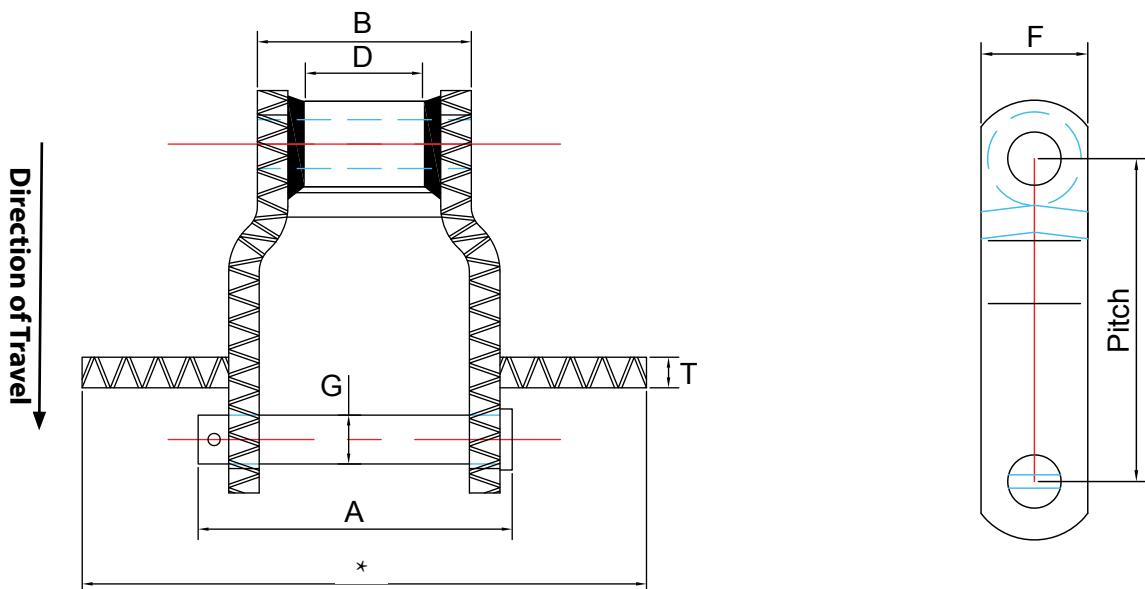
WHXD Heavy Duty Series

Chain	Pitch		A		E		Sidebar		Pins		Barrel				Minimum Ultimate Strength		Working Load		Weight						
	in		mm		in		mm		in		mm		in		mm		in		mm		lbs	kg	lbs	kg	lbs/ft
	T	F	G	B	H																				
WH78XHD	2.609	66.30	3.25	82.55	1.00	25.40	0.38	9.65	1.25	31.75	0.56	14.22	2.00	50.80	1.00	25.40	36,760	16,700	6,000	2,700	6.17				
WH82XHD	3.075	78.10	3.81	96.77	1.13	28.70	0.38	9.65	1.50	38.10	0.75	19.05	2.38	60.45	1.25	31.75	57,110	25,900	9,500	4,300	8.60				
WH9103HD	3.075	78.10	3.63	92.20	1.25	31.75	0.38	9.65	1.50	38.10	0.75	19.05	2.25	57.15	1.25	31.75	64,530	29,300	10,700	4,900	8.82				
WH124XHD	4.063	103.20	4.69	119.13	1.50	38.10	0.50	12.70	2.00	50.80	1.00	25.40	3.00	76.20	1.75	44.45	121,850	55,300	20,400	9,300	14.11				
WH106XHD	6.050	153.70	4.75	120.65	1.50	38.10	0.50	12.70	2.00	50.80	1.00	25.40	3.00	76.20	1.75	44.45	121,850	55,300	20,400	9,300	12.35				
WH132XHD	6.050	153.70	6.63	168.40	3.00	76.20	0.63	16.00	2.00	50.80	1.00	25.40	4.69	119.13	1.75	44.45	122,080	55,400	20,400	9,300	15.21				
WH150XHD	6.050	153.70	6.75	171.45	3.00	76.20	0.63	16.00	2.50	63.50	1.13	28.70	4.63	117.60	1.63	3.91	206,830	93,800	18,200	8,300	17.59				



HD WELDED STEEL DRAG CHAINS

- Cobalt Chains welded steel drag chains can be considered in place of S Series Cast Drag Chains
- Ideal in conditions of high abrasion and heat
- Hard face welding on all sliding surfaces is standard

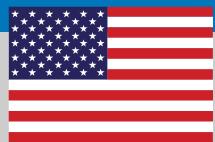


Heavy Duty Welded Steel Drag Chain (WHX)

Chain	Average Pitch		Width		Length of Bearing		Sidebar Thickness		Sidebar Height		Pin Dia		Gearing Width		Rated Working Load		Minimum Ultimate Strength		Weight	
			A		B		T		F		G		D							
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lbs	kg	lbs	kg	lb/ft	kg/mtr
CWHX 5157	6.050	153.67	6.94	176.21	4.63	117.60	0.63	15.88	2.50	63.50	1.13	28.58	2.75	69.85	18,200	8,270	117,000	53,180	25.31	37.46
CWHX 5121**	9.000	228.60	9.75	247.65	6.31	160.27	1.13	28.58	2.50	63.50	1.25	31.75	3.63	92.09	27,600	12,550	205,000	93,180	40.47	60.70
CWHX 6121	9.000	228.60	9.75	247.65	6.31	160.27	1.13	28.58	2.50	63.50	1.25	31.75	3.63	92.09	27,600	12,550	205,000	93,180	40.47	60.70
CWHX 6067	9.000	228.60	8.50	215.90	5.50	139.70	0.75	19.05	2.50	63.50	1.25	31.75	3.63	92.09	24,300	11,045	195,000	86,640	30.43	44.65

* Flight width made to order

** CWHX 5121 and CWHX 6121 are dimensionally the same, except CWHX5121 runs closed end forward

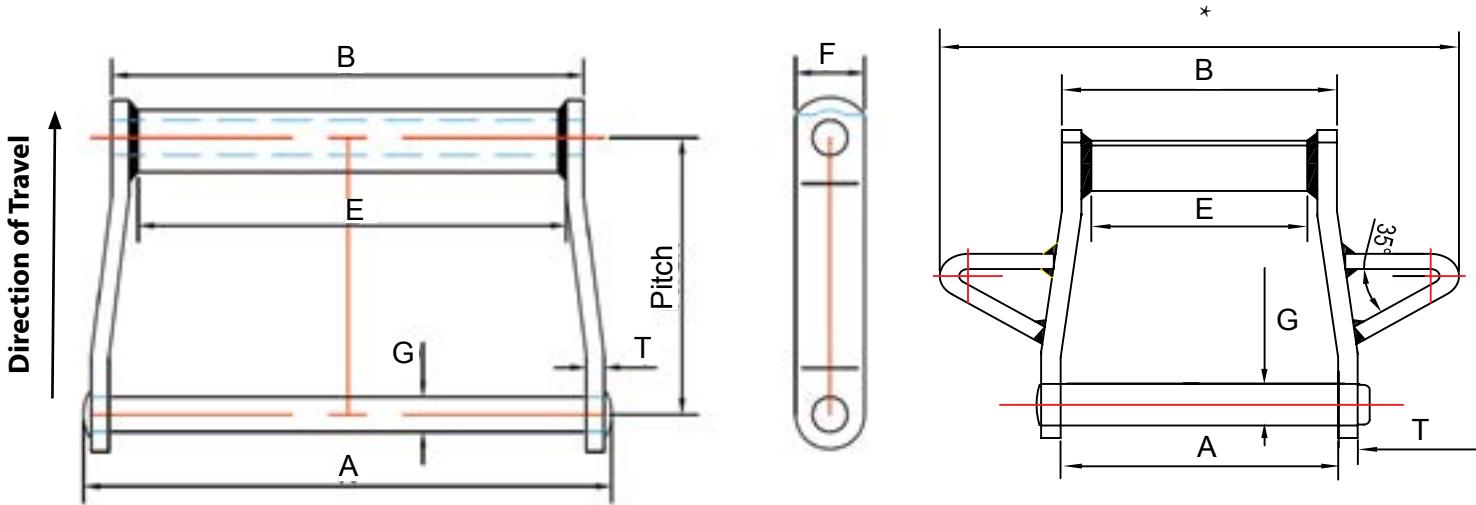


WELDED STEEL DRAG CHAINS

- Side bars - heat treated carbon steel
- Pins & bushes through hardened
- Standard & custom attachments



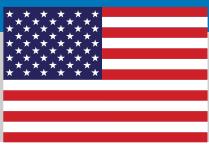
WH132 Log Hauler Chain



WDH Series

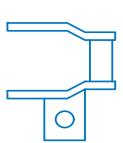
Chain	Pitch		A		E		Sidebar	Pins	B		Minimum Ultimate Strength	Working Load	Weight						
							T	F											
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lbs	kg	lbs	kg	lbs/ft		
CWDH102	5.000	127.00	9.25	234.95	6.38	161.92	0.38	9.50	1.50	38.10	0.75	19.05	7.75	196.90	60,000	27,300	10,000	45,500	11.80
CWDH104	6.000	152.40	6.88	174.63	4.13	104.80	0.38	9.50	1.50	38.10	0.75	19.05	5.38	136.52	60,000	27,300	10,000	45,500	8.50
CWDH110	6.000	152.40	11.88	301.63	9.00	228.60	0.38	9.50	1.50	38.10	0.75	19.05	10.38	263.50	51,000	23,200	8,500	38,000	12.00
CWDH112	8.000	203.20	11.88	301.63	9.00	228.60	0.38	9.50	1.50	38.10	0.75	19.05	10.38	263.50	60,000	23,200	10,000	45,500	10.00
CWDH116	8.006	203.20	15.38	390.52	12.75	323.85	0.38	9.50	1.75	44.45	0.75	19.05	14.13	358.80	69,000	31,500	11,500	52,501	8.50
CWDH120	6.000	152.40	12.13	307.98	8.75	222.25	0.50	12.70	2.00	50.80	0.88	22.22	10.25	260.35	90,000	40,900	15,000	6,800	20.00
CWDH480	8.000	203.20	14.63	371.48	11.19	284.16	0.50	12.70	2.00	50.80	0.88	22.22	12.75	323.85	90,000	40,900	15,000	6,800	18.00
CWDH580	8.000	203.20	14.63	371.48	11.19	284.16	0.50	12.70	2.00	50.80	1.00	25.40	12.75	323.85	123,000	55,900	20,500	9,300	19.40

* Wing width made to order

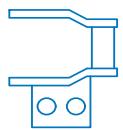


Exceptional Performance, Superior Results

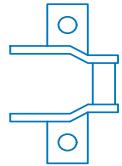
WELDED STEEL ATTACHMENTS



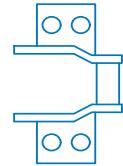
A1



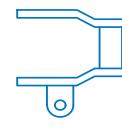
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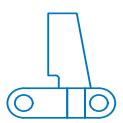
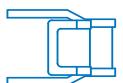
K1



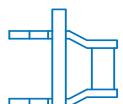
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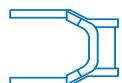
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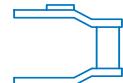
H1



RF2



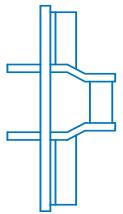
H2



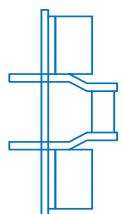
RR



Bar Flight



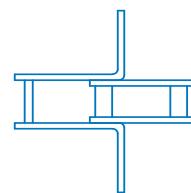
UHMW with
Angle Backer



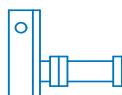
UHMW with
V-cup Flight



Cradle



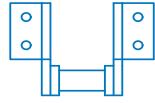
L2



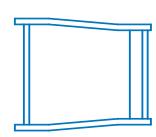
G2



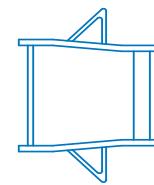
G4



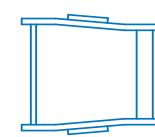
F2



C1, C3 & C4



Wing



A22



E. Cradle

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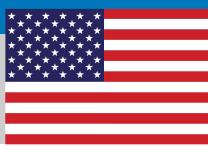


Cast Link Chains

Telephone: 309-698-9250

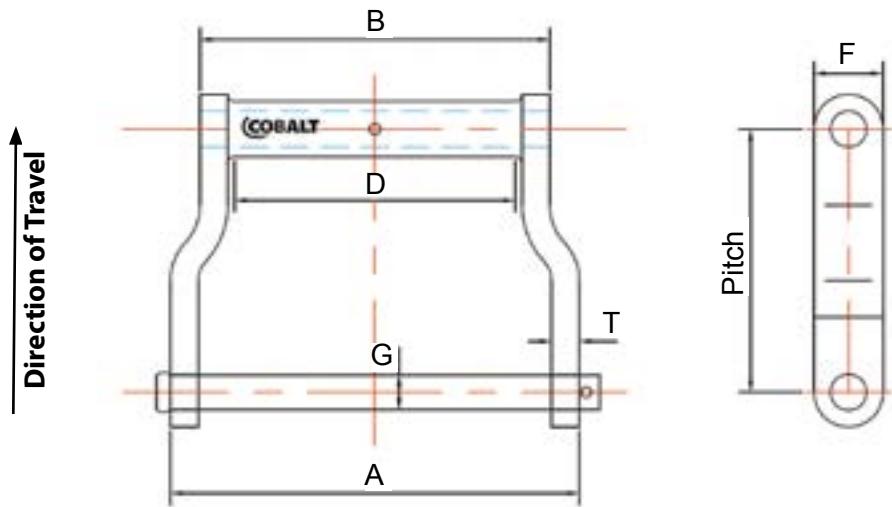


COBALT
a CROMANT chain company



Exceptional Performance, Superior Results

CAST LINK DRAG CHAINS



Cast Drag Chains

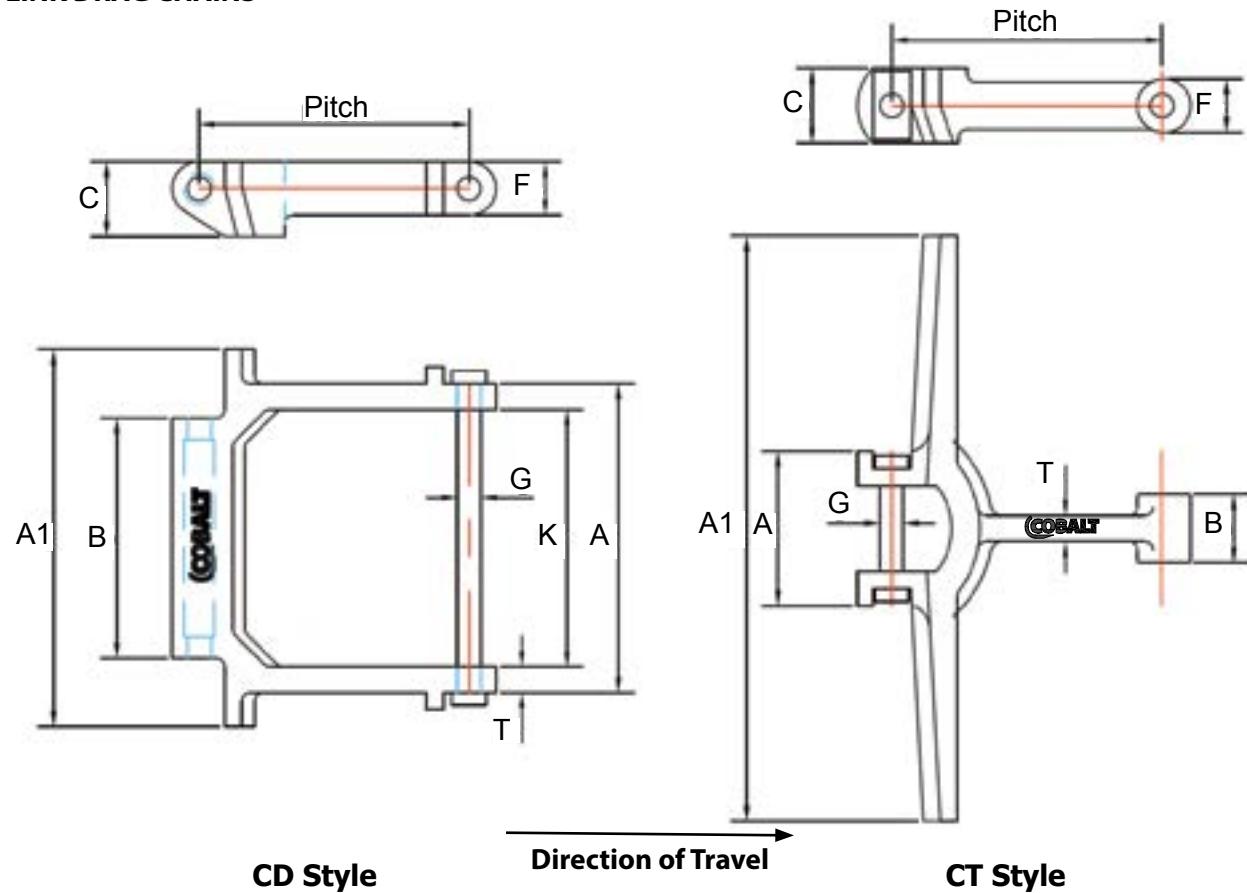
Chain	Pitch		A		B		Sidebars				Pins		Barrel		Minimum Ultimate Strength		Rated Working Load		Weight
							T		F		G		D						
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lbs	kg	lbs	kg	
CH110	6.000	152.40	12.63	320.00	9.00	229.00	0.75	19.05	1.50	38.10	0.75	19.05	9.00	228.60	81,000	37,000	13,500	6,100	18.00
CH132	6.050	153.67	6.50	165.00	3.00	76.20	0.88	22.00	2.00	50.08	1.00	25.40	3.00	76.20	175,000	80,000	30,000	13,800	18.00
CH480	8.000	203.20	14.50	370.00	11.00	280.00	0.88	22.00	2.00	50.08	0.88	22.22	11.00	279.40	145,000	66,000	24,200	11,000	31.00
CH580	8.000	203.20	15.50	394.00	11.00	280.00	0.88	22.00	2.00	50.08	1.00	25.40	11.41	289.81	162,000	74,000	27,000	13,000	33.00

Heavy Duty Cast Drag Chains

Chain	Pitch		A		B		Sidebars				Pins		Barrel		Minimum Ultimate Strength		Rated Working Load		Weight
							Thickness	Height	G		D								
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lbs	kg	lbs	kg	
CWDH120HD	6.000	152.40	12.25	311.00	10.38	263.52	0.63	15.88	2.00	50.80	1.00	25.40	8.75	225.25	125,000	56,800	20,500	9,300	25.60
CWDH480HD	8.000	203.20	15.00	381.00	13.00	330.20	0.63	15.88	2.00	50.80	1.00	25.40	11.00	279.40	125,000	56,800	20,500	9,300	24.60

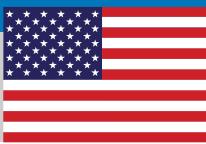


CAST LINK DRAG CHAINS



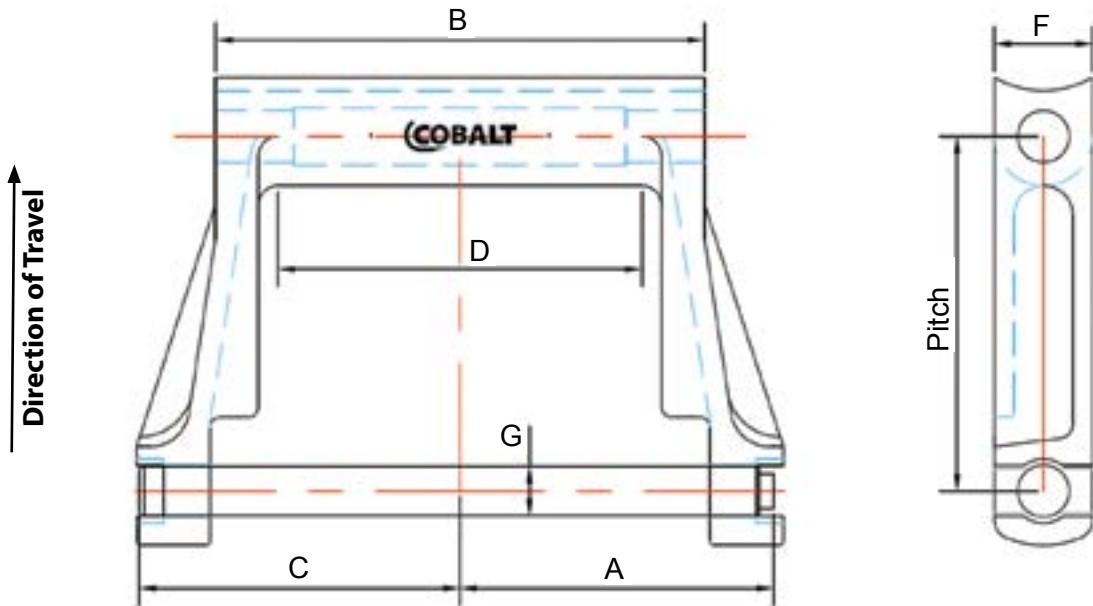
European Standard Cast Link Drag Chain (CD)

Chain	Pitch		Width		Over Flight		Length of Bearing		Sidebar Thickness		Sidebar Height		Overall Height		Pin Dia		Minimum Ultimate Strength		Weight	
			A		A1		B		T		F		C		G					
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lbs	Kg	lbs/ft	kgs/mtr
CT150/40/125	5.91	150	3.39	86	4.92	125	1.57	40	0.59	15	1.25	40	2.00	50	0.69	18	22,400	10,160	8.87	13.20
CT200/50/200	7.875	200	4.00	100	0.46	200	2.00	50	0.79	20	1.25	40	1.75	44	0.69	18	28,000	12,700	8.94	13.30
CT200/50/300	7.875	200	4.00	100	11.81	300	2.00	50	0.79	20	1.25	40	1.75	44	0.69	183	28,000	12,700	10.75	16.00
CT225/50/T250	8.858	225	4.80	122	9.84	250	2.00	50	1.00	25	2.36	60	2.36	60	1.00	25	28,000	12,700	24.06	35.80
CT300/70/660	11.811	300	8.03	204	25.98	660	3.94	100	1.57	40	2.75	70	2.75	70	1.37	35	39,200	17,780	35.90	53.43
CD200/220/T250	7.875	200	8.63	225	9.84	250	7.06	180	0.75	20	1.56	40	2.19	55	0.69	184	62,500	28,400	16.65	24.80
CD200/220/T300	7.875	200	8.63	225	11.81	300	7.06	180	0.75	20	1.56	40	2.19	55	0.69	184	62,500	28,400	19.32	28.80
CD200/220/T450	7.875	200	8.63	225	17.72	450	7.06	180	0.75	20	1.56	40	2.19	55	0.69	184	62,500	28,400	21.43	31.95
CD200/220/T600	7.875	200	8.63	225	23.63	600	7.06	180	0.75	20	1.56	40	2.19	55	0.69	184	62,500	28,400	24.15	36.00
CD200/285/T450	7.875	200	11.25	285	17.72	450	8.69	220	1.19	30	1.97	50	2.56	65	1.00	25	129,500	58,900	31.85	47.50
CD200/285/T500	7.875	200	11.25	285	19.69	500	8.69	220	1.19	30	1.97	50	2.56	65	1.00	25	129,500	58,900	33.47	49.90
CD200/285/T600	7.875	200	11.25	285	23.63	600	8.69	220	1.19	30	1.97	50	2.56	65	1.00	25	129,500	58,900	35.05	52.25
CD300/460/T500	11.813	300	18.31	465	19.69	500	14.97	380	1.56	40	2.75	70	3.34	85	1.44	36	282,000	128,180	55.22	82.00
CD300/460/T600	11.813	300	18.31	465	23.63	600	14.97	380	1.56	40	2.75	70	3.34	85	1.44	36	282,000	128,180	60.02	89.48
CD300/460/T800	11.813	300	18.31	465	31.50	800	14.97	380	1.56	40	2.75	70	3.34	85	1.44	36	282,000	128,180	64.10	95.57
CD400/690/T900	15.750	400	27.19	690	31.50	800	22.81	580	2.19	55	4.13	105	5.31	135	1.75	45	338,700	153,950	78.70	117.33



