



Engineering Class Chain Products General Catalog



MAXCO CHAIN

1245 Kennestone Circle
Marietta, Ga 30066
TEL: 800-241-8209
TEL: 770-424-9350
FAX: 770-424-9145

MAXCO CHAIN

3529 NW Yeon Ave.
Portland, OR 97210
TEL: 800-544-7943
TEL: 503-228-6828
FAX: 503-228-6703

Visit our website: www.senqciamaxco.com



Engineering Class Chains

Table of Contents

	Engineering Class Drive Chain	
	Introduction	6
	Dimensions and Specifications	7
	Drive Chain Selection	8-9
	Roller Conveyor Chains	
	Introduction	10-11
	Plain Chain Dimensions and Specifications	12-13
	Attachment Chain Dimensions and Specifications	14-21
	Raised Sidebar Chains	
	Introduction	22
	Dimensions and Specifications	23
	Conveyor Chain Selection	24-30
	Steel Bushed Chains	
	Introduction	31
	Plain Chain Dimensions and Specifications	32
	Attachment Chain Dimensions and Specifications	33-37
	Cast Combination Chains	
	Introduction	38
	Plain Chain Dimensions and Specifications	39
	Attachment Chain Dimensions and Specifications	40-42
	Welded Steel Mill Chains	
	Introduction	43
	Plain Chain Dimensions and Specifications	44
	Attachment Chain Dimensions and Specifications	45-51
	Welded Steel Drag Chains	
	Introduction	52
	Plain Chain Dimensions and Specifications	53
	Attachment Chain Dimensions and Specifications	54-55
	Drop Forged Rivetless Chains	
	Introduction	56
	Dimensions and Specifications	57
	"H" Class Mill Chains	
	Introduction	58
	Plain Chain Dimensions and Specifications	59
	Attachment Chain Dimensions and Specifications	60-62

Table of Contents

	400 Class Pintle Chains	
	Introduction	63
	Plain Chain Dimensions and Specifications	64
	Attachment Chain Dimensions and Specifications	65-66
	Sugar Mill Chains	
	Introduction	67
	Plain Chain Dimensions and Specifications	68
	Attachment Chain Dimensions and Specifications	69-70
	Carrier Slats	71
	Draw Bench / Bar and Pin / Double Flex Chains	
	Chain Dimensions and Specifications	72-75
	Meat Packaging Chains	
	Introduction	76
	Chain Dimensions and Specifications	77
	Bakery Oven and Proofer Chains	
	Introduction	78
	Chain Dimensions and Specifications	79-80
	Asphalt Chains	
	Introduction	81
	Chain Dimensions and Specifications	82-85
	Coal Mining Chains	
	Introduction	86
	Chain Dimensions and Specifications	87-89
	Detachable Chains	
	Introduction	90
	Chain Dimensions and Specifications	91-93
	Apron Conveyors	
	Introduction	94-95
	Chain Dimensions and Specifications	96-97
	Environmental Chains	
	Introduction	98
	Dimensions and Specifications	99-102
	Product Index Section	103 - 122

Engineering Class Chains

Drive Chains

Superior Strength and Toughness for Demanding Applications

Maxco Chain Heavy Duty Engineering Class Drive Chains are designed and built to withstand the rugged requirements of high load power transmission applications. In order to offer the best combination of chain strength, wear performance and shock load resistance, these premier chains possess the following key features:

- Offset sidebar construction (most sizes).
- High quality heat treated carbon and alloy steels.
- Induction hardened pins (select chains).
- Heavy interference fits.
- Full round pin and bushing design.

Maxco Chain Heavy Duty Drive Chains meet or exceed OEM and ASME/ANSI specifications.



Product

Page

Heavy Duty Drive Chain

7

Heavy Duty Drive Chain Design

8-9

Engineering Class Drive Chain

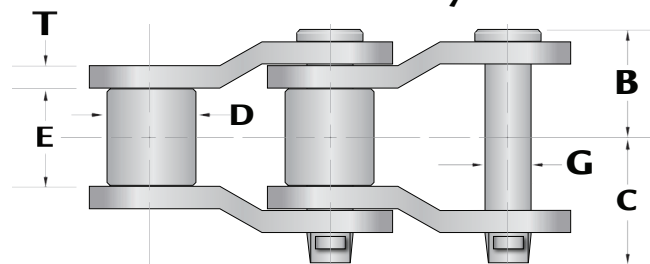
Drive Chain Specifications

Chain Dimensions Are Given In Inches

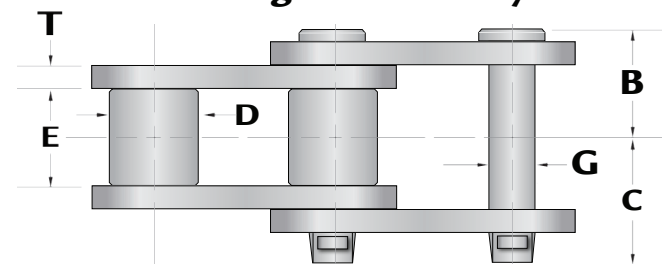
MAXCO Chain Number	Chain Pitch P	Inside Width E	Roller		Pin				Side Bar			Bushing		Rated Working Load lbs	Average Ultimate Strength lbs	Avg. Chain Wght lbs/ft
			D	Mat.	G	Mat.	B	C	T	H	Mat.	R	Mat.			
	OFFSET SIDEBAR STYLE															
H25H	2.500	1.500	1.250	A-HT	0.648	A-HT	1.70	2.00	0.375	1.625	A-HT	0.910	A-CH	4,900	87,000	9.2
HR588	2.609	1.125	0.875	C-HT	0.438	C-HT	1.25	1.45	0.250	1.125	C-HT	0.640	C-CH	2,500	26,000	3.6
H3011	3.067	1.563	1.625	A-HT	0.750	A-HT	1.75	2.20	0.375	2.250	A-HT	1.125	A-CH	6,100	110,000	12.0
H1031	3.075	1.500	1.250	A-HT	0.625	A-HT	1.60	1.90	0.313	1.500	A-HT	0.910	A-CH	4,650	48,000	7.0
HP3H	3.075	1.500	1.250	A-HT	0.648	A-HT	1.70	2.00	0.375	1.750	A-HT	0.910	A-CH	5,100	75,000	9.6
H238	3.500	1.500	1.750	A-HT	0.875	A-HTIH	2.00	2.40	0.500	2.250	A-HT	1.250	A-CH	7,700	140,000	16.1
H1242	4.063	1.938	1.750	A-HT	0.875	A-HT	2.20	2.60	0.500	2.250	A-HT	1.250	A-CH	9,000	140,000	16.1
H1245	4.073	1.938	1.780	A-HT	0.938	A-HT	2.40	2.75	0.562	2.380	A-HT	1.313	A-CH	10,100	170,000	18.0
H635	4.500	2.063	2.250	A-HT	1.093	A-HTIH	2.50	2.90	0.563	3.000	A-HT	1.625	A-CH	12,300	220,000	25.4
H1602A	5.000	2.750	2.500	A-HT	1.250	A-HTIH	3.10	3.40	0.625	3.500	A-HT	1.750	A-CH	17,500	310,000	34.0
H5035	5.000	2.563	2.500	A-HT	1.375	A-HTIH	3.10	3.50	0.750	3.500	A-HT	1.875	A-HT	19,600	350,000	38.1
H5542	5.500	3.000	3.000	A-HT	1.500	A-HTIH	3.40	3.90	0.750	4.000	A-HT	2.000	A-HT	23,600	420,000	49.1
H6042	6.000	3.000	3.000	A-HT	1.500	A-HTIH	3.40	3.90	0.750	4.000	A-HT	2.000	A-HT	23,600	420,000	45.0
H6066	6.000	3.000	*	*	1.750	A-HTIH	3.40	3.90	0.750	4.750	A-HT	3.000	A-HT	27,600	600,000	51.7
	STRAIGHT SIDEBAR STYLE															
H344SXX	3.000	1.938	1.780	A-HT	0.938	A-HTIH	2.40	2.80	0.563	2.375	A-HT	1.313	A-CH	10,050	170,000	22.0
H4031	4.000	2.750	2.500	A-HT	1.250	A-HTIH	2.90	3.40	0.625	3.500	A-HT	1.750	A-HT	17,500	310,000	40.0
H5042	5.000	3.000	3.000	A-HT	1.500	A-HTIH	3.40	3.90	0.750	4.000	A-HT	2.000	A-HT	23,600	420,000	53.0
H6566	6.500	3.250	3.500	A-HT	1.750	A-HTIH	4.00	4.40	0.875	6.000	A-HT	2.438	A-HT	30,600	600,000	71.1
H7080	7.000	3.250	4.500	A-HT	2.125	A-HTIH	3.80	4.20	0.875	6.000	A-HT	3.125	A-HT	37,150	800,000	89.6

DIMENSIONS SUBJECT TO CHANGE

Offset Sidebar Style



Straight Sidebar Style



- C-HT Medium Carbon Steel - Through Hardened
- A-HT Medium Carbon Alloy Steel Through Hardened
- A-HTIH Medium Carbon Alloy Steel Through Hardened and Induction Hardened
- C-CH Low Carbon Steel - Case Hardened
- A-CH Low Carbon Alloy Steel - Case Hardened

* Not Applicable

Engineering Class Chains

Drive Chain Selection

Introduction

Engineering Class Drive Chains are one of the most efficient and cost effective ways to transmit mechanical power between shafts. They handle large working loads in the slow to moderate speed range, have very small energy losses, and are generally inexpensive compared with other methods of transmitting power between rotating shafts. Successful selection involves following several simple steps involving algebraic calculation and the use of Horsepower, Service Factor tables and/or working load calculation.

