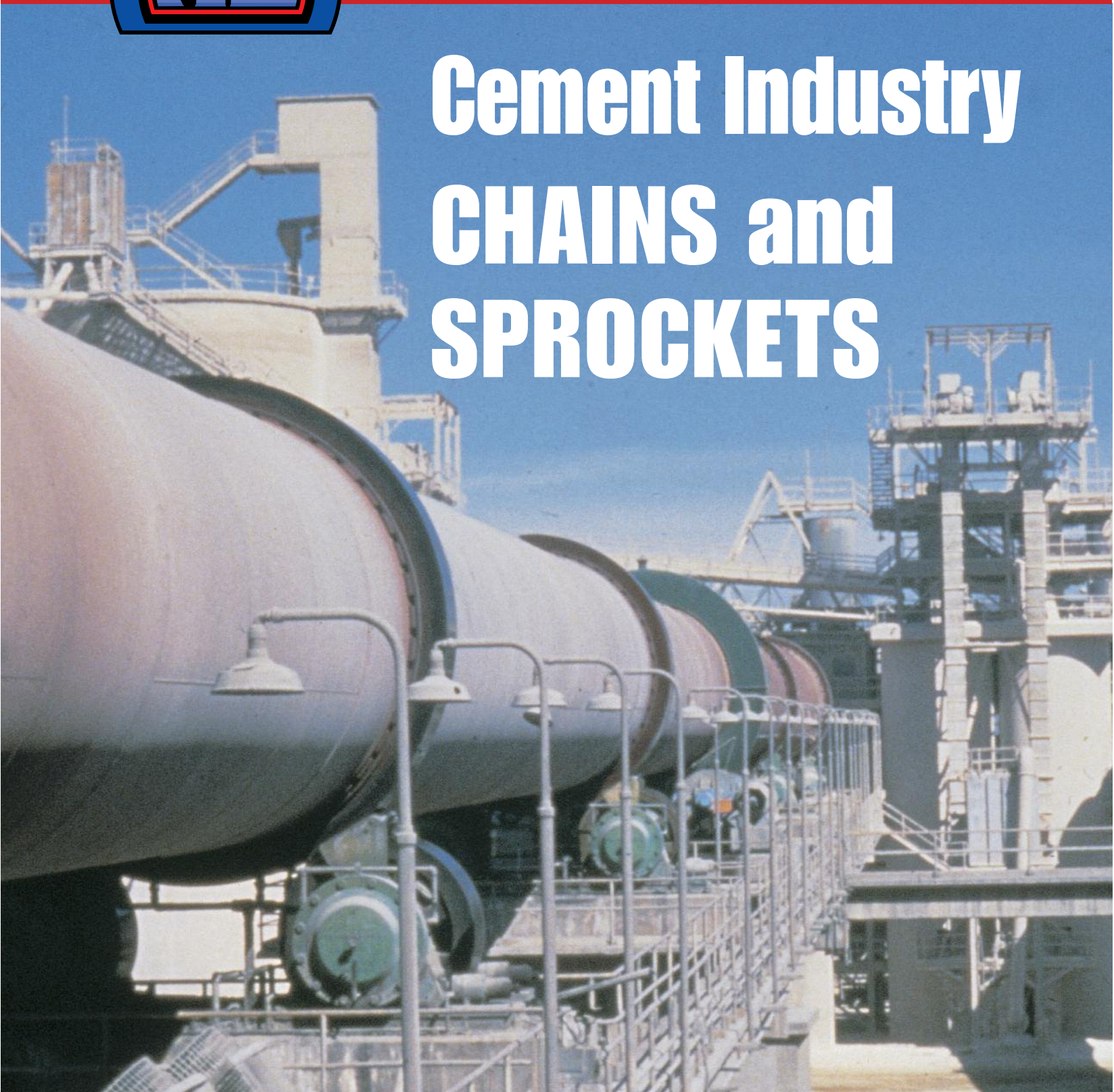




ALLIED-LOCKE INDUSTRIES, INC.

