CAST DRAG CHAINS AND LONG LINK CHAINS

I'ANCO

HEADQUARTERS 514.886.5270
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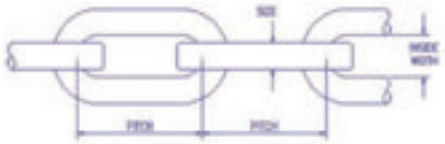
Long Link Chain

l'ANCO Products can help keep you competitive in a demanding marketplace. As the pioneer of the squared profile for long link chain, l'ANCO recommends this style of chain for your log haul and waste conveyor requirements.

Available in both Austenitic Manganese and Alloy 2A (a controlled balanced selection of strength enhancing elements), l'ANCO can provide a solution to your conveying needs.

SQUARE PROFILE LONG LINK CHAIN				
CHAIN SIZE	EST.WT. (lbs)	MANGANESE MAX WORKING LOAD **	ALLOY 2A MAX WORKING LOAD **	ULTIMATE STRENGTH
1x1-3/4x6	9	20,000	24,000	100,000
1-1/8x2x6	13	25,000	30,000	125,000
1-1/4x2x6	16	30,000	36,000	150,000
1-1/2 x 2-1/4x8	21	43,000	51,000	215,000
1-3/4 x 2-1/2x8	30	58,000	69,000	285,000

** Working load is material specific Contact us for more details



Connecting Links

l'ANCO Products offers two styles of connecting links for your cast square long link. Depending on the material of your original chain, l'ANCO can provide a #4 Alloy Weld In Style link or a #5 Manganese Lap Style link.

CONNECTING LINKS	
CHAIN SIZE	EST. WT. (lbs)
1 x 1-3/4 x 6	4,5
1-1/8 x 2 x 6	6
1-1/4 x 2 x 6	7
1-1/2 x 2-1/4 x 8	15
1-3/4 x 2-1/2 x 8	21,5

#4 Alloy Weld in Style

#5 Menganese Lap Style

Series 300 Integral Fixed Loop Flight

When reliability counts, I'ANCO Series 300 integral flights are the number one choice for pulpwood applications. The rugged box design include one pitch of our square profile chain with the flight and is joined with #5 lap links at the factory and #4 weld-in style for field repairs.

I'ANCO Products builds our cast chains with integral flights to suit your specific requirements. The flights are spaced accordingly to minimize wear and maximize throughput. The symmetrical design of the heavy-duty flights allows for the chain to drag material on either the carry or return runs, or to be flipped extending the life of the chain. The box design with the internal gussets provides the best combination of lightweight and high strength. I'ANCO builds in thicker wear surfaces so the components last longer.

I'ANCO Series 300 flights are offered in either cast manganese or Alloy 2A steel depending on your conveyor's specific requirements. The manganese flights work hardens in the correct applications and develops a tough hardened surface that will resist wear. In dry, gritty applications with negligible impact, I'ANCO recommends our cast Alloy 2A. The Alloy 2A flights are heat-treated providing a through-hardened product to ensure long life without compromise.

I'ANCO cast Series 300 flights are available from 4" to 6" high depending on the size of the chain and up to width of 48".

SERIES 300 INTEGRAL FIXED LOOP FLIGHT		
CHAIN SIZE	HEIGHT	WIDTH
1 x 1-3/4 x 6	4"	18" up to 30"
1-1/8 x 2 x 6	4-1/2 and 5"	12" up to 36"
1-1/4 x 2 x 6	4-1/2 and 5"	12" up to 36"
1-1/2 x 2-1/4 x 8	5 and 6"	26" up to 48"
1-3/4 x 2-1/2 x 8	5 and 6"	26" up to 48"

Series 400 Alloy Dual Tang Flight

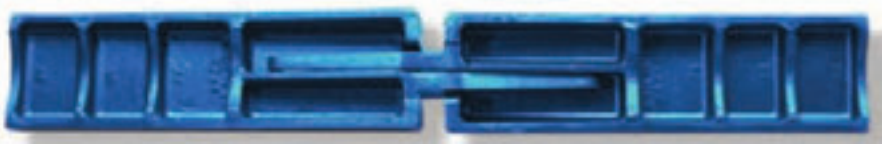
I'ANCO's cast alloy Series 400 dual tang flights are manufactured from a carefully selected combination of alloys which, in the heat treated condition has proven itself as a tough, long wearing product that can be easily welded. The superior grade of steel is selected because of its added strength and durability, enabling movement of a higher volume of product for longer periods of time.

Installation

I'ANCO's Series 400 flights are supplied as two identical pieces per flight. To assemble, use a vertical link with the vertical face of the flight facing the running direction of the chain. Slide the two tangs together until the body rests against the link on both sides. Clamp in position and tack each end, both sides; also tack the tangs to the ribs on the outer edge. When tacking is completed, finish with two passes on the chain and one pass on the tang.

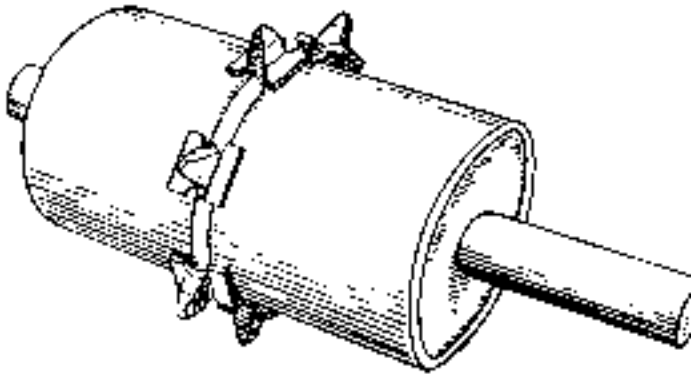
I'ANCO cast Series 400 flights are available from 4" to 6" high depending on the size of the chain and up to width of 48".

SERIES 400 ALLOY DUAL TANG FLIGHT		
CHAIN SIZE	HEIGHT	WIDTH
1 x 1-3/4 x 6	4"	12" up to 30"
1-1/8 x 2 x 6	4-1/2 and 5"	12" up to 40"
1-1/4 x 2 x 6	4-1/2 and 5"	12" up to 40"
1-1/2 x 2-1/4 x 8	6"	26" up to 48"
1-3/4 x 2-1/2 x 8	6"	26" up to 48"



In Alloy & Austenitic Manganese Steel

I'ANCO PRODUCTS LTD. is pleased to introduce its new line of economically priced cast austenitic manganese and alloy steel sprockets. We noware stocking “A” plates for 6" pitch long link chains and standard-sized hubs.



Austenitic manganese steel sprockets will remain the l’ANCO standard for all waste, chip, and hog fuel conveyors. The work-hardening characteristics of austenitic manganese steel significantly extend sprocket life in these applications. The carrying face of each tooth will work hard- en up to 550 BHN, preventing premature tooth wear.

Alloy steel sprockets are designed to operate in areas subject to severe, abrasive media, such as wet & dry ash handling systems and waste conveyors with abnormal amounts of sand and grit. These sprockets are typically quenched and tempered to 370 BHN, but can be customized upon request and hardened to a maximum of 550 BHN. And that’s not just skin deep. We recommend alloy steel for these very abrasive applications as extremely abrasive media wear away the work-hardening skin of manganese steel before it reaches full hardness.

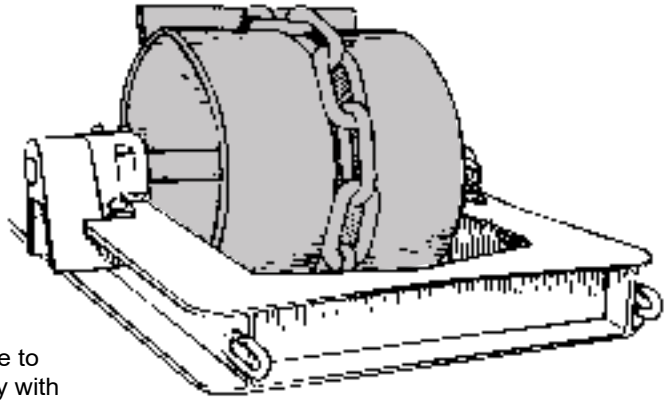
l’ANCO sprockets are cast with a double taper tooth, allowing the tooth to catch the chain as it comes around every time. The tooth location and pitch diameter are fixed on the pattern, ensuring a perfectly running sprocket every time.

l’ANCO sprockets are manufactured in a modular system, allowing us to customize your sprockets and sprocket drum assemblies with the shortest possible lead times. As well, l’ANCO Products manufacturers a complete line of log haul sprockets, replaceable rim and flanged drum sprockets.

Chain Size	Standar d Drum Size D	Body W	Body T	Radius R	Standar d Bor e Sizes A	Patter n #
5 Tooth Sprocket						
3/4 & 7/8 x 1 1/2 x 6	14 1/2	As ordered	1/2	8 5 / 8	1 15/16 - 3 15/16	A1-2180
1 & 1 1/8 x 1 3/4 x 6	14 1/2	As ordered	1/2	8 7/16	1 15/16 - 3 15/16	A1-1211
1 1/8 & 1 1/4 x 2 x 6	14 1/2	As ordered	1/2	8 1 / 8	1 15/16 - 3 15/16	A1-1212
7 Tooth Sprocket						
3/4 & 7/8 x 1 1/2 x 6	21 1/4	As ordered	1/2	12 5/16	1 15/16 - 3 15/16	A1-2183
1 & 1 1/8 x 1 3/4 x 6	21 1/4	As ordered	1/2	12 1 / 4	1 15/16 - 5 7/16	A1-1119
1 1/8 & 1 1/4 x 2 x 6	21 1/4	As ordered	1/2	12 1/32	1 15/16 - 5	

Alloy Steel Single - Groove Drums

l'ANCO's "alloy steel" is a carefully selected balance of chrome, nickel and molybdenum that is heat-treated to produce desired mechanical properties.



l'ANCO single-groove drums are cast in alloy steel and quenched and tempered to typically 300 BHN, which dramatically slows groove wear, producing a substantially longer service life. We also offer alloy steel wear area or welded-on austenitic manganese steel wear strips. The horizontal link rides on this hardened area and, along with the hardened groove, produces a superior drum life.

We stock all standard-sized drums, hubs, end discs, and pipe to produce a custom built, high-quality, single-groove drum assembly with a quick delivery. l'ANCO Products also manufactures a complete line of idlers and double-groove drum assemblies as well as our line of extra heavy-duty, single-groove drums.