For any given set of drive conditions, a number of possible chain and sprocket combinations are possible. The designer therefore, should be aware of several selection principles which, when applied correctly, help to balance overall drive performance and cost. The purpose of this section is to help designers make selections that meet the requirements of the drive, and are cost efficient.

General Drive Chain Selection Principles

- The recommended number of teeth for the small sprocket is 12. The minimum which should be used is 9. Smoother operation is achieved with more teeth.
- Speed ratios should be 7:1 or less (optimum) and never more than 10:1.
- The minimum wrap of the small sprocket is 120 degrees.

General Drive Chain Operating Principles

a) **Lubrication:** A separating wedge of high quality oil formed between the operating joints protects chains from rapid wear out due to metal to metal contact and if supplied in sufficient volume also provides effective cooling and impact load damping. Effective lubrication is the single most effective way to improve chain performance and prolong life. The chain should be protected against moisture and kept free of contamination. High quality non-detergent petroleum based oil is recommended. Heavy grease is generally too stiff to penetrate chain joints effectively. The following indicates the recommended viscosity for a given temperature:

SAE20: 20°F - 40°F	SAE40: 100°F - 120°F
SAE30: 40°F - 100°F	SAE50: 120°F - 140°F

- Alignment:** Accurate alignment of shafts and sprockets helps provide uniform distribution of loads across the entire width of the chain and contributes to optimum drive performance.
- Direction of Travel:** For offset bar chains used in power transmission service (i.e. drives), the narrow end should face the smaller sprocket on the tight side. Note that this is not always the best running direction for offset side bar chains used on conveyors.
- Sprockets:** Hardened tooth sprockets are recommended.

Required Information for Drive Chain Selection

- Type of input power (electric motor, internal combustion engine with mechanical or hydraulic drive), and type of equipment to be driven.
- Amount of horsepower required to provide sufficient power to the driven shaft. Full load speed of the fastest running shaft (rpm).

- Desired speed of the slow running shaft (i.e. the speed ratio). NOTE: **If speeds are variable determine the horsepower to be transmitted at each speed.**
- Diameters of the driver and driven shafts.
- Center distance of the shafts. NOTE: **If this distance is adjustable determine the amount of adjustment.**
- Note the position of the drive and any space limitations that might exist. These space limitations usually limit the diameter of the large sprocket and may require the speed reduction (or speed increase) be accomplished in more than one (1) drive ratio.
- Conditions of the drive. It is advisable to consult with MAXCO engineering personnel when unusual conditions such as widely fluctuating loads, temperatures, or severely abrasive or corrosive environments exist.

Abbreviations Used in Equations

N: Number of teeth on the large sprocket.
 n: Number of teeth on the small sprocket.
 R: Speed in revolutions per minute (rpm) of large sprocket.
 r: Speed in revolutions per minute (rpm) of small sprocket.
 S: Linear Chain Speed in feet per minute (fpm).
 C: Shaft center distance in chain pitches.
 HP: Horsepower of the drive motor or engine.
 SF: Service Factor
 DHP: Design Horsepower
 P: Speed Factor
 T: Calculated chain tension.

Chain Selection by Calculating Chain Tension

The method for selecting Engineering Class Drive Chains in this catalog will involve:

- Calculating the “design horsepower” (DHP) based on the motor or engine capacity and the drive conditions.
- Determining the “calculated chain tension” from the design horsepower and chain speed.
- Comparing the calculated chain tension (T) to the “rated working load” of the selected chain and in some situations to a value equal to 15% of the selected chains average ultimate strength.

Most Engineering Class Drive Chains operate at relatively slow speeds. The rated working load values found in the dimensional tables in this catalog are based on maintaining a maximum bearing pressure between the pin and bushing of 3,500 pounds per square inch (psi). This means that if the calculated chain tension in the drive is equal to or less than the selected chain’s rated working load we will be operating at or below the optimum pin/bushing bearing pressure of 3,500 psi and we can expect successful chain performance.

We note however that often chains can be operated successfully in excess of the “rated working load” limit. The applications that lend themselves to successful performance in this situation are slow speed (less than 50 ft/min), well lubricated chain drives. In this case we may operate the chain at a calculated chain tension (T) up to 15% of its average tensile strength. When selecting chains by this criterion confirm the selection with MAXCO engineering personnel.

Drive Chain Selection

Step 1: Determine the Design Horsepower (DHP)

$$DHP = \text{Motor HP} \times SF$$

SF (Service Factor) is based on the type of input power and classification of the expected shock loading in the application. Use the table below to determine an appropriate SF.

Class of Driven Load	Type of Input Power		
	Internal Combustion Engine with Hydraulic Drive	Electric Motor or Turbine	Internal Combustion Engine with Mechanical Drive
Uniform	1.0	1.0	1.2
Moderate	1.2	1.3	1.4
Heavy	1.4	1.5	1.7

Example: A 25HP electric motor which will operate with moderate shock loading has a $DHP = 25 \times 1.3 = 32.5$ thus $DHP = 32.5$

Step 2: Calculate Expected Chain Linear Speed

Begin by assuming the recommended 12 tooth small sprocket and make a preliminary selection of chain pitch from the Drive Chain dimensional data shown in the preceding pages. It is not important that the selection be correct at this point. Use the following formula to determine linear chain speed (S):

$$S = (P \times r \times n) / 12$$

Example: Choose a 12 tooth sprocket (n) with an input speed of 15 rpm (r) and estimate a chain pitch of 3.5" (P) we get:

$$S = (3.5 \times 15 \times 12) / 12 = 52.5 \text{ fpm}$$

Step 3: Determine the Calculated Chain Tension (T)

$$T = [DHP \times 33,000] / S \times F$$

F (Speed Factor) can be determined from the table below:

Linear Chain Speed (fpm)	Factor
0 - 50	1.0
51 - 100	1.2
101 - 160	1.4

Example: From the example we have been using since the linear chain speed is 52.5 fpm we would specify a speed factor of 1.2. Calculated Chain tension (T) = $[(32.5 \times 33,000) / 52.5] \times 1.2 = 24,514 \text{ lbs.}$

Step 4: Determine the Required Chain Tensile Strength

For chain speeds less than 100 fpm, after applying the appropriate speed and service factors as shown above, we may operate a chain with the calculated chain tension (T) at 15% of the Average Tensile Strength.

$$\text{Required Average Tensile Strength} = T / 0.15$$

Example: In the example we have been using the required average tensile strength would be $24,514 / .15 = 163,426 \text{ lbs.}$

Step 5: Confirm and/or Reselect Chain Size

Now we must verify our preliminary selection is correct. If it was not sufficient we need to modify our chain selection so that the combination of Chain Pitch and Average Tensile Strength (ATS) meet the requirements of the equation as shown in Step 4.

Example: Returning to our example we note that our 3.5" pitch chain is H238 which has an average tensile strength of 140,000 lbs. Since this strength is less than required ATS of 163,426 lbs. we must make another selection.

We note that increasing pitch will increase linear speed and therefore reduce calculated chain tension, however, we might be limited by the diameter of the sprocket. We therefore will consider two larger pitch chains, H1242 and H1245.

First, we check H1243 (P = 4.063" ... ATS = 140,000 lbs.)

$$S = (4.063 \times 15 \times 12) / 12 = 60.9 \text{ fpm}$$

$$T = [(32.5 \times 33,000) / 60.9] \times 1.2 = 21,133 \text{ lbs.}$$

$$\text{Required ATS} = 21,133 / .15 = 140,866 \text{ lbs.}$$

H1242 is close, but does not satisfy the requirement.

Next, we try H1245 (P = 4.073" ... ATS = 170,000 lbs.)

We don't need to calculate this based on a 12 tooth sprocket since it will obviously be satisfactory, however, can we use a smaller sprocket?

Let's try 9 teeth:

$$S = (4.073 \times 15 \times 9) / 12 = 45.8 \text{ fpm}$$

$$T = [(32.5 \times 33,000) / 45.8] \times 1.0 = 23,417 \text{ lbs. (note the speed factor changes).}$$

$$\text{Required ATS} = 23,417 / .15 = 156,113$$

H1245 with a 9 tooth sprocket does satisfy the requirements of Step 4 and may be selected. We would recommend that the largest number of teeth up to 12, which can be accommodated by available space, be specified.