Cement Industry CHAINS and SPROCKETS



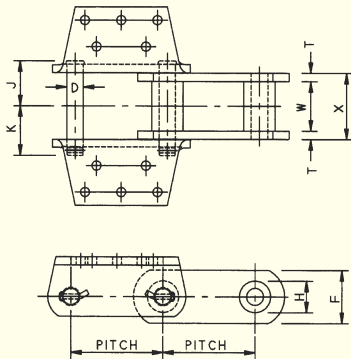
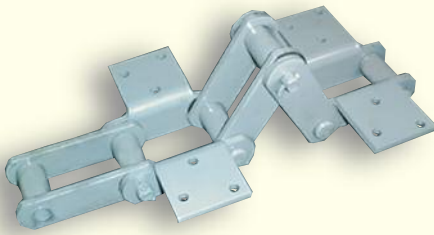
Your Source for...

***Chain, Sprockets, Traction Wheels, Buckets,
Gudgeon Bearings, Wear Blocks, and Return Rolls.***

HEAVY DUTY CEMENT ELEVATOR CHAIN

ALLIED-LOCKE Heavy Duty SS Class Steel Bushed Chains

are designed and constructed to withstand the rigorous conditions encountered on cement mill elevators and to provide the service life expected by the cement industry.



CHAIN NUMBER	PITCH	D	F	H	J	K	T	W	X	STANDARD ATTACHMENTS
SS856	6.000	1.00	2.50	1.75	2.91	3.16	.50	3.00	4.00	K2, K3, K24, K35
SS956	6.000	1.00	3.00	1.75	2.78	3.16	.50	3.00	4.00	K24
SS857	6.000	1.00	3.25	1.75	2.81	3.12	.50	3.00	4.00	K44
SS859	6.000	1.25	4.00	2.38	3.44	3.81	.62	3.75	5.00	K44
SS958	6.000	1.12	3.25	2.00	3.09	3.24	.56	3.00	4.12	K44
SS958SJ	6.000	1.12	3.25	2.00	3.34	3.49	.56		4.12	K44
SS864	7.000	1.25	4.00	2.38	3.44	3.81	.62	3.75	5.00	K443
SS864SJ	7.000	1.25	4.00	2.38	3.64	4.11	.62	3.75	5.00	K443
SS984	7.000	1.38	4.00	2.50	3.41	3.84	.62	3.75	5.00	K443
SS984SJ	7.000	1.38	4.00	2.50	3.66	4.09	.62	3.75	5.00	K443
SS994	7.000	1.58	4.00	2.50	3.41	3.84	.62	3.75	5.00	K443
SS994SJ	7.000	1.58	4.00	2.50	3.66	4.09	.62	3.75	5.00	K443
SS833	6.000	.75	2.00	1.44	2.38	2.72	.38	2.62	3.38	K2FW

* SJ denotes chains available with sealed joints.

800 and 900 Series Elevator Chains

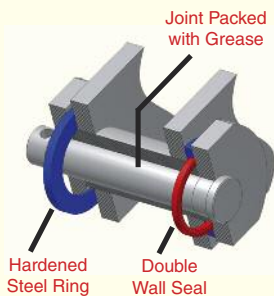
The original 800 series Elevator Chains were introduced over 50 years ago. These were developed to add additional strength and wear resistance allowing Elevators to be built taller and run with larger capacities than ever before. Allied-Locke has continually worked on improving the performance of the 800 series through manufacturing methods and test programs.

The 900 Series of chains were developed to provide more strength allowing even greater loads. The 900 Series is constructed with larger components to provide a minimum of 30% greater fatigue strength. This greater strength may be utilized for building greater capacity elevators in new construction or as a solution to handling greater loads in existing Elevators.

The 900 Series is designed to interchange with the 800 Series. See comparisons at right.

SS856 vs. SS956
SS857 vs. SS958
SS864 vs. SS984

Operates on same traction wheel and sprocket. Bucket hole spacing is identical. Up to 30% greater fatigue strength.

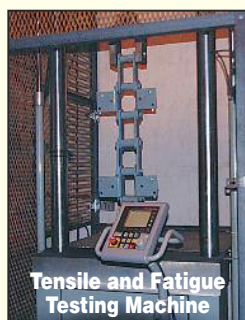


Allied-Locke Factory Lubricated Sealed Joint Elevator Chain

Allied-Locke's special seal retains factory applied grease while keeping abrasive materials out of the chain joint. The hardened steel ring protects and holds the seal in place and protects the seal from abrasive materials damaging the seal. The effect of this system results in longer chain life through reduced wear in the pin to bushing contact area. The standard seal is rated for temperatures up to 250 degrees. Special seals rated up to 400 degrees are available.