I'Anco hubs are stocked in various sizes to suit your needs

Heavy-Duty Single-Groove Drums

Diameter D	Thickness T	Body Width W-1	Face Width W	Standar d Bor e Sizes	Patter n #
18	1/2	5 1/2	to suit	1 15/16 - 4 15/16	A1-1679
20	1/2	5 1/2	flight and	1 15/16 - 4 15/16	A1-1567
24	1/2	5 1/2	conveyor	1 15/16 - 5 7/16	A1-1572
30	1/2	5 1/2	widths	1 15/16 - 5 7/16	A1-1268

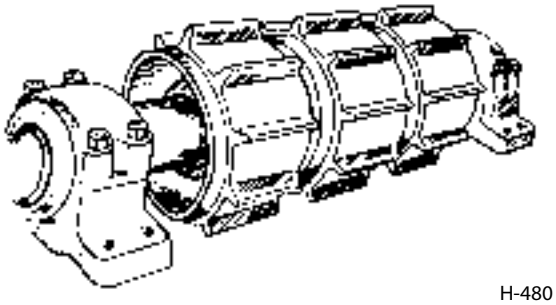
Avoid expensive down time and maintenance costs by using l'Anco sprockets

Austenitic Manganese Steel

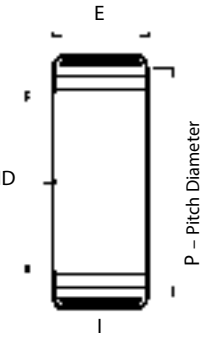
Get the Superior Quality of l'ANCO's Austenitic Manganese Steel Sprockets for little more than the cost of fabricated sprockets.

l'ANCO PRODUCTS have found over the years that austenitic manganese outperforms most alloys on the market. The surface of austenitic manganese work-hardens to produce a skin hardness of up to 550 BHN. While having a hard surface, austenitic manganese steel has an elongation of up to 30-65% and a ten-sile strength of up to 100,000 – 145,000 lbs. This gives you a product with an extremely wear-resistant sur-face while having a tough core to resist cracking and breakage.

H&C Class Rim Sprockets



Available with fabricated steel or cast steel bodies, I'ANCO H and C class rim sprockets are cast in austenitic manganese or hardened alloy steel, and machined to fit standard pipe sizes. A cast steel rim allows us to keep the tooth location and pitch diameter absolutely uni-form as well as easily producing a chain-saving tooth profile. I'ANCO currently stocks many standard-size sprockets for quick deliveries.



H-480

Pitch 8.000"
Tooth Face at Pitchline
" E" , 10-3/4"

Sprocket		
Pitch Diameter	Number of Teeth	Inside Diameter
18.44	7	14"
20.90	8	16"
23.39	9	18"
25.89	10	20"
28.39	11	24"
31.91	12	27"

C & H – 132

Pitch 6.050"
Sprocket Tooth Face
2-3/4" wide

Sprocket			Sprocket		
Pitch Dia.	No. Teeth	Inside Dia.	Pitch Dia.	No. Teeth	Inside Dia.
15.81	8	11"	23.38	12	20"
17.69	9	14"	25.28	13	21"
19.58	10	16"	27.19	14	23"
21.47	11	18"	31.01	16	26"

H-110

Pitch 6.000"
Tooth Face at Pitchline
"E", 8-7/8"

Sprocket		
Pitch Diameter	Number of Teeth	Inside Diameter
15.68	8	11"
17.54	9	14"
19.42	10	16"

H-120

Pitch 6.000"
Tooth Face at Pitchline
" E" , 8-7/8"

Sprocket		
Pitch Diameter	Number of Teeth	Inside Diameter
12.00	6	11"
15.68	8	14"
21.30	11	18"

C & H – 124

Pitch 4.000"
Sprocket Tooth Face
1-1/2" wide

Sprocket			Sprocket		
Pitch Dia.	No. Teeth	Inside Dia.	Pitch Dia.	No. Teeth	Inside Dia.
10.45	8	7"	17.98	14	15"
11.70	9	8"	19.24	15	16"
12.94	10	9"	20.50	16	17"
14.20	11	10"	21.77	17	18"
15.45	12	12"	23.04	18	19"
6.71	13	14"			

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ESCO

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ESCO® XHC Series Chain

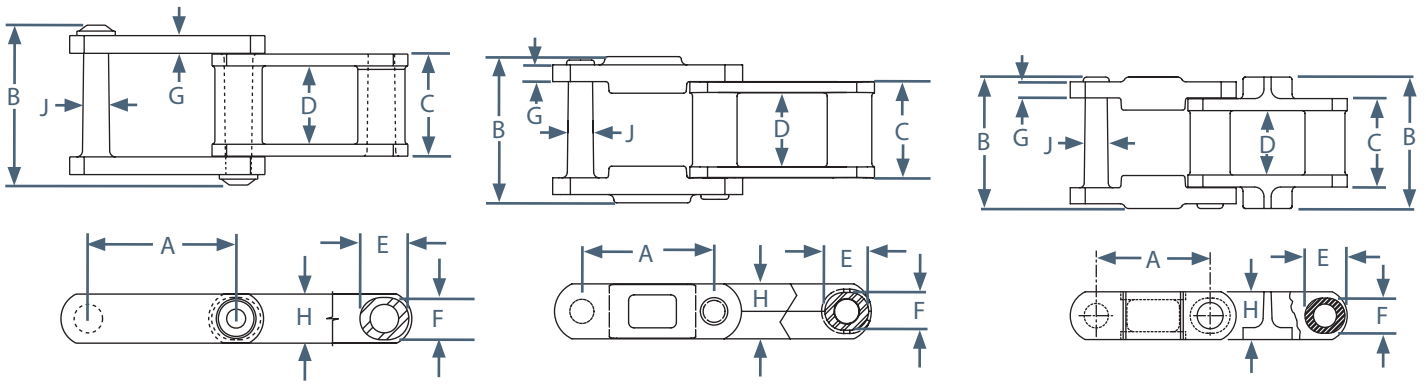
The strongest, most wear resistant chain systems available — XHC124, 132, 155, 157, 159* — are specifically designed to provide the lowest cost of ownership in today's most difficult material handling applications. Use the chain comparison charts to find the ESCO chain solution for your chain system.

• All XHC-series sidebar/pins and block links utilize ESCO's unique integral, one-piece casting technology — for maximum strength and production capabilities.

• All XHC-series chain components are furnished in alloy 12-series 100% Heat Treated Alloy Steels to achieve the best balance between hardness, ductility and wear resistance.

• All XHC-series cast attachments are furnished integrally cast with the Block Links.

• ESCO XHC-series cast alloy sprockets and traction wheels are also furnished in ESCO alloy 12-series Steels and typically work 2-3 times longer than plate alternative



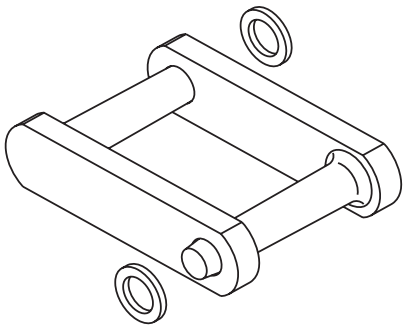
ESCO Chain	Series	A	B	C	D	E	F	G	H	J	Maximum Recommended Working Load (lbs)	Ultimate Strength (lbs)	Weight per Foot
XHC124	I	4.06	4.75	3.00	2.00	1.88	1.63	0.63	2.00	0.88	22,800	148,600	14.9
XHC132	I	6.05	6.81	4.31	3.31	2.00	1.75	0.75	2.00	1.09	32,800	214,000	16.3
XHC155N	I	6.05	6.41	4.31	3.31	2.00	1.75	0.63	2.50	1.13	35,000	230,000	19.0
XHC155	II	6.05	6.69	4.31	3.31	2.00	1.75	0.75/1.64	2.50	1.13	35,000	230,000	20.7
XHC155P	II Plus	6.05	6.69	4.31	3.31	2.00	1.75	0.75/1.64	2.50	1.13	35,000	230,000	23.0
XHC157	II	6.08	6.95	4.63	3.38	2.13	1.84	0.84/1.73	2.50	1.22	41,800	270,000	23.6
XHC157P	II Plus	6.08	6.95	4.63	3.38	2.13	1.84	0.84/1.73	2.50	1.22	41,800	270,000	24.8
XHC159P	II Plus	6.13	6.95	4.62	3.37	2.25	2.00	0.84/1.73	3.00	1.28	50,000	324,000	28.8

ESCO® XHC Series Chain - Spare Parts

Sidebar Pin Link Kits

Kit Part No.	Pattern No.	Chain No.	Weight	Alloy
4187869	CL124	XHC124	5.4	12E
4111557	CL132	XHC132	9.0	12E
4157703	CL155N	XHC155N	11.0	12M
4153069	CL155E	XHC155	12.5	12M
4153255	CL157B	XHC157	12.8	12M
4165029	CL159	XHC159	16.2	12E

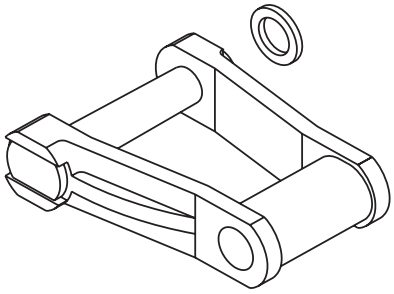
Kit consists of (2) each sidebar pins.
Rivet type connecting link provides the most positive fastening.
* Weld washers provided with XHC124 & XHC132 kits only.



Offset Link Assembly Kits

Kit Part No.	Pattern No.	Chain No.	Weight	Alloy
4113280	OL124	XHC124	5.1	12E
4113278	OL132	XHC132	8.2	12E
4113279	OL155	XHC155	10.0	12E
4186884	OL157	XHC157	11.4	12E
4166223	OL159	XHC159	14.0	12E

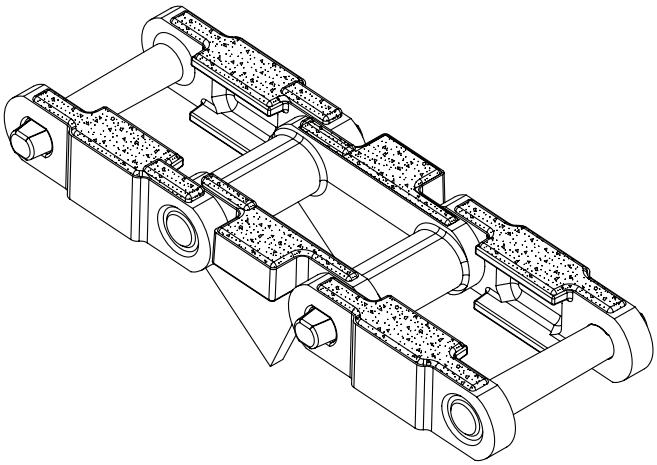
Kit consists of (1) each offset link, pin, and washer.
The offset link assembly kit permits the removal of a single pitch of slack combination chain. The offset link replaces (1) block link and (2) pair of sidebar/pins.