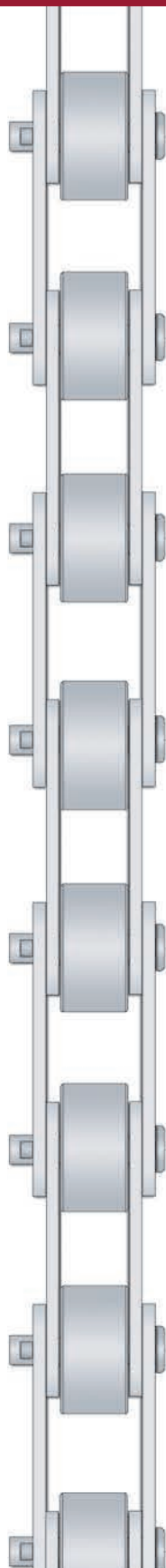
Note that it was possible to make H1242 or perhaps H238 work as well by increasing the number of teeth on the small sprocket. Sometimes much trial and error is required to get the best possible combination of chain pitch and number of teeth in the small sprocket to satisfy space limitations.

Final Notes:

The above method selects a chain based on chain strength. If the user desires less replacement over a more economical selection rather than comparing the calculated chain tension (T) to the ATS, the user may compare the calculated chain tension (T) to the rated working load given in the dimensional tables. This will select a chain with a larger pin diameter and will require less frequent replacement due to wear out (i.e. elongation).

Engineering Class Chains

Roller Conveyor Chains



Quality Performance Through Precision Manufacturing

Maxco Chain Engineering Class Roller Conveyor Chains are available with a wide variety of attachments for general and heavy duty conveying service. Chains are produced with high quality steels and precise manufacturing controls. These chains are available with special materials, plating or coatings to operate successfully in a wide variety of challenging environmental conditions including high or low temperatures, corrosive applications or abrasive conditions. Maxco Chain's experienced application engineering department can assist with the correct selection or application of these products.

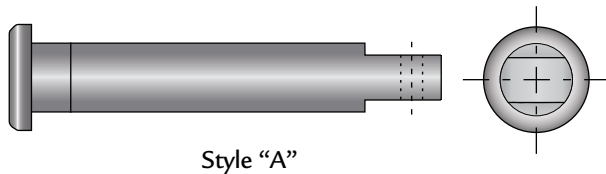


Product	Page
Roller Conveyor Plain Chain	12-13
A-1 / K-1 Attachments	14
A-11 Attachments	15
A-2 / K-2 Attachments	16-17
A-22 / A-42 Attachments	18
G-6 Attachments	19
G-19 / G-29 Attachments	20-21

Roller Conveyor Chain Components

Pins

Maxco Chain Roller Conveyor Chain pins are made from high quality carbon or alloy steels. The parts are heat treated to provide excellent strength and wear resistance. Standard materials and heat treatments can be found in the tables on pages 12-13, however, specialty materials, heat treatments, plating or coatings are available to suit the conditions of more difficult or challenging applications.

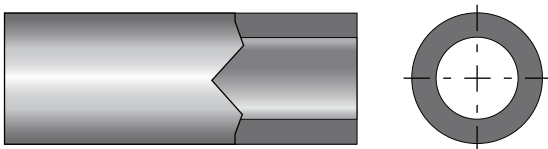


Style "A"

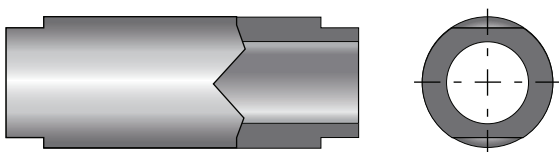
Standard pins are cottered although rivet type pins can be furnished upon request. The three diameter construction allows for easy assembly in the field and the double flatted ends (Style A) provide a mechanical lock to prevent pin rotation which can occur over time.

Bushings

Maxco Chain Roller Conveyor Chain bushings are made from high quality carbon or alloy steels and generally carburized for superior wear resistance. Standard materials and heat treatments can be found in the tables on pages 12-13, however, specialty materials, heat treatments, platings or coatings are available to suit the conditions of more difficult or challenging applications. Roller Conveyor Chain bushings may be full round (Style "R") or double flatted (Style "F") depending on chain size.



Style "R"



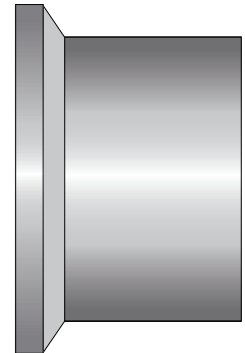
Style "F"

Rollers

Maxco Chain Roller Conveyor Chain rollers are made from high quality carbon or alloy steels. These parts are heat treated to provide excellent strength and wear resistance. Standard materials and heat treatments can be found in the tables on pages 12-13, however, specialty materials, heat treatments, platings or coatings are available to suit conditions of more difficult or challenging applications. Flanged rollers (Style "U") are specified on some chain sizes and act as tracking devices for long conveyors. Rollers of chains greater than 3" pitch are carrier rollers (i.e. the roller diameter is larger than the side bar height) which allows chains to roll reducing friction and power requirements.



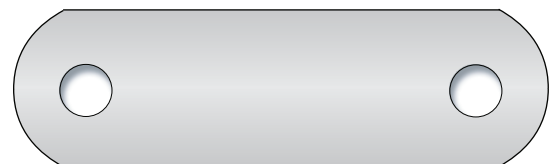
Style "T"



Style "U"

Sidebars

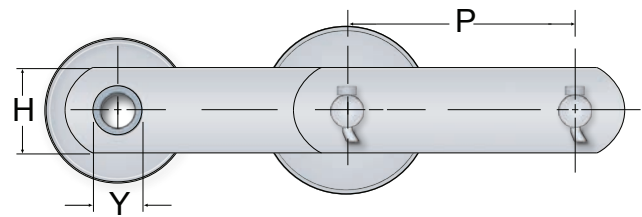
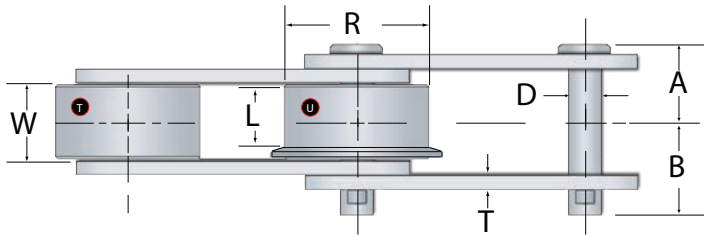
Maxco Chain Roller Conveyor Chain sidebars are made from high quality carbon or alloy steels. The parts are generally not heat treated however there are exceptions. Standard materials and heat treatments (if any) can be found in the tables on pages 12-13, however, specialty materials, heat treatments, platings or coatings are available to suit the conditions of more difficult or challenging applications. MAXCO uses precision tooling for accurate pitch control and smooth holes to assure appropriate fits for all of the components.