Sidebars

Sidebar Holes are specially processed to provide 100% bearing surface and a smooth finish. This will provide a tight range of high interference fits to assure retention and enhance fatigue resistance.



Pins

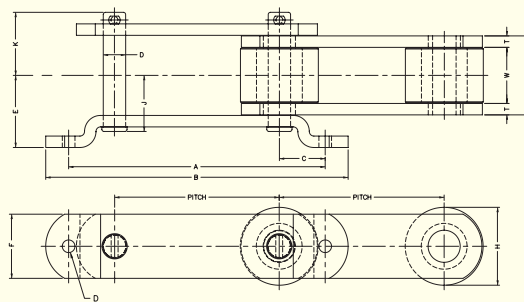
Full Round Pins and bushings are used to eliminate sharp corners and resulting stress risers. Full round pins provide the maximum shear cross section for greatest possible tensile strength.



SPECIALTY CHAINS AND BUCKETS

Super Capacity Dual Strand Elevator Chain

With the need for greater conveying capacity, dual strand chains have been developed to meet those needs. Allied-Locke manufactures these chains to the same high standards as all our standard elevator chains. Shown below are these chains with the typical G5 attachment. Buckets for these chains are also available from Allied-Locke.

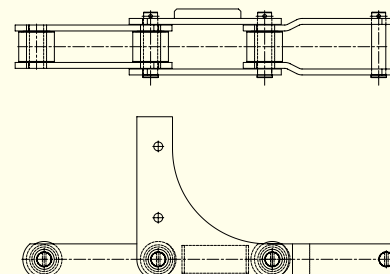
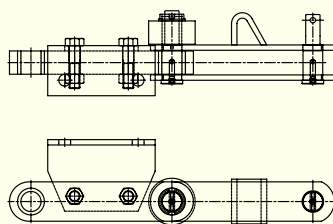
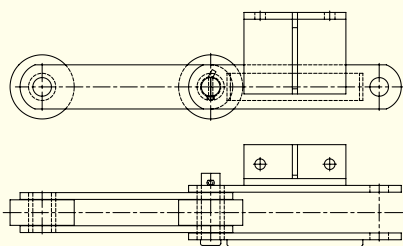


CHAIN NO.	ATTACHMENT STYLE	PITCH	A	B	C	BOLT DIA.	HOLE DIA.	D	E	F	H	J	K	W	T	X	AVE. WT. PER FT./LBS.
MSR4004	G5	9.000	14.00	16.50	2.50	.62	.69	1.00	3.34	2.50	3.00	2.60	2.91	2.62	.50	3.62	19.7
MSR4009	G5	9.000	14.00	16.50	2.50	.62	.69	.88	3.03	2.50	3.00	2.22	2.50	2.25	.38	3.00	14.7
MSR4065	G5	9.000	14.00	16.50	2.50	.62	.69	1.25	3.94	3.50	4.25	3.06	3.44	3.06	.62	4.31	40.0

Reclaimer Chains

Raw material handling in most facilities incorporates a stacker-reclaimer system made by a wide variety of manufacturers. Allied-Locke has engineered and fabricated a wide range of reclaimer chain to match and replace the chains in use at cement plants.

Because there are such a variety of styles of this chain in use it is hard to identify a standard chain. Shown below are a few examples of the more common stacker-reclaimer chains that have been manufactured by Allied-Locke. We can duplicate most any style you may have in use and merely require either a sample of your existing chain or a drawing of what you are currently using. Let Allied-Locke be your source for your Reclaimer Chain and Sprocket needs.



Elevator Buckets



ALLIED-LOCKE Offers a variety of bucket styles in **fabricated steel** or cast in **malleable** and **promal steel**. These buckets are available in either "AC" or "Mill Duty" versions. Punching is available for specific hole locations needed.