Exceptional Performance, Superior Results

CAST LINK DRAG CHAINS

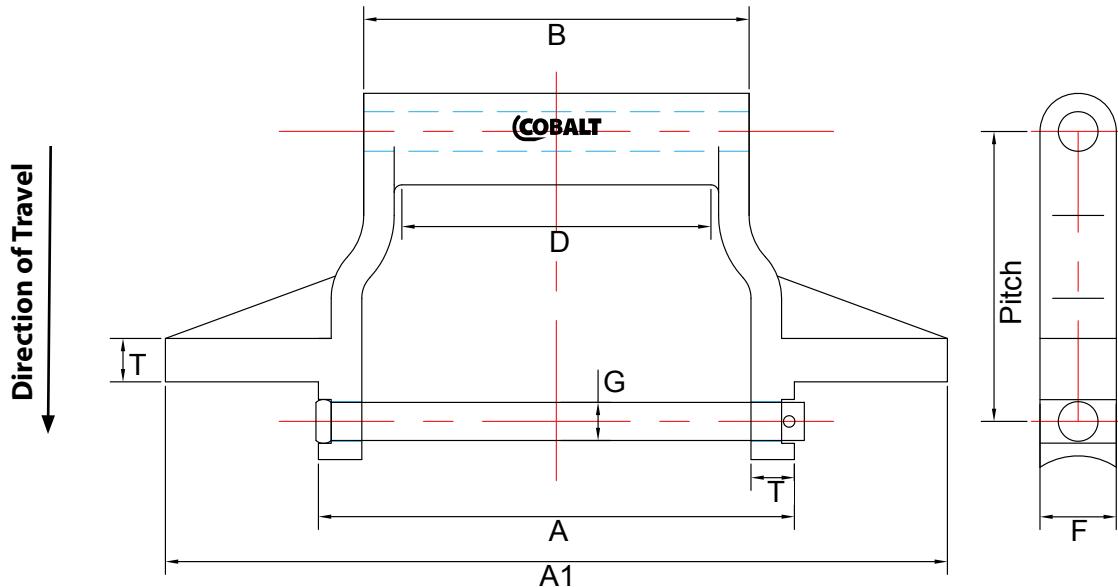


American Standard SD Type Cast Link Drag Chain

Chain	Pitch		Rated Working Load		End Pin to C/L		Head Pin to C/L		Length of Bearing		Sidebar Height		Pin Dia		Gearing Width		Minimum Ultimate Strength		Weight	
	in	mm	lbs	kg	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lbs	kg	lbs/ft	kgs/mtr
CSD21	9.000	228.60	23,400	10,600	8.31	211.14	8.19	207.96	12.44	315.91	2.50	63.50	1.25	31.75	9.50	241.30	182,300	82,850	46.80	69.80
CSD23	9.000	228.60	23,400	10,600	6.00	152.40	6.00	152.40	8.44	214.31	2.50	63.50	1.25	31.75	5.75	146.05	172,800	78,550	41.80	62.30
CSD27	9.000	228.60	20,100	9,150	5.06	128.59	4.94	122.24	6.88	174.63	2.50	63.50	1.13	28.58	4.25	107.95	160,500	72,950	30.70	45.80
CSD28	9.000	228.60	17,600	8,000	8.13	206.38	8.00	203.20	12.81	325.44	2.13	53.98	0.88	22.22	10.13	257.18	139,400	63,360	26.00	38.80
CSD29	9.000	228.60	17,600	8,000	6.13	155.58	6.00	152.40	8.81	223.84	2.13	53.98	0.88	22.22	6.25	158.75	139,400	63,360	20.80	31.01



CAST LINK DRAG CHAINS



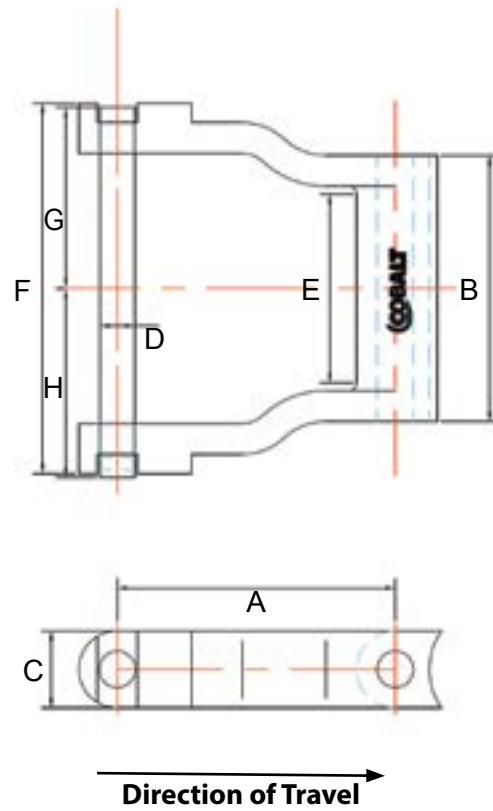
American Standard S Type Cast Link Drag Chain

Chain	Pitch		Width		Over Flight		Length of Bearing		Sidebar Thickness		Sidebar Height		Pin Dia		Gearing Width		Rated Working Load		Minimum Ultimate Strength		Weight	
			A		A1		B		T		F		G		D							
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lbs	kg	lbs	kg	lbs/ft	kg/Mtr
CS5157	6.060	153.92	6.94	176.28	8.14	203.36	4.63	117.60	0.63	15.88	2.50	63.50	1.13	28.58	2.75	69.85	18,200	8,300	144,600	65,730	25.31	37.46
CS5121	9.000	228.60	9.75	247.65	10.30	254.76	6.31	160.27	1.13	28.58	2.50	63.50	1.25	31.75	3.63	92.09	27,600	12,550	218,450	99,290	40.47	60.70
CS6121	9.000	228.60	9.75	247.65	10.30	254.76	6.31	160.27	1.13	28.58	2.50	63.50	1.25	31.75	3.63	92.09	27,600	12,550	218,450	99,290	40.47	60.70
CS6067	9.000	228.60	8.50	215.90	10.26	254.66	5.56	141.22	1.13	28.58	2.50	63.50	1.25	31.75	3.63	92.09	24,320	11,050	178,800	81,270	29.43	44.65



Exceptional Performance, Superior Results

CAST HD CHAINS



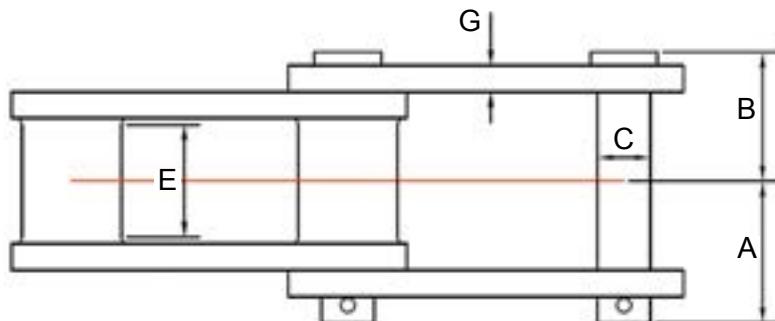
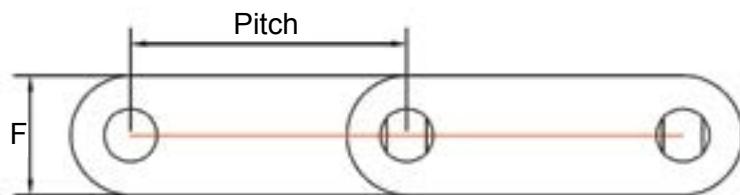
Cast HD Chains

Chain	Style	Pitch	Barrel Length	Sidebar Width	Pin Dia	Max Sprkt. Width	Max O.A. Width	Pin Head to CL	Pin Head to CL	Recom. Working load	Wt. per Pin	Average Ultimate Strength	Weight
		A	B	C	D	E	F	G	H				
		in								lbs		lbs/ft	
C1924	1	5.000	7.63	1.63	0.75	6.00	10.13	4.69	5.06	7,800	0.90	62,000	19.40
C1932	1	6.000	5.25	2.00	1.00	3.75	8.00	4.00	4.00	16,000	1.00	125,900	24.20
C1934	2	6.000	5.31	1.56	0.75	4.13	7.50	3.69	3.81	9,300	2.00	73,850	15.20
C1952	1	9.000	5.13	2.50	1.13	3.00	9.00	4.25	4.63	26,800	2.50	211,700	27.50
C1953	1	9.000	6.88	2.50	1.13	4.75	10.00	4.81	5.00	20,100	3.00	158,800	30.80
C1955	1	9.000	8.50	2.50	1.13	5.75	12.00	5.78	5.97	23,500	3.00	185,200	36.10
C1958	1	9.000	8.50	2.50	1.25	5.75	12.00	5.78	5.97	23,400	4.50	167,900	39.50
C1960	1	9.000	9.25	2.50	1.25	6.50	14.00	6.75	7.13	33,300	4.30	262,600	45.90
C1962	1	9.000	12.44	2.50	1.25	10.25	16.38	7.84	8.34	23,400	5.90	182,300	46.80
C1964	1	9.000	12.69	2.50	1.25	10.00	18.00	8.72	9.03	35,700	6.00	282,000	52.20
C1965	2	9.000	12.44	2.50	1.25	10.25	18.38	7.84	8.34	23,400	6.00	182,300	50.10
C1967	2	9.000	12.69	2.50	1.25	10.00	20.00	8.72	9.03	35,700	6.00	282,000	55.50
C1972	1	12.000	17.88	2.75	1.38	14.38	24.00	11.38	11.88	42,900	10.00	338,700	63.20
C1976	2	12.000	17.88	2.75	1.38	14.38	26.00	11.38	11.88	42,900	10.00	338,700	70.20



COMBINATION CHAINS

Cobalt Chains premium combination chains are most commonly used in light-to-medium duty conveying applications where a durable yet cost effective chain is needed. Combination chains are often utilized for stone, gravel, coal and other abrasive materials. They are manufactured with hardened cast block links and heat-treated steel sidebars and pins to withstand the abuse of industrial applications. Our combination chains are designed and fully tested for dimensional consistency, interchangeability, and correct sprocket engagement.



Chain	Pitch		A		B		C		E		F		G		No. of Links in 10ft.	Minimum Ultimate Strength		Weight	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm		lbs	kg	lbs/ft	kg/mtr
CC55	1.631	41.43	1.09	27.69	0.97	24.64	0.38	9.65	0.69	17.53	0.75	19.05	0.19	4.83	74.00	13,000	5,900	2.20	3.28
CC188	2.609	66.27	1.44	36.58	1.25	31.75	0.50	12.70	0.94	23.88	1.13	28.70	0.25	6.35	46.00	18,900	8,500	3.50	5.22
CC131	3.075	78.11	1.88	47.75	1.62	41.15	0.63	16.00	1.13	28.70	1.50	38.10	0.38	9.65	39.00	32,400	14,700	6.70	10.00
CC102B	4.000	101.60	2.28	57.91	2.06	52.32	0.63	16.00	2.00	50.80	1.50	38.10	0.38	9.65	30.00	33,000	15,000	7.50	11.15
CC111	4.760	120.90	2.72	69.09	2.38	60.45	0.75	19.05	2.38	60.45	1.75	44.45	0.38	9.65	24.00	48,600	22,000	9.30	13.87
CC110	6.000	152.40	2.28	57.91	2.06	52.32	0.63	16.00	1.94	49.27	1.50	38.10	0.38	9.65	20.00	32,400	14,700	5.90	8.79
CC132	6.050	153.67	3.38	85.85	3.06	77.72	1.00	25.40	3.04	77.22	2.00	50.80	0.50	12.70	20.00	67,500	30,600	13.10	19.52

The tabular dimensions and weights are approximate and are not binding. Design improvements may result in variations from the published figures and verification is recommended.



Exceptional Performance, Superior Results

KILN HEAT RECOVERY CHAINS

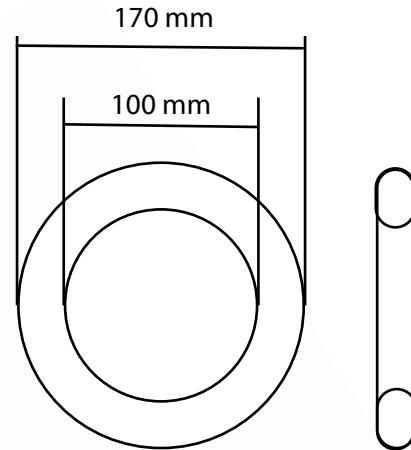


Length to Customer Specification



Material & Heat Treatment

- BS 970 Part 4 Stainless Steel Grade 352S54 Type Cr Mn Ni 2 1/4N+Nb S Bearing
- Austenitic Stainless Steel (20-23% Cr, 3-5% Ni, 7-10% Mn, Max)
- Ambient to 960°C to 1030°C Metal Temperature (1750°F to 1900°F)
- Other steel compositions available including ferritic steels, austenitic Cr-Ni steels, and austenitic manganese steel.



Exceptional Performance, Superior Results

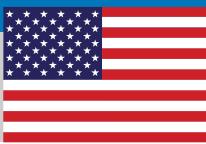


Engineered Steel Chains

Telephone: 309-698-9250

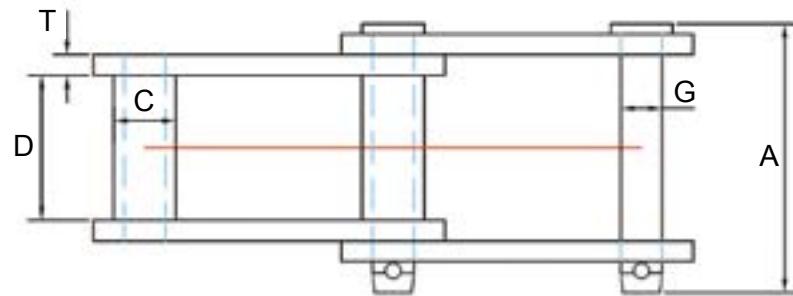
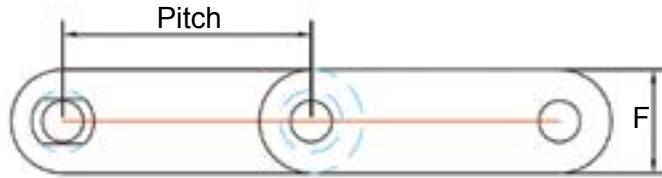


COBALT
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Exceptional Performance, Superior Results

Mill Duty Bucket Elevator Chains

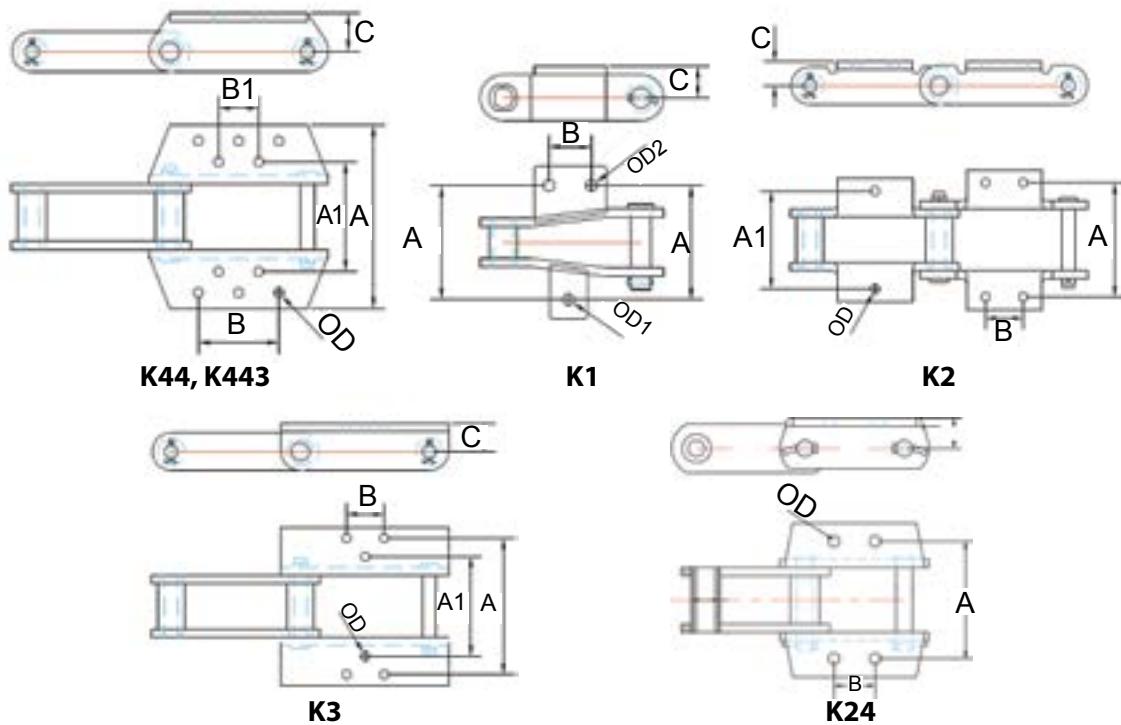


Mill Duty Bucket Elevator Chains

Chain	Pitch		Pin Length		Pin Dia		Bush Dia		Gearing Width		Sidebar Height		Sidebar Thickness		Minimum Ultimate Strength	Rated Working Load		Weight		
			A		G		C		D		F		T							
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lbs	kg	lbs	kg	lbs/ft	kgs/mtr
CSB188	2.609	66.27	2.69	68.26	0.50	12.70	0.88	22.22	1.06	26.99	1.13	30.00	0.25	6.00	25,000	11,364	2,740	1,250	3.80	5.70
CSB131	3.075	78.10	3.50	88.90	0.63	15.88	1.25	31.75	1.31	33.34	1.50	40.00	0.38	10.00	40,000	18,180	4,450	2,020	7.40	11.00
CSB102B	4.000	101.60	4.38	111.13	0.63	15.88	1.00	25.40	2.13	53.98	1.50	40.00	0.38	10.00	40,000	18,180	6,300	2,850	6.90	10.30
CSB111	4.760	120.90	4.94	125.48	0.75	19.05	1.44	36.51	2.625	66.68	2.00	50.8	0.38	10.00	50,000	22,680	8,850	4,015	10.20	15.20
CSB110	6.000	152.40	4.38	111.13	0.63	15.88	1.25	31.75	2.13	53.98	1.50	40.00	0.38	10.00	40,000	18,180	6,300	2,850	6.30	9.40
CSB856	6.000	152.40	6.00	152.40	1.00	25.40	1.75	44.50	3.00	76.20	2.50	65.00	0.50	10.00	100,000	45,450	14,000	6,360	16.50	24.60
CSB857	6.000	152.40	6.00	152.40	1.00	25.40	1.75	44.50	3.00	76.20	3.25	80.00	0.50	10.00	130,000	59,090	14,000	6,360	21.00	31.30
CSB859	6.000	152.40	7.63	193.68	1.25	31.75	2.38	60.33	3.75	95.25	4.00	100.00	0.63	16.00	200,000	90,900	22,000	10,000	34.00	50.70
CSB956	6.000	152.40	6.44	163.58	1.00	25.40	1.75	44.45	3.00	76.20	3.00	76.20	0.50	12.70	100,000	45,450	14,000	6,360	16.60	24.70
CSB958	6.000	152.40	6.44	163.58	1.13	28.70	2.00	50.80	3.00	76.20	3.25	82.55	0.56	14.22	100,000	45,450	16,300	7,394	21.00	31.25
CSB6150	6.050	153.67	6.63	168.28	1.00	25.40	1.75	44.50	3.38	85.73	2.50	65.00	0.50	10.00	100,000	45,450	15,000	6,800	16.60	24.75
CSB864	7.000	177.80	7.63	193.68	1.25	31.75	2.38	60.33	3.75	95.25	4.00	100.00	0.63	16.00	200,000	90,900	22,000	10,000	33.00	49.20
CSB984	7.000	177.80	7.74	196.60	1.38	35.05	2.50	63.50	3.75	95.25	4.00	101.60	0.62	15.75	155,000	70,307	24,000	10,886	33.00	49.20



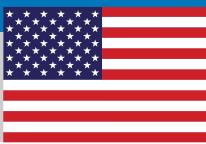
Mill Duty Bucket Elevator Chains



Mill Duty Elevator Chain Attachment Detail

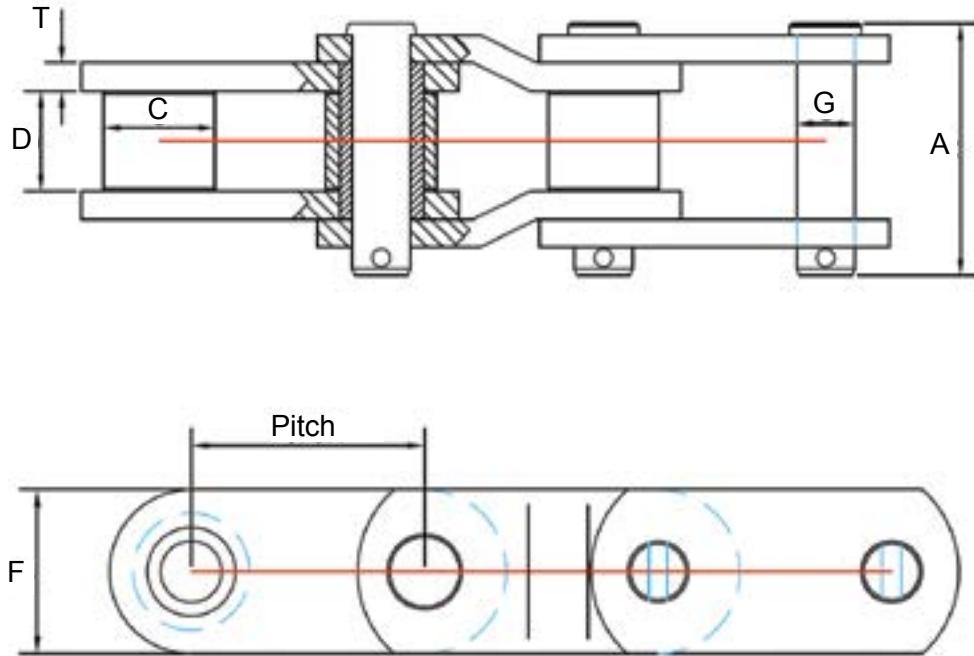
Chain	Style	No. of Holes	Transverse Hole Centres				Longitudinal Hole Centres				Platform Height		Bolt Diameter	
			A		A1		B		B1		C		OD	
			in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
CSB188	K1	2	4.19	106.36			1.25	31.75			0.81	20.64	0.38	9.53
	K2	4	4.19	106.36			1.25	31.75			0.81	20.64	0.38	9.53
CSB131	K1	2	4.13	104.78			1.50	38.10			1.00	25.40	0.50	12.70
	K2	4	4.13	104.78			1.50	38.10			1.00	25.40	0.50	12.70
CSB102B	K2	4	5.31	134.94			1.75	44.45			1.00	25.40	0.38	9.53
CSB111	K1	2	6.25	158.75			4.75	120.65			1.50	38.10	0.38	9.53
	K2	4	6.25	158.75			2.31	58.74			1.50	38.10	0.38	9.53
CSB110	K2	4	5.31	134.94			1.75	44.45			1.88	47.63	0.38	9.53
CSB6150	K2	4	7.50	190.50			2.75	69.85			1.88	47.63	0.50	12.70
CSB1084	K2	4	13.00	330.20	13.00	330.20	5.50	139.70			3.00	76.20	0.69	17.50
CSB856	K24	4	7.25	184.15			2.50	63.50			1.88	47.63	0.63	15.88
CSB956	K24	4	7.25	184.15			2.50	63.50			1.88	47.63	0.69	17.50
CSB857	K44	8	12.00	304.80	7.00	177.80	3.50	88.90	3.50	89.00	2.50	63.50	0.50	12.70
CSB859	K44	8	13.00	320.20	9.00	228.60	4.50	114.30	2.75	69.85	3.00	76.20	0.63	15.88
CSB958	K44	8	12.00	304.80	7.00	177.80	3.50	88.90	3.50	89.00	2.50	63.50	0.56	14.20
CSB864	K443	10	13.00	320.20	9.00	228.60	5.50	139.70	3.75	95.25	3.00	76.20	0.69	17.50
CSB984	K443	10	13.00	320.20	9.00	228.60	5.50	139.70	3.75	95.25	3.00	76.20	0.69	17.50

Note: Various styles of attachment available. Details available upon application.