Hard-Faced Attachment Pin Kits

Kit Part No.	Attachment	Chain No.	Weight
4209749	S1	XHC155	37.86
4192833	S1B	XHC155	38.96
4209707	S1	XHC155P	41.6
4203138	S1	XHC157	40.9
4214016	S1	XHC157P	41.8
4235455	S1	XHC159	47.5

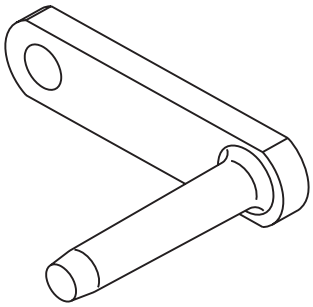
Kit consists of (1) each attachment and (4) each sidebar pin



Sidebar Pins - Only

Part No.	Pattern No.	Chain No.	Weight	Alloy
5102665	CL124	XHC124	2.6	12E
5102669	CL132	XHC132	4.5	12E
5126596	CL155NB	XHC155N	5.6	12M
5126674	CL155G	XHC155*	6.5	12M
5126750	CL157C	XHC157*	7.0	12M
5128937	CL159	XHC159	8.1	12M

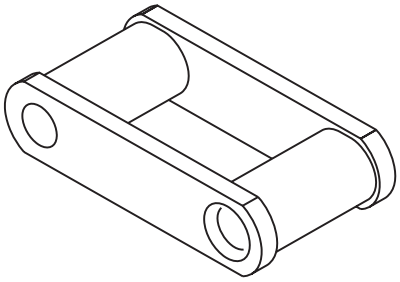
*Parts used on standard and plus series chain.
Use ESCO Sidebar Pin Kits. (see chart above)



ESCO® XHC Series Chain - Spare Parts

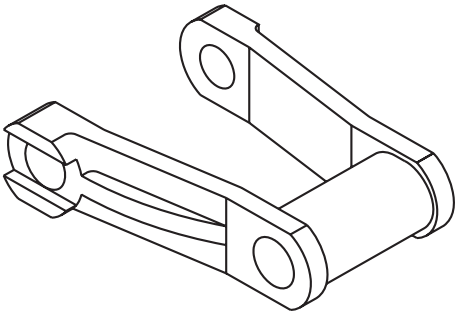
Block Links - Only

Part No.	Pattern No.	Chain No.	Weight	Alloy
5118295	BL124	XHC124	4.0	12M
5118195	BL132A	XHC132	6.7	12M
5114515	BL155	XHC155	7.6	12M
5126748	BL155PA	XHC155P	10.0	12M
5116958	BL157	XHC157	9.1	12M
5126752	BL157A	XHC157P	11.0	12M
5128936	BL159P	XHC159	12.6	12M



Offset Links - Only

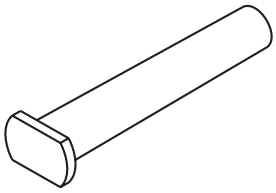
Part No.	Pattern No.	Chain No.	Weight	Alloy
5112860	OL132	XHC132	6.2	12E
5115055	OL155	XHC155	8.0	12E
5118547	OL157	XHC157	9.0	12E
5129013	OL159	XHC159	11.0	12E



Offset Link Pins - Only

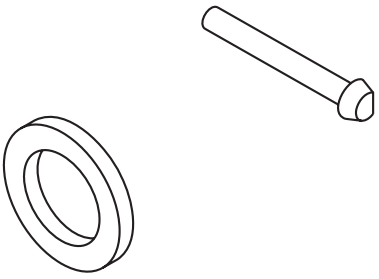
Part No.	Pattern No.	Chain No.	Weight	Alloy
4240177	OLP124	XHC124	1.0	4130
4240686	OLP132	XHC132	2.0	4130
4240686	OLP155	XHC155	2.0	4130
4240505	OLP157	XHC157	2.4	4130
4166222	OLP159	XHC159	2.6	4130

Use ESCO Offset Link Kits.



Offset Fasteners

Weld Washer	Chain No.
4010976	XHC124
4010808	XHC132
4005370	XHC155
4032765	XHC157
4032765	XHC159

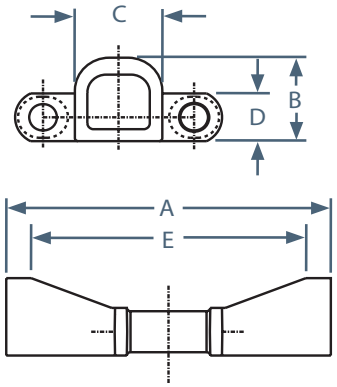


ESCO® XHC Series Chain - Integral Cast Attachments

C-Style Round Top Cradle

Pattern	Chain	A	B	C	D	E	Weight
BL15517C - 5136197	XHC155	17.00	3.25	3.50	2.50	10.00	28.7

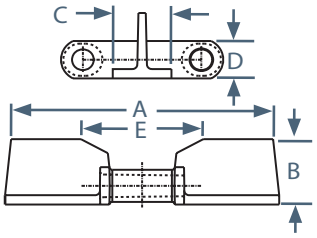
Note: Attachments can be trimmed to custom width.



A-Style Vertical Point Cradle

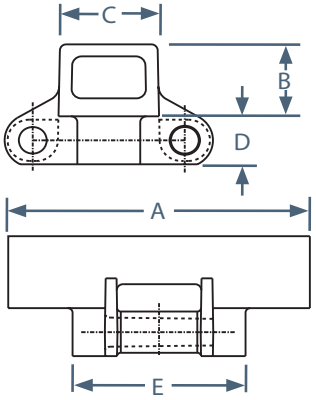
Pattern	Chain	A	B	C	D	E	Weight
X12109D - 5136153	XHC155	18.00	4.38	3.00	2.50	7.95	23.0

Note: Attachments can be trimmed to custom width.



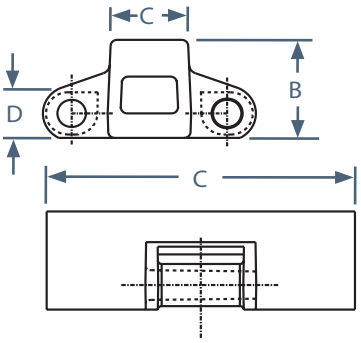
Drop Center Pulpwood Flight

Pattern	Chain	A	B	C	D	E	Weight
D32958 - 5126258	XHC155	6.38	2.00	2.50	2.50	7.75	16.5
D32986 - 5127092	XHC155	6.38	2.00	2.50	2.50	4.31	15.6
BL157AN01 - 5130497	XHC157	4.40	2.00	2.00	2.50	6.75	18.8
BL159AT1 - 5128939	XHC159	7.00	2.00	2.00	3.00	8.25	19.0
BL159AT10 - 5136123	XHC159	10.00	2.50	2.00	3.00	8.25	23.0

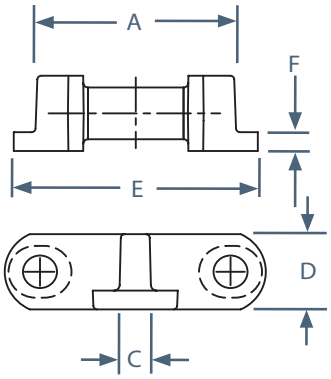


Flush Bottom Pulpwood Flights

Pattern	Chain	A	B	C	D	E	Weight
D32958 - 5126258	XHC155	6.38	2.00	2.50	2.50	7.75	16.5
D32986 - 5127092	XHC155	6.38	2.00	2.50	2.50	4.31	15.6

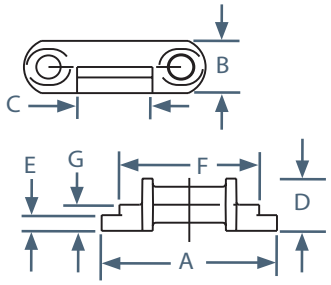


ESCO® XHC Series Chain - Integral Cast Attachments



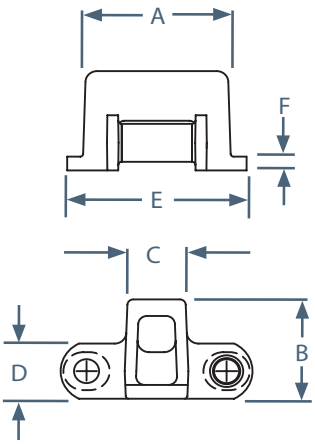
Block Links with Hold-down Clips

Pattern	Chain	A	B	C	D	E	F	Weight
D32959 - 5126259	XHC155	6.38	--	1	2.50	7.75	0.62	11.2



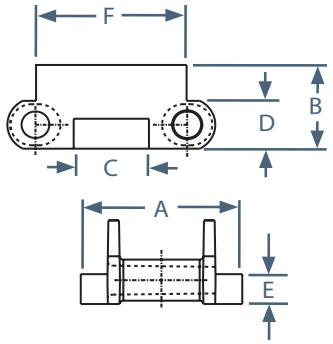
Block Links with Hold-down Clips

Pattern	Chain	A	B	C	D	E	F	G	Weight
BL155W-12K 5125567	XHC155	8.00	2.50	3.44	2.50	0.75	6.38	1.25	11.2
BL155WA-12K 5127768	XHC155	8.50	2.50	3.44	2.50	0.75	6.38	1.25	11.6



Flush Bottom Flights with Hold-down Clips

Pattern	Chain	A	B	C	D	E	F	Weight
D32958 - 5126258	XHC155	6.38	4.50	2.50	2.50	7.75	0.62	16.5
BL157AN01 - 5130497	XHC157	4.40	2.00	2.00	2.50	6.75	1.25	18.8
BL159AT1 - 5128939	XHC159	7.00	2.00	2.00	3.00	8.25	0.75	19.0
BL159AT10 - 5136123	XHC159	10.00	2.50	2.00	3.00	8.25	0.75	23.0



Integral Cast "M" Attachment with Side Wear Guide Pads

Pattern	Chain	A	B	C	D	E	F	Weight
BL155M325 - 5125529	XHC155	6.50	3.25	3.31	2.50	1.25	6.05	13.0
BL155M350 - 5125530	XHC155	6.50	3.50	3.31	2.50	1.25	6.05	13.5
BL155M400 - 5125531	XHC155	6.50	4.00	3.31	2.50	1.25	6.05	14.3
BL157M325 - 4231151	XHC157	6.95	3.25	3.37	2.50	1.25	6.08	13.3
BL157M350 - 4231149	XHC157	6.95	3.50	3.37	2.50	1.25	6.08	13.8
BL157M400 - 5120919	XHC157	6.95	4.00	3.37	2.50	1.25	6.08	14.8