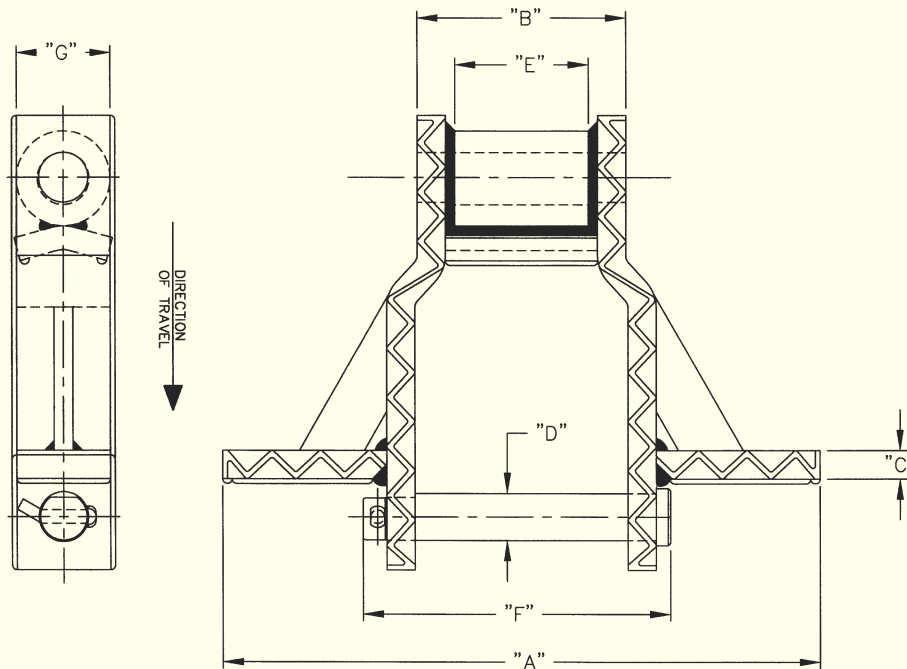
FABRICATED STEEL DRAG CHAIN

ALLOY STEEL • STAINLESS STEEL

Upgrade your heavy duty drag chain with an Allied-Locke fabricated version which is designed to reduce down-time and increase chain life.

Features of the Fabricated Drag Chain version:

- Hardfacing on both of the chains sliding surfaces is standard. A heavy weld bead with a bead hardness of 65 Rockwell C give the chain enhanced wear resistance in clinker applications
- The interference fit between the pin and the sidebar pinhole lends itself to higher strength thus longer chain life over a cast drag chain with slip joints.
- Pins are Induction Hardened which gives the pin a hardened outer case of 50-55 Rockwell C, while the pin core remains is heat treated to give maximum impact resistance.
- Edges of the wings and sidebars are square for more efficient conveying compared to the more rounded cast chain edges.
- Hot rolled & cold rolled alloy steel components eliminate the potential failures that cast chain may experience from porosity and casting inclusions.



FS TYPE

Fabricated Steel - All components are heat-treated and feature induction hardened pins. High interference fits on pins. Square edges provide optimum chain conveying.

CHAIN NO.	PITCH IN INCHES	RECOM. WORKING LOAD LBS.	PIN LENGTH F	LENGTH OF BEARING B	MAX ALLOW. SPROCKET FACE E	WING & SIDEBAR THICKNESS C	SIDEBAR HEIGHT G	PIN DIA. D	AVAILABLE IN 2" INCREMENTS A	AVG. WEIGHT PER FT LBS.
WHX5157	6.050	18,200	6.94	4.63	2.75	.63	2.50	1.13	8-14	25-31
WHX6067	9.000	24,320	8.12	5.56	3.62	.75	2.50	1.25	10-26	31-47
WHX6121*	9.000	27,600	9.75	6.31	3.62	1.12	2.50	1.25	10-30	40-57



* WHX5121 is available and operates closed end forward. It is dimensionally similar to WHX6121 except for bushing face plate location due to direction of travel.

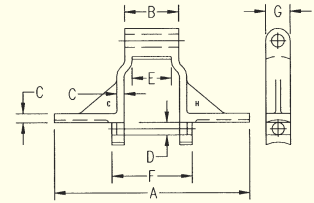
HEAVY DUTY CAST STEEL DRAG CHAIN

ALLOY STEEL • MANGANESE STEEL • STAINLESS STEEL

S TYPE

Plow Shape Design - The complete link including the barrel, wings and sidebars are plow-shaped for improved material handling efficiency.