Exceptional Performance, Superior Results

ASPHALT DRAG CHAINS

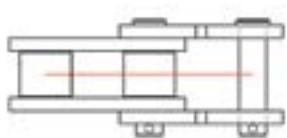
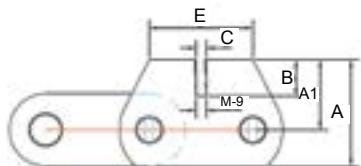


Asphalt Drag Chains

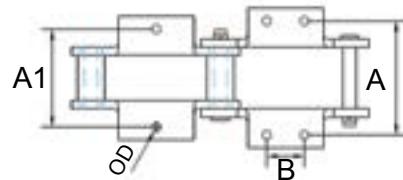
Chain	Pitch		Pin Length		Pin Dia		Roller Dia		Gearing Width		Sidebar Height		Sidebar Thickness		Minimum Ultimate Strength		Rated Working Load		Weight	
			A		G		C		D		F		T							
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lbs	kg	lbs	kg	lbs/ft	kgs/mtr
C2102	4.000	101.60	4.50	114.30	0.63	15.88	1.50	38.10	2.22	56.36	1.50	40.00	0.38	10.00	56,500	25,700	6,500	2,950	9.00	13.42
C2268	4.038	102.57	4.25	107.95	0.75	19.05	1.63	41.25	2.00	50.80	2.25	60.00	0.38	10.00	100,000	45,450	7,200	3,270	11.00	16.40
C2856	6.000	152.40	6.00	152.40	1.00	25.40	2.75	69.85	3.00	76.20	2.50	65.00	0.50	12.00	143,000	65,000	14,000	6,360	21.30	31.75
C2860	6.000	152.40	6.00	152.40	1.00	25.40	2.75	69.85	3.00	76.20	2.50	65.00	0.50	12.00	143,000	65,000	14,000	6,360	21.30	31.75
C2866	6.000	152.40	6.00	152.40	1.00	25.40	2.75	69.85	3.00	76.20	2.75	70.00	0.50	12.00	149,000	67,700	14,000	6,360	22.10	32.95
C3940	6.000	152.40	4.25	107.95	0.75	19.05	1.63	41.25	2.00	50.80	2.25	60.00	0.38	10.00	90,000	40,900	7,200	3,270	7.80	11.60
C3945	4.000	101.60	4.19	106.36	0.63	15.88	1.25	31.75	2.00	50.80	1.50	40.00	0.31	8.00	45,000	20,450	5,700	2,590	8.50	12.70
C3950	4.038	102.57	4.19	106.36	0.63	15.88	1.38	34.93	2.00	50.80	1.50	40.00	0.31	8.00	45,000	20,450	5,700	2,590	8.95	13.35
C3952	4.000	101.60	4.25	107.95	0.75	19.05	1.44	36.51	2.00	50.80	1.25	30.00	0.38	10.00	62,000	28,200	8,200	3,730	9.00	13.42
C4604	4.604	116.94	4.19	106.36	0.63	15.88	1.38	34.93	2.00	50.80	1.50	40.00	0.31	8.00	45,000	20,450	5,700	2,590	8.70	13.00



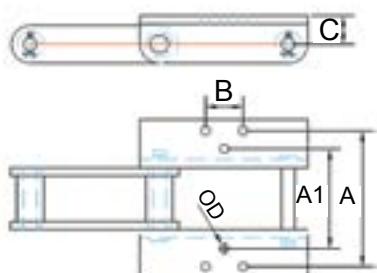
ASPHALT DRAG CHAINS



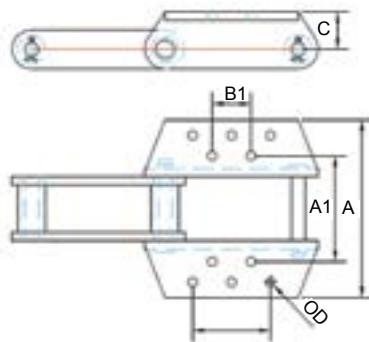
M1 & M9



K2



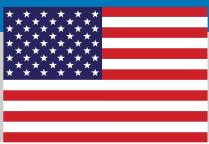
K3



K24

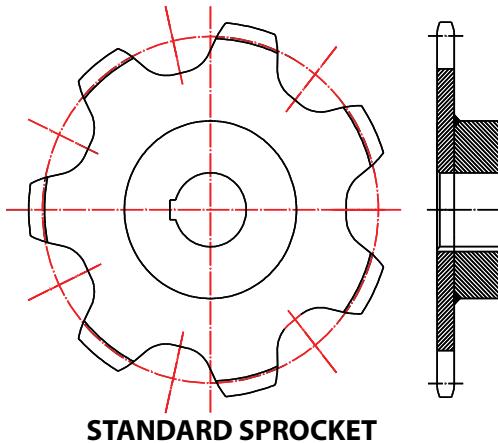
Drag Slat Chain Attachment Detail

Chain	Style	A		A1		B		C		OD (R)		E (M)	
		in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
C2102	K2	5.31	134.94			1.75	44.45	1.13	28.58	0.50	12.00		
	M1					2.38	60.33	0.56	14.29			4.01	102.00
C2268	K2	5.25	133.35					2.00	50.80	0.50	12.00		
C2856	K2 (SP)	7.25	184.15					1.88	47.63	0.63	16.00		
C2860	K24	7.25	184.15	4.75	120.65	2.50	63.50	1.88	47.63	0.63	16.00		
	M1	6.00	152.40	3.63	92.08	2.75	69.85	0.81	20.64			6.75	171.45
C2866	M1	5.00	127.00	3.63	92.08	2.38	60.33	0.81	20.64			3.06	77.78
	M9	5.00	127.00			2.38	60.33	0.81	20.64			3.06	77.78
C3940	K2	6.25	158.75			2.31	58.74	2.00	50.80	0.50	12.00		
C3945	K2	5.31	139.94			1.75	44.45	1.38	34.93	0.50	12.00		
	K3	5.31	139.94	4.75	120.65	1.75	44.45	1.38	34.93	0.38	10.00		
C3950	K3	5.31	139.94	4.75	120.65	1.14	39.69	1.38	34.93	0.38	10.00		
C3952	K2	5.50	139.70			1.94	49.21	1.63	41.28	0.38	10.00		
	K3	5.50	139.70	4.75	120.65	1.75	44.45	1.63	41.28	0.38	10.00		
C4604	K3	5.31	139.94	4.75	120.65	1.75	44.45	1.63	41.28	0.38	10.00		

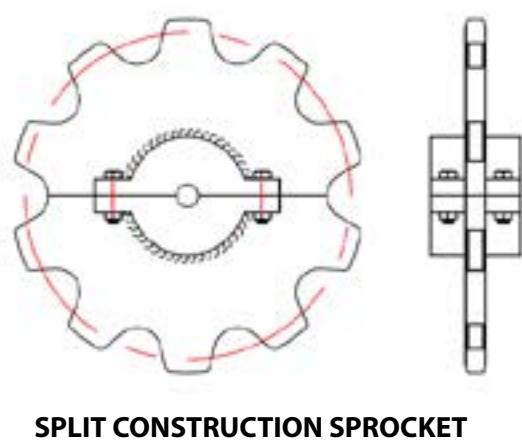


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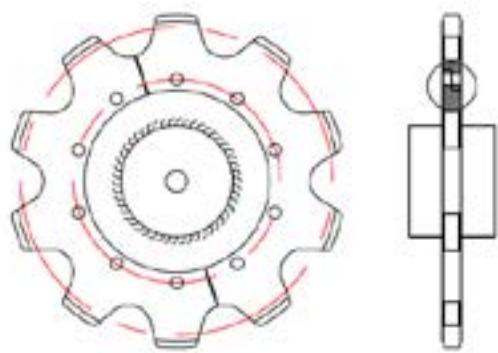
ENGINEERING CLASS SPROCKETS



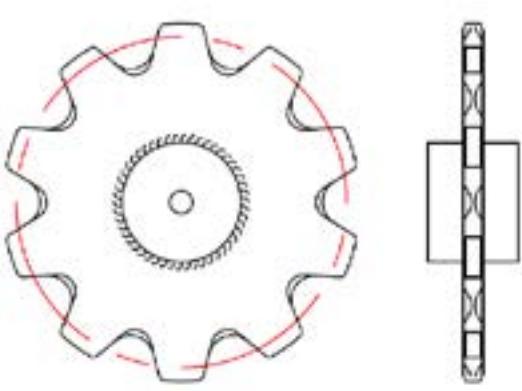
STANDARD SPROCKET



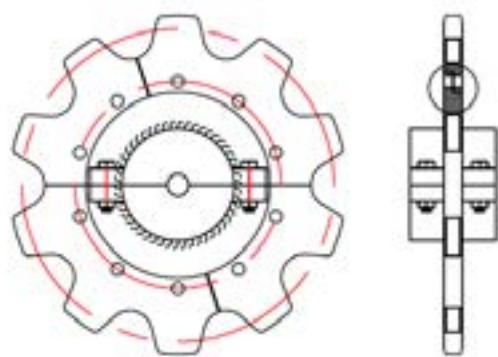
SPLIT CONSTRUCTION SPROCKET



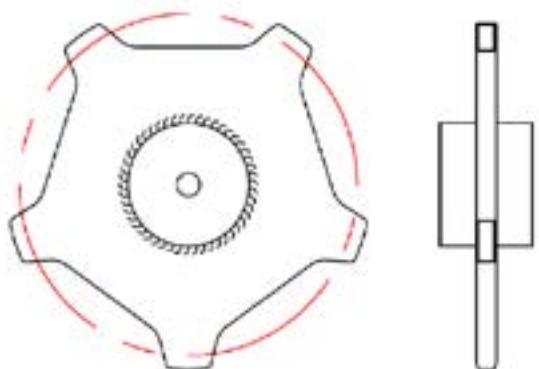
SEGMENTAL CONSTRUCTION SPROCKET



MUD RELIEF TOOTH FORM



SEGMENTAL SPLIT CONSTRUCTION
SPROCKET



JUMP TOOTH

Exceptional Performance, Superior Results



Steel Pintle Chains

Telephone: 309-698-9250



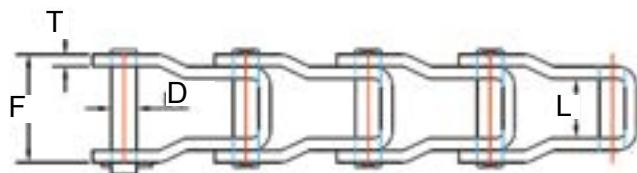
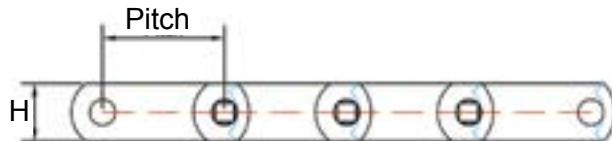
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a CROMANT chain company



Exceptional Performance, Superior Results

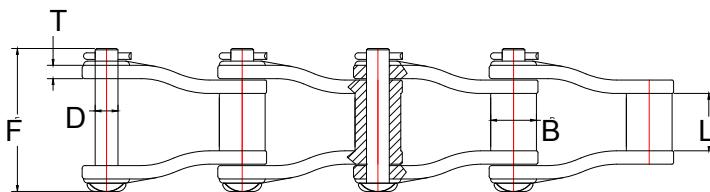
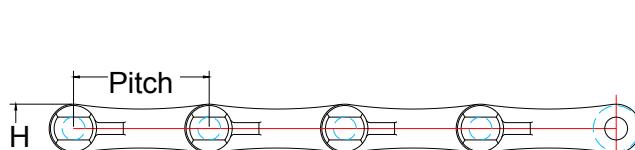
STEEL PINTLE CHAINS

Cobalt Chains steel pintle chains are utilized in a wide range of applications such as fertilizer, feed systems and hay handling equipment. Our pintle chains feature a single-piece alloy link, heat-treated with the most modern techniques and "quad-staked", riveted pins. The open barrel design eliminates material build-up in both the connection points and root of the sprocket teeth ensuring smooth operation, uniform wear, and resistance to fatigue. Most common sizes are available from inventory.



Steel Pintle Chains

Chain	Pitch	Overall Width	Inside Width	Pin Diameter	Height	Sidebar Thickness	Min. Average Tensile Strength	Weight
	P	F	L	D	H	T	lbs	lbs/ft
	In							
CP662	1.664	1.63	0.91	0.281	0.72	0.13	8,500	1.05
CP667H	2.313	1.73	1.00	0.312	0.88	0.13	9,500	1.17
CP667X	2.250	1.95	1.06	0.437	0.94	0.17	15,000	1.86
CP667K	2.250	2.13	1.08	0.437	1.06	0.20	25,000	2.50
CP667XH	2.250	2.31	1.08	0.469	1.06	0.22	26,000	2.80
CP88K	2.609	2.13	1.08	0.437	1.06	0.20	20,000	2.30
CP88XH	2.609	2.64	1.25	0.500	1.13	0.25	30,000	3.32
CP88C	2.609	2.543	1.00	0.500	1.34	0.25	38,000	3.32



400 Class Cast Pintle Chains

Chain	Pitch	Overall Width	Inside Width	Pin Diameter	Barrel Diameter	Height	Sidebar Thickness	Min. Average Tensile Strength	Weight
	P	F	L	D	B	H	T	lbs	lbs/ft
	In								
CP442	1.375	1.875	0.620	0.310	0.56	0.750	0.22	6,000	1.40
CP445	1.630	1.875	0.690	0.310	0.62	0.750	0.19	6,000	1.50
CP452	1.506	2.060	0.620	0.375	0.69	0.838	0.24	7,000	2.00
CP455	1.630	2.060	0.690	0.375	0.62	0.838	0.22	7,500	1.90
CP462	1.634	2.375	0.880	0.438	0.72	0.938	0.28	9,000	2.50
CP477	2.308	2.250	0.690	0.438	0.72	1.000	0.28	9,600	2.00
CP488	2.609	2.750	0.940	0.438	0.88	0.938	0.34	11,000	2.90
CP4103	3.075	3.250	1.120	0.750	1.25	1.500	0.38	22,000	5.70

Exceptional Performance, Superior Results



Standard ISO/DIN Metric Chains

Telephone: 309-698-9250

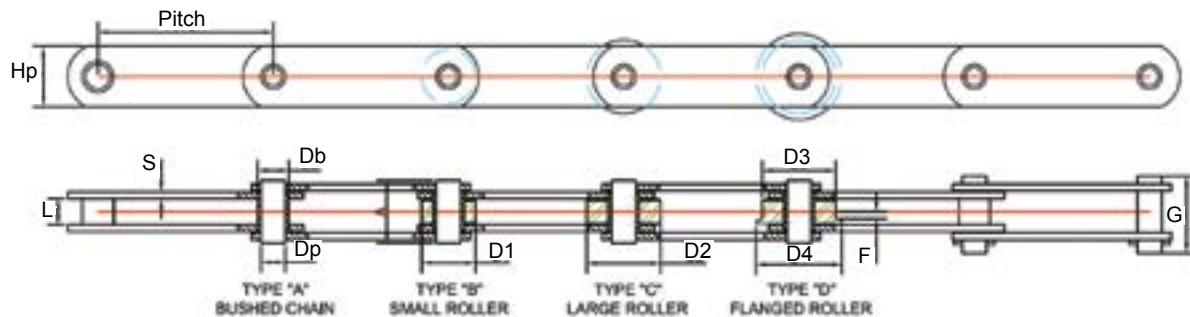


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STANDARD METRIC CHAINS ISO 1977



Chain	P	L	D1	D2	D3	D4	F	Db	Dp	Hp	S	A	G	Breaking Load	Weight
	mm													kN	kg/m
CM 40/063/P	63	19.00					4.50							70	2.29
CM 40/080/P	80														2.11
CM 40/100/P	100														1.97
CM 40/125/P	125														1.86
CM 40/160/P	160														1.76
CM 40/200/P	200														1.70
CM 40/250/P	250														1.63
CM 56/063/P	63	24.00					5.00							100	3.50
CM 56/080/P	80														3.20
CM 56/100/P	100														2.90
CM 56/125/P	125														2.70
CM 56/160/P	160														2.50
CM 56/200/P	200														2.40
CM 56/250/P	250														2.30
CM 80/080/P	80	28.00					7.00							125	4.51
CM 80/100/P	100														4.13
CM 80/125/P	125														3.83
CM 80/160/P	160														3.57
CM 80/200/P	200														3.38
CM 80/250/P	250														3.32
CM 80/315/P	315														3.20
CM 112/080/P	80	32.00					7.50							175	6.30
CM 112/100/P	100														5.60
CM 112/125/P	125														5.80
CM 112/160/P	160														5.37
CM 112/200/P	200														4.63
CM 112/250/P	250														4.43
CM 112/315/P	315														4.10
CM 112/400/P	400														3.90



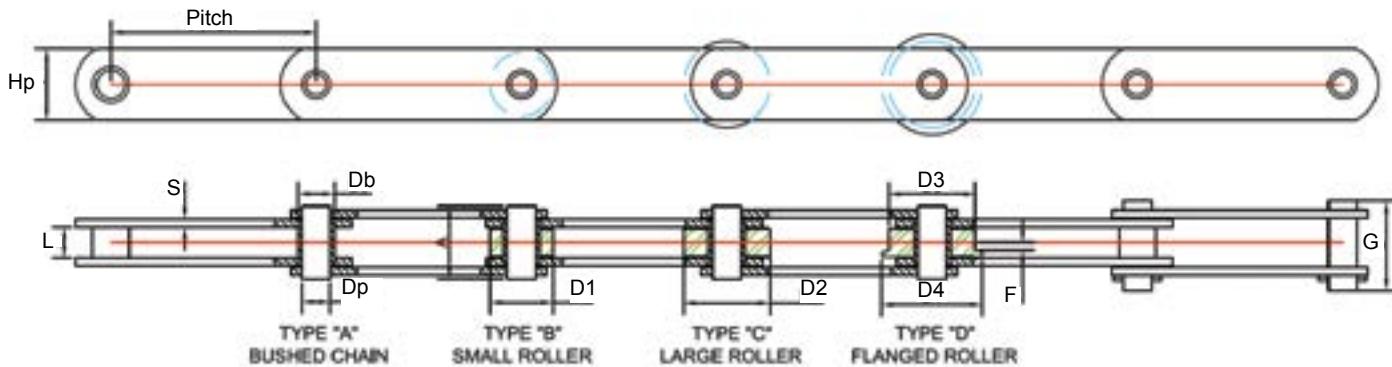
STANDARD METRIC CHAINS ISO 1977

Chain	P	L	D1	D2	D3	D4	F	Db	Dp	Hp	S	A	G	Breaking Load	Weight
	mm													kN	kg/m
CM 160/100/P	100	37.00	36.00	70.00	70.00	90.00	8.50	25.00	18.00	50.00	7.00	73.00	80.00	260	9.80
CM 160/125/P	125														8.50
CM 160/160/P	160														7.80
CM 160/200/P	200														7.30
CM 160/250/P	250														6.90
CM 160/315/P	315														6.57
CM 160/400/P	400														6.30
CM 224/125/P	125	43.00	42.00	85.00	85.00	105.00	10.00	30.00	21.00	60.00	8.00	84.00	90.00	340	12.30
CM 224/160/P	160														11.10
CM 224/200/P	200														10.20
CM 224/250/P	250														9.60
CM 224/315/P	315														8.98
CM 224/400/P	400														8.50
CM 224/500/P	500														8.10
CM 315/160/P	160	48.00	50.00	100.00	100.00	125.00	12.00	36.00	25.00	70.00	10.00	97.00	107.00	520	19.20
CM 315/200/P	200														16.70
CM 315/250/P	250														15.60
CM 315/315/P	315														14.70
CM 315/400/P	400														13.80
CM 315/500/P	500														13.20
CM 450/200/P	200	56.00	60.00	120.00	120.00	150.00	14.00	42.00	30.00	80.00	12.00	114.00	126.00	700	23.90
CM 450/250/P	250														22.12
CM 450/315/P	315														20.65
CM 450/400/P	400														19.45
CM 450/500/P	500														18.56
CM 450/630/P	630														17.83
CM 630/250/P	250	66.00	70.00	140.00	140.00	170.00	16.00	50.00	36.00	100.00	15.00	136.00	150.00	1,050	35.28
CM 630/315/P	315														32.53
CM 630/400/P	400														30.30
CM 630/500/P	500														28.64
CM 630/630/P	630														27.27
CM 630/800/P	800														26.15
M 900/250/P	250	78.00	85.00	170.00	170.00	210.00	18.00	60.00	44.00	120.00	15.00	150.00	165.00	1,250	53.20
M 900/315/P	315														48.20
M 900/400/P	400														44.50
M 900/500/P	500														41.60
M 900/630/P	630														39.20
M 900/800/P	800														37.25



Exceptional Performance, Superior Results

STANDARD METRIC CHAINS DIN 8165



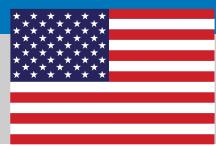
FV Series as DIN 8165

Chain	P	L	D1	D2	D3	D4	F	Db	Dp	Hp	S	A	G	Breaking Load	Weight
	mm													kN	kg/m
CFV 40/040/P	40													2.59	
CFV 40/063/P	63	18.00	20.00	32.00	40.00	48.00	4.50	15.00	10.00	25.00	3.00	36.00	41.00	40.00	2.08
CFV 40/100/P	100													1.76	
CFV 63/063/P	63													3.46	
CFV 63/100/P	100	22.00	26.00	40.00	50.00	60.00	5.50	18.00	12.00	30.00	4.00	44.00	50.00	70.00	2.92
CFV 63/125/P	125													2.67	
CFV 63/160/P	160													2.45	
CFV 90/063/P	63													5.72	
CFV 90/100/P	100	25.00	30.00	48.00	63.00	78.00	5.50	20.00	14.00	35.00	5.00	52.00	58.00	100.00	4.67
CFV 90/125/P	125													4.35	
CFV 90/160/P	160													3.87	
CFV 90/200/P	200													3.50	
CFV 90/220/P	220													3.45	
CFV 112/100/P	100	30.00	32.00	55.00	72.00	90.00	7.00	22.00	16.00	40.00	6.00	62.00	68.00	120.00	6.11
CFV 112/125/P	125													5.85	
CFV 112/160/P	160													5.26	
CFV 112/200/P	200													5.00	
CFV 112/250/P	250													4.72	
CFV 140/100/P	100	35.00	36.00	60.00	80.00	100.00	8.00	26.00	18.00	45.00	6.00	67.00	74.00	145.00	7.38
CFV 140/125/P	125													6.78	
CFV 140/160/P	160													6.56	
CFV 140/200/P	200													5.82	
CFV 140/250/P	250													5.48	
CFV 140/315/P	315													5.31	



STANDARD METRIC CHAINS DIN 8165

Chain	P	L	D1	D2	D3	D4	F	Db	Dp	Hp	S	A	G	Breaking Load	Weight
	mm													kN	kg/m
CFV 180/125/P	125	45.00	42.00	70.00	100.00	125.00	9.00	30.00	20.00	50.00	8.00	86.00	94.00	190.00	10.70
CFV 180/160/P	160														9.72
CFV 180/200/P	200														9.12
CFV 180/250/P	250														8.51
CFV 180/315/P	315														8.20
CFV 180/400/P	400														7.69
CFV 250/125/P	125	55.00	50.00	80.00	125.00	155.00	12.00	36.00	26.00	60.00	8.00	96.00	106.00	275.00	14.30
CFV 250/160/P	160														13.00
CFV 250/200/P	200														11.80
CFV 250/250/P	250														10.80
CFV 250/315/P	315														10.00
CFV 250/400/P	400														9.80
CFV 315/160/P	160	65.00	60.00	90.00	140.00	170.00	14.00	42.00	30.00	70.00	10.00	114.00	125.00	315.00	20.04
CFV 315/200/P	200														18.24
CFV 315/250/P	250														16.79
CFV 315/315/P	315														15.53
CFV 315/400/P	400														14.56
CFV 400/160/P	160	70.00	60.00	100.00	150.00	180.00	14.00	44.00	32.00	70.00	12.00	128.00	140.00	400.00	24.16
CFV 400/200/P	200														21.91
CFV 400/250/P	250														20.17
CFV 400/315/P	315														18.73
CFV 400/400/P	400														17.62
CFV 500/160/P	160	80.00	70.00	110.00	160.00	190.00	18.00	50.00	36.00	80.00	12.00	138.00	150.00	500.00	30.04
CFV 500/200/P	200														27.04
CFV 500/250/P	250														24.65
CFV 500/315/P	315														22.68
CFV 500/400/P	400														21.20
CFV 500/500/P	500														19.98
CFV 630/200/P	200	90.00	80.00	120.00	170.00	200.00	22.00	56.00	42.00	100.00	12.00	148.00	162.00	630.00	36.45
CFV 630/250/P	250														32.93
CFV 630/315/P	315														30.02
CFV 630/400/P	400														27.65
CFV 630/500/P	500														26.09



Exceptional Performance, Superior Results



Exceptional Performance, Superior Results

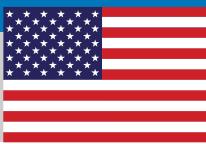


Environmental Chains

Telephone: 309-698-9250

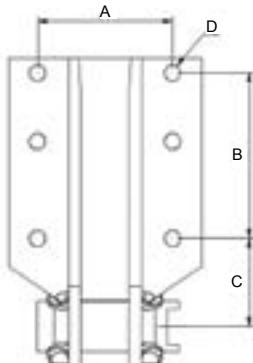
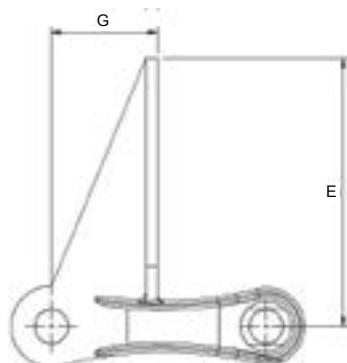
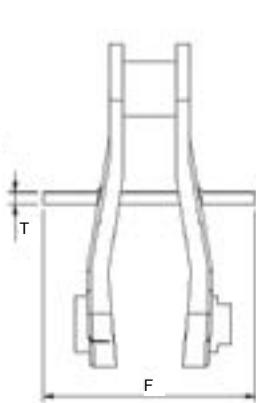


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ENVIRONMENTAL CHAINS



Clarifier Chain Attachment Details

Chain	Material	A	B	B	C	D	E	E	F	F	G	T	Average Ultimate Strength	Working Load	Weight
			F22-6	F22-8			F22-6	F22-8	F22-6	F22-8			lbs	lbs	lbs/ft
C720	CS	3.75	2.63	4.50	2.38	0.38	6.13	8.13	5.50	5.50	3.00	0.31	27,500	4,025	11.80
C720S	CS	3.75	2.63	4.50	2.38	0.38	6.13	8.13	5.38	5.50	3.00	0.31	37,500	4,425	13.30
C720SC	CS	3.75	2.63	4.50	2.38	0.38	6.13	8.13	5.63	5.63	3.00	0.31	37,500	4,425	14.00
C730SC	CS	3.75	2.63	4.50	2.38	0.38	6.13	8.13	5.63	5.63	3.00	0.31	37,500	4,425	15.60

Note: F2 Attachment also available on CS Chains

CWH720S	WS	3.75	2.63	4.50	2.38	0.38	6.00	7.88	5.00	5.50	3.00	0.25	42,500	5,300	10.70
CSS720	SS	3.75	2.63	4.50	2.38	0.56	6.19	7.88	5.50	5.63	3.00	0.25	42,500	5,300	13.10
CPM720S	PM	3.75	2.63	4.50	2.38	0.38	6.13	7.88	5.50	5.63	3.00	0.31	6,000	2,600	1.34

Collector Drive Chain

Chain	Material	A	B	B	C	D	E	F	G	T	Average Ultimate Strength	Working Load	Weight
			PITCH	PITCH			PITCH	PITCH	PITCH		lbs	lbs	lbs/ft
CPM78	PM	2.94	PITCH	2.61	0.44	0.88	0.94	1.13	11.50	N/A	4,000	1,750	1.40
CPM82	PM	3.31	PITCH	3.08	0.25	1.25	1.13	1.50	13.70	N/A	5,000	2,100	2.20
CSS78/C	SS	2.56	PITCH	2.61	0.50	0.88	1.13	1.25	N/A	0.25	24,000	2,500	3.80

For carrying shoes, spacers, flights and skimmers.