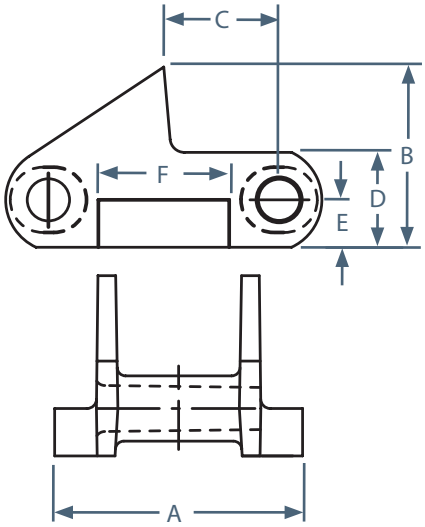
ESCO 12K alloy steel

ESCO® XHC Series Chain - Integral Cast Attachments

Integral Cast S1 Attachment w/Side Wear Guide Pads

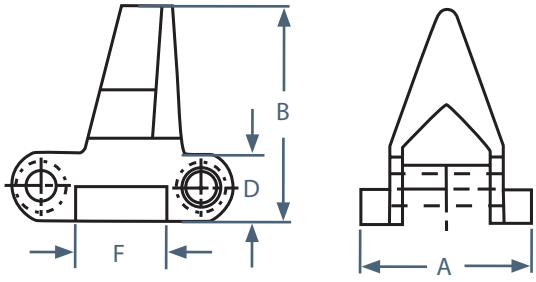
Pattern	Chain	A	B	C	D	E	F	Weight
E52709 - 5126550	XHC155	6.50	4.75	3.04	2.50	1.25	3.43	11.4
BL155S1B - 5118112	XHC155	6.50	5.25	0.50	2.50	1.25	3.43	13.0
E52769 - 5126616	XHC157	6.95	5.25	3.04	2.50	1.25	2.62	12.9
BL159S1 - 5130191	XHC159	6.88	5.38	3.06	3.00	1.50	2.63	15.1

ESCO® 12K alloy steel.
Note: Other height options are available as fabricated attachments.



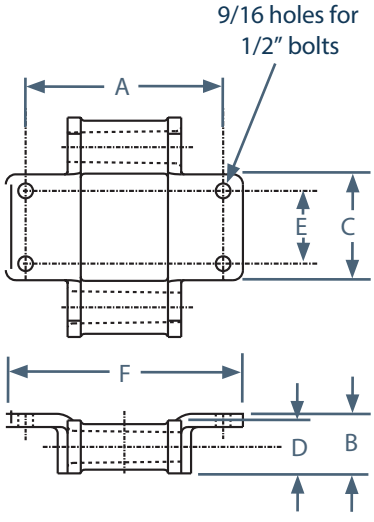
Integral Cast Slasher Deck Attachment

Pattern	Chain	A	B	C	D	E	F	Weight
BL155TP - 5126950	XHC155	6.50	8.00	na	2.50	na	3.43	15.0



Integral Cast K2 Attachment

Pattern	Chain	A	B	C	D	E	F	Weight
BL132K2 - 5100033	XHC132	7.50	2.25	4.00	2.00	2.75	9.00	9.5
BL155K2 - 5136155	XHC155	7.50	2.50	4.00	2.50	2.75	9.00	10.7

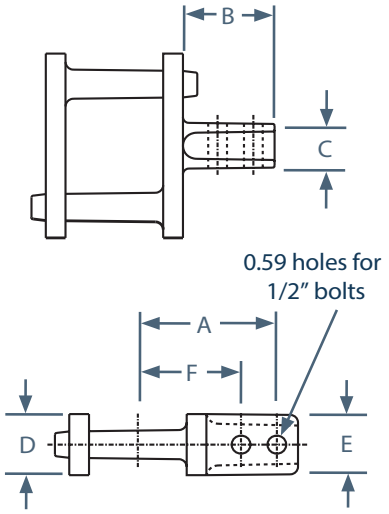


ESCO® XHC Series Chain - Integral Cast Attachments

Integral Cast S22 Attachment on Sidebar

Pattern	Chain	A	B	C	D	E	F	Weight
CL124S22 - 5120074	XHC124	4.38	2.88	1.43	2.00	1.94	3.25	4.5

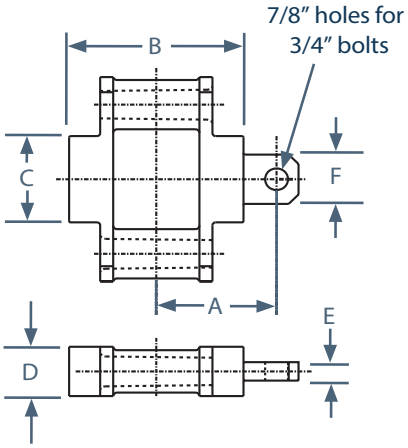
ESCO® 12F alloy steel.



Integral Cast Block Link w/A42 Grit Collector Attachment

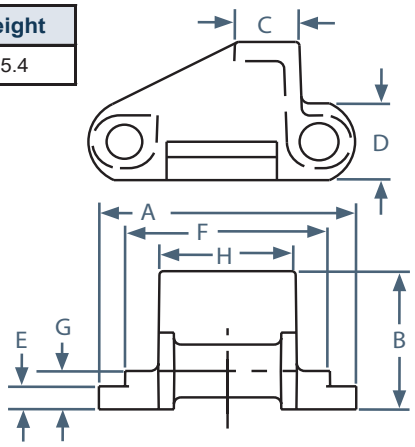
Pattern	Chain	A	B	C	D	E	F	Weight
BL132A42 - 5112505	XHC132	4.62	6.75	3.50	2.00	0.75	2.00	11.5
CL155A42 - 5131859	XHC155	5.50	6.69	3.00	2.50	1.00	2.00	8.6

Note: All cast attachments are made in ESCO 12M alloy unless otherwise noted.
Sidebar Only (not shown).



Integral Cast Pusher Attachment (Long Wood Applications)

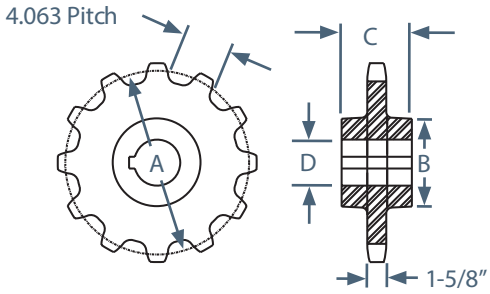
Pattern	Chain	A	B	C	D	E	F	G	H	Weight
D32825A - 5128095	XHC155	8.00	5.00	2.00	2.50	0.75	6.38	1.25	4.23	15.4



Sprockets For XHC Series Chain

Sprockets for XHC124 Chain

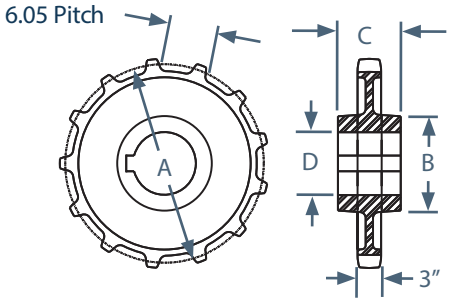
Pattern No.	No. of Teeth	Pitch Dia. A	Hub Dia. B	Hub Length C	Bore Range D Min	Bore Range D Max	Weight
X10602	10	13.15	7.50	6.00	2.44	5.44	121
X3401	11	14.42	7.50	6.00	2.44	5.44	128
X10601	12	15.70	7.50	6.00	2.94	5.44	137
X10725	14	18.23	7.50	7.00	2.44	5.44	160
X10726	19	24.68	7.50	7.00	2.44	5.44	227



Sprockets for XHC132, XHC155, XHC157 and XHC159 Chain

Pattern No.	No. of Teeth	Pitch Dia. A	Hub Dia. B	Hub Length C	Bore Range D Min	Bore Range D Max	Weight
X3924	9	17.69	8.25	8.00	2.44	6.00	220
X3924B	9	17.69	6.00	6.75	2.44	3.94	220
X4137 *	10	19.59	8.25	8.00	2.94	6.00	238
X3926	11	21.47	8.25	7.00	2.94	6.00	257
X3926K *	11	21.47	14.00	8.00	8.94	11.00	385
X4068 *	12	23.38	8.25	8.00	2.44	6.00	280
X4068J	12	23.38	10.50	9.88	4.99	8.00	368
X3925	13	25.28	8.50	8.00	2.94	6.00	285
X3925A	13	25.28	11.50	8.00	4.94	10.00	373
X3925B	13	25.28	14.00	11.00	9.44	12.00	515
14T132-6 *	14	27.19	14.00	9.00	6.44	12.00	490
X3923A	16	31.01	9.00	8.00	2.94	6.44	400

* These sprockets can be modified into split style.

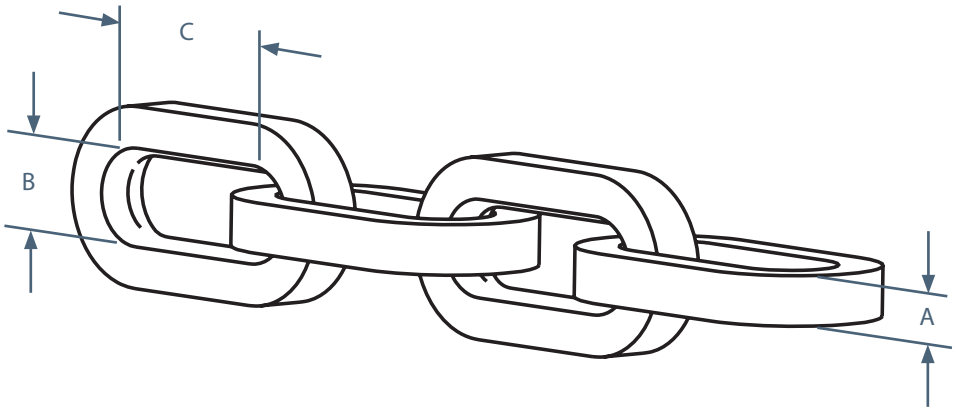


ESCO® Long Link Chain

Since the 1930s ESCO has been a world leader in the production of long link chain systems.