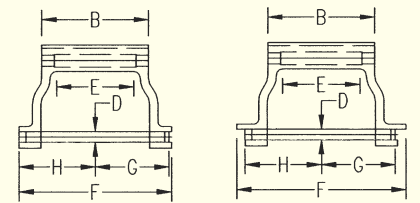
CHAIN NO.	PITCH IN INCHES	RECOM. WORKING LOAD LBS.	PIN LENGTH F	LENGTH OF BEARING B	MAX ALLOW. SPROCKET FACE E	WING & SIDEBAR THICKNESS C	SIDEBAR HEIGHT G	PIN DIA. D	I.E. 8, 12, 14, ... A	AVG. WEIGHT PER FT LBS.
S5157	6.060	18,200	6.94	4.63	2.75	.63	2.50	1.13	8-14	25-31
S5121	9.000	27,600	9.75	6.31	3.62	1.12	2.50	1.25	10-30	40-57
S6121	9.000	27,600	9.75	6.31	3.62	1.12	2.50	1.25	10-30	40-57
S6067	9.000	24,320	8.12	5.56	3.62	.75	2.50	1.25	10-26	29.7-43.3



HD TYPE

Maximum Wear - Alloy steel construction, heat treated for greater strength and longer life. Manganese steel construction is also available.

CHAIN NO.	STYLE NO.	PITCH IN INCHES A	AVER. WEIGHT PER FT. IN LBS.	WT. PER PIN	BARREL LENGTH B	SIDEBAR WIDTH C	PIN DIA. D	MAXIMUM SPRKT. WIDTH E	MAXIMUM O.A. WIDTH F	PIN HEAD TO CENTER LINE G	PIN END TO CENTER LINE H
1924	1	5.000	19.4	.9	7.62	1.62	.75	6.00	10.12	4.69	5.06
1932	1	6.000	24.2	1.0	5.25	2.00	1.00	3.75	8.00	4.00	4.00
1934	2	6.000	15.2	2.0	5.31	1.56	.75	4.12	7.50	3.69	3.81
1952	1	9.000	27.5	2.5	5.12	2.50	1.12	3.00	9.00	4.25	4.62
1953	1	9.000	30.8	3.0	6.88	2.50	1.12	4.75	10.00	4.81	5.00
1955	1	9.000	36.1	3.0	8.50	2.50	1.12	5.75	12.00	5.78	5.97
1958	1	9.000	39.5	4.5	8.50	2.50	1.25	5.75	12.00	5.78	5.97
1960	1	9.000	45.9	4.3	9.25	2.50	1.25	6.50	14.00	6.75	7.12
1962	1	9.000	46.8	5.9	12.44	2.50	1.25	10.25	16.38	7.84	8.34
1964	1	9.000	52.2	6.0	12.69	2.50	1.25	10.00	18.00	8.82	9.03
1965	2	9.000	50.1	6.0	12.44	2.50	1.25	10.25	18.38	7.84	8.34
1967	2	9.000	55.5	6.0	12.69	2.50	1.25	10.00	20.00	8.82	9.03
1972	1	12.000	63.2	10.0	17.88	2.75	1.38	14.38	24.00	11.38	11.88
1976	2	12.000	70.2	10.0	17.88	2.75	1.38	14.38	26.00	11.38	11.88



STYLE 1

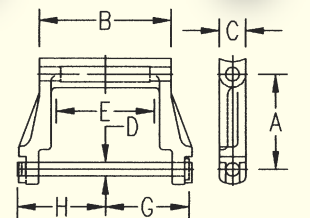
STYLE 2

* Steel fabricated version also available.