Engineering Class Chains

Roller Conveyor Chains

Roller Conveyor Plain Chain



Roller Conveyor Chain Specifications

Chain Dimensions Are Given In Inches

Maxco Chain Num.	Chain Pitch P	Inside Width W	Roller				Pin				Sidebar			Bushing			Rated Work Load lbs	AUS* lbs	Avg Wgt lbs/Ft
			R	Sty	L	Mat	D	Mat	A	B	T	H	Mat	Y	Mat	Sty			
378R 378RX 278R	1.654" & 2.609" Pitch																		
	1.654	1.000	0.895	T	-	Z	0.438	W	1.03	1.25	0.188	1.125	C	0.640	Z	R	2,100	13,000	3.7
	1.654	1.000	0.895	T	-	Z	0.438	W	1.03	1.25	0.188	1.125	Z	0.640	Z	R	2,100	20,000	3.7
	2.609	1.125	0.875	T	-	X	0.438	W	1.13	1.31	0.188	1.125	C	0.640	Z	R	2,300	13,000	3.0
53R 93R 119R 119RX	3.000" & 3.075" Pitch																		
	3.000	1.000	1.500	T	-	X	0.438	Y	1.03	1.25	0.188	1.125	C	0.640	Z	R	2,100	13,000	3.9
	3.000	1.250	1.500	T	-	X	0.500	Y	1.30	1.50	0.250	1.250	C	0.750	Z	R	3,000	20,000	4.8
	3.075	1.500	1.250	T	-	Y	0.625	Y	1.60	1.85	0.313	1.500	C	0.875	Z	R	4,600	28,000	6.8
1188R 95R 90R	4.000" Pitch																		
	3.075	1.500	1.250	T	-	Y	0.625	Y	1.60	1.85	0.313	1.500	Z	0.875	Z	R	4,600	48,000	6.8
	4.000	1.125	1.750	T	-	Z	0.438	Y	1.12	1.28	0.188	1.125	C	0.640	Z	R	2,100	13,000	3.3
	4.000	1.000	1.500	T	-	X	0.438	Y	1.03	1.25	0.188	1.125	C	0.640	Z	R	2,100	13,000	3.4
94R 97R 83R	4.000	1.188	2.000	T	-	X	0.438	Y	1.03	1.16	0.188	1.250	C	0.640	Z	R	2,400	16,500	5.3
	4.000	0.875	1.500	T	-	X	0.500	Y	1.16	1.28	0.250	1.250	C	0.750	Z	R	2,400	19,000	4.1
	4.000	0.875	1.750	T	-	X	0.500	Y	1.12	1.31	0.250	1.250	C	0.750	Z	R	2,400	19,000	4.5
	4.000	1.313	2.000	T	-	X	0.625	Z	1.40	1.65	0.250	1.500	C	0.875	Z	R	3,650	22,000	6.6
91R 89R 84R	4.000	1.313	1.750	T	-	Z	0.625	Z	1.50	1.75	0.313	1.500	C	0.890	Z	R	4,100	28,000	7.0
	4.000	1.313	2.250	T	-	X	0.625	Z	1.60	1.90	0.375	1.500	C	0.890	Z	R	4,500	28,000	10.6
	4.000	2.313	2.250	T	-	X	0.625	Z	2.10	2.45	0.375	1.500	C	0.890	Z	R	4,700	28,000	13.5
	4.040" Pitch																		
1113R	4.040	1.313	2.000	T	-	X	0.625	Z	1.50	1.75	0.313	1.500	C	0.890	Z	R	4,250	26,000	7.4
	6.000" Pitch																		
196R	6.000	1.125	2.000	T	-	X	0.438	Y	1.18	1.41	0.250	1.250	C	0.640	Z	R	2,500	18,000	5.0
603R	6.000	1.313	2.500	U	0.875	Y	0.563	Z	1.34	1.59	0.250	1.500	C	0.813	Z	R	3,500	21,000	5.5
604R	6.000	1.313	2.000	T	-	X	0.563	Z	1.34	1.59	0.250	1.500	C	0.813	Z	R	3,500	21,000	5.4
607R	6.000	1.313	2.500	T	-	X	0.563	Z	1.34	1.59	0.250	1.500	C	0.813	Z	R	3,500	21,000	6.5
86R	6.000	1.313	2.000	T	-	X	0.625	Z	1.37	1.62	0.250	1.500	C	0.875	Z	R	3,600	22,000	5.4
627R	6.000	1.313	2.000	T	-	X	0.625	Z	1.50	1.75	0.313	1.500	C	0.890	Z	R	4,000	26,000	6.6
625R	6.000	1.688	3.000	U	1.125	Y	0.625	Z	1.56	1.81	0.250	2.000	C	0.890	Z	R	4,150	25,000	9.8
629R	6.000	1.500	3.000	T	-	X	0.625	Z	1.59	1.84	0.313	1.500	C	0.890	Z	R	4,400	26,000	9.7
626R	6.000	1.313	3.000	T	-	X	0.625	Z	1.66	1.93	0.375	2.000	C	0.875	Z	R	4,500	28,000	10.7
628R	6.000	1.313	2.250	T	-	X	0.625	Z	1.66	1.93	0.375	1.750	C	0.890	Z	R	4,500	28,000	8.7
614R	6.000	1.375	2.500	T	-	X	0.750	Z	1.78	2.03	0.375	2.000	C	1.125	Z	F	5,600	38,000	11.0
631R	6.000	1.375	3.000	T	-	X	0.750	Z	1.78	2.03	0.375	2.000	C	1.125	Z	F	5,600	38,000	12.2
1131R	6.000	1.500	3.000	T	-	X	0.750	Z	1.84	2.09	0.375	2.000	C	1.125	Z	F	5,900	47,000	12.5
96R	6.000	1.500	2.750	T	-	X	0.750	Z	1.84	2.09	0.375	2.000	C	1.125	Z	F	5,900	47,000	11.8
96RX	6.000	1.500	2.750	T	-	X	0.750	Z	1.84	2.09	0.375	2.000	Z	1.125	Z	F	5,900	70,000	11.8
2178RX	6.000	1.500	2.750	T	-	X	0.875	Y	1.84	2.09	0.375	2.250	Z	1.250	Z	F	6,900	85,000	13.1
663R	6.000	2.000	3.000	U	1.500	Y	0.750	Z	2.12	2.37	0.375	2.000	C	1.125	Z	F	7,200	41,000	14.0
610R	6.000	1.688	2.750	T	-	X	0.875	Y	1.93	2.18	0.375	2.250	C	1.375	Z	F	7,450	45,000	13.5
2198RX	6.000	1.500	2.750	T	-	X	0.875	Y	1.91	2.16	0.500	2.250	Z	1.250	Z	F	7,700	100,000	15.3