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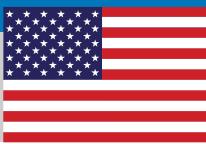


Drop Forged Rivetless Chains

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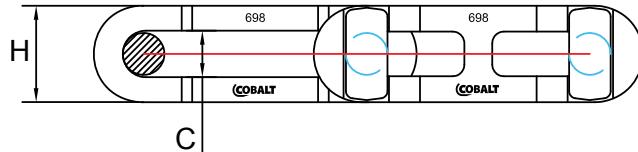
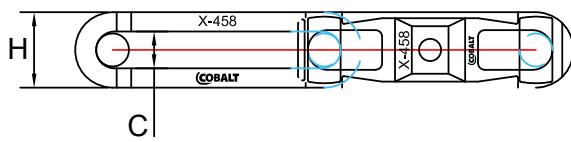
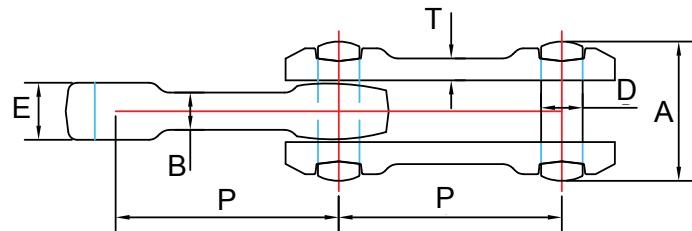
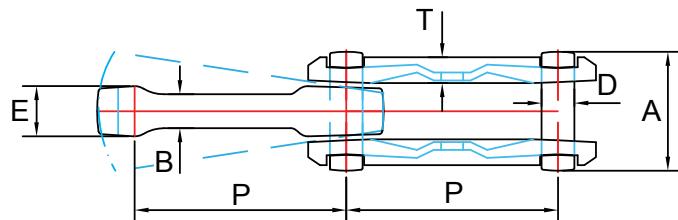


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DROP FORGED RIVETLESS CHAINS FOR FEED & WASHING TABLES

Cobalt Chains drop forged rivetless chains are typically used as overhead conveyors on automotive assembly lines, paint lines, appliance assembly lines, sugar mills and in the meat packaging industry.

These chains have no rotating parts, therefore suffer less from the abrasion caused by sand/dirt, that can come into the mill with the cane. All parts are heat-treated and "T" pins ensure positive locking action in the sidebars.



X Type

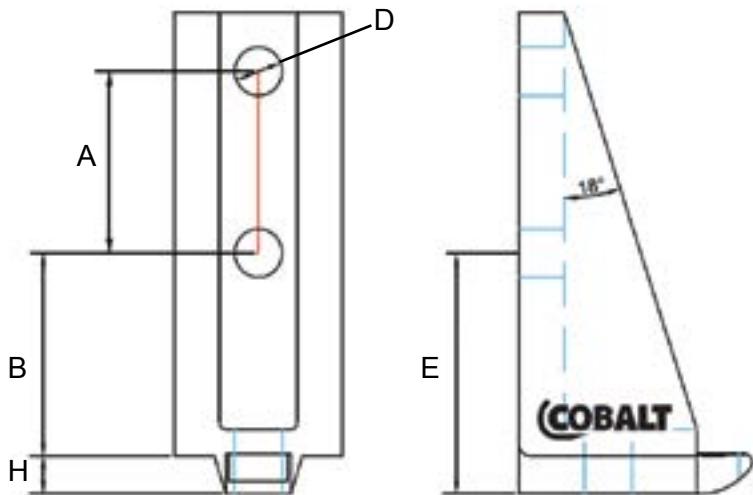
Standard Type

Drop Forged Rivetless Chains										
Chain	Pitch	E	Sidebar		Pin		B	C	Minimum Ultimate Strength	Weight
			T	H	D	A				
			in							
CX348	3.015	0.75	0.44	1.06	0.50	1.75	0.50	0.56	24,010	2.20
CX458	4.000	1.00	0.50	1.44	0.63	2.19	0.69	0.69	48,020	3.23
C468HT	4.031	1.63	0.44	1.88	0.75	3.31	1.19	0.88	70,030	8.06
CX678	6.031	1.31	0.75	2.00	0.88	3.00	0.81	1.00	85,050	6.71
C698HT	6.031	1.56	0.56	2.69	1.13	3.75	1.00	1.25	175,000	11.42
C998HT	9.031	1.56	0.31	2.50	1.13	3.88	1.00	1.13	175,000	9.00

Note: X Type is Double Flexing

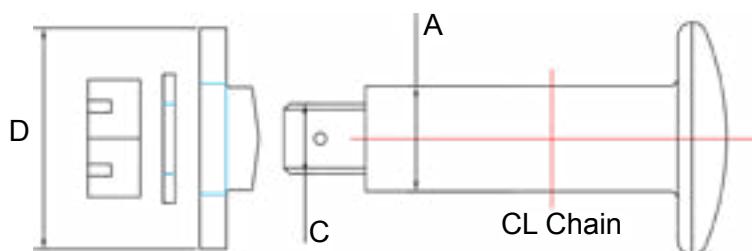


**DROP FORGED RIVETLESS CHAINS FOR
FEED & WASHING TABLES**



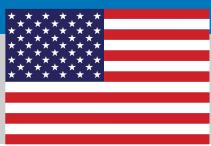
S22 Attachments

Chain	D	A	B	H	E	Weight
	in					lbs
X458	0.56	2.00	1.93	0.31	2.25	1.60
468	0.53	2.00	2.23	0.42	2.86	1.80
X678	0.69	2.25	2.56	0.31	2.86	4.70
698	0.79	2.50	3.50	0.43	3.94	9.80
998	0.81	3.00	2.75	0.63	3.25	11.30



Master/Repair Pin

Chain	A	C	D	Weight
	in			lbs
X348	0.500	0.400	0.975	0.20
X458	0.625	0.500	1.219	0.25
468	0.750	0.625	1.688	0.60
X678	0.875	0.625	1.875	1.00
698	1.125	0.750	2.375	1.80
998	1.125	0.750	2.375	1.80



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Roller Chains

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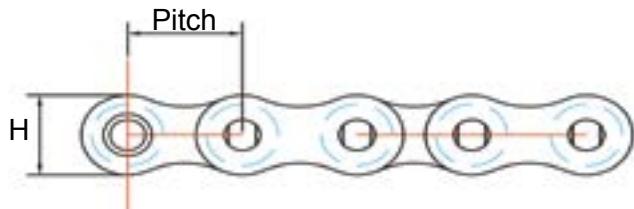
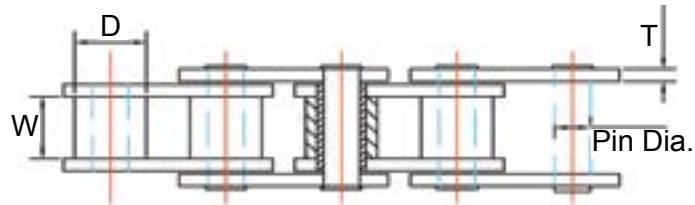


ANSI ROLLER CHAINS

Cobalt Chains premium roller chains are most commonly used for transmission of mechanical power. Our chains are built to ANSI B29.1 standards for dimensional consistency, interchangeability, and correct sprocket engagement. They feature premium solid bushings, ensuring a precision fit between the pin and bushing, therefore providing the longest possible service life. We keep most common sizes on-hand, guaranteeing prompt order fulfillment.



Rubber Top Chain



ANSI ROLLER CHAIN SINGLE STRAND

All measurements in ins.

Chain	Pitch	Roller		Link Plate		Pin Dia	Average Ultimate Strength	Weight
		W	D	H	T			
		in						
40	0.500	0.31	0.31	0.48	0.06	0.16	3,970	0.42
41	0.500	0.25	0.31	0.39	0.05	0.14	2,760	0.28
50	0.625	0.38	0.40	0.59	0.08	0.20	6,620	0.68
60	0.750	0.50	0.47	0.71	0.09	0.23	9,270	0.97
80	1.000	0.63	0.63	0.95	0.13	0.31	16,540	1.71
100	1.250	0.75	0.75	1.19	0.16	0.38	25,360	2.65
120	1.500	1.00	0.88	1.43	0.19	0.44	32,640	3.79
140	1.750	1.00	1.00	1.66	0.22	0.50	45,210	4.96
160	2.000	1.25	1.13	1.90	0.26	0.56	57,780	6.32
180	2.250	1.41	1.41	2.13	0.28	0.69	80,480	9.04
200	2.500	1.50	1.56	2.38	0.31	0.78	109,150	10.31
240	3.00	1.88	1.88	2.85	0.38	0.94	152,140	16.40

ANSI ROLLER CHAIN SINGLE STRAND HEAVY SERIES

50H	0.625	0.38	0.40	0.37	0.09	0.20	7,940	0.77
60H	0.750	0.50	0.47	0.71	0.13	0.23	12,130	1.16
80H	1.000	0.63	0.63	0.95	0.16	0.31	19,850	2.00
100H	1.250	0.75	0.75	1.19	0.19	0.38	30,870	3.02
120H	1.500	1.00	0.88	1.43	0.22	0.44	36,390	4.21
140H	1.750	1.00	1.00	1.66	0.25	0.50	48,510	5.54
160H	2.000	1.25	1.13	1.90	0.28	0.56	60,630	7.35
180H	2.250	1.41	1.41	2.14	0.31	0.69	86,000	10.20
200H	2.500	1.50	1.56	2.38	0.38	0.78	125,000	12.33
240H	3.00	1.88	1.88	2.85	0.50	0.94	198,400	19.61



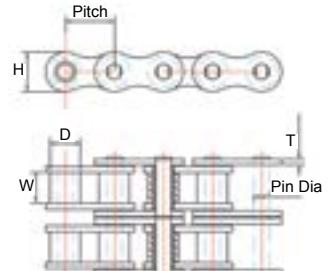
ANSI ROLLER CHAINS

ANSI ROLLER CHAIN MULTIPLE STRAND All measurements in ins.

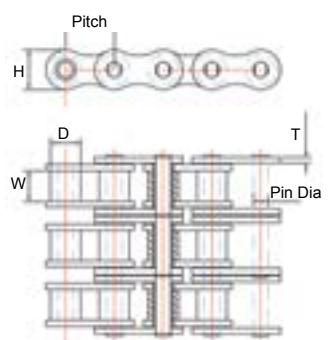
Chain	Pitch	Roller		Link Plate		Pin Dia.	Average Ultimate Strength	Weight
		W	D	H	T			
in								
40-2	0.500	0.31	0.31	0.48	0.06	0.16	7,500	0.82
40-3	0.500	0.31	0.31	0.48	0.06	0.16	11,250	1.22
40-4	0.500	0.31	0.31	0.48	0.06	0.16	15,000	1.63
50-2	0.625	0.38	0.40	0.59	0.08	0.20	13,230	1.34
50-3	0.625	0.38	0.40	0.59	0.08	0.20	19,850	2.00
50-4	0.625	0.38	0.40	0.59	0.08	0.20	26,460	2.67
60-2	0.750	0.50	0.47	0.71	0.09	0.23	18,530	1.93
60-3	0.750	0.50	0.47	0.71	0.09	0.23	27,790	2.88
60-4	0.750	0.50	0.47	0.71	0.09	0.23	37,050	3.83
80-2	1.000	0.63	0.63	0.95	0.13	0.31	33,080	3.39
80-3	1.000	0.63	0.63	0.95	0.13	0.31	49,620	5.07
80-4	1.000	0.63	0.63	0.95	0.13	0.31	66,150	6.76
100-2	1.250	0.75	0.75	1.19	0.16	0.38	50,720	5.28
100-3	1.250	0.75	0.75	1.19	0.16	0.38	76,080	7.90
100-4	1.250	0.75	0.75	1.19	0.16	0.38	101,430	10.52
120-2	1.500	1.00	0.88	1.43	0.19	0.44	65,270	7.53
120-3	1.500	1.00	0.88	1.43	0.19	0.44	97,910	11.24
120-4	1.500	1.00	0.88	1.43	0.19	0.44	130,540	14.97
140-2	1.750	1.00	1.00	1.66	0.22	0.50	90,410	9.85
140-3	1.750	1.00	1.00	1.66	0.22	0.50	135,610	14.74
160-2	2.000	1.15	1.25	1.90	0.26	0.56	115,550	12.53
160-3	2.000	1.15	1.25	1.90	0.26	0.56	173,320	18.74
180-2	2.250	1.41	1.41	2.13	0.28	0.69	160,960	17.82
200-2	2.500	1.50	1.56	2.38	0.31	0.78	218,300	21.08
200-3	2.500	1.50	1.56	2.38	0.31	0.78	327,450	31.78
240-2	3.000	1.88	1.88	2.85	0.38	0.94	304,280	32.32
240-3	3.000	1.88	1.88	2.85	0.38	0.94	456,420	48.11

ANSI ROLLER CHAIN MULTIPLE STRAND HEAVY SERIES

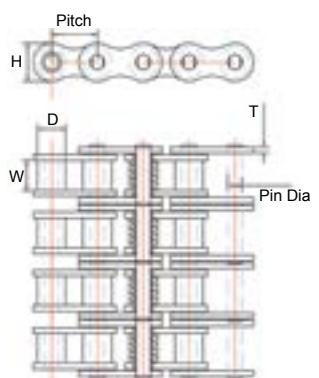
60H-2	0.750	0.500	0.469	0.712	0.125	0.234	24,260	2.31
80H-2	1.000	0.625	0.625	0.950	0.157	0.312	39,690	3.97
100H-2	1.250	0.750	0.750	1.188	0.187	0.375	52,920	6.07
120H-2	1.500	1.000	0.875	1.425	0.219	0.437	71,880	8.67
140H-2	1.750	1.000	1.000	1.663	0.250	0.500	94,370	11.01
160H-2	2.000	1.250	1.125	1.901	0.281	0.563	121,260	14.64
180H-2	2.250	1.406	1.406	2.137	0.312	0.687	194,889	19.20
200H-2	2.500	1.501	1.562	2.376	0.375	0.782	207,260	24.51
240H-2	3.000	1.864	1.875	2.852	0.500	0.938	225,000	40.87



DOUBLE STRAND



TRIPLE STRAND



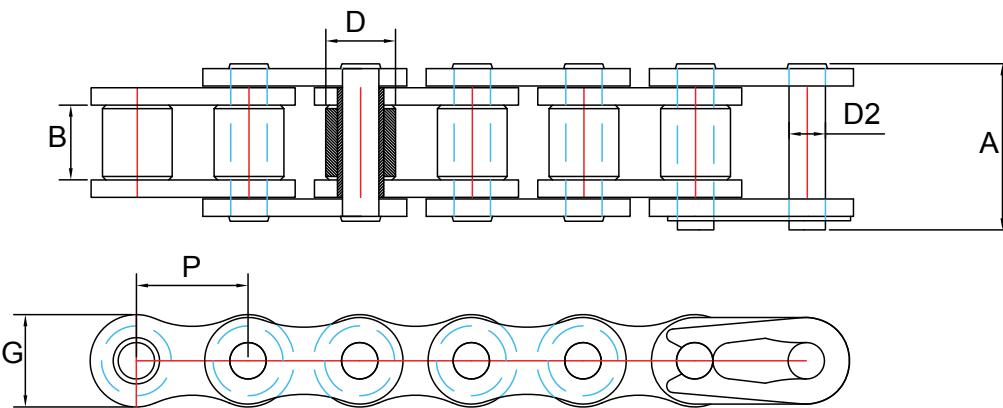
QUADRUPLE STRAND



Exceptional Performance, Superior Results

BRITISH STANDARD ROLLER CHAINS

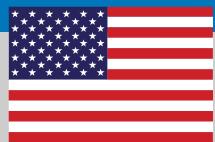
Cobalt Chains British Standard chains are commonly used for conveying applications. They are built to International Standards Organization (ISO) metric dimensions for dimensional consistency, interchangeability, and correct sprocket engagement. They feature additional heat treatment to side plates not found in the competition's products. This process effectively doubles the ultimate strength and service life when compared to other chains on the market. We keep most common sizes on-hand, guaranteeing prompt order fulfillment.



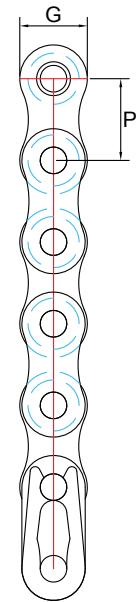
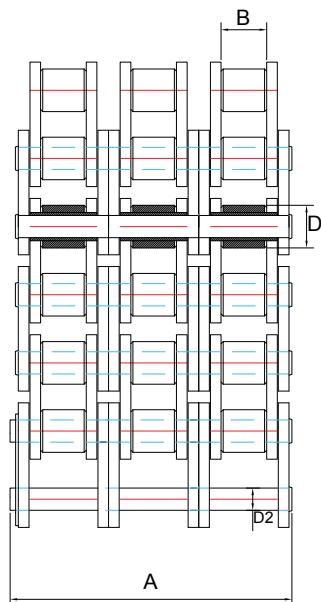
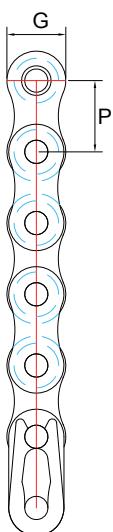
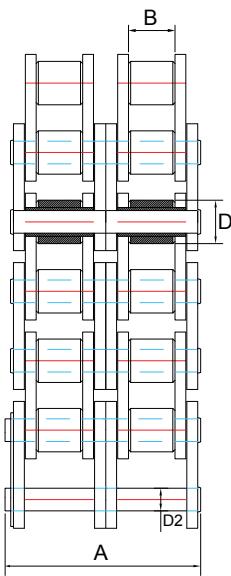
SIMPLEX ROLLER CHAINS

*Straight Side Plate

BS/DIN/ISO Chain No. DIN 8187/ISO 606 Standard	Pitch	Total Width	Width between inner plates	Link Height	Roller Diameter	Pin Diameter	Breaking Load	Weight
	P	A	B	G max	D	D2	Din. Min.	
	mm						N	kg/m
04B-1	6.000	10.30	2.80	5.00	4.00	1.85	3,000	0.12
05B-1	8.000	11.70	3.00	7.10	5.00	2.31	5,000	0.18
06B-1*	9.525	16.80	5.72	8.20	6.35	3.28	9,000	0.41
81	12.700	11.70	3.30	9.90	7.75	3.66	8,200	0.28
82	12.700	8.20	2.38	9.90	7.75	3.66	10,000	0.26
83	12.700	14.40	4.88	10.30	7.75	4.09	12,000	0.42
84	12.700	16.00	6.38	9.90	7.77	3.58	6,800	0.38
08B-1	12.700	20.90	7.75	11.80	8.51	4.45	18,000	0.70
10B-1	15.875	23.70	9.65	14.70	10.16	5.08	22,400	0.95
12B-1	19.050	27.30	11.68	16.10	12.07	5.72	29,000	1.25
16B-1	25.400	41.50	17.02	21.00	15.88	8.28	60,000	2.70
20B-1	31.750	49.30	19.56	26.40	19.05	10.19	95,000	3.60
24B-1	38.100	60.00	25.40	33.20	25.40	14.63	160,000	6.70
28B-1	44.450	72.50	30.99	36.70	27.94	15.90	200,000	8.30
32B-1	50.800	75.30	30.99	42.00	29.21	17.81	250,000	10.50



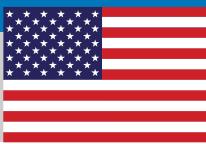
BRITISH STANDARD ROLLER CHAINS



MULTI STRAND ROLLER CHAINS

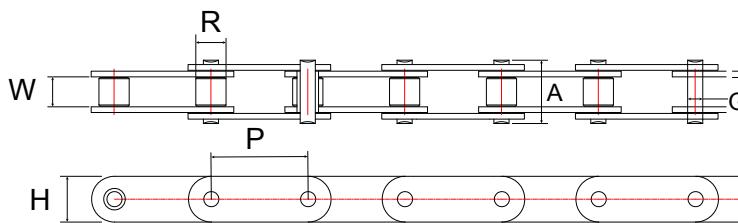
*Straight Side Plate

BS/DIN/ISO Chain No. DIN 8187/ISO 606 Standard	Pitch	Traverse Pitch	Total Width	Width between inner plates	Link Height	Roller Diameter	Pin Diameter	Breaking Load	Weight
	P	Ai	A	B	G max	D	D2	Din. Min.	
	mm								N kg/m
06B-2*	9.525	10.24	27.10	5.72	8.20	6.35	3.28	16,900	0.78
06B-3*	9.525	10.24	37.30	5.72	8.20	6.35	3.28	24,900	1.18
08B-2	12.700	13.92	34.90	7.75	11.80	8.51	4.45	32,000	1.35
08B-3	12.700	13.92	48.80	7.75	11.80	8.51	4.45	47,500	2.00
10B-2	15.875	16.59	40.30	9.65	14.70	10.16	5.08	44,500	1.80
10B-3	15.875	16.59	56.90	9.65	14.70	10.16	5.08	66,700	2.80
12B-2	19.050	19.46	46.80	11.68	16.10	12.07	5.72	57,800	2.50
12B-3	19.050	19.46	66.30	11.68	16.10	12.07	5.72	86,700	3.80
16B-2	25.400	31.88	73.40	17.02	21.00	15.88	8.28	106,000	5.40
16B-3	25.400	31.88	105.30	17.02	21.00	15.88	8.28	160,000	8.00
20B-2	31.750	36.45	85.10	19.56	26.40	19.05	10.19	170,000	7.20
20B-3	31.750	36.45	122.21	19.56	26.40	19.05	10.19	250,000	11.00
24B-2	38.100	48.36	107.60	25.40	33.20	25.40	14.63	280,000	13.50
24B-3	38.100	48.36	156.60	25.40	33.20	25.40	14.63	425,000	21.00
28B-2	44.450	59.56	131.40	30.99	37.00	27.94	15.90	360,000	16.60
28B-3	44.450	59.56	191.40	30.99	37.00	27.94	15.90	530,000	25.00
32B-2	50.800	58.55	133.90	30.99	42.20	29.21	17.81	450,000	21.00
32B-3	50.800	58.55	191.90	30.99	42.20	29.21	17.81	670,000	32.00

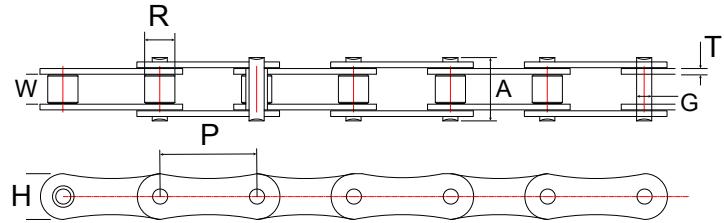


Exceptional Performance, Superior Results

DOUBLE PITCH ROLLER CHAINS



Conveyor & Carrier Roller Type



Metric Type

Conveyor Type

Chain	Pitch	Inside Width	Roller Diameter	Sidebar		Pin Diameter	Total Width	Average Ultimate Strength	Weight
				Height	Thickness				
	P	W	R	H	T	G	A		
in									
C2040	1.000	0.31	0.31	0.46	0.06	0.16	0.64	4,300	0.34
C2050	1.250	0.38	0.38	0.59	0.08	0.20	0.81	7,200	0.56
C2060	1.500	0.50	0.50	0.68	0.09	0.23	1.17	9,270	0.76
C2060H	1.500	0.50	0.50	0.68	0.13	0.23	1.17	10,000	1.01
C2080H	2.000	0.63	0.63	0.94	0.16	0.31	1.40	18,000	1.67
C2100H	2.500	0.75	0.75	1.12	0.19	0.38	1.67	26,200	2.42
C2120H	3.000	1.00	1.00	1.38	0.22	0.44	2.02	37,800	3.43
C2160H	4.000	1.25	1.25	1.90	0.28	0.56	2620.00	62,200	6.17