SD TYPE

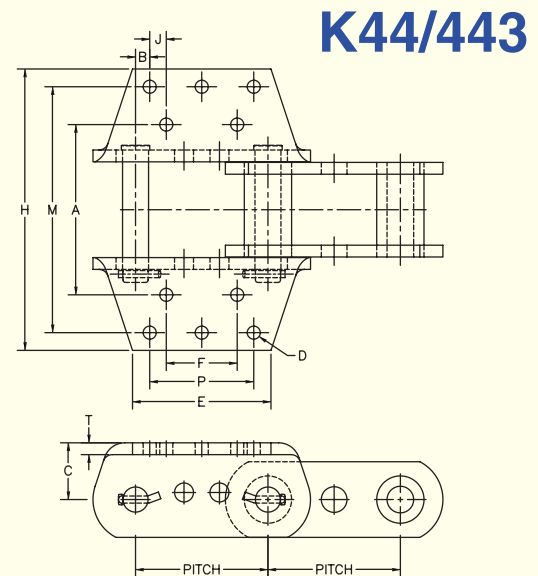
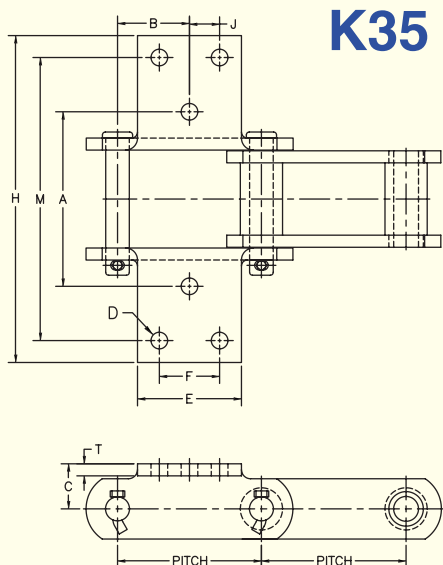
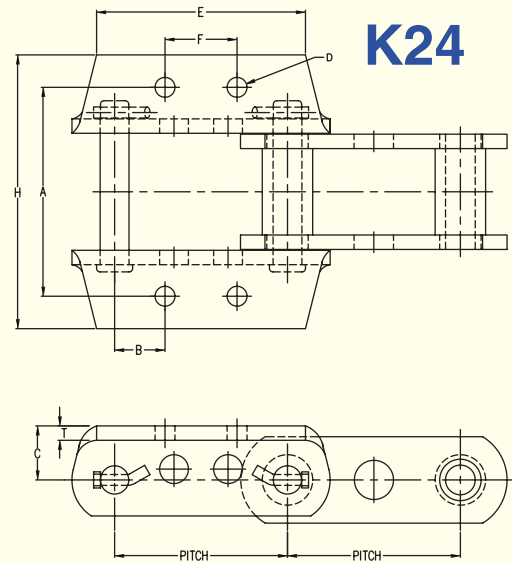
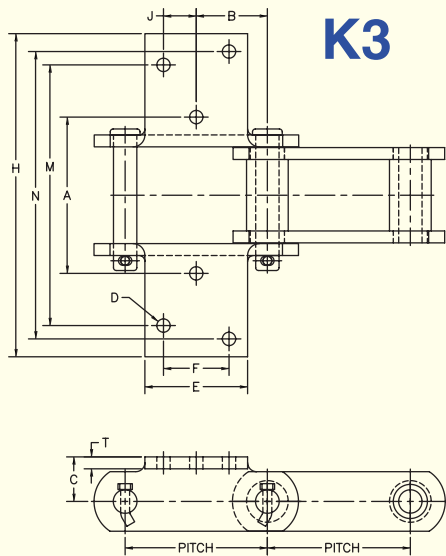
Hardsurfacing - An Allied-Locke standard on all types of drag chain. Provides additional wear life on critical sliding surfaces.

CHAIN NO.	PITCH IN INCHES A	AVER. WEIGHT PER FT. IN LBS.	WT. PER PIN	BARREL LENGTH B	SIDEBAR WIDTH C	PIN DIA. D	MAXIMUM SPRKT. WIDTH E	MAXIMUM O.A. WIDTH F	PIN HEAD TO CENTER LINE G	PIN END TO CENTER LINE H
SD21	9.000	46.8	6.0	12.44	2.50	1.250	9.50	—	8.19	8.31
SD23	9.000	41.8	4.2	8.44	2.50	1.250	5.75	—	6.00	6.00
SD27	9.000	30.7	2.9	6.88	2.50	1.125	4.25	—	4.81	5.06
SD28	9.000	26.0	2.8	12.81	2.12	.875	10.12	—	8.00	8.12
SD29	9.000	20.8	2.5	8.81	2.12	.875	6.25	—	6.00	6.12



"Experience The Allied-Locke Advantage... Today"