Z=Medium Carbon Steel Through Hardened

X=Low Carbon Steel Case Hardened

* Average Ultimate Strength

Y=Medium Carbon Alloy Steel Through Hardened

W=Low Carbon Alloy Steel Case Hardened

C=Carbon Steel

Roller Conveyor Chains

Roller Conveyor Chain Specifications - Continued

Chain Dimensions Are Given In Inches

Maxco Chain Num.	Chain Pitch P	Inside Width W	Roller				Pin				Sidebar			Bushing			Rated Work Load lbs	AUS*	Avg Wgt
			R	Sty	L	Mat	D	Mat	A	B	T	H	Mat	Y	Mat	Sty		lbs	lbs/ft
	6.000" Pitch Offset Sidebar Type																		
1604R	6.000	1.063	3.000	T	-	X	0.500	Y	1.28	1.62	0.250	1.250	Z	0.750	Z	R	2,750	24,000	5.4
1126R	6.000	1.313	2.250	T	-	Z	0.625	Z	1.66	1.91	0.375	1.500	C	0.875	Z	R	4,500	28,000	8.0
1126RS	6.000	1.313	3.000	T	-	Z	0.625	Z	1.66	1.91	0.375	1.500	C	0.875	Z	R	4,500	28,000	10.0
2130R	6.000	1.313	2.500	T	-	X	0.750	Z	1.72	2.00	0.375	2.000	C	1.125	Z	F	5,250	38,000	11.0
1630R	6.000	1.375	2.500	T	-	X	0.875	Z	1.72	2.03	0.375	2.000	C	1.250	Z	F	6,500	43,000	11.0
2184R	6.000	1.375	3.000	T	-	X	0.875	Y	1.66	2.03	0.375	2.000	C	1.250	Z	F	6,500	43,000	12.3
2184RX	6.000	1.375	3.000	T	-	X	0.875	Y	1.66	2.03	0.375	2.000	Z	1.250	Z	F	6,500	75,000	12.3
8.000" Pitch																			
896R	8.000	1.500	3.500	T	-	X	0.750	Y	1.78	2.09	0.375	2.000	C	1.125	Z	F	5,900	47,000	14.3
806R	8.000	1.813	3.000	T	-	X	1.000	Y	2.31	2.62	0.500	2.500	Z	1.500	Z	F	9,800	95,000	22.5
A2800	8.000	1.813	3.500	T	-	X	1.000	W	2.31	2.62	0.500	2.750	Z	1.500	Z	F	9,800	110,000	26.2
800RX	8.000	1.813	3.500	T	-	X	1.000	W	2.31	2.62	0.500	3.000	Z	1.500	Z	F	9,800	125,000	22.5
9.000" Pitch																			
925R	9.000	1.688	3.000	U	1.125	Y	0.625	Z	1.56	1.84	0.250	2.000	C	0.890	Z	R	4,150	25,000	8.2
912R	9.000	1.500	3.000	T	-	X	0.625	Y	1.59	1.88	0.313	2.000	C	0.890	Z	R	4,650	47,000	8.6
B963R	9.000	2.000	3.500	U	1.250	Y	0.750	Z	2.06	2.34	0.375	2.000	C	1.125	Z	F	7,200	41,000	13.0
D963R	9.000	2.000	3.500	T	-	X	0.750	Z	2.06	2.34	0.375	2.000	C	1.125	Z	F	7,200	41,000	13.0
F963R	9.000	2.000	4.000	U	1.250	Y	0.750	Z	2.06	2.34	0.375	2.000	C	1.125	Z	F	7,200	41,000	14.0
961R	9.000	1.906	1.750	T	-	Z	0.875	Z	2.25	2.69	0.500	2.250	C	1.250	Z	F	9,000	60,000	10.0
964R	9.000	2.250	4.000	U	1.500	Y	0.875	Z	2.18	2.47	0.375	2.500	C	1.250	Z	F	9,200	56,000	17.0
965R	9.000	2.250	3.000	T	-	Z	0.875	Y	2.16	2.47	0.375	2.500	C	1.250	Z	F	9,200	70,000	16.5
967R	9.000	2.625	3.000	T	-	Z	1.000	Z	2.62	3.03	0.500	2.500	C	1.500	Z	F	12,700	75,000	18.0
973R	9.000	2.625	5.000	U	1.750	Y	1.000	Z	2.66	3.06	0.500	2.500	C	1.500	Z	F	12,700	75,000	23.6
12.000" Pitch																			
1212R	12.000	1.500	3.000	T	-	X	0.625	Z	1.59	1.88	0.313	2.000	C	0.890	Z	R	4,650	29,000	7.5
1266R	12.000	1.625	3.250	T	-	X	0.750	Z	1.88	2.16	0.375	2.000	C	1.125	Z	F	6,300	41,000	9.5
1276R	12.000	2.000	4.000	U	1.250	Y	0.750	Z	1.94	2.22	0.313	2.500	C	1.125	Z	F	7,200	41,000	12.0
B1263R	12.000	2.000	3.500	U	1.250	Y	0.750	Z	2.06	2.34	0.375	2.000	C	1.125	Z	F	7,200	41,000	11.0
D1263R	12.000	2.000	3.500	T	-	X	0.750	Z	2.06	2.34	0.375	2.000	C	1.125	Z	F	7,200	41,000	11.0
E1263R	12.000	2.000	4.000	U	1.250	Y	0.750	Z	2.06	2.34	0.375	2.000	C	1.125	Z	F	7,200	41,000	12.0
1272R	12.000	2.500	4.000	T	-	Z	0.875	Z	2.31	2.59	0.375	2.500	C	1.250	Z	F	9,200	56,000	15.0
1264R	12.000	2.250	4.000	U	1.500	Y	0.875	Z	2.18	2.47	0.375	2.500	C	1.250	Z	F	9,200	56,000	15.0
1265R	12.000	2.250	3.000	T	-	X	0.875	Y	2.16	2.47	0.375	2.500	C	1.250	Z	F	10,500	70,000	12.7
1273R	12.000	2.625	5.000	U	1.750	Y	1.000	Z	2.66	3.06	0.500	2.500	C	1.500	Z	F	12,700	75,000	21.5
1271R	12.000	2.750	5.000	U	1.750	Y	1.250	Y	2.75	3.06	0.500	3.000	C	1.750	Z	F	16,400	100,000	27.0
12.000" Pitch Offset Sidebar Type																			
R1251	12.000	1.938	1.750	T	-	Y	0.875	Y	2.31	2.63	0.500	2.000	Z	1.250	Z	F	9,000	64,500	9.8
R2397	12.000	2.250	1.750	T	-	Y	0.875	Y	2.22	2.50	0.375	2.500	Z	1.250	Z	F	9,200	69,000	9.5
R1706	12.000	3.000	2.250	T	-	Y	1.000	Y	2.90	3.19	0.500	2.500	Z	1.500	Z	F	14,000	91,000	13.9
R2614	12.000	2.750	2.500	T	-	Y	1.250	Y	2.94	3.25	0.625	3.500	Z	1.750	Z	F	17,500	155,000	24.0
18.000" Pitch																			
B1863R	18.000	2.000	3.500	U	1.250	Y	0.750	Z	2.06	2.34	0.375	2.000	C	1.125	Z	F	7,200	41,000	9.5
D1863R	18.000	2.000	3.500	T	-	X	0.750	Z	2.06	2.34	0.375	2.000	C	1.125	Z	F	7,200	41,000	9.0
F1863R	18.000	2.000	4.000	U	1.250	Y	0.750	Z	2.06	2.34	0.375	2.000	C	1.125	Z	F	7,200	41,000	10.0
B1864R	18.000	2.250	4.000	U	1.500	Y	0.875	Z	2.18	2.47	0.375	2.500	C	1.250	Z	F	9,200	56,000	12.0
G1864R	18.000	2.250	4.000	T	-	X	0.875	Z	2.18	2.47	0.375	2.500	C	1.250	Z	F	9,200	56,000	11.0
1873R	18.000	2.625	5.000	U	1.750	Y	1.000	Z	2.66	3.06	0.500	2.500	C	1.500	Z	F	12,700	75,000	17.0
1871R	18.000	2.750	5.000	U	1.750	Y	1.250	Y	2.78	3.22	0.500	3.000	C	1.750	Z	F	16,400	100,000	21.0
1866R	18.000	2.750	6.000	U	1.875	Y	1.250	Y	3.03	3.47	0.625	3.000	C	1.750	Z	F	17,500	115,000	26.5
1867R	18.000	3.000	6.000	U	1.875	Y	1.500	Y	3.28	3.59	0.625	3.500	C	2.000	Z	F	22,300	150,000	31.5
24.000" Pitch																			
2473R	24.000	2.625	5.000	U	1.750	Y	1.000	Z	2.66	3.06	0.500	2.500	C	1.500	Z	F	12,700	75,000	15.0
2471R	24.000	2.750	5.000	U	1.750	Y	1.250	Y	2.78	3.22	0.500	3.000	C	1.750	Z	F	16,400	100,000	18.5
2466R	24.000	2.750	6.000	U	1.875	Y	1.250	Y	3.03	3.47	0.625	3.000	C	1.750	Z	F	17,500	115,000	23.0
2467R	24.000	3.000	6.000	U	1.875	Y	1.500	Y	3.28	3.59	0.625	3.500	C	2.000	Z	F	22,300	150,000	27.0