Carrier Roller Type

Chain	Pitch	Inside Width	Roller Diameter	Sidebar		Pin Diameter	Total Width	Average Ultimate Strength	Weight
				Height	Thickness				
	P	W	R	H	T	G	A		
in									
C2042	1.000	0.31	0.63	0.46	0.06	0.16	0.64	4,300	0.58
C2052	1.250	0.38	0.75	0.59	0.08	0.20	0.81	7,200	0.89
C2062H	1.500	0.50	0.88	0.68	0.13	0.23	1.17	10,000	1.46
C2082H	2.000	0.63	1.13	0.94	0.16	0.31	1.40	18,000	2.37
C2102H	2.500	0.75	1.56	1.12	0.19	0.38	1.67	26,200	3.90
C2122H	3.000	1.00	1.75	1.38	0.22	0.44	2.02	37,800	5.43
C2162H	4.000	1.25	2.25	1.90	0.28	0.56	2.62	62,200	9.12

Metric Type

Chain	Pitch	Inside Width	Roller Diameter	Sidebar		Pin Diameter	Total Width	Average Ultimate Strength	Weight
				Height	Thickness				
	P	W	R	H	T	G	A		
in									
C208B	1.000	0.31	0.34	0.47	0.13	0.18	0.67	4,046	1.10
C210B	1.250	0.38	0.40	0.58	0.14	0.20	0.77	5,035	1.33
C212B	1.500	0.46	0.48	0.64	0.15	0.23	0.89	6,519	1.77
C216B	2.000	0.67	0.63	0.83	0.33	0.33	1.42	13,488	3.86
C220B	2.500	0.77	0.75	1.04	0.37	0.40	1.70	21,356	5.80
C224B	3.000	1.00	1.00	1.32	0.49	0.58	2.10	35,969	9.92



ROLLER CHAIN 81X



Roller Chain 81X

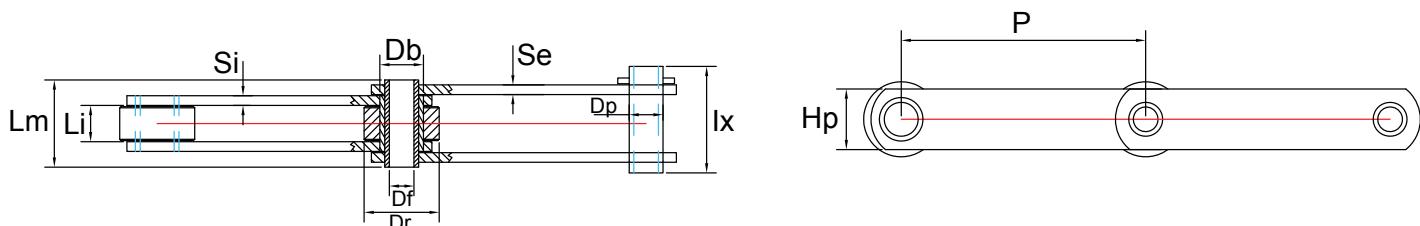
Chain		Pitch		A		E		T1		T2		F		G		D		Minimum Ultimate Strength		Weight	
		in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	lbs	kg	lbs/ft	kg/mtr
STANDARD	C81X	2.609	66.27	1.69	42.86	1.10	34.93	0.16	4.00	0.16	4.00	1.13	28.58	0.44	11.11	0.91	23.00	25,000	11,350	2.50	0.35
HEAVY DUTY	C81XH	2.609	66.27	2.19	55.56	1.06	44.45	0.31	7.94	0.22	5.56	1.25	31.75	0.44	11.11	0.91	23.00	40,000	18,000	3.50	0.48
EXTRA HEAVY	C81XHD	2.609	66.27	2.50	63.50	1.06	44.45	0.31	7.94	0.31	7.94	1.25	31.75	0.44	11.11	0.91	23.00	42,000	19,000	4.50	0.62

Roller Chain 81X with Integral Rooftop

Chain	A		B		C													
	in	mm	in	mm	in	mm												
C81X RT	2.609	66.27	1.50	38.10	1.81	46.04	Available in XH and XHH versions with UHMWP or steel caps											

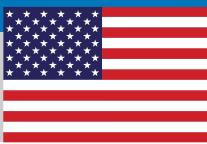
Applications include lumber and transfer conveyors, trimmer saws, stackers, unscramblers.

CANE HARVESTER CHAINS



Cane Harvester Chains

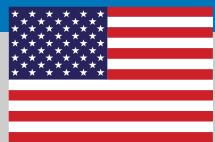
Chain		Pitch	Ultimate Strength	Li	Dr	Db	Df	Dp	Hp	Si	Se	Lm	Lx	Weight kg/m
HP27/0508/P	mm	50.800	2,700 kg	15.00	31.80	18.00	10.20	14.00	25.00	4.00	4.00	36.00	44.00	4.00
	in	2.000	6,000 lb	0.59	1.25	0.71	0.40	0.55	0.98	0.16	0.16	1.42	1.73	
HP27/0508/R1.5	mm	50.800	2,700 kg	15.00	31.80	18.00	10.20	14.00	25.00	4.00	4.00	36.00	44.00	4.20
	in	2.000	6,000 lb	0.59	1.25	0.71	0.40	0.55	0.98	0.16	0.16	1.42	1.73	
HP55/0635/P	mm	63.500	5,500 kg	19.00	47.60	23.60	13.20	19.00	40.00	5.00	4.00	44.00	51.00	n/s
	in	2.500	12,000 lb	0.75	1.87	0.93	0.52	0.75	1.57	0.20	0.16	1.73	2.01	



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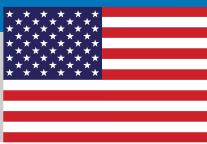


Offset Link Drive Chains

Telephone: 309-698-9250



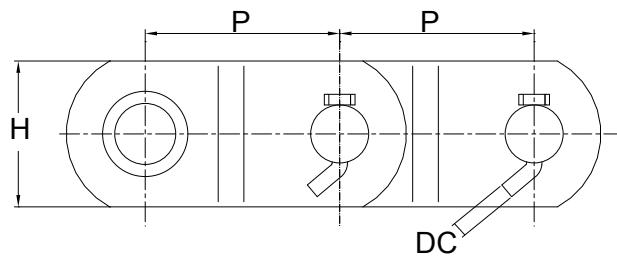
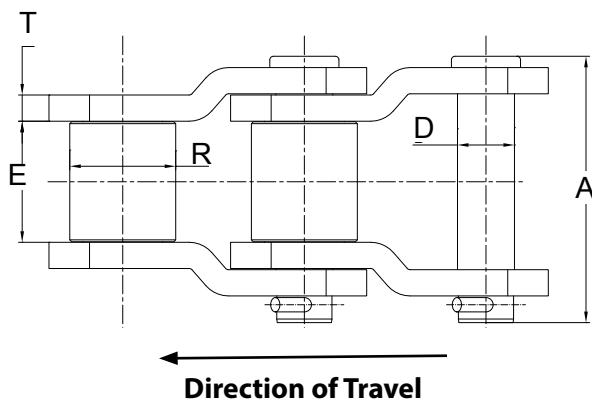
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HEAVY DUTY ROLLER DRIVE CHAINS

Cobalt Chains engineering class drive chain is used for power transmission and speed reduction in many heavy duty applications. Our drive chains are designed to exceed the listed ultimate strength ratings, ensuring high fatigue strength and the ability to withstand extreme shock loads. Each component is manufactured entirely from alloy steel, carefully machined with high press fit tolerances. Components are heat-treated with the latest techniques to ensure the longest service life for both the chain and sprockets.



Heavy Duty Offset Link Roller Drive Chains

Chain	Pitch	E min	Sidebar		Pin		Cotter		Roller	Average Ultimate Strength	Weight
	P		T	H	D	A	DC (Dia)	Length	R		
	in									lbs	lbs/ft
CD508	2.000	1.25	0.31	1.56	0.56	3.25	0.152	1.078	1.13	64,970	7.61
CD882	2.609	1.13	0.25	1.13	0.44	2.63	0.192	1.100	0.88	26,080	3.62
CD3011	3.067	1.50	0.38	2.25	0.75	3.94	0.231	1.497	1.63	76,440	12.02
CD1031	3.075	1.50	0.31	1.50	0.63	3.38	0.192	1.300	1.25	48,560	7.41
CD3075	3.075	1.50	0.38	1.75	0.63	3.69	0.194	1.282	1.25	75,880	8.60
CD3500	3.500	1.50	0.50	2.31	0.88	4.44	0.308	1.922	1.75	149,050	16.03
CD4063	4.063	1.94	0.50	2.25	0.88	4.88	0.232	1.507	1.75	149,050	15.74
CD4073	4.073	1.94	0.56	2.38	0.94	5.13	0.310	2.119	1.75	169,960	18.74
CD4500	4.500	2.00	0.56	3.00	1.13	5.25	0.388	2.521	2.25	220,090	24.56
CD5031	5.000	2.75	0.63	3.50	1.25	6.25	0.377	2.558	2.50	313,610	27.25
CD1605	5.000	2.50	0.81	3.50	1.38	6.50	0.377	2.558	2.50	350,030	39.88
CD6042	6.000	2.94	0.81	3.94	1.50	7.13	0.390	2.917	3.00	419,950	46.52



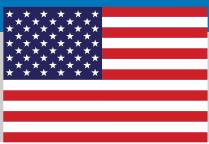
HEAVY DUTY ROLLER DRIVE CHAINS



Zinc Plated Drive Chains

Drive Chain Cross Reference

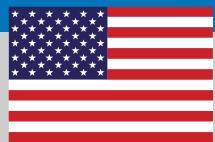
Pitch (INS)	COBALT	TSUBAKI	EWART	MOLINE	HITACHI	REXNORD	UNION	KING	RENOLD JEFFREY
2.000	CD508	R01613AK	EXS2065	MXS2070	H2070	-	US2065	JK508	IS2065R
2.609	CD882	US882	EXS882	MXS882	-	-	US882	JK882	JS882
3.067	CD3011	US3011	3067X	MXS3011	H3011	AX1568	US3011	JK3011	JS3011
3.075	CD1031	US1031	EXS402	MXS1031	HP3	R1035	US1031	JK1031	JS1031
3.075	CD3075	US3075	API3P	MXS3075	HP3H	CHAMP NO3	US3075	JK3075	JS3075
3.500	CD3500	R01616	E238R	MXS3514	H238	RX238	US3514	JK3500	JS3514
4.063	CD 4063	US1242	API4P	MXS1242	H1242	RX1244	US1242	JK4063	JS4014
4.073	CD 4073	US1245	RX1245	MXS1245	H1245	RX1245	US1245	JK4073	JS1245A
4.500	CD 4500	US4522	4500A	MXS4522	H635	R0635	US4522	JK4500	IS4522
5.000	CD 5031	US5031	EXS5027	MXS5031	H1602A	R01207	US5028A	JK5031	JS5031
5.000	CD 1605	-	1605AAA	-	-	-	-	JK1605	1605AAA
6.000	CD 6042	US6042	EXS6042	MXS6042	H6042	R01306	US6042	JK6042	JS6042



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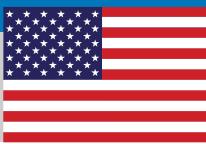


British Standard Conveyor Chains

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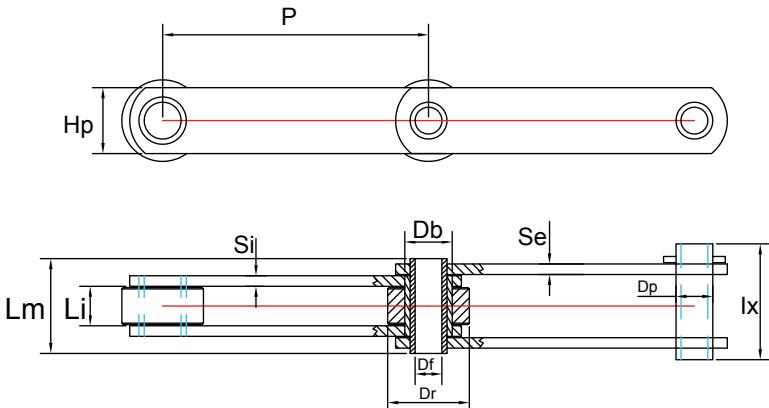


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Exceptional Performance, Superior Results

BRITISH STANDARD CONVEYOR CHAINS

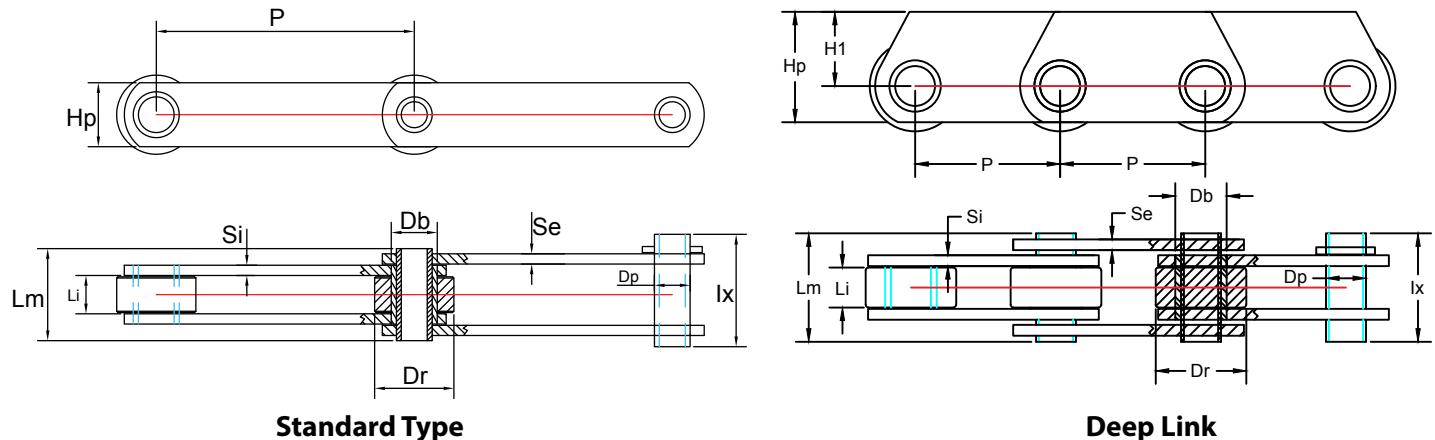


Hollow Bearing Pin Dimensional Details												All measurements in mm unless stated	
Chain	Ultimate Strength	P	Li	Dr	Db	Df	Dp	Hp	Si	Se	Lm	Ix	Weight
													kg/m
CHP27/0508/P	6,000lb 2,700kg	50.800	15.00	31.80	18.00	10.20	14.00	25.00	4.00	4.00	36.00	44.00	4.00
CHP27/0762/P		76.200	15.00	31.80	18.00	10.20	14.00	25.00	4.00	4.00	36.00	44.00	3.40
CHP27/1016/P		101.600	15.00	31.80	18.00	10.20	14.00	25.00	4.00	4.00	36.00	44.00	2.80
CHP27/1524/P		152.400	15.00	31.80	18.00	10.20	14.00	25.00	4.00	4.00	36.00	44.00	2.00
CHP55/0762/P	12,000lb 5,450kg	76.200	19.00	47.60	23.60	13.20	19.00	40.00	5.00	4.00	44.00	51.00	6.50
CHP55/1016/P		101.600	19.00	47.60	23.60	13.20	19.00	40.00	5.00	4.00	44.00	51.00	5.60
CHP55/1524/P		152.400	19.00	47.60	23.60	13.20	19.00	40.00	5.00	4.00	44.00	51.00	4.70
CHP110/1016/P	24,000lb 10,900kg	101.600	25.40	66.70	33.00	20.10	26.90	50.00	7.00	5.00	58.00	65.00	11.10
CHP110/1524/P		152.400	25.40	66.70	33.00	20.10	26.90	50.00	7.00	5.00	58.00	65.00	9.00

Hollow Beading Pin Cross Reference					
SERIES	PITCH	COBALT	RENOLD	PRECISION	ZMC
60001	2"	CHP27/0508	105080/16	A080DI	ZC40/0508
60001	3"	CHP27/0762	105120/16	A12DI	ZC40/0762
60001	4"	CHP27/1016	105160/16	A16DI	ZC40/1016
60001	6"	CHP27/1524	105240/16	A24DI	ZC40/1524
12000	3"	CHP55/0762	105121/16	A12GI	ZC60/0762
12000	4"	CHP55/1016	105161/16	A16GI	ZC60/1016
12000	6"	CHP55/1524	105241/16	A24GI	ZC60/1524
24000	4"	CHP110/1016	105162/12	A16HI	ZC150/1016
24000	6"	CHP110/1524	105242/12	A24HI	ZC150/1524



BRITISH STANDARD CONVEYOR CHAINS



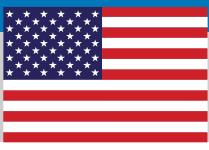
Solid Bearing Pin Dimensional Details											All measurements in mm unless stated	
Chain	Ultimate Strength	P	Li	Dr	Db	Dp	Hp	Si	Se	Lm	Ix	Weight
												kg/m
CSP43/0508/P	7,500 lbs 3,400 kg	50.800	15.00	31.80	18.00	14.00	25.00	4.00	4.00	36.00	44.00	4.00
CSP43/0762/P		76.200	15.00	31.80	18.00	14.00	25.00	4.00	4.00	36.00	44.00	3.40
CSP43/1016/P		101.600	15.00	31.80	18.00	14.00	25.00	4.00	4.00	36.00	44.00	2.80
CSP43/1524/P		152.400	15.00	31.80	18.00	14.00	25.00	4.00	4.00	36.00	44.00	2.00
CSP75/1016/P	15,000 lbs 6,800 kg	101.600	19.00	47.60	23.60	19.00	40.00	5.00	4.00	44.00	51.00	5.60
CSP75/1524/P		152.400	19.00	47.60	23.60	19.00	40.00	5.00	4.00	44.00	51.00	4.70
CSP135/1016/P	30,000 lbs 13,650 kg	101.600	25.40	66.70	33.00	26.90	50.00	7.00	5.00	58.00	65.00	11.10
CSP135/1524/P		152.400	25.40	66.70	33.00	26.90	50.00	7.00	5.00	58.00	65.00	9.00
CSP43/0508/DL*	7,500 lbs 3,400 kg	50.800	15.00	31.75	17.00	14.00	40.00	4.00	4.00	37.00	37.00	5.60
CSP75/1016/DL*	15,000 lbs 6,800 kg	101.60	19.00	45.00	23.00	19.00	50.00	5.00	5.00	45.00	45.00	7.80

* Deep Link



Solid Bearing Pin Cross Reference

SERIES	PITCH	COBALT	RENOLD	PRECISION	ZMC
7500	3"	CSP43/0762	145120/12	B12DI	Z40/0762
7500	4"	CSP43/1016	145160/12	B16DI	Z40/1016
7500	6"	CSP43/1524	145240/12	B24DI	Z40/1524
15000	3"	CSP75/0762	145121/12	B12GI	Z100/0762
15000	4"	CSP75/1016	145161/12	B16GI	Z100/1016
15000	6"	CSP75/1524	145241/12	B24GI	Z100/1524
30000	4"	CSP135/1016	145162/12	B16HI	Z160/1016
30000	6"	CSP135/1524	145242/12	B24HI	Z160/1524



Exceptional Performance, Superior Results



Exceptional Performance, Superior Results



Transport Chains

Telephone: 309-698-9250



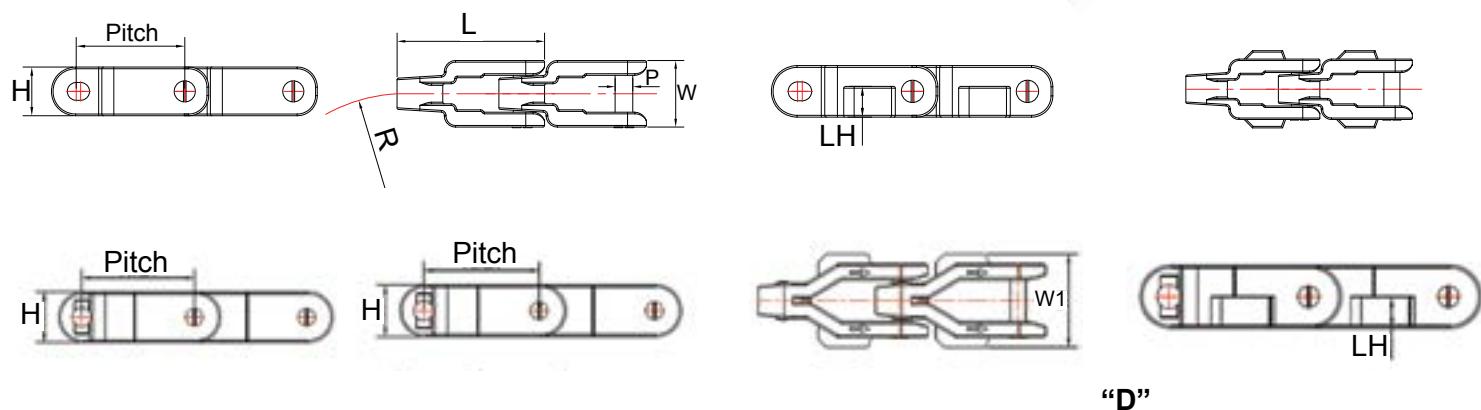
COBALT
a CROMANT chain company



Exceptional Performance, Superior Results

TRANSPORT CHAINS & DRIVE SPROCKETS

Cobalt Chains transport case chains are available in several steel alloys for heavy duty applications and five polymeric materials for medium and lighter-duty use. These chains are widely used for handling cases or crates in bottle washing plants. They are also used for moving kegs in breweries and transporting gas bottles for cleaning and filling. Cobalt Chains complementary sprockets are expertly engineered for high-strength and long-lasting durability. This is achieved by using the best design based on experience and selecting premium materials for the construction.

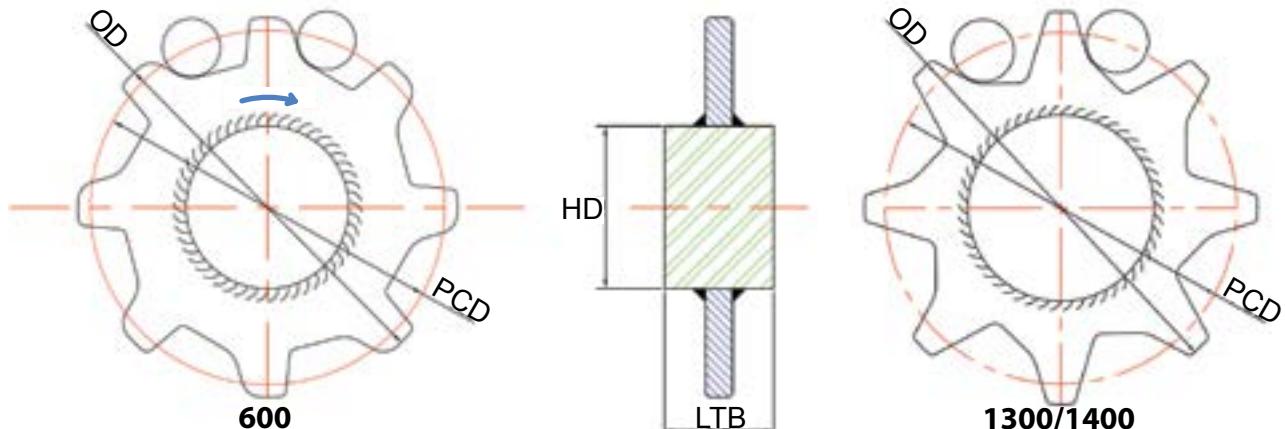


Chain	Pitch				Pin Dia.		Available Pin Type	Overall Length L	Chain Width		Overall Width		Height		Lug Height		Min Turn Radius		Ultimate Tensile Strength		Weight					
	in		mm		in				in		mm		in		mm		in		mm		lbs		kg			
	in	mm	in	mm	in	mm			in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	ft	kg/m				
CC600	2.500	63.500	0.44	11.00	K	3.55	90.20	1.69	42.90	N/A	N/A	1.12	28.45	N/A	N/A	30.00	762.00	10,000	4,540	3.32	1.39					
CC600D	2.500	63.500	0.44	11.00	K	3.55	90.20	1.69	42.90	2.12	53.85	1.12	28.45	0.56	14.20	30.00	762.00	10,000	4,540	3.70	1.45					
PM600	2.500	63.500	0.44	11.00	S, C, R	3.55	90.20	1.69	42.90	N/A	N/A	1.12	28.45	N/A	N/A	30.00	762.00	3,395	1,540	0.92	1.37					
PM600D	2.500	63.500	0.44	11.00	S, C, R	3.55	90.20	1.69	42.90	9.12	53.85	1.12	28.45	0.67	17.02	30.00	762.00	3,395	1,540	0.97	1.44					

Chain	Pitch				Pin Dia.		Available Pin Type	Overall Length L	Chain Width		Overall Width		Height		Lug Height		Min Turn Radius		Ultimate Tensile Strength		Weight					
	in		mm		in				in		mm		in		mm		in		mm		lbs		kg			
	in	mm	in	mm	in	mm			in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	ft	kg/m				
CC1300	3.250	82.550	0.44	11.00	K	4.65	118.10	2.00	50.80	N/A	N/A	1.50	38.10	N/A	N/A	40.00	1,016	14,991	6,800	11.30	16.82					
CC1300D	3.250	82.550	0.44	11.00	K	4.65	118.10	2.00	50.80	2.63	66.68	1.50	38.10	0.75	19.05	40.00	1,016	14,991	6,800	13.00	19.35					
PM1400	3.250	82.550	0.44	11.00	S, C, R	4.65	118.10	2.00	50.80	N/A	N/A	1.50	38.10	N/A	N/A	26.00	660.00	4,993	2,265	1.40	2.08					
PM1400D	3.250	82.550	0.44	11.00	S, C, R	4.65	118.10	2.00	50.80	2.63	66.68	1.50	38.10	0.75	19.05	26.00	660.00	4,993	2,265	1.53	2.27					



TRANSPORT CHAINS & DRIVE SPROCKETS



PM600

Cast	Plastic	No. of Teeth	Hub Sizes		PCD		O/D		O/D Short Tooth	
			Dia.	Thro.	in	mm	in	mm	in	mm
41/CC600/6T	36/PM600/6T	6	3.00	2.25	5.00	127.00	5.60	142.30	-	-
41/CC600/8T	36/PM600/8T	8	3.50	2.50	6.53	165.90	7.00	177.80	6.50	1,651.00
41/CC600/10T	36/PM600/10T	10	4.50	2.50	8.09	205.50	9.20	234.00	8.25	210.00
41/CC600/12T	36/PM600/12T	12	5.00	2.75	9.66	245.40	10.25	260.00	10.00	254.00
41/CC600/14T	36/PM600/14T	14	5.00	3.00	11.24	285.50	12.30	312.00	11.60	295.00

Note: Short tooth form available for CC600 closed top.