The cornerstones of our success are…

- Alloy steel technology– chain systems are produced in high-strength/ high hardness alloy steels.
- Solution professionals – ability to service your special needs on a wide variety of applications.
- Lowering the cost of ownership – minimal maintenance and downtime, economic guarantees, longer life.
- Consistency of product – manufactured to strict quality standards.



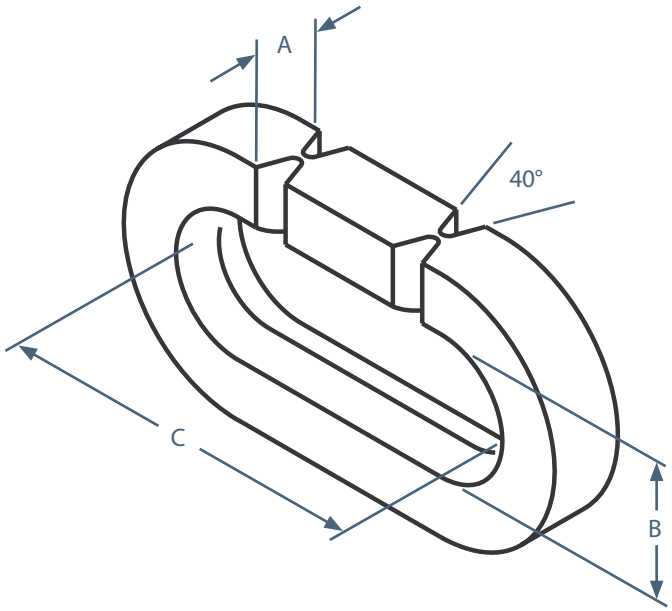
Maximum Recommended Work Load

A	B	C	12 Series Maximum Recommended Working Load (lbs)	Weight (lbs./ft.)
1-1/8	2	6	30,000	12.5
1-1/4	2	6	36,000	16.0
1-1/4	2	7	36,000	15.0
1-1/4	2	8	36,000	14.0
1-1/2	2-1/4	7	51,600	22.0
1-1/2	2-1/4	8	51,600	20.0
1-3/4	2-1/2	8	69,600	28.5
2-1/4	3-3/8	9-1/2	132,000	58.0

IMPORTANT: The maximum recommended working loads shown are based on pull test results. Chain systems must be able to handle surge and start-up loads even in the worn out condition.

Weld-Type Connecting Links

- For permanent application.
- Supplied in ESCO® Alloy 12E/12F to provide weldability and strength.



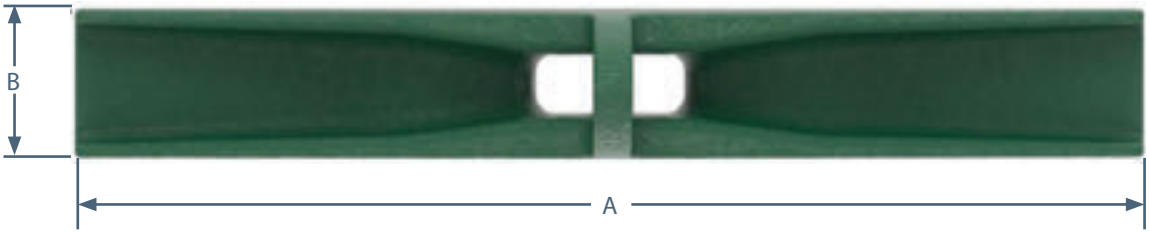
Weld Links

Part No.	Pattern No.	Chain Size	A	B	C	Weight	Alloy
4226002	WR1186	1-1/8 x 2 x 6	1-1/8	2	6	6.3	12F
4226003	WR1146	1-1/4 x 2 x 6	1-1/4	2	6	7.4	12F
4226004	WR1147	1-1/4 x 2 x 7	1-1/4	2	7	8.3	12F
4226005	WR1148	1-1/4 x 2 x 8	1-1/4	2	8	9.3	12F
4226006	WR1127	1-1/2 x 2-1/4 x 7	1-1/2	2-1/4	7	12.4	12F
4226007	WR1128	1-1/2 x 2-1/4 x 8	1-1/2	2-1/4	8	14.3	12F
4226008	WR1348	1-3/4 x 2-1/2 x 8	1-3/4	2-1/2	8	19.2	12F
4226009	WR214X912	2-1/4 x 3-3/8 x 9-1/2	2-1/4	3-3/8	9-1/2	44.1	12F

NOTE: *For installation instructions refer to ESCO Fiber Processing Maintenance, literature number P6002CNV. For weld instructions refer to ESCO Weld Procedures, literature number P6000GEN.*

Integral Cast Conveyor Flights

All ESCO® integral cast flights are made of series 12 alloys to give you the highest performance in your application.

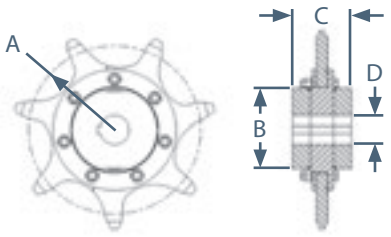


Conveyor Flights

CHAIN SIZE	Width A	Height B	WEIGHT	ALLOY
1-1/8 x 2 x 6	14.00 - 42.00	5.00	101	12S
1-1/4 x 2 x 6	14.00 - 42.00	5.00	101	12S
1-1/8 x 2 x 6	14.00 - 44.00	7.00	140	12S
1-1/4 x 2 x 6	14.00 - 44.00	7.00	140	12S
1-1/2 x 2-1/4 x 7	14.00 - 36.00	6.26 & 7.25	93 - 103	12S
1-3/4 x 2-1/2 x 8	32.00 - 42.00	7.38 & 8.00	148	12S
2-1/4 x 3-3/8 x 9-1/2	32.00 & 42.00	8.88 - 10.38	173 - 250	12S

Note: Weights shown are for maximum width.

Replaceable Ring Sprockets

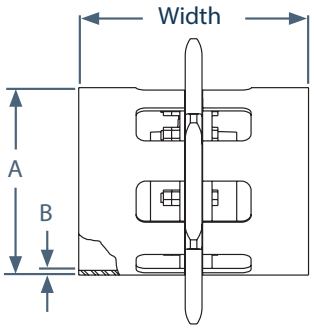


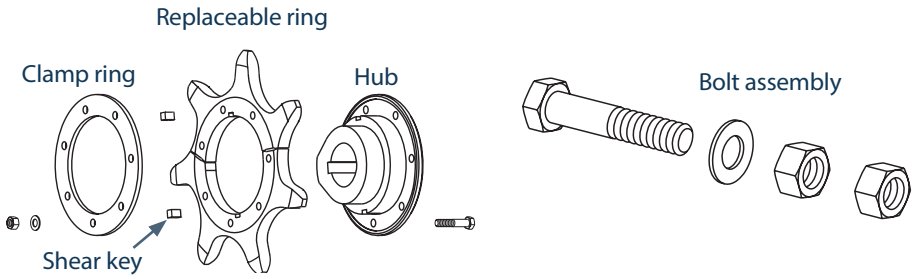
Sprockets without Flanges

Pattern Number	Chain Pitch	No. of Teeth	Pitch Radius A		Hub Diameter B		Hub Length C	Bore Range D		Weight
			Min	Max	Min	Max		Min	Max	
X3498	6	7	12.44	13.81	10.50	12.00	9.00	5.44	9.50	425
X3380	7	7	14.56	16.12	10.50	12.00	9.00	5.44	9.50	530
X10154	8	7	16.63	18.44	14.00	16.12	12.00	7.94	13.00	1070
X11141	9-1/2	7	19.73	21.89	19.00	20.50	12.00	7.00	15.00	1789

Sprockets with Flanges

Pattern Number	Chain Pitch	No. of Teeth	Diameter A	Flange Thickness B	Width	Bore Range	
						Min	Max
X3498	6	7	20.00	0.50	To Suit	5.44	9.5
X3380	7	7	23.25	0.50	Flight or	5.44	9.5
X10154	8	7	26.62	0.50	Conveyor	7.94	13
X11141	9-1/2	7	30.00	0.62	Width	7	15





Replacement Parts

Pattern Number	Chain Pitch	No. of Teeth	Hub Pattern	Replaceable Ring	Clamp Ring	Shear Key	Bolt Assembly
X3498	6	7	X3379	4202683	4017697	1x1x1-11/16	4017225 (7 req)
X3380	7	7	X3379	4200579	4017223	1x1x1-11/16	4017225 (7 req)
X10154	8	7	X10155	4202676*	4018121***	1-1/2x1-1/2x2-1/2	4018114 (7 req)
X11141	9-1/2	7	X11142	4204550**	4036824****	--	4157380 (12 req)

Note: Hubs are made to bore requirement.

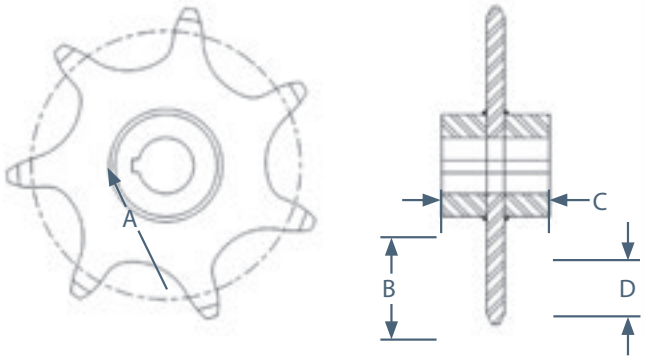
* Oversized Ring 4036183

** Oversized Ring 4036822

*** Oversized Ring 4036825

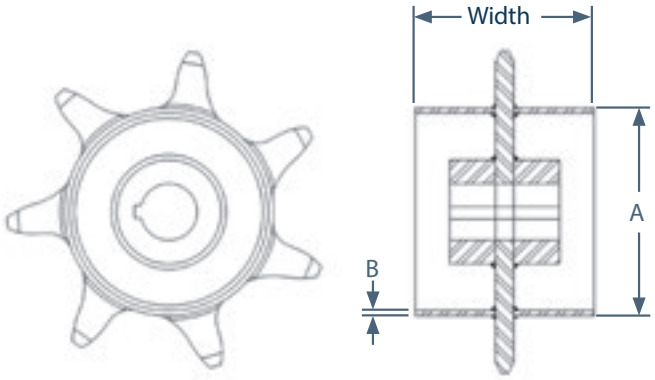
**** Oversized Ring 4036185

Integral Tooth Sprockets



Sprockets without Flanges

Pattern Number	Chain Pitch	No. of Teeth	Pitch Radius A		Hub Diameter B		Hub Length C		Bore Range D		Weight
			Min	Max	Min	Max	Min	Max	Min	Max	
X10776	6	7	12.44	13.81	8.50	12.00	8.50	11.50	3.94	9.50	290 - 479
X10777	7	7	14.56	16.12	8.50	12.50	8.50	12.50	3.94	9.00	425 - 498
X10778	8	7	16.63	18.44	10.50	10.50	10.50	10.50	4.94	8.00	565
X4164	8	7	16.63	18.44	7.00	15.00	8.00	14.00	5.00	11.00	540 - 800