Z=Medium Carbon Steel Through Hardened

Y=Medium Carbon Alloy Steel Through Hardened

C=Carbon Steel

X=Low Carbon Steel Case Hardened

W=Low Carbon Alloy Steel Case Hardened

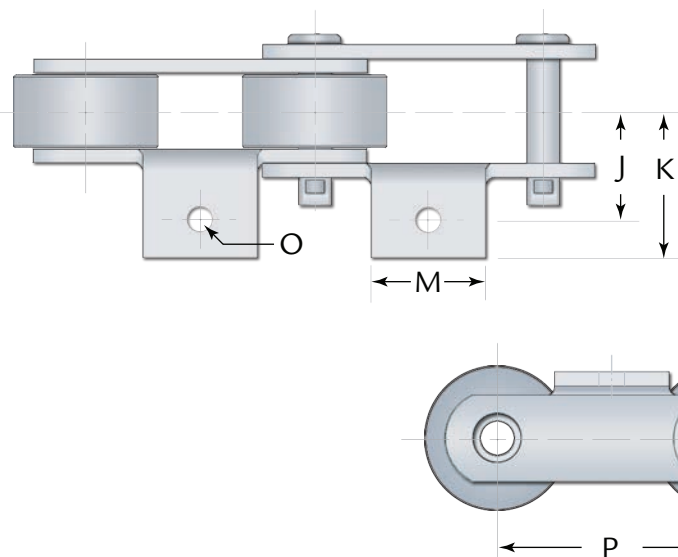
* Average Ultimate Strength

Dimensions subject to change

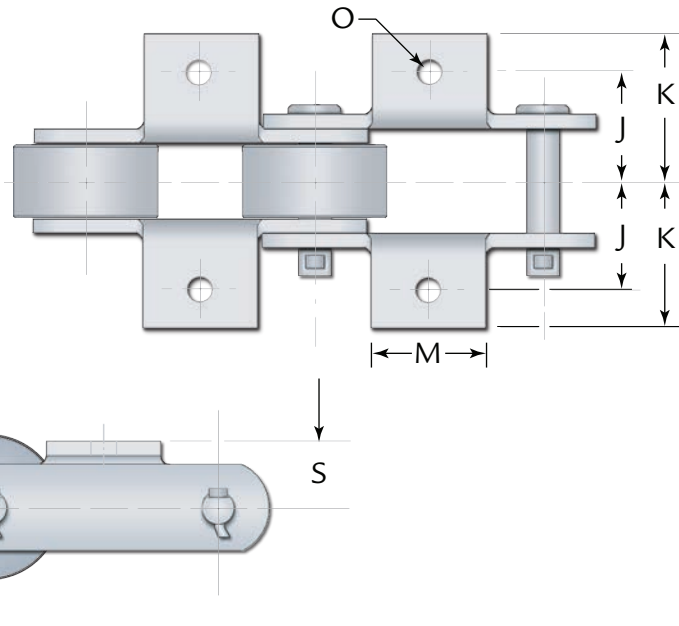
Engineering Class Chains

Roller Conveyor Chain A-1 / K-1 Attachments

A-1 Attachment



K-1 Attachment



A-1 & K-1 Attachment Specifications

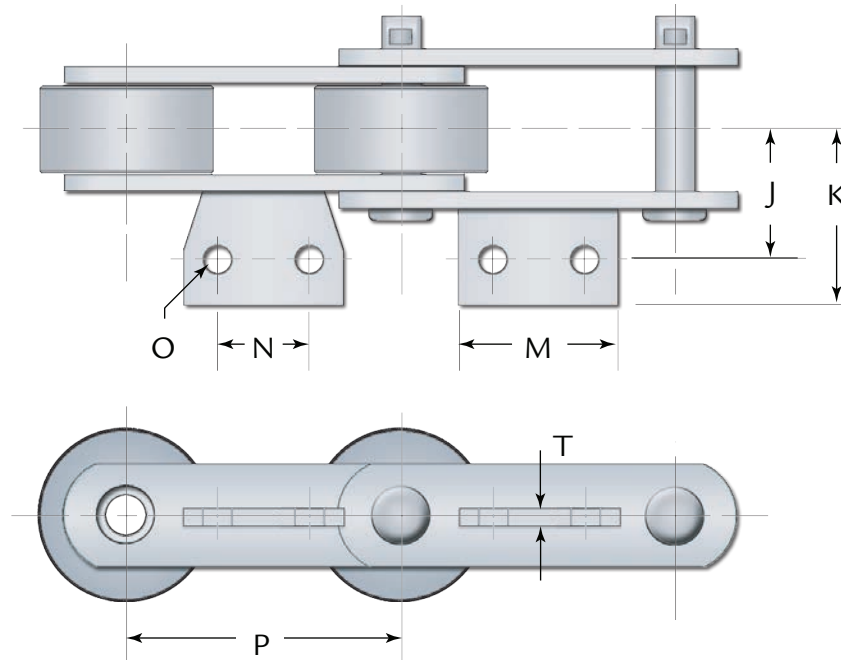
Chain Dimensions Are Given In Inches

Maxco Chain Number	Chain Pitch	Tab Width	Attach Hole Diameter	Attach Plate Height	C/L Chain Att. Hole	Across Attach Holes	C/L Chain Att. Edge	Attach Width	Additional Weight Per Attachment (lbs / pc)	
	P	M	O	S	J	2J	K	2K	A-1	K-1
378R	1.654	0.875	0.343	0.875	1.500	3.000	2.38	4.75	0.10	0.19
278R	2.609	2.125	0.406	0.813	1.906	3.813	2.50	5.00	0.12	0.24
53R	3.000	2.000	0.343	0.813	1.469	2.938	2.09	4.19	0.13	0.25
93R	3.000	1.688	0.531	1.000	1.875	3.750	2.50	5.00	0.18	0.30
119R	3.075	2.875	0.531	1.062	2.094	4.188	2.59	5.19	0.28	0.56
1188R	4.000	3.375	0.406	1.000	1.719	3.438	2.38	4.75	0.43	0.87
83R	4.000	1.750	0.406	1.000	2.000	4.000	2.75	5.50	0.47	0.93
84R	4.000	2.000	0.656	1.250	2.656	5.313	3.22	6.44	1.20	2.40
89R	4.000	1.750	0.406	1.250	2.000	4.000	2.81	5.63	0.40	0.80
90R	4.000	3.250	0.406	1.125	2.000	4.000	2.63	5.25	0.33	0.67
91R	4.000	2.500	0.531	1.000	1.813	3.625	2.69	5.38	0.30	0.60
94R	4.000	2.500	0.406	0.875	1.375	2.750	1.84	3.69	0.20	0.40
95R	4.000	2.375	0.406	0.813	1.375	2.750	2.13	4.25	0.17	0.33
196R	6.000	3.500	0.406	1.250	2.000	4.000	2.47	4.94	0.63	1.25
603R	6.000	3.500	0.406	1.125	2.000	4.000	2.72	5.44	1.05	2.10
604R	6.000	3.500	0.406	1.125	2.000	4.000	2.72	5.44	0.45	0.90
607R	6.000	3.500	0.406	1.125	2.000	4.000	2.72	5.44	0.45	0.90
610R	6.000	4.000	0.656	1.500	2.563	5.125	2.94	5.88	0.95	1.90
614R	6.000	2.500	0.531	1.625	2.125	4.250	2.75	5.50	1.00	2.00
96R	6.000	5.500	0.656	1.625	2.188	4.375	3.00	6.00	1.00	2.00

Dimensions subject to change

Roller Conveyor Chain A-11 Attachment

A-11 Attachment Link



A-11 Attachment Specifications

Chain Dimensions Are Given In Inches

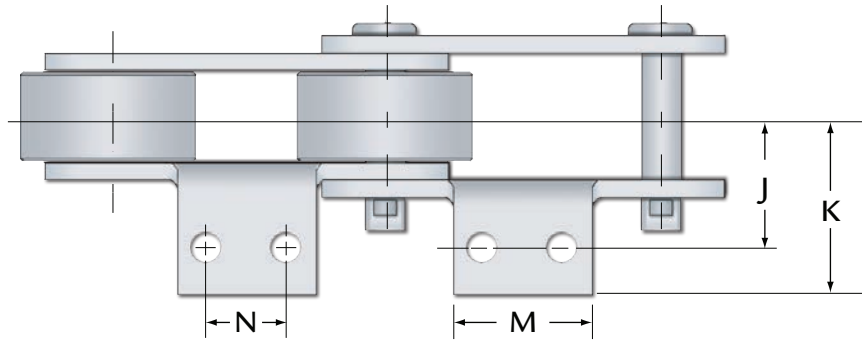
Maxco Chain Number	Chain Pitch	Attachment Hole Diameter		Attach. Plate Thick. (R/L)	Tab Width	C/L Chain Att. Hole	C/L Chain Att. Edge	Additional Weight Attachment lbs/pc
	P	N	O	T	M	J	K	
53R	3.000	1.063	0.281	0.188	2.000	1.578	1.94	0.13
119R	3.075	1.875	0.281	0.313	3.000	1.969	2.69	0.33
1188R	4.000	2.250	0.406	0.250	3.250	2.188	2.88	2.90
94R	4.000	1.375	0.531	0.250	2.500	1.750	2.50	0.37
603R	6.000	2.250	0.406	0.250	3.250	2.563	3.06	1.05
604R	6.000	2.250	0.406	0.250	3.250	2.563	3.06	1.10
607R	6.000	2.250	0.406	0.250	3.250	2.563	3.06	0.55
614R	6.000	2.875	0.531	0.375	4.500	2.750	3.06	0.75

Dimensions subject to change

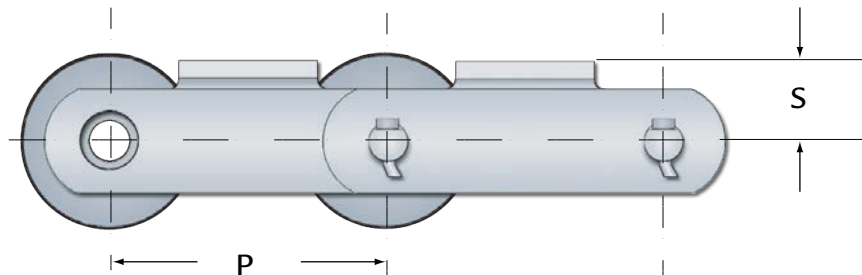
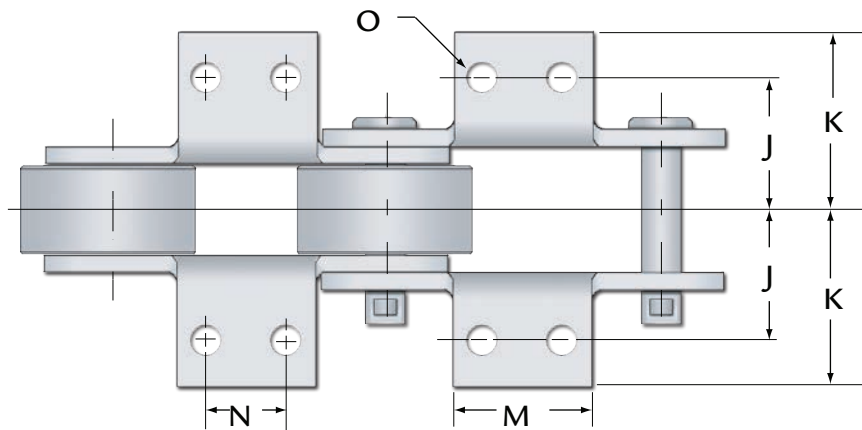
Engineering Class Chains