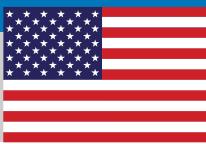
1300/1400

Cast	Plastic	No. of Teeth	Hub Sizes		PCD		O/D	
			Dia.	Thro.	in	mm	in	mm
41/CC1400/8T	36/PM1300/8T	8	3.50	2.25	8.49	215.65	9.40	239.00
41/CC1400/10T	36/PM1300/10T	10	4.00	3.00	10.52	267.20	11.63	295.00
41/CC1400/12T	36/PM1300/12T	12	5.50	3.00	12.56	319.00	13.75	349.00
41/CC1400/14T	36/PM1300/14T	14	5.50	3.50	14.61	371.10	15.80	401.00

Split Construction Sprockets with Polyethylene Tooth Rings

Plastic	No. of Teeth	Hub Sizes				PCD	
		in	mm	in	mm	in	mm
36/PM600/6TS	6	4	100	2.00	50.00	5.00	127.00
36/PM600/8TS	8	4	100	2.00	50.00	6.53	165.90
36/PM600/10TS	10	4	100	2.00	50.00	8.09	205.50
36/PM600/12TS	12	4	100	2.00	50.00	9.66	245.40
36/PM600/14TS	14	4	100	2.00	50.00	11.24	285.50
36/PM1300/8TS	8	4	100	2 1/2	63.50	8.49	215.65
36/PM1300/10TS	10	4	100	2 1/2	63.50	10.52	267.20
36/PM1300/12TS	12	4	100	2 1/2	63.50	12.56	319.00
36/PM1300/14TS	14	4	100	2 1/2	63.50	14.61	371.10

Other diameters available on request



Exceptional Performance, Superior Results

TRANSPORT CHAIN ENGINEERING PLASTICS & PIN STYLES

PM - Acetal Copolymer with self-lubricating components

LF - Acetal Copolymer with advanced self-lubricating quality

SLF - Acetal Copolymer offering lowest friction resistance

HP - Homopolymer offering 20% increase in strength & hardness

PP - Polypropylene with high material toughness & steam resistant



Steel & Plastic Transport Chains

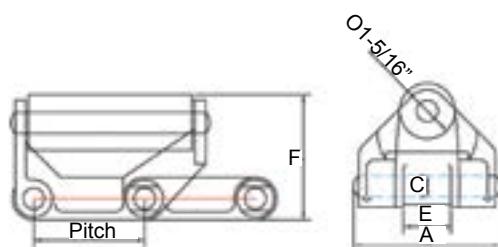
PM600



PM1300

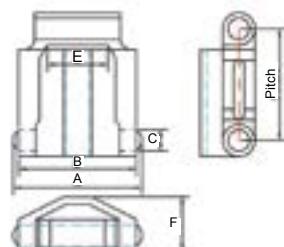


TRANSFER CHAINS



Roller Top Chain

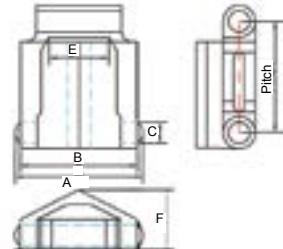
H78RT



Style A Rooftop

H78A

H130



Style B Camel Back

H78B

H138

Transfer Chains

Chain	Pitch		Minimum Ultimate Strength		A		B		C		E		F		Weight
	in	mm	lbs	Kg	in	mm	lbs/ft								
CH78A	2.609	66.269	16,000	7,200	3.50	88.90	2.75	69.85	0.50	12.70	1.13	28.58	1.69	42.68	5.60
CH78B	2.609	66.269	16,000	7,200	3.50	88.90	2.75	69.85	0.50	12.70	1.13	28.58	1.69	42.68	6.10
CH130	4.000	101.600	14,000	6,400	3.50	88.90	2.81	71.45	0.50	12.70	1.00	25.40	1.69	42.68	5.20
CH138	4.000	101.600	15,000	6,800	3.50	88.90	2.81	71.45	0.50	12.70	1.00	25.40	1.69	42.68	5.80
CH78RT	2.609	66.269	16,000	7,200	A+B		3.25	82.55	0.50	12.70	1.13	28.58	2.94	74.62	8.45

Exceptional Performance, Superior Results

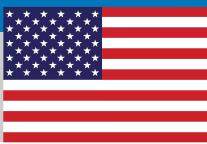


Bakery Chains

Telephone: 309-698-9250

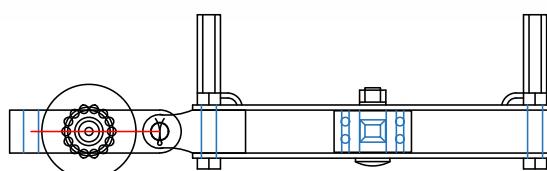
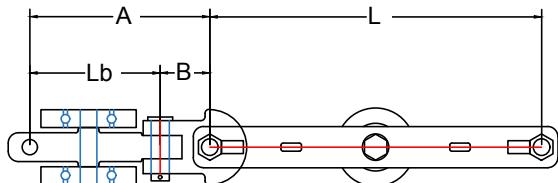


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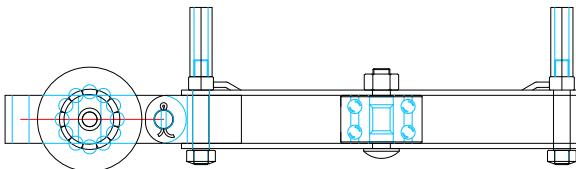
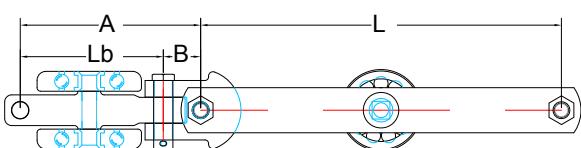
Exceptional Performance, Superior Results

Oven & Proofer Chains



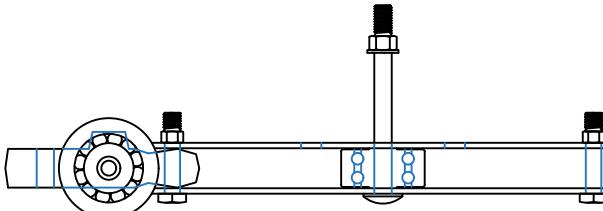
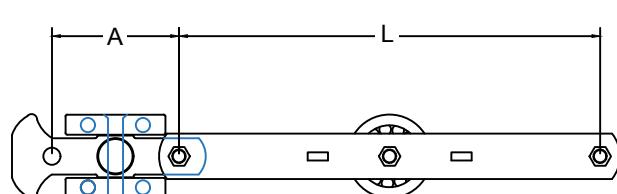
816 Proofer/Oven Chain

Chain	Pitch		A		B		L		Lb		Finish	Weight lbs/ft
	in	mm	in	mm	in	mm	in	mm	in	mm		
CCB816-BTP	12.000	304.83	4.00	101.60	0.84	21.23	8.00	203.23	3.16	80.37	Zinc Plated	3.80
CCB816-BTO	12.000	304.83	4.00	101.60	0.84	21.23	8.00	203.23	3.16	80.37	Black Oxide	3.80



203 Proofer/Oven Chain

Chain	Pitch		A		B		L		Lb		Finish	Weight lbs/ft
	in	mm	in	mm	in	mm	in	mm	in	mm		
CCB203-BTP	12.000	304.80	4.00	101.60	0.83	21.03	8.00	203.20	3.17	80.57	Zinc Plated & Yellow Dichromate	3.70
CCB203-BTO	12.000	304.80	4.00	101.60	0.83	21.03	8.00	203.20	3.17	80.57	Black Oxide	3.70

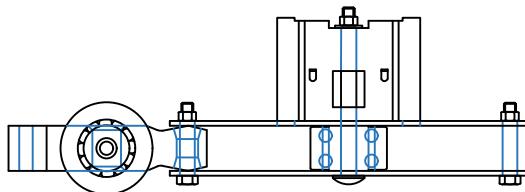
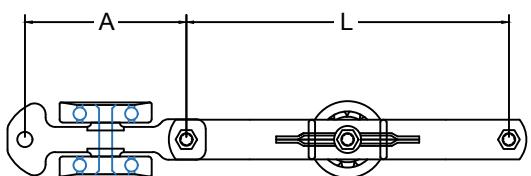


614 Proofer/Oven Chain - Original LS

Chain	Pitch		A		L		Finish	Weight lbs/ft
	in	mm	in	mm	in	mm		
CCB6140-LP	12.000	304.80	2.86	72.80	9.13	232.00	Zinc Plated & Yellow Dichromate	4.80
CCB6140-LO	12.000	304.80	2.86	72.80	9.13	232.00	Black Oxide	4.80

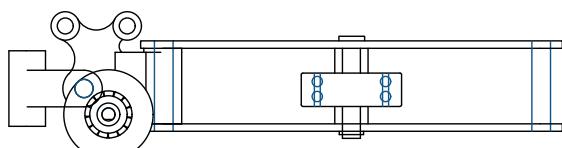
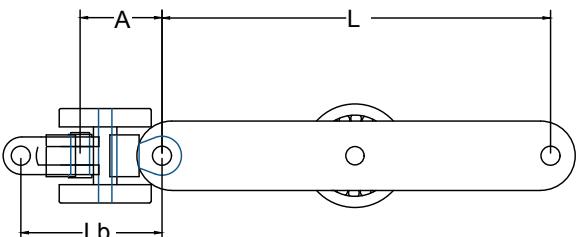


Oven & Proofer Chains



620 Proofer/Oven Chain - New Generation LS

Chain	Pitch		A		L		Finish	Weight
	in	mm	in	mm	in	mm		Ibs/ft
CCB620NG-LP	12.000	304.80	4.00	101.60	8.00	203.20	Zinc Plated & Yellow Dichromate	5.50
CCB620NG-LO	12.000	304.80	4.00	101.60	8.00	203.20	Black Oxide	5.50



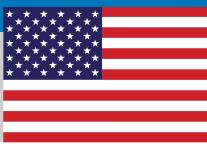
415 Proofer/Oven Chain

Chain	Pitch		L		A		Lb		Finish	Weight
	in	mm	in	mm	in	mm	in	mm		Ibs/ft
CCB415-SP	12.45	316.30	9.14	232.20	1.93	49.00	3.31	84.10	Zinc Plated	4.77
CCB415-SO	12.45	316.30	9.14	232.20	1.93	49.00	3.31	84.10	Black Oxide	4.77

Pendants for Lanham

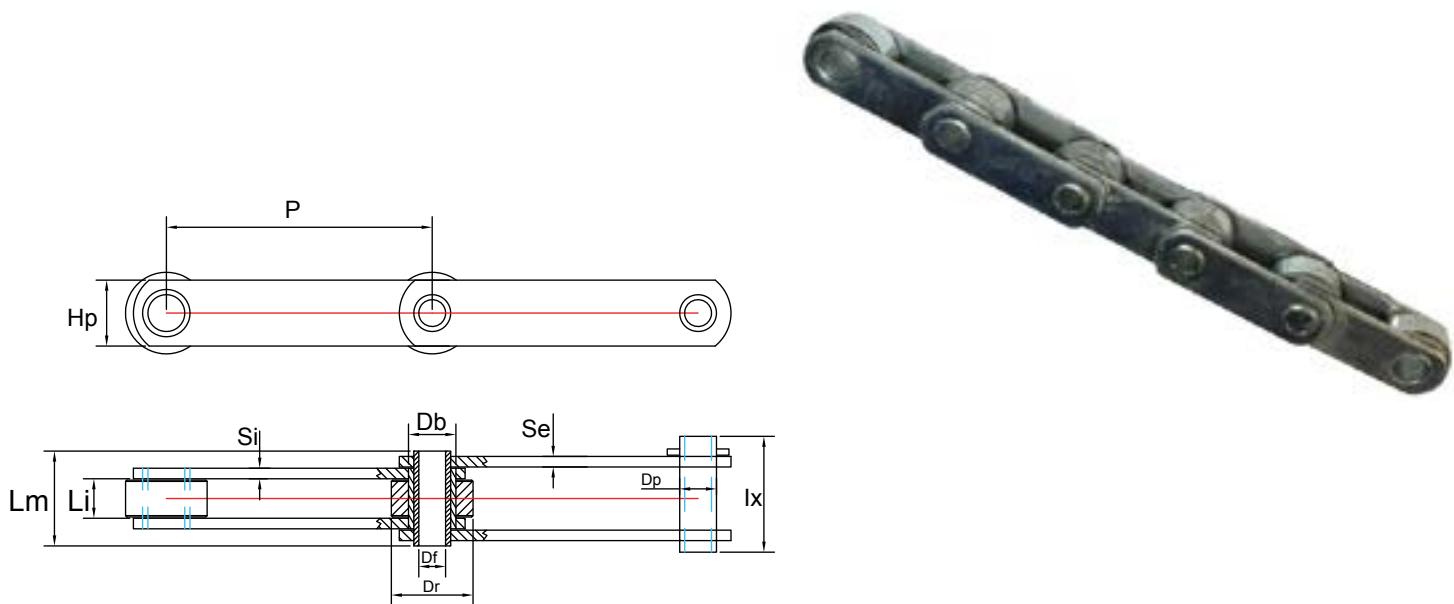
Pendants for Lanham			
Pendant	Material	Height	
		in	mm
CCBP63SS	Stainless Steel	2.48	63
CCBP63ZP	Zinc Plated	2.48	63
CCBP68SS	Stainless Steel	2.68	68
CCBP68ZP	Zinc Plated	2.68	68





Exceptional Performance, Superior Results

Hollow Pin Oven & Proofer Chains



Hollow Pin Proofer Chains

Chain	P	Li	Dr	Db	Df	Dp	Hp	Si	Se	Breaking Load	Weight
	in								Ibs	Ibs*	Ibs/ft
CHP55/100/P	3.937	0.95	1.87	0.91	0.75	0.43	1.58	0.20	0.20	12,364	24,729
CHP110/1524/R3/P	6.000	1.02	2.63	1.30	1.06	0.80	1.97	0.20	0.28	24,729	67,443
CHP110/1778/P	7.000	1.02	3.00	1.30	1.06	0.80	1.97	0.20	0.28	24,729	67,443
CHP110/2032/P	8.000	1.02	2.63	1.30	1.06	0.80	1.97	0.20	0.28	24,729	67,443
CHP110/2032/R3/P	8.000	1.02	3.00	1.30	1.06	0.80	1.97	0.20	0.28	24,729	67,443
CHP160/1270/P	5.000	1.50	3.50	1.50	1.26	0.89	2.36	0.32	0.39	35,969	71,939
CHP160/1524/P	6.000	1.50	3.50	1.50	1.26	0.89	2.36	0.32	0.39	35,969	71,939
CHP160/2032/P	8.000	1.50	3.50	1.50	1.26	0.89	2.36	0.32	0.39	35,969	71,939
CHP160/2032/R5/P	8.000	1.50	3.50	1.50	1.26	0.89	2.36	0.32	0.39	35,969	71,939

Hollow Pin Oven Chains

Chain	P	Li	Dr	Db	Df	Dp	Hp	Si	Se	Breaking Load	Weight
	in								Ibs	Ibs*	Ibs/ft
HP110/1524/C1X1/P	6.000	1.02	2.63	1.30	1.06	0.80	1.97	0.28	0.28	24,729	6,7443
HP160/1524/C1/AX1/P	6.000	1.50	3.50	1.50	1.26	0.89	2.36	0.39	0.39	35,969	71,939
HP160/1178/C1/AX1/P	7.000	1.50	3.50	1.50	1.26	0.89	2.36	0.39	0.39	35,969	71,939

Exceptional Performance, Superior Results

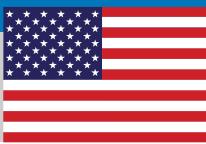


Cast Detachable Chains

Telephone: 309-698-9250



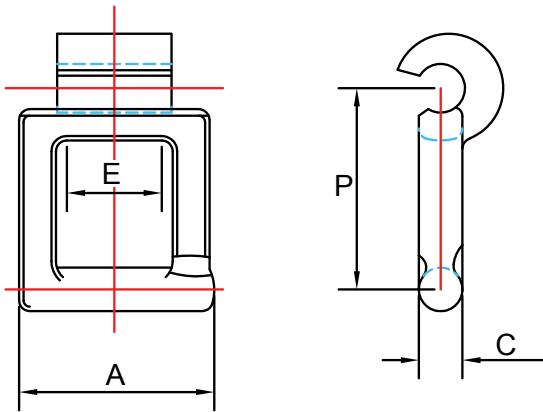
COBALT
a CROMANT chain company



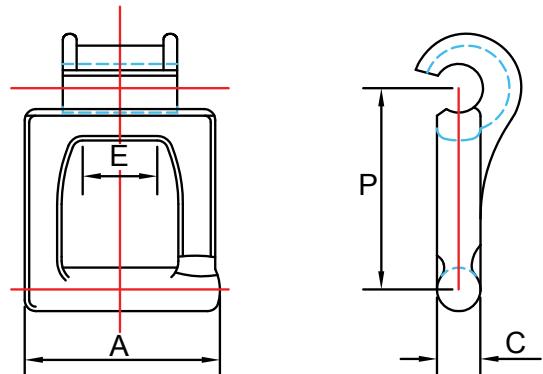
CAST DETACHABLE CHAINS - DOMESTIC STYLE

Cobalt Chains premium cast chains are most commonly used in material handling, sewage treatment, water filtration, fertilizer handling, sugar processing, waste wood conveying, and other applications. They are manufactured to withstand the abuse of industrial applications where cost-effective solutions are of great importance. These chains are assembled with heat-treated pins and slightly larger tolerances. This allows the material to easily work out of the connection points. Furthermore, they are designed and fully tested for dimensional consistency, interchangeability, and correct sprocket engagement.

Style A



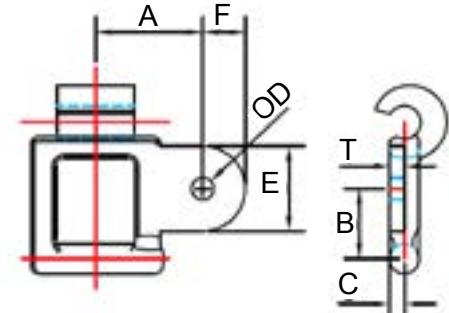
Style B



Type A1

Chain	A	B	C	OD	E	F	T	Weight
	in							lb/ft
32	0.88	0.63	0.09	0.19	0.75	0.31	0.13	0.50
42	1.09	0.66	0.09	0.25	1.13	0.50	0.13	0.70
45	1.13	0.88	0.13	0.25	1.19	0.56	0.16	0.75
51	0.91	0.59	0.13	0.19	0.75	0.34	0.13	0.92
52	1.19	0.78	0.13	0.25	1.06	0.50	0.13	1.04
55	1.13	0.88	0.13	0.25	1.38	0.56	0.16	0.95
57	1.50	1.13	0.19	0.25	1.81	0.88	0.19	1.55
62	1.44	0.84	0.16	0.25	1.31	0.56	0.19	1.50
72	1.63	1.00	0.22	0.38	1.25	0.63	0.22	2.40
77	1.56	1.25	0.19	0.25	1.63	0.88	0.22	1.89

Type A1

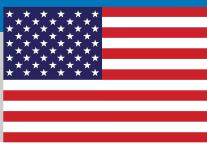




CAST DETACHABLE CHAINS - DOMESTIC STYLE

Domestic Style										
Chain	Style	Pitch	Width	Diameter of crossbar	Maximum sprocket face	No. of links in 10 ft	Average Ultimate Strength	Weight		
							A	C	E	lb
		in								
32	A	1.15	0.72	0.17	0.50	104	1,100	0.32		
33	A	1.39	1.03	0.17	0.50	86	1,200	0.32		
34	A	1.40	1.16	0.19	0.50	86	1,300	0.40		
42	A	1.38	1.28	0.22	0.63	88	1,600	0.55		
45	A	1.63	1.25	0.22	0.69	74	1,700	0.52		
48	A	2.00	1.50	0.22	0.81	60	1,600	0.53		
50	A	1.38	1.34	0.27	0.63	87	1,900	0.71		
51	A	1.56	1.16	0.27	0.56	104	1,900	0.70		
5.51	A	1.14	1.06	0.27	0.56	105	1,900	0.76		
52	A	1.51	1.47	0.27	0.63	80	2,300	0.80		
52 1/2	A	1.51	1.34	0.27	0.63	80	2,260	0.73		
O52	A	1.52	1.63	0.27	0.75	79	2,300	0.95		
55	A	1.63	1.30	0.27	0.69	74	2,300	0.70		
57	A	2.31	1.69	0.27	0.75	52	2,900	0.87		
62	A	1.65	1.55	0.31	0.81	73	3,200	1.04		
67	B	2.31	1.95	0.31	0.69	52	3,400	1.15		
72	A	2.03	1.91	0.42	0.69	59	4,240	1.60		
O72	B	1.65	2.31	0.38	1.00	73	4,340	1.95		
72 1/2	B	1.65	2.31	0.42	0.88	73	4,590	2.00		
O72 1/2	B	1.67	2.25	0.38	0.94	72	4,300	1.95		
75	A	2.61	1.97	0.41	0.94	46	4,100	1.34		
76 1/2	A	2.07	1.88	0.42	0.94	58	3,890	1.50		
77	B	2.30	2.19	0.39	0.69	52	3,600	1.45		
78	B	2.61	2.56	0.42	0.94	46	4,100	1.86		
83	B	4.00	3.09	0.48	1.06	30	4,950	1.90		
85	B	4.00	4.22	0.48	2.13	30	7,800	2.47		
88	B	2.61	2.72	0.48	0.94	46	6,400	2.30		
95	B	3.97	4.25	0.56	2.00	30	9,000	2.90		
103	B	3.08	3.25	0.58	1.13	39	10,000	4.00		
108	B	4.72	4.94	0.58	2.38	25 1/2	10,000	3.48		
114	B	3.25	3.44	0.66	1.13	37	12,000	5.25		
124	B	4.06	4.03	0.77	1.25	30	17,000	6.40		
E.1	A	2.04	1.88	0.41	0.94	59	3,800	1.50		

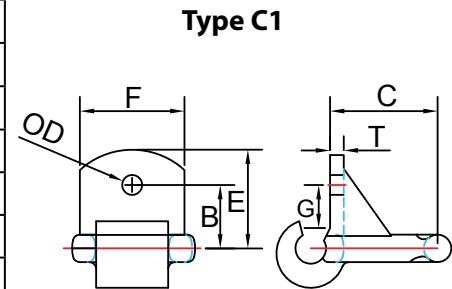
A comprehensive range of sprocket patterns is available for all of the above chains



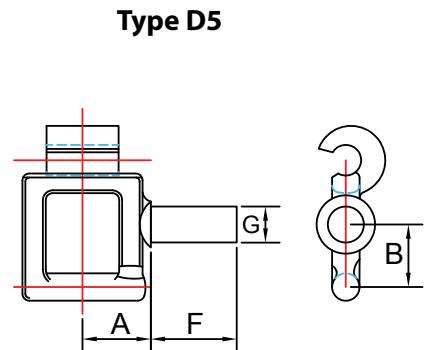
Exceptional Performance, Superior Results