CEMENT ELEVATOR CHAIN ATTACHMENTS



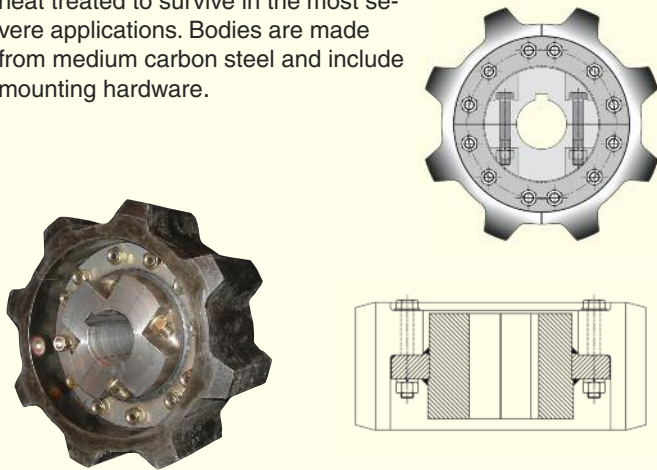
ATTACHMENT STYLE	CHAIN NO.	PITCH	A	B	C	D	E	F	H	J	M	P	T	AVE. WT. PER FT./LBS.
K3	SS856	6.000	6.56	3.00	1.88	.56	4.25	2.75	13.56	1.38	10.94	—	.50	27.3
K24	SS856	6.000	7.25	1.75	1.88	.69	4.25	2.50	9.06	—	—	—	.50	23.0
	SS956	6.000	7.25	1.75	1.88	.69	7.25	2.50	9.50	—	—	—	.50	23.0
K35	SS856	6.000	7.25	3.00	1.88	.69	4.25	2.50	13.56	1.25	11.75	—	.50	27.3
	SS857	6.000	7.25	3.00	1.88	.69	4.25	2.50	13.56	1.25	11.75	—	.50	36.3
K44	SS857	6.000	7.00	1.25	2.50	.56	6.00	3.50	13.81	—	12.00	—	.50	42.0
	SS859	6.000	9.00	.75	3.00	.69	6.75	2.75	15.06	.88	13.00	4.50	.62	68.0
	SS958	6.000	7.00	1.25	2.50	.56	5.75	3.50	13.68	—	12.00	—	.50	40.0
	SS958SJ	6.000	7.00	1.25	2.50	.56	5.75	3.50	14.18	—	12.00	—	.50	40.0
K443	SS84	7.000	9.00	.75	3.00	.69	7.00	3.75	15.00	.88	13.00	5.50	.62	55.0
	SS864SJ	7.000	9.00	.75	3.00	.69	7.00	3.75	15.00	.88	13.00	5.50	.62	55.0
	SS984	7.000	9.00	.75	3.00	.69	7.38	3.75	14.88	.88	13.00	5.50	.62	58.0
	SS984SJ	7.000	9.00	.75	3.00	.69	7.50	3.75	14.88	.88	13.00	5.50	.62	58.0
	SS994	7.000	9.00	.75	3.00	.69	7.50	3.75	14.88	.88	13.00	5.50	.62	58.0
	SS994SJ	7.000	9.00	.75	3.00	.69	7.50	3.75	14.88	.88	13.00	5.50	.62	58.0

*N = 12.06

SPROCKETS

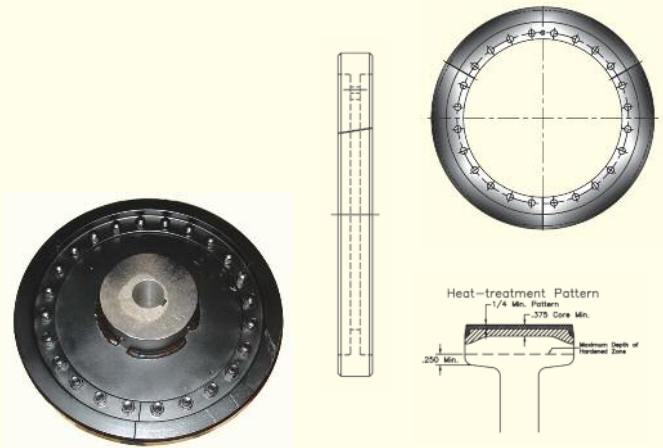
Split Segmental Rim for HD and SD wide series drag chains

Allied-Locke industries' innovative design helps to save time and money during installation of the sprocket without losing sprocket integrity. Sprocket teeth are made of alloy steel and heat treated to survive in the most severe applications. Bodies are made from medium carbon steel and include mounting hardware.