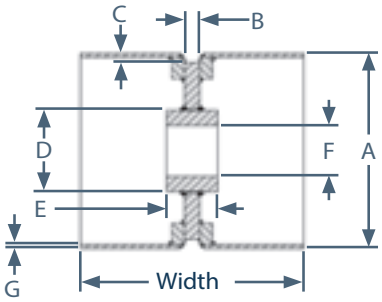


Sprockets with Flanges

Pattern Number	Chain Pitch	No. of Teeth	Diameter A	Flange Thickness B		Bore Range	
						Min	Max
X10776	6	7	20.00	0.50	To suit	3.94	9.50
X10777	7	7	22.50	0.50	flight or	3.94	9.00
X10778	8	7	26.00	0.50	conveyor	4.94	8.00
X4164	8	7	26.00	0.50	width	5.00	11.00

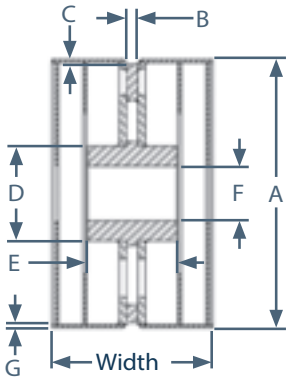
Note: ESCO recommends the Replaceable Ring Sprocket shown on the previous page.
The unique ESCO design provides the best overall value in long term maintenance.

Conveyor Drums



Heavy-duty Drum

Pattern Number	Drum Diameter A	"V" Width B	Groove Depth C	Hub Diameter D	Hub Length E	Bore Range F Min	Bore Range F Max	Flange Thickness G	Flange Width
X10897	20.00	1.56	1.12	8.50	6.00	2.44	6.00	0.50	To suit flight width or conveyor width
X10898	24.00	1.56	1.12	8.50	6.00	2.44	6.00	0.50	
X10899	30.00	1.56	1.12	8.50	6.00	2.44	6.00	0.50	



Extra Heavy-duty Drum

Pattern Number	Drum Diameter A	"V" Width B	Groove Depth C	Hub Diameter D	Hub Length E	Bore Range F Min	Bore Range F Max	Flange Thickness G	Flange Width
S3740	24.00	1.56	1.12	7.00 /12.00	6.88 /15.00	2.44	9.00	0.50	To suit flight width or conveyor width
S4107	30.00	1.56	1.12	7.00 /15.00	6.88 /15.00	2.44	11.00	0.50	
S4016	36.00	1.56	1.12	7.00 /15.00	6.88 /15.00	2.44	11.00	0.62	
X11135	42.00	2.50	1.12	16.00	16.00	5.94	12.00	0.75	
X10153	48.00	2.50	1.12	18.00	19.00	5.94	14.00	0.75	
X11122*	60.00	2.50	1.12	25.00	19.00	7.44	16.00	0.75	

Note: Drum is supplied with reinforcement discs for flange stability.

ESCO ® applies reinforcing rings for the following situations:

1. Pulpwood conveyors, head and tail drums only. The tail drum receives one ring at each end. The head drum receives two rings at each end, unless the flange width is less than 30 inches.

2. For flange strength on the extra heavy duty drum X11122.

ESCO® WDH Drag Chain

Problem Solving Material Handling Chains

ESCO WDH drag chain is a field-proven performer. WDH chain is available in standard and reverse barrel configurations to better match the application.

Cast Alloy Steel Barrels

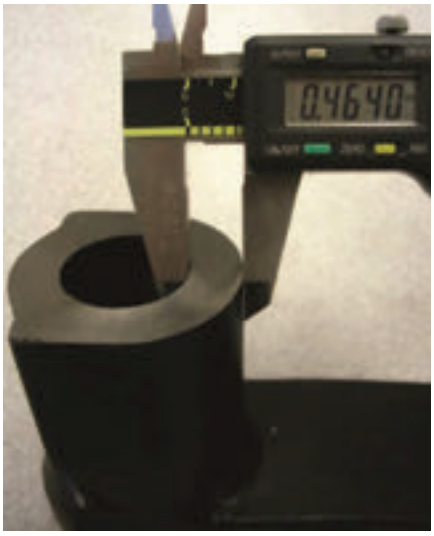
- Large configuration increases c hain life and minimiz es w ear on chain components
- Thicker profile is designed not to split, cr ush, or cause unplanned sy stem do wntime
- Integrally cast plo w f ace pro vides bet ter scraping action

Pins Heat Treated to Exact ESCO Specifications

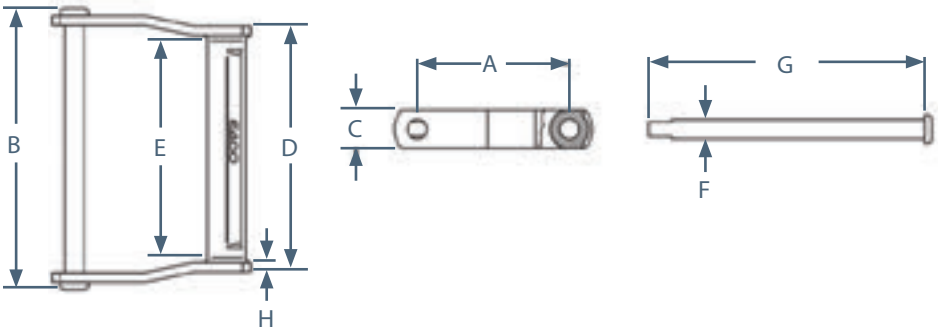
- Average 38 R ockw ell C hardness is an ideal matc h with full-hard allo y steel bar rels
- Side-bar pinhole and bar rel ha ve a no-step design to pro vide tot al cont act around the pin f or less pin f atigue and lo wer w ear rate
- Riv eted constr uction maximiz es strength

Optimize Chain Service

- A matched system will increase performance and reliability
- Request a quote that includes ESCO sprockets and traction wheels



Available in 10' strands with plain chain or with wings installed



ESCO Chain	A	B	C	D	E	F	G	H	Maximum Recommended Working Load (lbs)	Ultimate Strength (lbs)	Weight per Foot
WDH110	6.00	11.88	1.50	10.25	9.00	0.75	11.50	0.38	13,000	62,000	14.1
WDH580	8.00	14.50	2.00	12.75	11.25	1.00	14.50	0.50	21,000	114,500	22.8

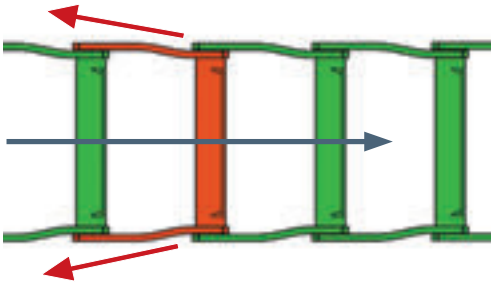
Note: WDH580 includes both Standard Barrel & Reverse Barrel

ESCO® WDH Drag Chain

ESCO® offers a reverse barrel option which may improve system performance in certain applications. Improved performance can only be determined by running a strand in the actual application. The potential benefits are as follows:

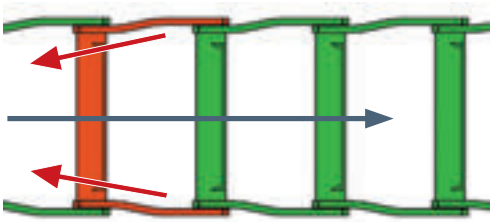
Standard barrel material flow

Chain travel direction



Reverse barrel material flow

Chain travel direction



- Barrel does not rotate against sprocket tooth for increased sprocket life
- Material is swept from the trough, reducing build-up for improved productivity
- Decreased drag load reduces energy consumption for reduced costs
- Reduced drive load for increased motor life, lowering maintenance costs

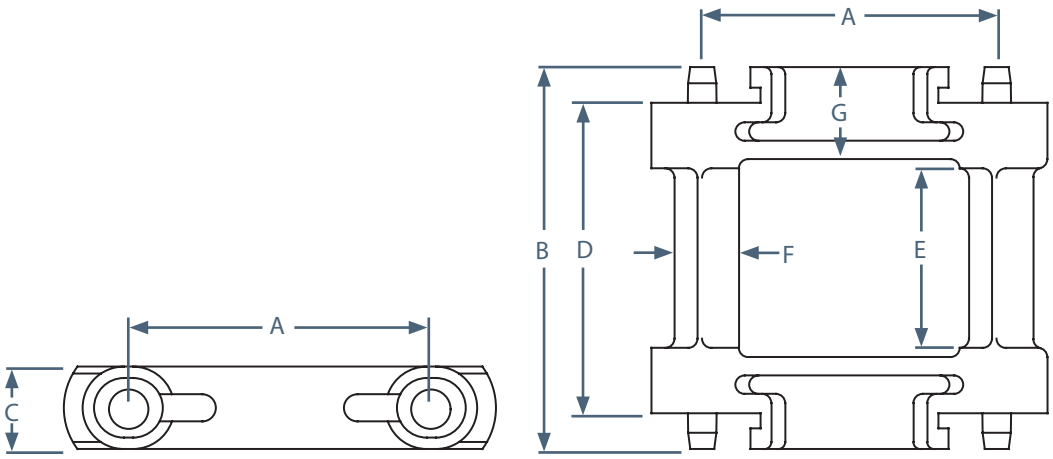
480 Class Chain Comparison

Manufacturer	Chain Number	Ultimate Strength* (lbs)	Maximum Recommended Working Load (lbs)	Width	SB Thickness	Pin Diameter	Weight per Foot
ESCO	WDH580	114,500	21,000	14.50	0.50	1.00	22.6
Rexnord	WD480	70,000	12,300	14.63	0.50	0.88	18.0
	WDH480	79,000	15,000	14.63	0.50	1.00	20.0
	WDH580	108,000	NA	14.63	0.50	1.00	20.0
Webster	WD480	70,000	11,700	14.63	0.50	0.88	18.1
	WDH480	90,000	15,000	14.63	0.50	0.88	18.1
	WDH580	123,000	20,500	14.38	0.50	1.00	19.4
Can-Am	WDH480	85,500	NA	14.50	0.50	1.00	21.5
	WDH480XHD	122,000	NA	15.25	0.63	1.00	23.0
MAC	WD480	85,000	NA	14.50	0.50	0.88	17.2
	WD480SM	85,500	NA	14.50	0.50	1.00	21.5
	WD480XHDMM	122,000	NA	15.25	0.63	1.00	25.0
Jeffrey	WD480	70,000	11,500	14.50	0.50	0.88	19.6
	WD480HP	101,000	16,500	14.50	0.50	1.00	19.9
	WD480XHDP	122,000	20,300	15.06	0.63	1.00	21.5

*Ultimate strength is based on actual pull test results.