CAST DETACHABLE CHAINS -DOMESTIC STYLE

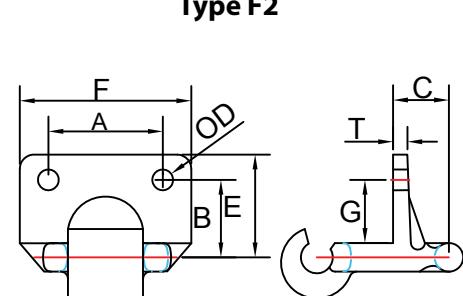
Type C1								
Chain	B	C	OD	E	F	G	T	Weight
	in							Ibs/ft
52	0.75	1.22	0.25	1.13	1.31	0.63	0.13	1.40
55	0.69	1.34	0.25	1.34	1.19	0.50	0.09	1.20
57	0.78	2.00	0.25	1.38	1.44	0.63	0.13	1.30
88	-	2.19	-	2.56	2.38	-	0.19	4.30



Type D5					
Chain	A	B	F	G	Weight
	in				Ibs/ft
45	0.75	0.88	1.00	0.50	1.10
52	0.84	0.75	1.63	0.56	1.92
55	0.88	0.81	1.31	0.44	1.50
57	1.06	1.13	1.19	0.63	1.68
62	0.88	0.81	1.75	0.50	2.10
75	1.25	1.19	1.44	0.88	2.50
78	1.50	1.31	1.75	0.88	3.40



Type F2									
Chain	A	B	C	OD	E	F	G	T	Weight
	in							Ibs/ft	
52	1.06	0.94	0.63	0.19	1.25	1.69	0.69	0.16	1.60
55	1.06	0.91	0.69	0.19	1.25	1.56	0.63	0.16	1.35
57	1.56	1.19	0.94	0.25	1.50	2.19	0.81	0.22	1.95
67	1.56	1.06	1.06	0.25	1.38	2.19	0.75	0.19	2.18
75	1.56	1.25	1.00	0.31	1.63	2.38	0.88	0.25	2.60
77	1.75	1.38	1.19	0.31	1.94	2.50	0.94	0.25	3.11
78	1.75	1.41	1.13	0.31	1.88	2.63	1.00	0.28	3.60
85	3.00	1.81	1.75	0.38	2.50	3.94	1.25	0.28	4.71
88	2.00	1.38	1.25	0.31	2.00	2.81	0.88	0.25	4.14
103	2.13	1.81	1.31	0.38	2.38	3.13	1.25	0.28	6.10



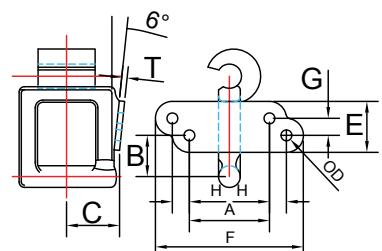


CAST DETACHABLE CHAINS - DOMESTIC STYLE

Type G6

Chain	A	B	C	OD	F	G	H	T	Weight
	in								lbs/ft
77	1.25	0.88	1.37	1.38	3.31	0.56	-	0.19	2.65
78	1.75	1.00	1.56	1.38	3.88	0.56	0.66	0.25	3.40

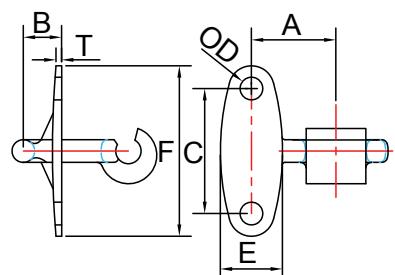
Type G6



Type G19

Chain	A	B	C	OD	E	F	T	Weight
	in							lbs/ft
77	1.75	1.19	2.63	0.25	0.63	3.31	0.19	2.80
78	2.00	1.38	2.63	0.31	0.63	3.50	0.25	3.35
88	2.00	1.38	2.63	0.31	0.63	3.50	0.25	4.30
103	2.38	1.69	2.88	0.38	0.75	3.88	0.25	6.15

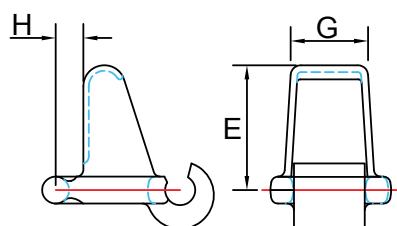
Type G19



Type H1

Chain	E	G	H	Weight
	in			lbs/ft
57	2.19	1.00	0.50	2.00
77	2.19	1.09	0.53	2.50
78	2.69	1.44	0.63	3.60
88	2.38	1.56	0.56	4.13

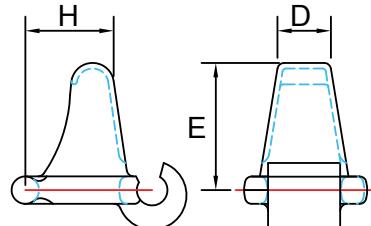
Type H1

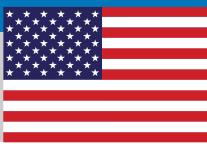


Type H2

Chain	E	G	H	Weight
	in			lbs/ft
57	2.19	1.00	2.00	1.84
75	2.44	1.06	2.28	2.30

Type H2



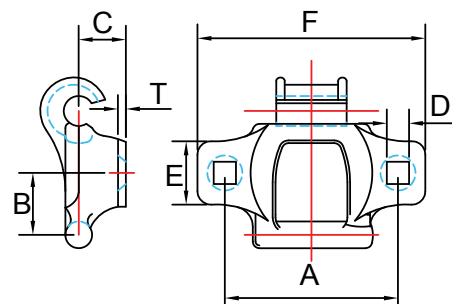


Exceptional Performance, Superior Results

CAST DETACHABLE CHAINS - DOMESTIC STYLE

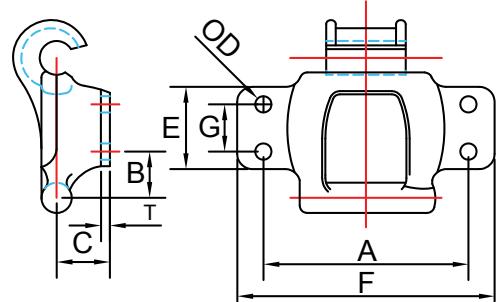
Type K1								
Chain	A	B	C	D	E	F	T	Weight
	in							lbs/ft
32	1.75	0.59	0.38	0.19	0.59	2.25	0.09	0.79
33	1.63	0.69	0.44	0.19	0.69	2.13	0.09	0.60
34	1.69	0.72	0.44	0.19	0.72	2.25	0.13	0.74
42	2.00	0.69	0.38	0.19	0.75	2.75	0.13	0.96
45	2.00	0.78	0.41	0.19	0.84	2.75	0.13	0.90
48	2.63	1.03	0.59	0.25	1.19	3.50	0.16	1.38
51	1.75	0.63	0.44	0.19	0.63	2.38	0.13	1.14
52	2.38	0.72	0.44	0.19	0.88	3.25	0.13	1.27
55	2.00	0.78	1.41	0.19	0.88	2.75	0.13	1.10
57	3.00	1.13	0.63	0.25	1.09	3.88	0.13	1.50
62	2.38	0.84	0.47	0.25	0.94	3.25	0.16	1.69
67	3.00	1.06	0.69	0.25	1.03	4.00	0.16	1.90
72 1/2	3.00	0.81	0.56	0.31	0.88	4.00	0.13	3.10
75	2.81	1.19	0.63	0.25	1.44	3.81	0.16	1.85
77	3.00	1.13	0.66	0.25	1.28	3.88	0.16	2.13
78	3.38	1.25	0.63	0.25	1.38	4.44	0.16	2.50
88	3.81	1.25	0.75	0.31	1.38	4.75	0.19	3.35
103	4.19	1.50	0.88	0.38	1.72	5.19	0.25	5.20

Type K1



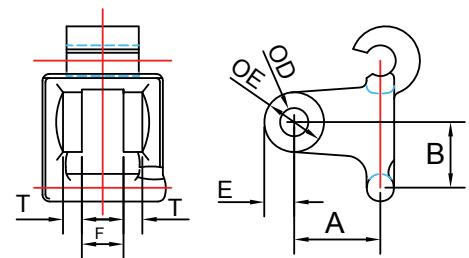
Type K2									
Chain	A	B	C	OD	E	F	G	Weight	
	in							lbs/ft	
77	3.00	0.72	0.66	0.25	1.56	4.00	0.81	0.13	2.33
85	5.19	1.13	0.81	0.38	2.56	6.19	1.75	0.19	3.79
95	5.19	1.13	0.81	0.38	2.56	6.19	1.75	0.22	4.65
103	4.13	0.81	0.81	0.50	2.31	5.25	1.50	0.31	5.54
108	6.25	1.16	0.88	0.38	3.31	7.25	2.31	0.22	5.57
114	4.25	0.81	0.81	0.50	2.50	5.38	1.50	0.41	7.70
124	5.25	1.25	1.13	0.38	3.13	6.50	1.94	0.28	10.08

Type K2



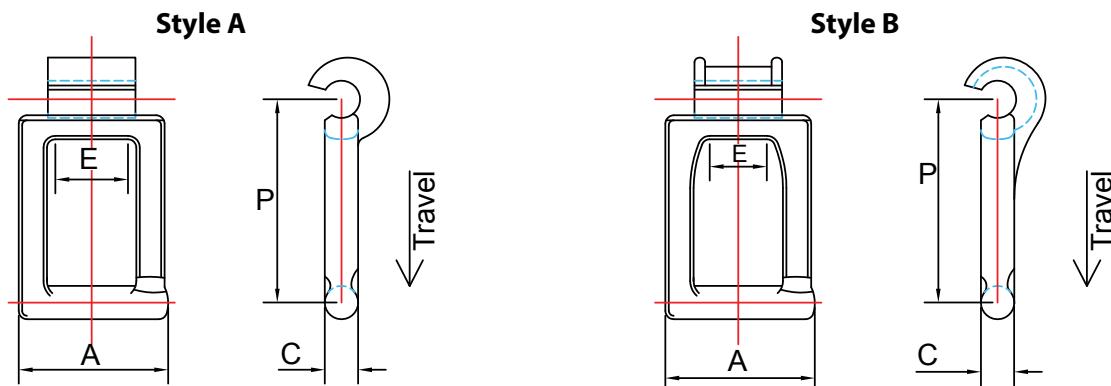
Type M3								
Chain	A	B	C	OD	E	F	T	Weight
	in							lbs/ft
83	1.44	2.00	0.69	0.63	1.38	1.00	0.44	3.80

Type M3



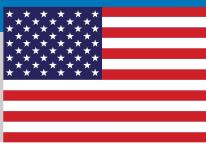


CAST DETACHABLE CHAINS - EUROPEAN STYLE



European Style

Chain	Style	Pitch		Width		Diameter of crossbar		Maximum sprocket face		No. of links in 10 ft.	Average Ultimate Strength		Weight	
				A		C		E			lb	kg		
		in	mm	in	mm	in	mm	in	mm		lbs/ft	kg/m		
32	A	1.14	29.00	1.03	26.00	0.16	4.00	0.50	14.00	106	850	385	0.42	0.62
33	A	1.38	35.00	1.06	27.00	0.16	4.00	0.50	14.00	87	850	385	0.42	0.62
42	A	1.38	35.00	1.38	35.00	0.25	6.00	0.63	16.00	87	2,000	910	0.72	1.08
45	A	1.61	41.00	1.38	35.00	0.22	5.50	0.69	17.00	75	1,500	680	0.57	0.85
48	A	2.03	51.50	1.63	41.00	0.23	5.60	0.88	23.00	59	2,000	910	0.66	0.98
52	A	1.52	38.50	1.50	38.00	0.25	6.00	0.81	21.00	80	2,250	1,020	0.90	1.34
55	A	1.64	41.70	1.38	35.00	0.27	6.50	0.63	16.00	73	2,500	1,140	1.00	1.51
57	A	2.32	59.00	2.00	50.00	0.31	8.00	0.94	25.00	52	3,000	1,360	1.16	1.74
57S	A	2.40	61.00	2.06	52.00	0.41	10.50	0.94	24.00	50	5,000	2,275	1.85	2.76
60	A	1.75	44.50	1.75	44.00	0.31	8.00	0.75	19.00	69	3,000	1,360	1.10	1.64
61	A	1.80	45.70	2.19	56.00	0.38	10.00	1.19	30.00	67	5,000	2,275	2.30	3.44
63	A	3.00	76.00	2.31	59.00	0.38	10.00	1.19	30.00	40	5,000	2,275	1.75	2.62
67	B	2.32	59.00	2.56	65.00	0.38	10.00	1.13	29.00	52	5,500	2,500	2.50	3.74
74	A	2.38	60.50	2.69	68.00	0.44	11.00	1.19	30.00	51	6,000	2,730	2.90	4.33
78	B	2.63	67.00	2.88	73.00	0.38	10.00	0.94	24.00	46	6,000	2,730	2.50	3.74
79	B	5.25	133.50	2.69	68.00	0.41	10.50	1.00	26.00	23	6,000	2,730	2.00	2.98
88	B	2.66	67.70	3.25	82.00	0.50	12.00	1.00	26.00	45	7,500	3,400	3.70	5.51
94	B	4.04	102.70	4.50	114.00	0.53	13.50	2.00	50.00	30	8,000	3,640	4.20	6.26
101	A	3.55	90.20	4.00	102.00	0.59	15.00	1.63	41.00	34	12,500	5,700	6.20	9.25
103	B	3.02	77.00	3.50	89.00	0.56	14.00	1.13	28.00	40	9,000	4,100	4.30	6.43
104	B	4.05	102.80	4.56	116.00	0.59	15.00	2.00	50.00	30	10,000	4,550	5.30	7.87



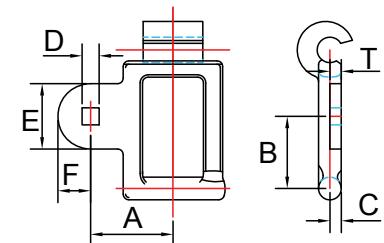
Exceptional Performance, Superior Results

CAST DETACHABLE CHAINS - EUROPEAN STYLE

Type A1

Chain	A		B		C		D		E		F		T	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
32	0.88	22.00	0.56	14.00	0.09	2.00	0.19	5.00	0.69	17.00	0.31	8.00	0.13	3.00
42	1.06	27.00	0.69	17.00	0.13	3.00	0.31	8.00	0.97	24.00	0.63	16.00	0.16	4.00
45	1.13	28.00	0.88	22.00	0.11	2.50	0.25	6.00	1.19	30.00	0.63	16.00	0.13	3.00
48	1.31	34.00	1.13	29.00	0.11	2.50	0.31	8.00	1.38	35.00	0.63	16.00	0.16	4.00
52	1.19	30.00	0.69	17.00	0.13	3.00	0.31	8.00	1.06	27.00	0.75	19.00	0.19	5.00
55	1.19	30.00	0.84	22.00	0.16	4.00	0.31	8.00	1.13	28.00	0.66	17.00	0.16	4.00
57	1.50	38.00	1.19	30.00	0.16	4.00	0.38	10.00	1.63	41.00	0.94	24.00	0.19	5.00
57S	1.56	40.00	1.31	33.00	0.22	6.00	0.31	8.00	1.63	41.00	0.94	24.00	0.25	7.00
60	1.31	33.00	0.94	24.00	0.16	4.00	0.31	8.00	1.13	14.00	0.56	14.00	0.16	4.00

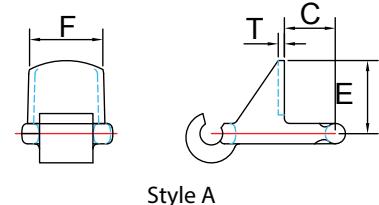
Type A1



Type C3

Chain	C		E		F		T	
	in	mm	in	mm	in	mm	in	mm
48	0.88	22.00	1.56	40.00	1.38	35.00	0.16	4.00
57	0.75	19.00	2.13	54.00	1.63	41.00	0.16	4.00
63	1.44	36.00	1.88	48.00	2.13	54.00	0.19	5.00
78	1.06	26.00	2.13	54.00	2.38	60.00	0.16	4.00
103	1.50	38.00	2.50	64.00	3.13	82.00	0.22	6.00

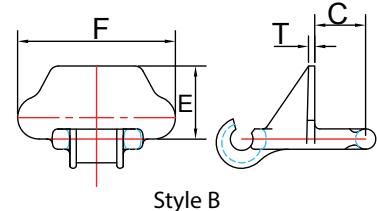
Type C3



Type C3

Chain	C		E		F		T	
	in	mm	in	mm	in	mm	in	mm
84	1.81	46.00	3.63	92.00	5.88	150.00	0.19	5.00
94	1.75	45.00	3.63	92.00	5.63	143.00	0.25	6.00
104	1.75	45.00	3.75	95.00	6.00	152.00	0.22	6.00

Type C3





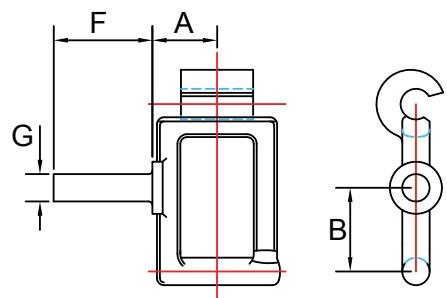
CAST DETACHABLE CHAINS - EUROPEAN STYLE

Type D5

Chain	A		B		F		G	
	in	mm	in	mm	in	mm	in	mm
42	0.81	21.00	0.50	13.00	1.56	39.00	0.50	13.00
52	0.75	19.00	0.63	16.00	1.63	41.00	0.53	13.00
55	0.75	19.00	0.75	19.00	1.44	36.00	0.53	13.00
57*	0.88	23.00	1.19	30.00	2.00	50.00	0.50	13.00

*No. 57 does not have a boss and is designated D.3.

Type D5

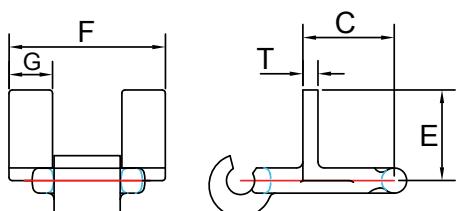


Type F1

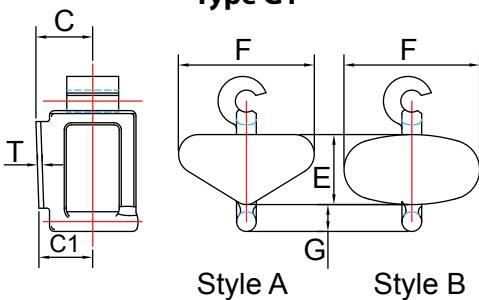
Chain	C		E		F		G		T	
	in	mm	in	mm	in	mm	in	mm	in	mm
45	1.19	30.00	1.25	32.00	2.38	60.00	0.75	19.00	0.16	4.00
52	1.00	26.00	1.25	32.00	2.63	67.00	0.81	21.00	0.13	3.00
55	1.19	30.00	1.19	30.00	2.56	65.00	0.81	21.00	0.16	4.00
57	1.63	41.00	1.56	40.00	3.00	76.00	0.94	24.00	0.16	4.00
57	1.88	47.00	1.81	46.00	3.13	80.00	0.94	24.00	0.22	6.00

Within limits these attachments can be drilled to suit customer's requirements

Type F1



Type G1



Type G1

Chain	Style	C		C1		E		F		G		T	
		in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
57	A	1.38	35.00	1.31	33.00	1.56	40.00	2.75	70.00	on CL	on CL	0.19	5.00
63	B	1.56	40.00	1.56	40.00	1.88	48.00	3.06	78.00	0.63	16.00	0.16	4.00
78	B	1.81	46.00	1.63	41.00	1.75	45.00	3.06	78.00	on CL	on CL	0.22	6.00
88	B	1.88	47.00	1.88	47.00	1.88	47.00	3.56	90.00	0.38	10.00	0.25	7.00

Within limits these attachments can be drilled to suit customer's requirements



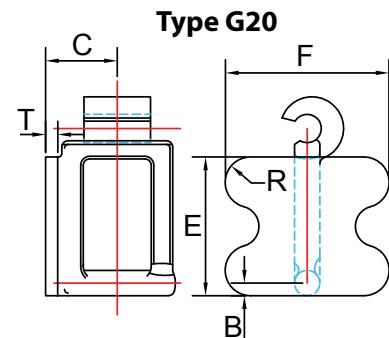
Exceptional Performance, Superior Results

CAST DETACHABLE CHAINS - EUROPEAN STYLE

Type G20

Chain	B		C		E		F		R		T	
	in	mm	in	mm								
57	0.16	4.00	1.31	34.00	2.38	60.00	2.50	63.00	-	-	0.16	4.00
67	0.63	16.00	1.63	41.00	3.38	86.00	2.75	70.00	0.50	13.00	0.25	7.00
74	0.50	13.00	1.63	41.00	3.31	84.00	2.69	68.00	0.44	11.00	0.22	6.00
79	1.00	25.00	1.50	38.00	3.50	89.00	2.88	73.00	0.50	13.00	0.22	6.00
88	0.25	7.00	1.56	40.00	2.63	66.00	3.13	80.00	0.50	13.00	0.25	7.00
103	0.75	20.00	1.88	48.00	3.50	89.00	3.50	89.00	0.63	16.00	0.25	7.00

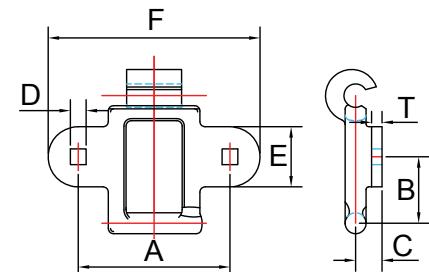
No. 57 is square not shaped. No. 79 B dimension is above the centre line.



Type K1

Chain	A		B		C		D+		E		F		T	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
32	2.00	51.00	0.63	16.00	0.25	6.00	0.19	5.00	0.75	19.00	2.81	71.00	0.13	3.00
33	2.00	51.00	0.69	17.00	0.25	6.00	0.19	5.00	0.75	19.00	2.94	74.00	0.13	3.00
42	2.19	55.00	0.69	17.00	0.38	10.00	0.19	5.00	0.75	19.00	3.19	80.00	0.16	4.00
45	2.00	51.00	0.75	19.00	0.38	10.00	0.19	5.00	0.88	22.00	2.81	71.00	0.13	3.00
48	2.44	62.00	1.06	27.00	0.56	14.00	0.31	8.00	1.13	28.00	3.38	86.00	0.13	3.00
52	2.25	58.00	0.75	19.00	0.44	11.00	0.31	8.00	0.81	20.00	3.13	79.00	0.16	4.00
55	2.19	55.00	0.81	20.00	0.38	10.00	0.31	8.00	1.00	25.00	3.19	80.00	0.13	3.00
57	3.06	78.00	1.13	29.00	0.56	14.00	0.38	10.00	1.25	32.00	4.13	105.00	0.16	4.00
60	2.50	63.00	0.81	21.00	0.50	13.00	0.31	8.00	1.00	25.00	3.38	85.00	0.16	4.00
61	3.31	84.00	0.88	22.00	0.63	16.00	0.38	10.00	1.00	25.00	4.38	111.00	0.22	5.00
63	3.63	92.00	1.50	38.00	0.75	20.00	0.38	10.00	1.50	38.00	4.88	124.00	0.22	5.00
67	3.88	98.00	1.13	29.00	0.69	18.00	0.38	10.00	1.31	33.00	4.88	124.00	0.16	4.00
74	3.44	88.00	1.25	32.00	0.56	15.00	0.44	11.00	1.31	34.00	4.56	116.00	0.22	5.00
78	3.75	95.00	1.31	33.00	0.75	19.00	0.38	10.00	1.38	35.00	5.00	127.00	0.19	5.00
88	4.13	105.00	1.31	33.00	0.81	21.00	0.44	11.00	1.50	38.00	5.25	133.00	0.22	5.00
101	5.13	130.00	1.88	48.00	1.00	25.00	0.50	13.00	2.00	50.00	7.13	181.00	0.25	6.00
103	4.31	110.00	1.50	38.00	0.81	21.00	0.44	11.00	1.69	43.00	5.56	141.00	0.25	6.00

Type K1

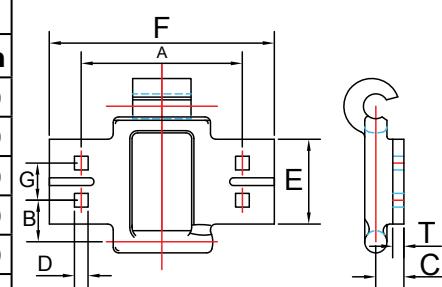


Type K2

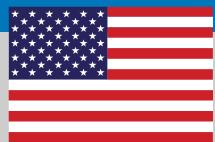
Chain	A		B		C		D		E		F		G		T	
	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm	in	mm
79	4.06	103.00	1.38	35.00	0.81	21.00	0.50	12.00	3.75	95.00	5.25	134.00	2.50	63.00	0.25	7.00
88	4.00	102.00	0.81	21.00	0.75	20.00	0.38	10.00	2.00	50.00	5.00	127.00	1.00	25.00	0.25	7.00
94	5.81	148.00	1.31	33.00	0.88	22.00	0.44	11.00	2.63	67.00	7.00	178.00	1.50	38.00	0.22	6.00
103	4.31	109.00	0.94	24.00	0.88	22.00	0.38	10.00	2.19	55.00	5.50	140.00	1.13	28.00	0.25	7.00
104	5.88	149.00	1.31	33.00	0.88	22.00	0.44	11.00	2.63	66.00	7.00	178.00	1.50	38.00	0.31	8.00

No. 79 has two lugs each side as indicated by dotted lines.