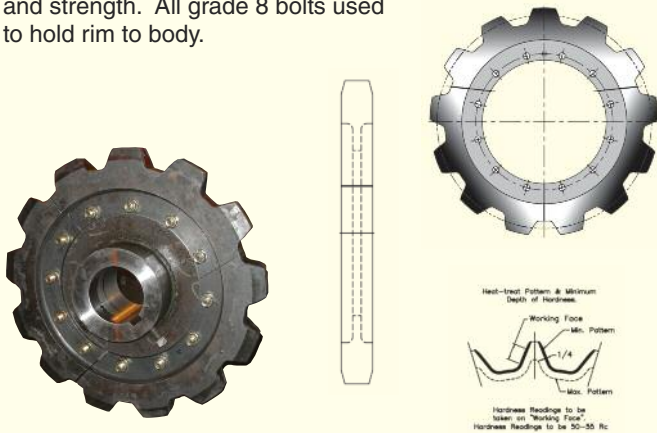
Fabricated Steel Segmental Traction Wheel Rim for Elevator Chains

Rim is made of alloy steel and hardened for severe duty. Wear of chamfered rim acts as a signal for time of replacement. All grade 8 bolts utilized to hold rim to body.



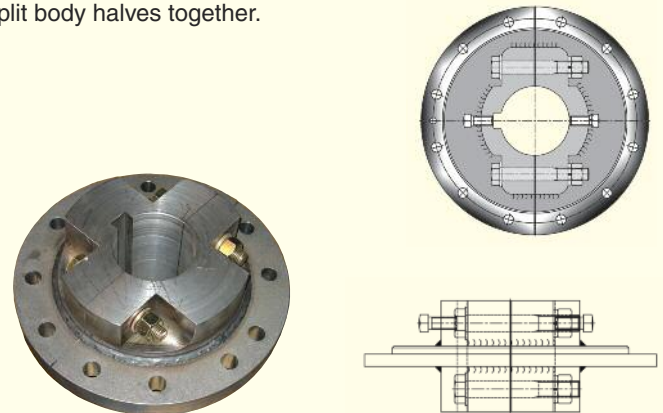
Fabricated Steel Segmental Sprocket Rim for Elevator Chains

Rim is made of alloy steel and heat treated with a hardness pattern designed for maximum wear and strength. All grade 8 bolts used to hold rim to body.



Fabricated Steel Split Body

Body is made of medium carbon steel for durability. All grade 8 hardware used for holding split body halves together.

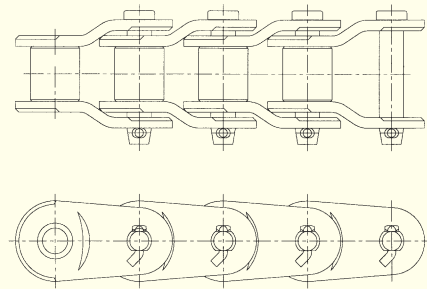


FEATURES

- ★ All sprocket teeth profiled for smooth engagement and disengagement.
- ★ All segmental rims manufactured from alloy steel.
- ★ Bodies manufactured from medium carbon steel.
- ★ All grade 8 hardware holding split body halves together.
- ★ All grade 8 hardware holding rim on to bodies.
- ★ Huck fasteners are available.

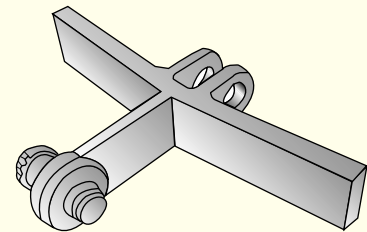
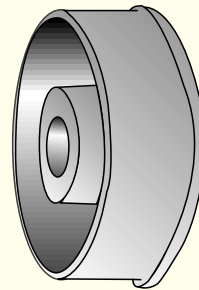
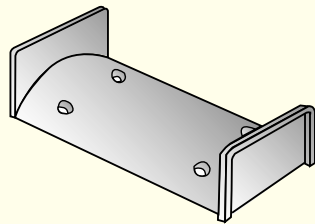
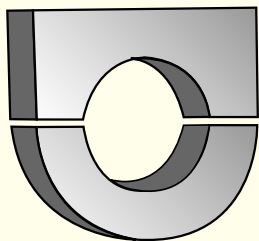
3100 SERIES CHAIN

This specially designed chain features offset construction, built-in clearances, induction hardened three (3) diameter pins and strengths typical of straight sidebar ANSI Roller Chain of identical pitch. 3100 Series Chain is designed to have all the features and benefits of Standard Drive Chain, but unlike these Drive Chains, 3100 Series Chain operates on the same sprockets, and is direct replacement for ANSI Roller Chain of identical pitch.



**Available in
3120, 3140, 3160 and 3180**

Also Available:



Gudgeon Bearings

Wear Blocks & Liners

Return Rolls

Case Conv. Chain



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