Roller Conveyor Chain A-2 / K-2 Attachments

A-2 Attachment



K-2 Attachment



Roller Conveyor Chain Attachments - Specifications

A-2 / K-2 Attachments

Chain Dimensions Are Given In Inches

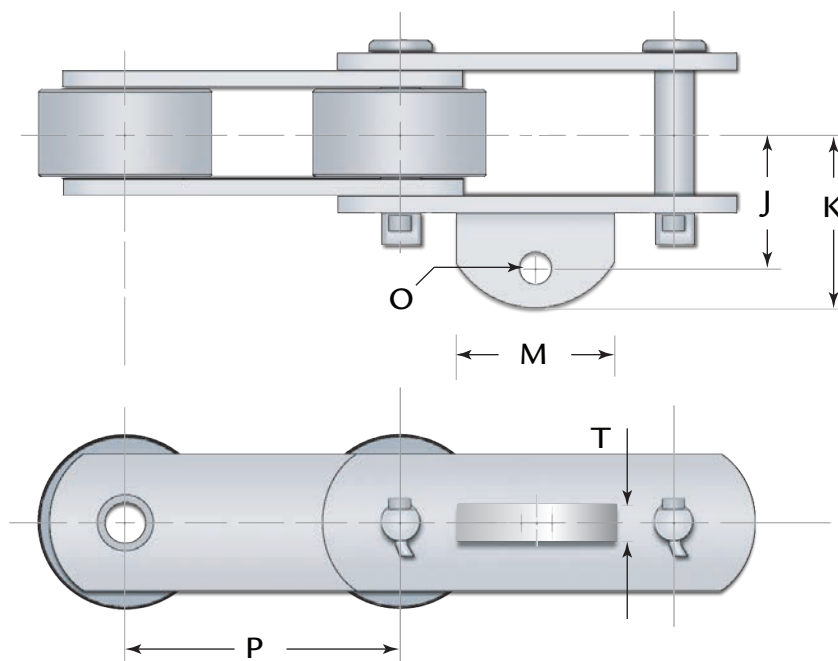
Dimensions subject to change

Maxco Chain Number	Chain Pitch	Tab Width	Attach Hole Pitch	Hole Dia.	Height	C/L Chain Att. Hole	Across Holes	C/L Chain Att. Edge	Overall Width	Additional Weight Attachment lbs/pc	
	Pitch	M	N	O	S	J	2J	K	2K	A-2	K-2
278R	2.609	2.125	1.250	0.344	0.813	2.094	4.188	2.56	5.13	0.12	0.24
53R	3.000	2.000	1.063	0.281	0.813	1.469	2.938	2.09	4.19	0.13	0.25
93R	3.000	2.000	1.250	0.406	1.000	1.875	3.750	2.50	5.00	0.15	0.30
119R	3.075	2.875	1.875	0.344	1.250	2.000	4.000	2.56	5.13	0.28	0.56
1188R	4.000	3.375	2.000	0.406	1.000	2.000	4.000	2.63	5.25	0.43	0.87
83R	4.000	2.750	1.750	0.406	1.000	2.000	4.000	2.75	5.50	0.47	0.93
84R	4.000	2.875	1.750	0.406	1.250	2.656	5.313	3.22	6.44	1.20	2.40
90R	4.000	3.250	2.000	0.406	1.125	2.000	4.000	2.75	5.50	0.33	0.67
91R	4.000	2.875	1.750	0.531	1.000	1.813	3.626	2.69	5.38	0.30	0.60
94R	4.000	2.500	1.500	0.406	0.875	1.375	2.750	1.84	3.69	0.20	0.40
95R	4.000	2.625	1.188	0.344	0.813	1.375	2.750	2.25	4.50	0.17	0.33
1113R	4.040	2.875	1.500	0.406	1.250	2.063	4.126	2.69	5.38	0.61	1.21
1131R	6.000	5.500	2.625	0.531	1.625	3.000	6.000	3.69	7.38	1.48	2.95
196R	6.000	3.500	2.000	0.406	1.250	2.000	4.000	2.47	4.94	0.63	1.25
2178RX	6.000	4.375	3.000	0.531	1.625	2.188	4.376	3.00	6.00	0.55	1.10
2198RX	6.000	4.500	3.000	0.531	1.625	2.188	4.376	3.03	6.06	0.73	1.45
603R	6.000	3.500	2.000	0.406	1.125	2.000	4.000	2.56	5.13	0.90	1.80
604R	6.000	3.500	2.000	0.406	1.125	2.000	4.000	2.66	5.31	0.40	0.80
607R	6.000	3.500	2.000	0.406	1.125	2.000	4.000	2.63	5.25	0.23	0.45
614R	6.000	5.500	2.625	0.531	1.625	2.125	4.250	2.75	5.50	1.00	2.00
626R	6.000	3.500	2.000	0.406	1.625	2.188	4.376	3.00	6.00	1.00	2.00
627R	6.000	3.375	2.000	0.406	1.125	2.000	4.000	2.75	5.50	1.03	2.05
628R	6.000	3.250	2.000	0.531	1.625	2.375	4.750	3.25	6.50	0.75	1.50
629R	6.000	3.500	2.500	0.406	2.000	2.000	4.000	3.00	6.00	1.00	2.00
631R	6.000	5.500	2.625	0.531	1.625	2.125	4.250	2.78	5.56	1.05	2.10
96R	6.000	5.500	3.000	0.531	1.625	2.188	4.376	3.00	6.00	1.00	2.00
96RX	6.000	5.500	3.000	0.531	1.625	2.188	4.376	3.00	6.00	1.00	2.00
800RX	8.000	7.000	4.500	0.656	2.188	2.594	5.188	3.63	7.25	1.20	2.40
806R	8.000	6.875	3.500	0.656	2.188	2.594	5.188	3.34	6.69	0.00	0.00
912R	9.000	5.500	3.500	0.531	1.750	2.563	5.126	3.56	7.13	1.69	3.38
925R	9.000	5.500	3.500	0.531	1.750	2.500	5.000	3.38	6.75	1.88	3.75
964R	9.000	5.500	3.500	0.531	2.875	3.000	6.000	4.00	8.00	1.99	3.98
973R	9.000	5.500	3.500	0.531	3.625	3.750	7.500	4.84	9.69	2.40	4.80
B963R	9.000	5.500	3.500	0.531	2.500	2.875	5.750	3.88	7.75	1.35	2.70
D963R	9.000	5.500	3.500	0.531	2.500	2.875	5.750	3.88	7.75	1.13	2.25
F963R	9.000	5.500	3.500	0.531	2.500	2.875	5.750	3.88	7.75	1.58	3.15
1212R	12.000	8.000	6.000	0.531	1.750	2.563	5.126	3.56	7.13	2.10	4.20
1264R	12.000	8.000	6.000	0.531	2.875	3.000	6.000	4.00	8.00	2.65	5.30
1266R	12.000	8.000	6.000	0.531	1.875	2.344	4.688	3.69	7.38	2.25	4.50
1272R	12.000	8.000	6.000	0.531	2.250	3.000	6.000	4.00	8.00	2.50	5.00
1273R	12.000	8.000	6.000	0.531	3.625	3.750	7.500	4.84	9.69	4.45	8.90
1276R	12.000	8.000	6.000	0.531	2.750	3.031	6.062	4.16	8.31	3.60	7.20
B1263R	12.000	8.000	6.000	0.531	2.500	2.875	5.750	3.88	7.75	2.10	4.20
D1263R	12.000	8.000	6.000	0.531	2.500	2.875	5.750	3.88	7.75	2.20	4.40
E1263R	12.000	8.000	6.000	0.531	2.500	2.875	5.750	3.88	7.75	0.80	1.60

Engineering Class Chains

Roller Conveyor Chain A-22 & A-42 Attachments

A-22 / A-42 Attachment



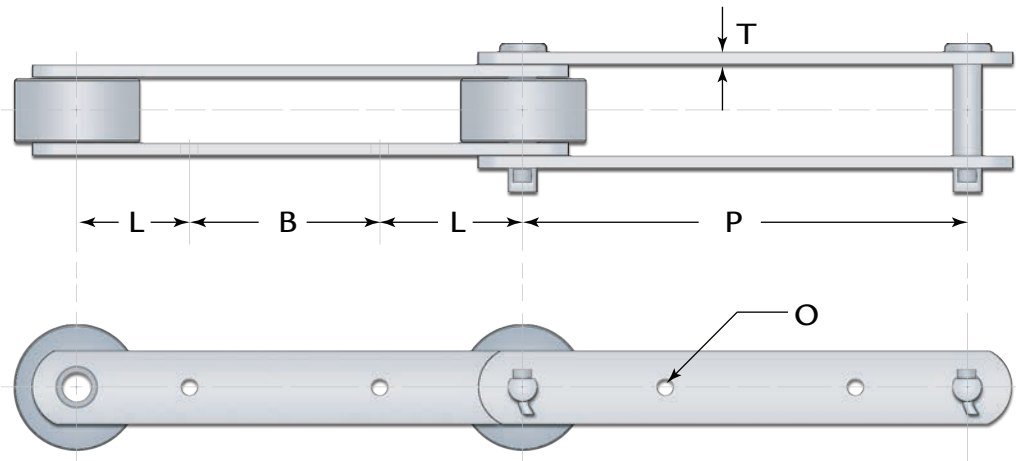
A-22 & A-42 Specifications

Chain Dimensions Are Given In Inches

Maxco Chain Number	Chain Pitch	Tab Width	Att. Hole Diameter	Attach. Plate Thickness	C/L Chain Att. Hole	C/L Chain Att. Edge	Add. Weight (Attachment) (lbs/pc)
	P	M	O	T	J	K	
94R 614R	A-22						
	4.000	1.250	0.406	0.375	1.844	2.44	0.13
	6.000	2.000	0.656	0.500	2.656	3.44	0.45
53R 119R 95R	A-42						
	3.000	1.000	0.406	0.250	1.563	2.00	0.08
	3.075	1.375	0.656	0.500	2.000	2.69	0.18
	4.000	1.250	0.406	0.375	1.625	2.13	0.07
1131R	6.000	2.000	0.656	0.500	2.844	3.84	0.65
604R	6.000	2.000	0.656	0.500	2.344	3.16	0.40
614R	6.000	2.000	0.719	0.500	2.750	3.75	0.65
631R	6.000	2.000	0.719	0.500	2.563	3.56	0.65
86R	6.000	2.000	0.531	0.375	2.344	3.16	0.55