IPC and IPC-TL Drag Chains

- Patented self-locking design mates large diameter bosses integrally cast with the sidebars with integrally cast block link sockets, eliminates old-style pins which can wear and break.
- IPC-TL style is reversible and can be turned for even longer wear life.
- Extra wear metal has been added to high wear areas, such as block link and sidebar sliding surfaces, for maximum service life.
- High hardness, high strength alloy steels —ESCO® IPC and IPC-TL drag chains are supplied in the strongest, hardest and most durable alloy steel available for conveying chains, ESCO alloy 12S.



ESCO Chain	Replaces Chain	A	B	C	D	E	F	G	Maximum Recommended Working Load (lbs)	Weight per Foot
IPC680	"H", "SD" and "WD"	8.00	15.00	2.25	13.50	11.37	1.50	1.81	20,000	26

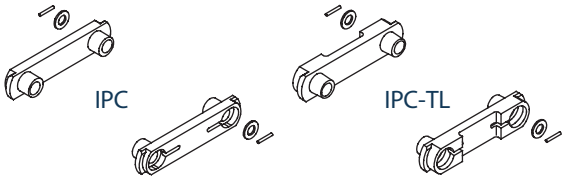
* IPC-TL design is reversible and can be flipped for added wear life.

IPC and IPC-TL Drag Chain Replacement Parts

Sidebars

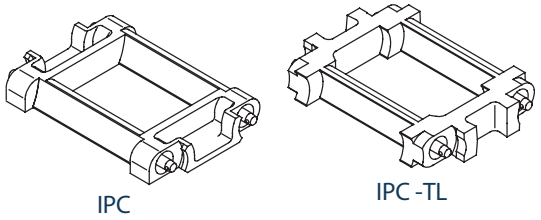
Part	Pattern	Chain	Weight	Alloy
5111701	IPC680SBM	IPC680	4.7	12S

Note: 2 each required per pitch



Block Links

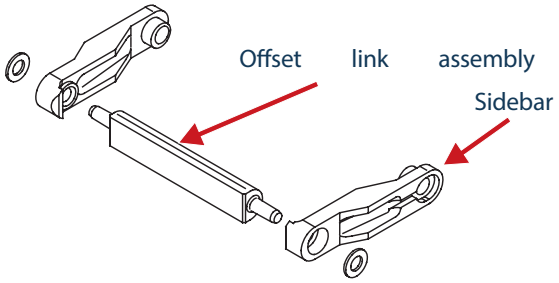
Part	Pattern	Chain	Weight	Alloy
5111700	IPC680BLM	IPC680	29	12S



Weld Type - Offset Link Assemblies

Part	Description	Chain	Weight	Alloy
4110334*	Kit	IPC680	18.0	12E
5112297	Side Bar	IPC680	5.0	12E
5106459	Offset Link Pin	IPC680	8.0	12E

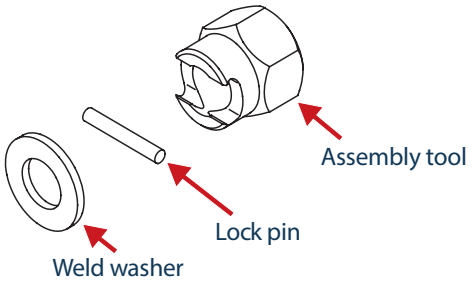
* Includes 2 each 5112297, 1 each 5106459 and 4 each 4019498.



Chain Fasteners

Weld Washer	Locking Pin	Chain	Assembly Tool
4155818	4004561	IPC680	4019381

Note: Assembly tool is required for initial installation only.



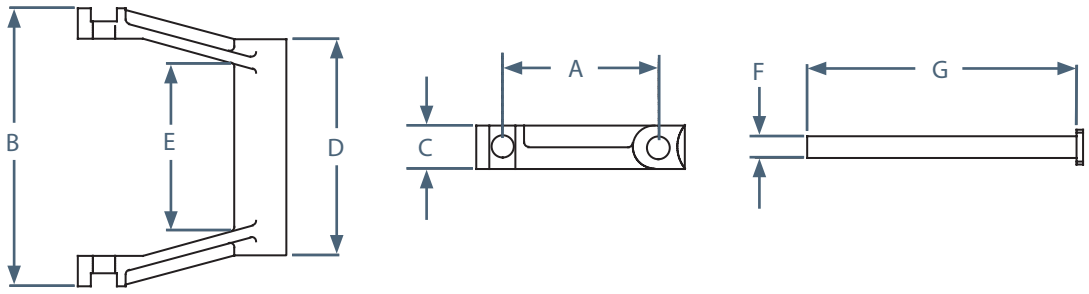
“H” Class Drag Chains

• **Design–**The face of each chain link has been designed to push materials forward

• **Extra** Thick Sidebars and Wear Pads **–** Increased service life by fighting abrasion and maximum strength.

• **Protective Wear Lugs** – Lugs have been added to protect both pin ends and yield increased bearing area and strength to combat wear and the potential for breakage.

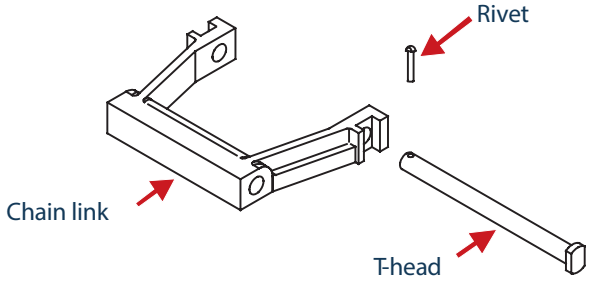
• **High Hardness, High Strength Alloy Steels** – Class drag chains are supplied in the strongest, hardest, and most durable alloy steel available for conveying chains – ESCO alloy 12S. ESCO® “H” class drag chains are also available in ESCO stainless steel alloy 49K for those applications where chains must operate between 540-960°C (1000-1750°F).



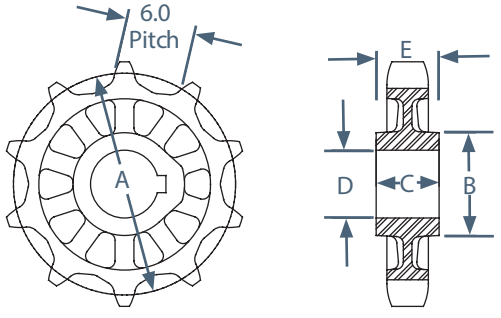
ESCO Chain	A	B	C	D	E	F	G	Maximum Recommended Working Load (lbs)	Ultimate Strength (lbs)	Weight per Foot
H123	9.00	12.00	2.50	8.50	6.50	1.25	11.50	23,500	140,000	35
H126-18	9.00	18.00	2.50	12.75	10.75	1.25	17.25	23,500	140,000	48

Replacement Parts

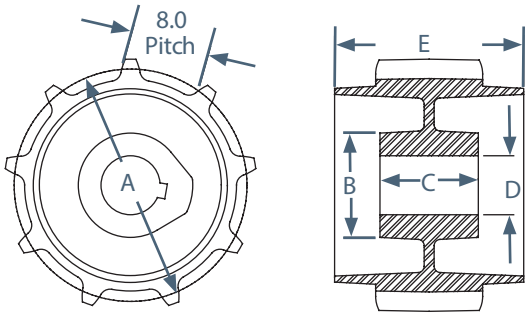
Chain Size	Chain Link	T-Head Pin	Rivet
H123	5129294	4055494	4055772
H126-18	5112774	4036501	4004139



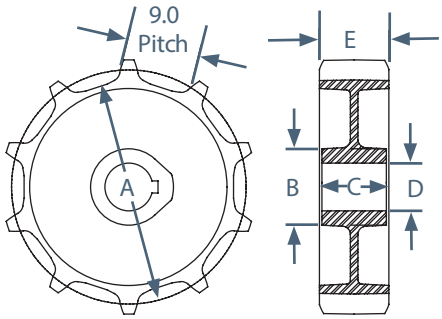
IPC/IPC-TL and “H” Class Drag Chains Sprockets and Traction Wheels



6″ Pitch chains



8″ Pitch chains



9″ Pitch chains

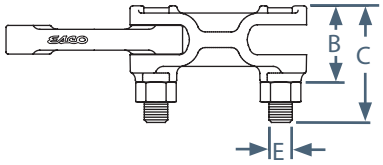
Sprockets and Traction Wheels

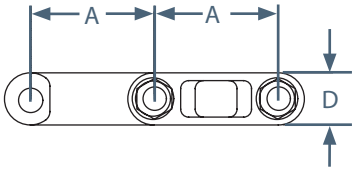
Chain Size	Chain Pitch	No. of Teeth	Pattern	Pitch Diameter A	Hub Dia min/max B	Hub Length min/max C	Bore min/max D	Overall Width E	Weight
IPC680	8"	9	FX10341	23.37	7.00 / 14.00	6.88 / 11.0	2.43 / 12.0	19.00	833
H123	9"	9	FX10806	26.25	7.00	7.00	2.94 / 4.94	6.25	590
H126	9"	9	F9T126-625	26.31	12.00	9.00	6.94 / 10.	10.00	718
H126	9"	9	F9T126-400	26.31	12.00	9.00	6.94 / 10	10.00	764
H126	9"	11	F11T126-625	31.95	9.50	8.00	6.94	10.00	725
Traction Wheels									
IPC680	8"	N/A	FX10342A	23.37	7.00 / 14.00	6.88 / 11.0	2.43 / 12.0	19.00	635

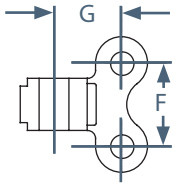
Low Flow Bath Chains

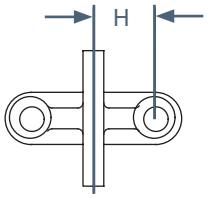
The following unique features and benefits of the patented ESCO® Low Flow Bath Chains are designed to yield the lowest cost of total operation in coal preparation plants using heavy media separation vessels.

- High hardness, high strength alloy steels resist the corrosive elements associated with most low flow bath applications.
- Patented design yields a minimum of 69% more bearing area in critical wear points for maximum service life.
- Integrally cast collars eliminate loose fits, which results in longer wear life.
- Oversized hard chrome pins offer maximum corrosion, wear and breakage resistance.