Type K2



Exceptional Performance, Superior Results

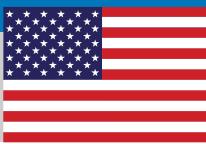


Sprockets & Apron Slats

Telephone: 309-698-9250

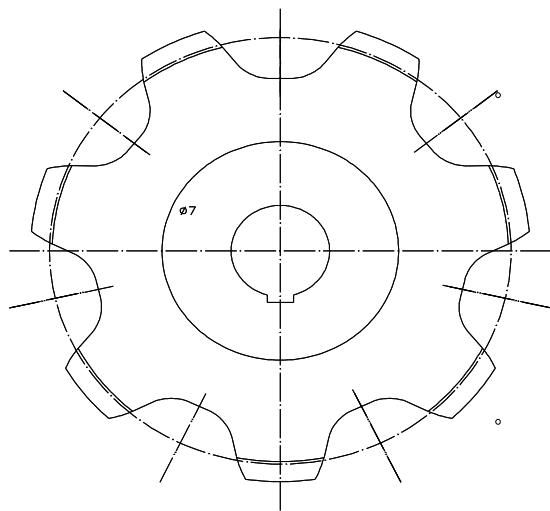
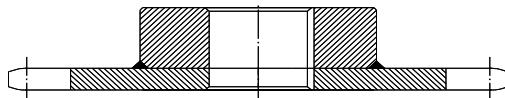


COBALT
a CROMANT chain company

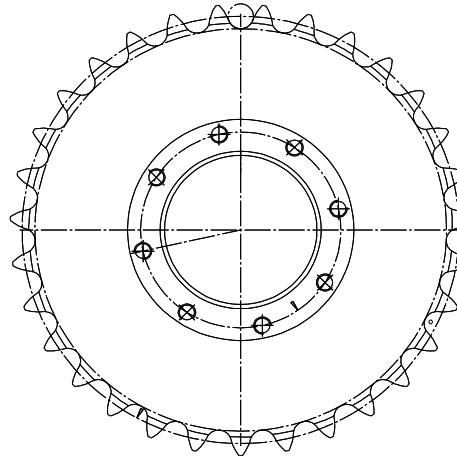
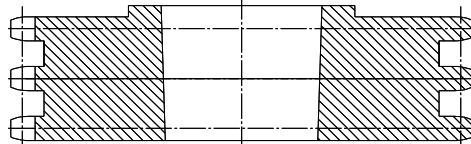


SPROCKETS

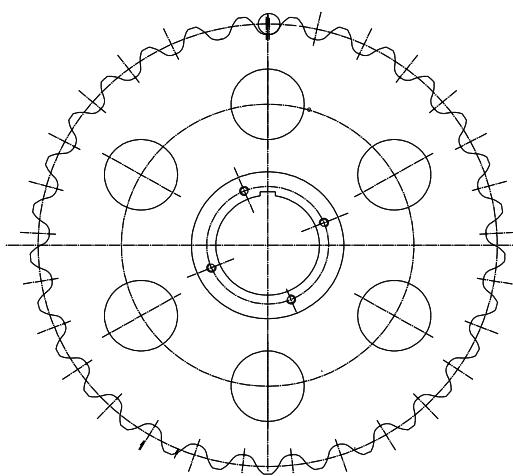
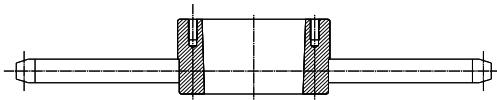
Cobalt Chains is the number one source for industry-standard and custom sprockets. Our CAD department is able to design virtually any combination of sprockets for your individual application. We specialize in unique design solutions to overcome abrasion or corrosion problems in industries such as sugar, waste-to-energy, cement, pulp and paper, commercial grain handling and chemicals & fertilizers.



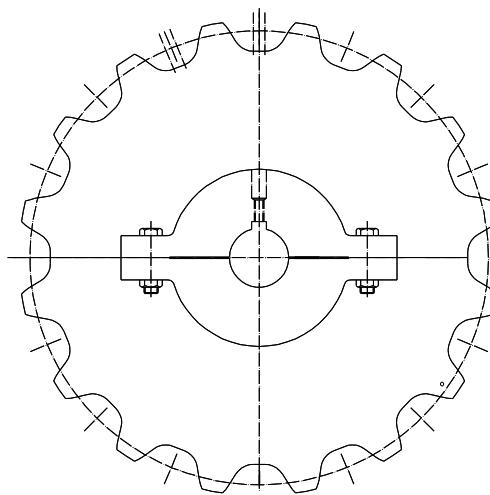
STANDARD SPROCKET



MULTI-ROW SPROCKET



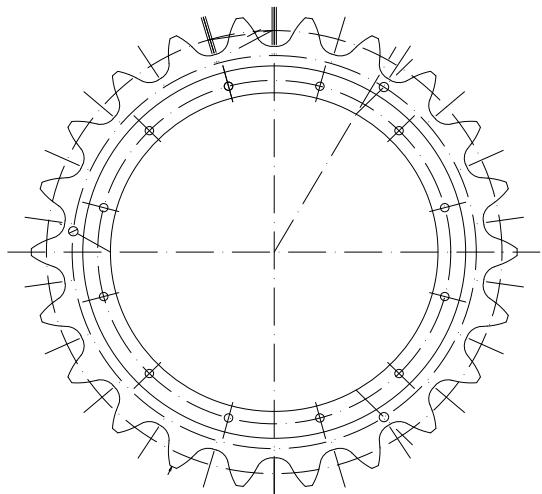
TAPER-BUSH SPROCKET



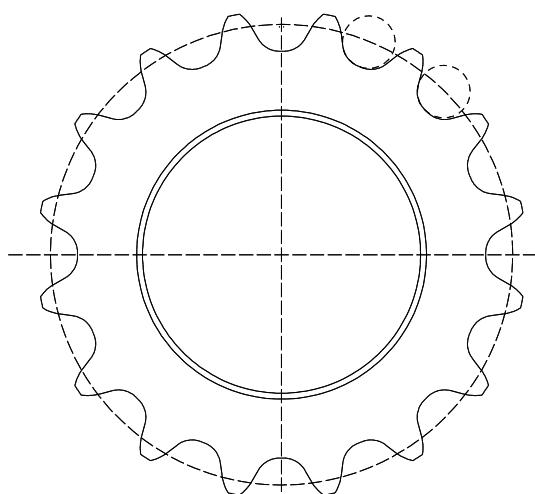
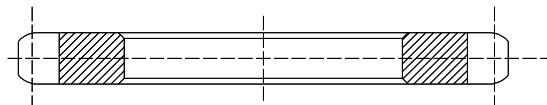
HALF-PITCHED SPROCKET



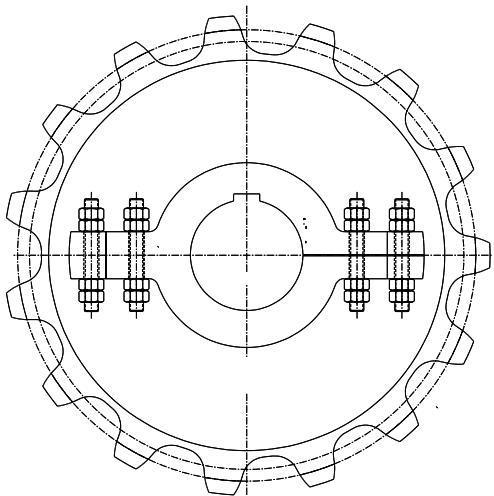
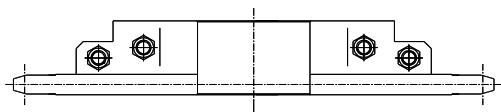
The design details are then sent to our fabrication department for replication in one of any number of combinations of steel alloy's and heat treatments. You can rely on Cobalt Chains to provide you with the best long term solution for your specific application.



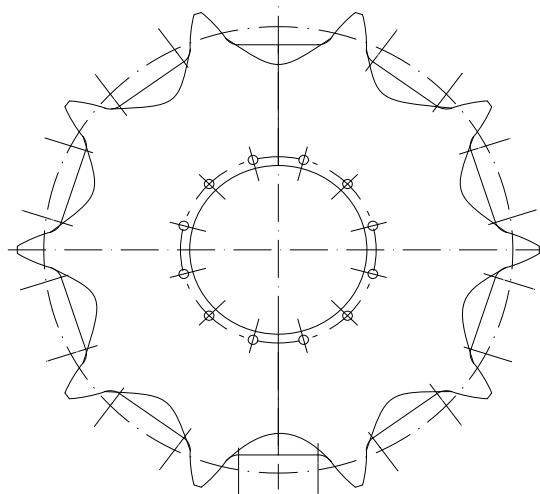
BOLT-ON A-PLATE SPROCKET



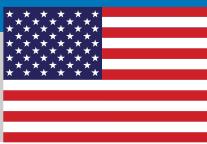
WELD-ON A-PLATE SPROCKET



TWO-PIECE SPLIT SPROCKET

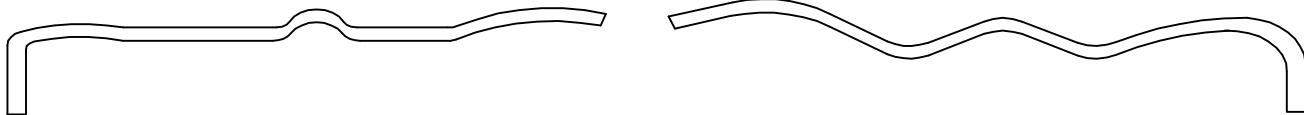
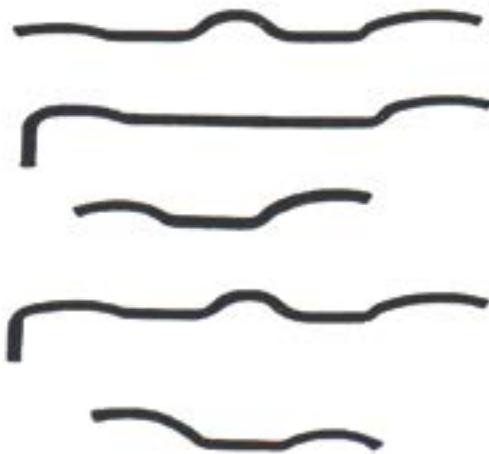


MUD-GROOVE SPROCKET



Exceptional Performance, Superior Results

SLATS AND SCRAPER



ENQUIRY REF: _____ QUANTITY: _____

CHAIN REF: _____ ATTACHMENT: _____ STYLE(C,A,G ETC): _____

NO. OF STRANDS: _____ LENGTH: _____ THICKNESS: _____

MATERIAL: _____ BOLT DIA: _____

ADDITIONAL INFORMATION: _____

DRAWING No. _____



Chain Elongation Chart

Chain Allowable Elongation Chart Based on 10 Pitches

Forged Chain						
Chain	Pitch		0% Wear Over 10 Pitches		2.5% Wear Over 10 Pitches	
	mm	in	mm	in	mm	in
CF102	101.60	4.000	1,016.00	40.000	1,041.40	41.000
CF142	142.00	5.591	1,420.00	55.906	1,455.50	57.303
CF200	200.00	7.874	2,000.00	78.740	2,050.00	80.709
CF216	216.00	8.504	2,160.00	85.039	2,214.00	87.165
CF260	260.00	10.236	2,600.00	102.362	2,665.00	104.921

Measure 10 links from center to center of pin

Example - CF142 Chain

0% wear over 10 pitches = 1,420.00 mm/55.906 in

2.5% wear over 10 pitches = 1,455.50 mm/57.303 in



M Series Chain

	Pitch		0% Wear Over 10 Pitches		5% Wear Over 10 Pitches	
	mm	in	mm	in	mm	in
160	160.00	6.299	1,600.00	62.992	1,680.00	66.142
200	200.00	7.874	2,000.00	78.740	2,100.00	82.677
250	250.00	9.843	2,500.00	98.425	2,625.00	103.346
315	315.00	12.402	3,150.00	124.016	3,307.50	130.217

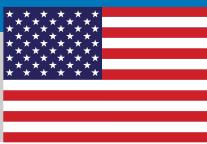
Measure 10 links from center to center of pin

Example - 160 Pitch Metric Chain

0% wear over 10 pitches = 1,600.00 mm/62.992 in

5% wear over 10 Pitches = 1,680.00 mm/66.142 in





Exceptional Performance, Superior Results

QUALITY *is our primary concern.*

Cobalt Chains is committed to helping our customers achieve and exceed their goals. We work to achieve this through consistent teamwork, as well as a passion for quality and service excellence.

The cornerstone of Cobalt Chains' quality and reliability is to achieve 100% customer satisfaction. This is accomplished by providing the best products, on-time delivery, and service consistency. Our management team is fully committed to this goal. Furthermore, our dedicated employees help to achieve this goal by their continued involvement and commitment.

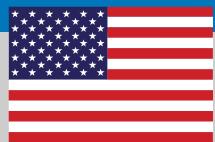
We have adopted the ISO 9001 Quality System as a foundation to provide a work environment that will promote learning, team involvement and continuous improvement as outlined in our Quality Manual.



Quality Control Testing



Physical testing of weld for PQR



CUSTOM FABRICATION

Cobalt Chains is the number one source in North America for custom chains and sprockets. Our CAD department is able to design virtually any combination of special chain and sprockets for your individual application. We specialize in unique design solutions to overcome abrasion or corrosion problems in industries such as waste-to-energy, Portland cement, pulp and paper, commercial grain handling and chemicals & fertilizers. The design details are then sent to our manufacturing department for replication in one of any number of combinations of steel alloys and heat treatments.



MACHINING

Cobalt Chains is able to provide a many types of machining and tooling services for the materials handling industry as well as industry in general. Our specialties are shafts & sprockets for the chains we manufacture, but we are able to fabricate other machined parts as well. We have a fully equipped shop with CNC machinery including lathes, end mills, machining centers, presses, saws, hi-definition plasma, press brakes and a hydraulic shear.



LASER PROFILING

Cobalt Chains now offers CNC Laser Profiling. This new service enhances our in-house machining capabilities by offering greater accuracy, more versatility, improved efficiency and cleaner, more consistent products. We are excited to implement laser profiling for our current products, including sprockets, flights and attachments, but furthermore to offer new products to meet your custom designs. Our 6,000 kW laser cuts carbon steel, stainless steel, aluminum alloy, brass, copper, galvanized steel and other materials at thicknesses up to one inch.



TURN-KEY CONVEYOR CHAINS

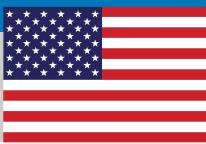
Cobalt Chains is able to manufacture complete custom turn-key conveyor chain systems using Cobalt Chains carbon steel or stainless steel chains. These systems are supplied to our clients including steel attachments/flights with or without polymeric paddles. The paddles are pre-installed and can be regular white UHMW, reprocessed UHMW, high temperature UHMW, nylon as well as polyurethanes and rubbers for all applications. These chains are fully assembled in our shop and quality tested for easy on-site installation by our clients.



WELDING

Cobalt Chains has full shop welding capabilities including MIG and TIG. In 2016, we installed a CNC automated welding robot to assure the highest quality and repeatability of the production welds we perform. The robot has enabled us to speed up delivery times as well as reduce pricing on custom welded chains. With in-house press breaks, metal workers and shear, Cobalt Chains can quote and supply most weldments for your conveying & construction projects, just send us your drawings or sketches.





Exceptional Performance, Superior Results

TERMS & CONDITIONS

GENERAL

In placing an order with Cobalt Chains, Inc. (hereafter referred to as "Company"), the Buyer shall be deemed to have accepted these Terms and Conditions unconditionally, which cannot be varied except by agreement in writing between the parties. Buyer has read and understands these Standard Terms and Conditions. Buyer's acceptance limits terms of contract to the Company's Terms and Conditions, and Buyer's standard conditions of purchase shall not apply and are hereby rejected unless specifically accepted in advance in writing.

1) Orders

All orders are subject to acceptance by the Company and once accepted cannot be canceled by the Buyer, except by agreement of the parties in writing.

2) Prices

All prices shall be those ruling at the time of the dispatch of goods.

3) Freight

Orders are on an Ex-works basis with freight costs and packaging extra, unless otherwise specified at quotation stage.

4) Terms of Payment

(i) Payment for all goods delivered shall be made in full without any deductions (unless previously accepted in writing by the Company) 30 days from invoice date, unless alternative terms are agreed and confirmed in writing by the Company. Buyer agrees that it shall not include any notation or statement of accord and satisfaction on any payment and any attempt to do so is hereby agreed to be invalid and unenforceable.

(ii) Where delivery is not part of the Contract and the Buyer has been informed that the goods are ready for collection and collection is not made within three weeks, a storage charge may be made.

5) Performance Contract

The Company makes no guarantees based on estimates. Every effort will be made to carry out any contract in accordance with the Company's estimate or specification, but the due performance of any contract is subject to a variation or cancellation due to strikes, official or unofficial lockouts, government restrictions, fire flood or any other causes beyond the Company's control. The company shall not be liable for any loss arising from such variation or cancellation. If the necessary materials are not available the Company may at its discretion give notice of such non-availability and rescind or revise the Contract as to the whole or any specified part. Where no specification on the materials to be used has been defined, the material to be used shall be at the Company's sole discretion. Design or catalogue specifications may be changed by the Company at any time without notice.

6) Taxes

All taxes are excluded from the agreed Purchase Price. Any city, state, and federal sales, use, excise, or similar taxes which the Company may be required to pay or collect under any existing or future law, upon or with respect to the sale, purchase, delivery, storage, processing, use or consumption of any of the goods conveyed hereby, including taxes upon or measured by the receipts from the sale thereof, shall be for the account of the Buyer, who shall promptly pay the amount thereof to the Company upon demand. Where taxes do not apply upon sale or resale, Buyer shall provide the Company with tax exemption certificates acceptable to the appropriate taxing authorities.

7) Cancellation by the Company

Without prejudice to any other rights it may have the Company reserves the right to cancel any uncompleted order or to suspend delivery of any goods the subject thereof in the event of the Buyer failing to make due payment of any monies due to the Company under that or any other order (within the payment terms specified in 4i) of these conditions.

8) Cancellation by Buyer

In the event of cancellation by the Buyer of any order for products specially manufactured by the Company to individual specifications and not marketed by the Company as standard lines, the Company shall be entitled to charge a minimum cancellation fee of 20% of the purchase price as well as for all lost profit and expenses incurred in the preparation and manufacturing process and resale of such products. Company shall attempt to mitigate damages, but Buyer agrees the Company has no legal requirement to do so.

9) Returns

When goods are tendered by the Company and returned due to causes outside its control the Company may refuse to accept the return of such goods, or if it does so accept them, it shall be entitled to make an additional charge in respect of the cost of transport and double handling necessitated by such return.

10) Installment orders

Whereby agreement between the Company and the Buyer, delivery of goods is to be made by installments, each installment delivered will be invoiced to the Buyer as if the subject of a separate order and the Buyer shall make payment therefore within the period specified by paragraph 4 of these conditions. Failure by the Company to deliver any one or more such installments shall not entitle the Buyer to refuse to accept delivery of any other installment nor shall the Buyer's liability to the Company with regard to those other installments be in any way affected. Once the Buyer accepts an installment, the Buyer waives any claims regarding the product on any subsequent installment based on the same specifications and design.

11) Back charges

Any and all back charges or any claim not specifically covered by the Company's warranty agreement are expressly waived by Buyer against the Company.

12) Damage of Goods

The Company shall not be liable to the Buyer in respect of any goods which may be delivered in a damaged condition unless the Buyer endorses the delivery note to the effect that the goods were so damaged or accepted without examination and thereafter within three days of delivery gives full details in writing to the Company of all such damage or (in case of total loss) the covering documentation. Damaged goods should be retained pending the Company's inspection and disposal instructions.

13) Limited Liability

The Company will at its own discretion repair, replace (as originally ordered) or refund the price of any goods which may be supplied to the Buyer in a defective condition if in the opinion of the Company such goods are defective solely by reason of faulty materials or workmanship, provided that the Buyer within 14 days of delivery of the goods alleged to be defective, gives notice in writing to the Company of the alleged defect.

14) Indemnity

Unless expressly provided in these conditions, the Company will not be liable for any loss, expenditure or damage, consequential or otherwise, suffered or incurred by the Buyer or by third parties whether arising directly or indirectly from any defect in quality or workmanship, and the Buyer shall indemnify the Company against any liability arising from claims made by any third party, after the goods have been accepted by the Buyer.



TERMS & CONDITIONS

15) Delivery Dates

Delivery estimates are not guarantees. Company cannot guarantee delivery date. Whilst every effort is made to ensure that goods are delivered on the due date, the Company shall not be liable for any delays in delivery which may occur. Non-delivery or quality rejection claims cannot be entertained unless Company is informed within 14 days of the date of invoice. If the Company submits a sample for the Buyer's approval, the period specified for delivery on the Company's quotation shall commence on the date when the Company receives such approval in writing. The Company may at any time give notice of revised delivery dates, and unless the Buyer cancels the Contract within seven days of receiving notice of such revised dates, the Buyer shall accept the same.

16) Quantities

The Company will make every effort to produce goods in the precise quantity ordered by the Buyer but the Buyer acknowledges and agrees to accept and to make payment for deliveries where the variation does not exceed 10% of the quantity ordered. Prices quoted by the Company in all estimates, specifications, acceptances of orders, or Contracts are based upon the full quantities therein and the Company shall be entitled to revise prices if the Buyer fails to take delivery of the quantity on which the estimate was based.

17) Property in Goods Sold and Unpaid Sellers Rights

(a) So long as any payment from the Buyer to the Company is outstanding (whether or not the time for payment has yet become due) the title in the goods, until re-sale, shall not pass to the Buyer.

(b) If the goods should become constituents of or be converted into other products before the title passes from the Company, such other products shall pass into the ownership of the Company, and the Company shall have the same rights and remedies over such other products as over the goods in their unconverted state.

(c) If the goods are re-sold by the Buyer while any payment remains outstanding to the Company, (whether or not the time for payment has yet become due) the Buyer shall be deemed to sell as Agent of the Company, who shall be entitled to payment from the Buyer's purchaser to the extent of the Buyer's Indebtedness.

(d) Notwithstanding the foregoing provisions the risk in the goods shall pass to the Buyer immediately once the goods leave the Company's premises, notwithstanding the fact that delivery may be undertaken by the Company at the Buyer's request.

18) Patent Infringement Indemnity

The Buyer will indemnify the Company for all costs (including but not limited to legal fees and damages) against any claim for infringement of patents or registered designs or trademarks as a result of the Company carrying out the Buyer's instructions.

19) Drawings and Design Specifications

(a) The Company accepts no responsibility for the accuracy of drawings and/or design specifications supplied by the Buyer, nor for any claim which may arise as a result of using such drawings or specifications.

(b) All drawings and design specifications and other information supplied by the Company is supplied on the express understanding that the Buyer will not:

- (i) Give away, loan, exhibit, sell or otherwise divulge any such information or copies thereof; or
- (ii) Use the information in any way except in conjunction with the goods for which they are issued.

20) Entire Agreement/Modifications

These Terms and Conditions constitute the complete and final agreement between the Company and Buyer with respect the subject matter hereof and supersede all prior oral or written agreements and may not be modified or amended except in writing by the Company.

21) Enforceability

If Buyer fails to perform in any way under or with respect to these Terms and Conditions, the Company expressly reserves any and all rights and remedies permitted by law or in equity and may recover all reasonable attorney fees, court fees, or any other cost incurred to enforce Buyer's obligations and or with respect to the Terms and Conditions. All rights and remedies of the Company are cumulative.

22) Authority

Buyer warrants that the person providing the purchase order or agreement is duly authorized to do so and establishes acceptance of these Terms and Conditions.

23) Buyer's Acknowledgment

In placing an order with the Company, the Buyer shall be deemed to have accepted these terms and conditions unconditionally.

24) Approval Drawings

For orders requiring an approval drawing, if approval drawing is not confirmed within one calendar month of the original order date, the order will be closed and cancellation fees and drawing CAD charges will be applied.

25) Legal Proceedings

Any action or suit shall be construed in accordance with Illinois law and have a situs in Tazewell County, Illinois, which shall have jurisdiction in any dispute in connection therewith.

26) ARBITRATION

At the exclusive discretion of the Company, the Company can opt to resolve through adversarial dispute resolution any disputes arising out of this agreement, Buyer agrees that any disputes may be resolved by arbitration administered by the American Arbitration Association in accordance with its Commercial Arbitration. Judgment on the award rendered in any such arbitration is binding and may be entered in any court having jurisdiction. The arbitration will be conducted in the English Language in or within 50 miles of East Peoria, Illinois in accordance with the United States Arbitration Act. There shall be three arbitrators, named in accordance with such rules. The award of the arbitrators shall be accompanied by a statement of the reasons upon which the award is based. The arbitrators shall decide the dispute in accordance with the substantive law of the state of Illinois.

27) Quotations/Estimates

Under no circumstances are quotations/estimates provided by the Company valid for a period of more than 30 days from the date of said quotation/estimate.



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