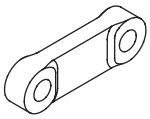


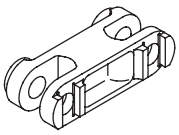


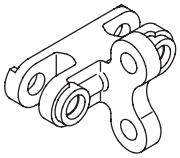


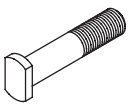
ESCO Chain	A	B	C	D	E	F	G	H	Maximum Recommended Working Load (lbs)	Ultimate Strength (lbs)	Weight per Foot
5310HD	6.0	3.66	5.63	2.50	1.125	--	--	--	34,000	240,000	17.7
5310HD-Att	--	--	--	--	--	4.0	3.25	2.98	34,000	240,000	23.2*

*Attachment weight based on 2 inch spacing; weight will vary on other spacing.


Bar link closed


Bar link open


Attachment link


T-head


Locknut

Low Flow Bath Chain Replacement Parts

Part No.	Pattern	Description	Weight
5116976	X12146	Bar Link - Closed	5.6
5116975	X12145	Bar Link - Open	8.0
5121203	E50014	Attachment	11.0
4067179	–	T-Head Pin	1.6
3015068	–	Lock Nut	–
3017457*	–	Lock Nut, Nylon	–

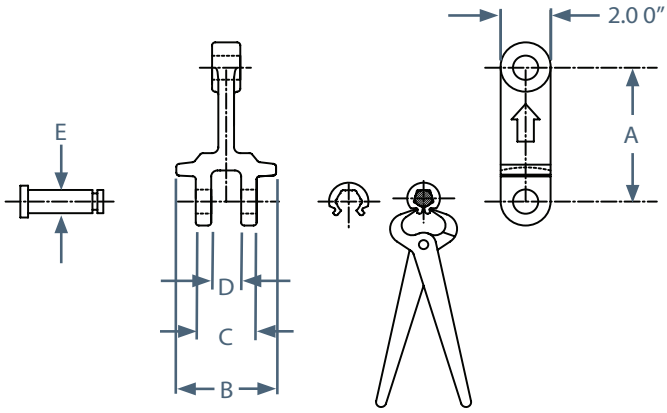
*Nylon lock nut.

142mm Bulk Material Handling Chain

This unique cast chain design offers the lowest total cost of ownership.

- Direct replacement for all 142mm fabricated chains – will work with your standard 142mm sprockets and traction wheels.
- Patented design yields a minimum of 69% more bearing area in critical wear points for maximum service life.
- Maintenance is easy with the simple snap ring assembly design – links can be removed from the chain strand one (1)line at a time.
- Performance guarantees available upon review of your application.

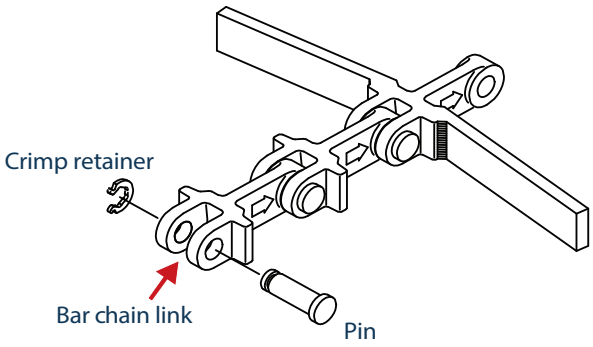
ESCO Chain	A	B	C	D	E	Weight Per Foot
142BH	5.59	4.00	2.44	1.20	0.97	12.8

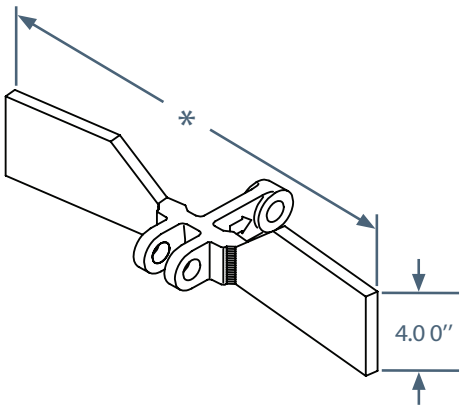


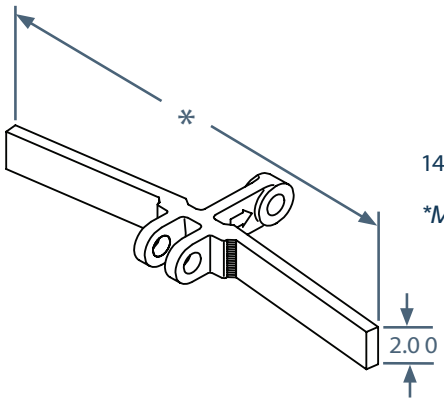
142BH Chain Replacement Parts

Part	Pattern	Description	Weight
5139589	142BH	Bar Chain Link	4.4
4114136	–	Pin	0.7
4156767	–	Crimp Retainer	0.04
5137820	Wing Attach	2" x 18"	10.4
5138621	Wing Attach	2" x 22.25"	11.7
5138622	Wing Attach	4" x 22.25"	12.9

Note: Wing Attachments can be trimmed to spec







142BH Chain Fabricated Attachment Options

**Made to width.*

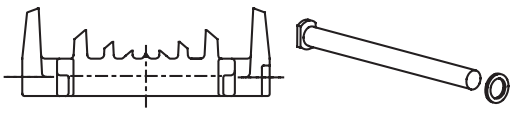
“H” Type Debarker Chains

- ESC O® heavy-duty debarker chain has been specifically designed to provide extended service life and more efficient debarker operation.
- Chairs are made with ESCO 12M alloy steel to provide maximum strength, abrasion resistance and ability to withstand severe impact.
- ESCO cast chain is specially designed with more metal on the bottom and outer running surfaces for greater bearing area on the trough.
- Pins are retained with weld washers to eliminate cracking and fatigue from riveting.

Nicholson Debarkers

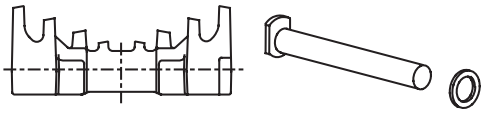
Model A1/77 (22”, 27”, 35”), A2 (22”, 27”, 35”), A6 and Early Accumat Machines (34”, 43”)

ESCO® Pattern No.	ESCO Part No.	OEM Part No.	Chain Pitch	Description	Weight
X10176A	4002615	B-19242	5.00	29P Strand	958
X10176A	5106377	1-2-76D112	5.00	Log Flight	27.5
--	4010965	1-2-76A113	--	T-Head	5.5
--	4010977	1-2-73A114	--	Weld Washer	0.1



18”, 20”, 22” and Accumat Machines

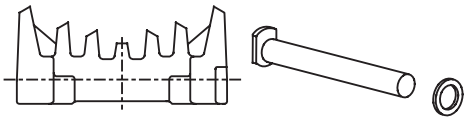
ESCO Pattern No.	ESCO Part No.	OEM Part No.	Chain Pitch	Description	Weight
X4015A	4002610	I-273C	3.13	35P Strand	519
X4015A	4002612	B19382	3.13	36P Strand	534
X4015A	5107345	1-2-73C18	3.13	Log Flight	12
--	4010809	1-2-73B19	--	T-Head Pin	2.8
--	4032765	1-2-73A23	--	Weld Washer	0.1



Salem Debarkers

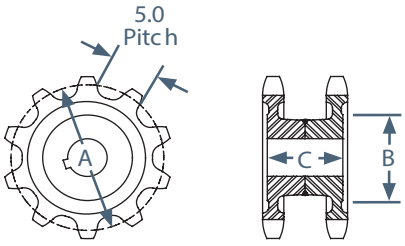
21”, 27”, and 35” Machines

ESCO Pattern No.	ESCO Part No.	OEM Part No.	Chain Pitch	Description	Weight
X10252	4002616	C7440	4.00	28P Strand	754
X10252	4002617	C7440	4.00	31P Strand	587
X10252	5106402	C7440	4.00	Log Flight	16
--	4010809	--	--	T-Head Pin	2.8
--	4032765	--	--	Weld Washer	0.1



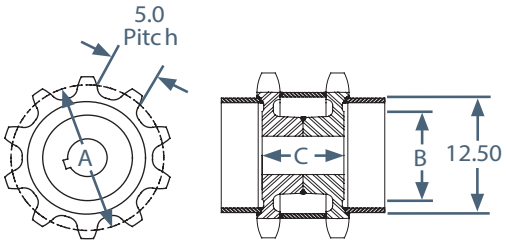
“H” Type Debarker Chain Cast Sprockets

Nicholson Debarkers



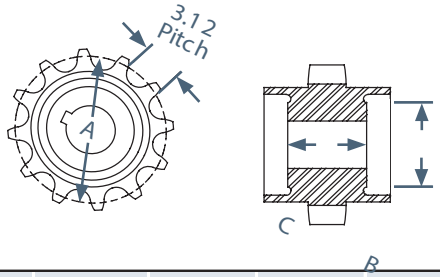
10T5P225 Sprocket without Flanges

ESCO Pattern No.	OEM Part No.	For Debarker	No. of Teeth	Pitch Dia. A	Hub Dia. B	Hub Length C		Weight
10T5P225	1-2-11D58	X10176	10	16.18	7.00	8.00	3.44	271
10T5P225	1-2-11D6B	X10176	10	16.18	7.00	8.00	2.44	271
10T5P225	1-2-31D98	X10176	10	16.18	7.00	8.00	4.19	271
10T5P225	1-2-76D49	X10176	10	16.18	7.00	8.00	4.94	271



10T5P225 with Flanges

ESCO Pattern No.	OEM Part No.	For Debarker	No. of Teeth	Pitch Dia. A	Hub Dia. B	Hub Length C	Bore Size	Weight
10T5P225	1-2-11D58	X10176	10	16.18	7.00	8.00	3.44	467
10T5P225	1-2-11D6B	X10176	10	16.18	7.00	8.00	2.44	467
10T5P225	1-2-31D98	X10176	10	16.18	7.00	8.00	4.19	467
10T5P225	1-2-76D49	X10176	10	16.18	7.00	8.00	4.94	467



ESCO Pattern No.	OEM Part No.	For Debarker	No. of Teeth	Pitch Dia. A	Hub Dia. B	Hub Length C	Bore Size	Weight
X4018	1-2-56C8	X4015A	12	12.07	7.00	6.25	3.94	171
X4018	1-2-705	X4015A	12	12.07	7.00	6.25	3.88	171