Dimensions subject to change

Roller Conveyor Chain - G-6 Attachment



Roller Conveyor Chain - G-6 Attachment Links

Chain Dimensions Are Given In Inches

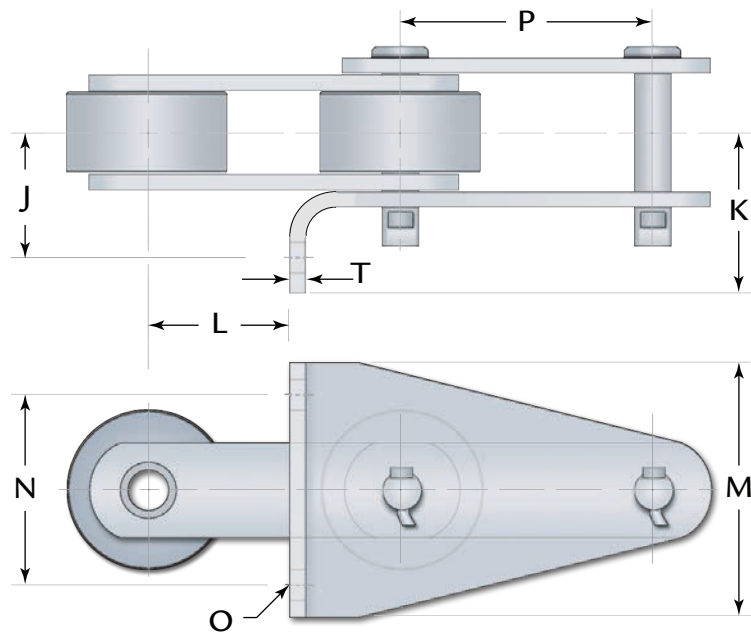
Maxco Chain Number	Chain Pitch	Attachment Hole Location		Plate Thickness	Attach. Hole Diameter	Add. Weight Attachment lbs/pc
	P	L	B	T	O	
912R	9.000	3.125	2.750	0.313	0.531	1.05
925R	9.000	3.125	2.750	0.250	0.531	0.23
B963R	9.000	3.000	3.000	0.375	0.531	0.68
D963R	9.000	3.000	3.000	0.375	0.531	0.15
E963R	9.000	3.000	3.000	0.375	0.531	1.35
F963R	9.000	3.000	2.500	0.375	0.531	1.13
964R	9.000	3.250	3.500	0.375	0.531	0.83
973R	9.000	2.750	3.750	0.500	0.656	1.43
1212R	12.000	4.125	3.750	0.313	0.531	0.70
B1263R	12.000	4.125	3.750	0.375	0.531	0.60
D1263R	12.000	4.125	3.750	0.375	0.531	0.00
E1263R	12.000	4.125	3.750	0.375	0.531	0.00
1264R	12.000	4.125	3.750	0.375	0.531	0.40
1266R	12.000	4.125	3.750	0.375	0.531	0.60
1272R	12.000	4.125	3.750	0.375	0.531	0.10
1273R	12.000	4.125	3.750	0.500	0.656	1.70
1276R	12.000	3.250	5.500	0.313	0.531	8.60
B1863R	18.000	6.000	6.000	0.375	0.531	0.60
D1863R	18.000	6.000	6.000	0.375	0.531	2.10
F1863R	18.000	6.000	6.000	0.375	0.531	1.20
B1864R	18.000	6.000	6.000	0.375	0.656	1.20
G1864R	18.000	6.000	6.000	0.375	0.656	2.40
1867R	18.000	6.000	6.000	0.625	0.656	5.10
1871R	18.000	6.000	6.000	0.500	0.656	3.45
1873R	18.000	6.000	6.000	0.500	0.656	2.70
2466R	24.000	8.000	8.000	0.625	0.656	5.20
2467R	24.000	8.000	8.000	0.625	0.656	7.40
2471R	24.000	7.500	9.000	0.500	0.656	4.20
2473R	24.000	9.000	6.000	0.500	0.656	2.80

Dimensions subject to change

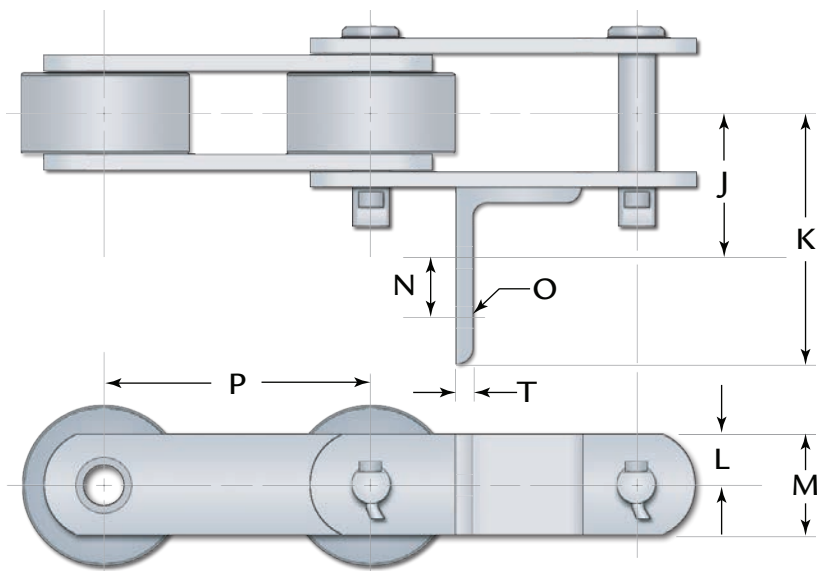
Engineering Class Chains

Roller Conveyor Chain G-19 / G-29 Attachments

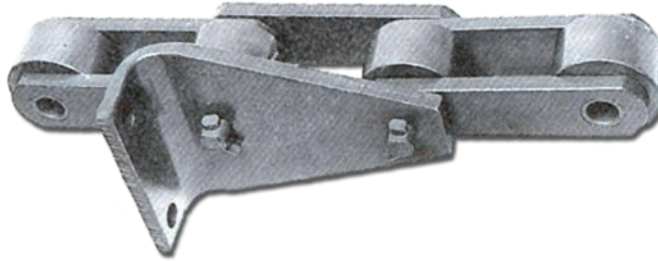
G-19 Attachment



G-29 Attachment



Roller Conveyor Chain Attachments - Specifications



G-19 & G-29 Attachments

Chain Dimensions Are Given In Inches

Maxco Chain Number	Chain Pitch	Attachment Width	Attachment Hole Location		Attachment Location	Attach. Angle Thickness	C/L Chain Attach. Hole	C/L Chain Attach. Edge	Additional Weight Attachment lbs/pc
	P	M	N	O	L	T	J	K	
	G-19								
B925	9.000	5.500	3.500	0.531	2.625	0.250	2.563	3.31	1.20
B1263R	9.000	5.500	3.500	0.531	2.625	0.250	2.781	3.78	2.18
D1263R	12.000	5.500	3.500	0.531	2.625	0.250	2.781	3.78	1.60
E1263R	12.000	5.500	3.500	0.531	2.625	0.250	2.781	3.78	2.30
1264R	12.000	5.500	3.500	0.531	2.625	0.313	2.906	3.91	3.20
1266R	12.000	5.500	3.500	0.531	2.625	0.250	2.594	3.59	2.50
1272R	12.000	5.500	3.500	0.531	2.625	0.313	2.906	3.91	2.90
1273R	12.000	7.500	5.000	0.531	2.625	0.375	3.344	4.34	6.10
B1863R	18.000	5.500	3.500	0.531	5.625	0.250	2.781	3.78	3.00
D1863R	18.000	5.500	3.500	0.531	5.625	0.250	2.781	3.78	4.35
B1864R	18.000	5.500	3.500	0.531	5.625	0.313	2.906	3.91	3.30
G1864R	18.000	5.500	3.500	0.531	5.625	0.375	2.906	3.91	4.50
1866R	18.000	5.500	3.500	0.531	5.625	0.375	3.656	4.66	5.70
1867R	18.000	5.500	3.500	0.531	5.625	0.375	3.781	4.78	6.60
1871R	18.000	5.500	3.500	0.531	5.625	0.375	3.406	4.41	5.55
1873R	18.000	7.500	5.000	0.531	5.625	0.375	3.344	4.34	6.30
2466R	24.000	5.500	3.500	0.531	8.625	0.375	3.656	4.66	5.80
2467R	24.000	5.500	3.500	0.531	8.625	0.375	3.781	4.78	7.60
2471R	24.000	5.500	3.500	0.531	8.625	0.375	3.406	4.41	5.20
2473R	24.000	7.500	5.000	0.531	8.625	0.375	3.344	4.34	6.40
G-29									
94R	4.000	1.250	1.125	0.406	0.625	0.250	1.844	3.47	0.40
1131R	6.000	2.000	1.500	0.469	1.000	0.375	2.781	5.03	1.35

Dimensions subject to change

Engineering Class Chains

Raised Sidebar Chains

Conveyor Chain for Unit Handling
and/or
Accumulating Conveyor Systems

Designed as an economical choice for unit conveying applications these chains are often found in the automotive and steel industries. Optional top rollers with or without installed bearings are available for accumulator conveyor applications on assembly lines.



Product

Raised Sidebar Chain

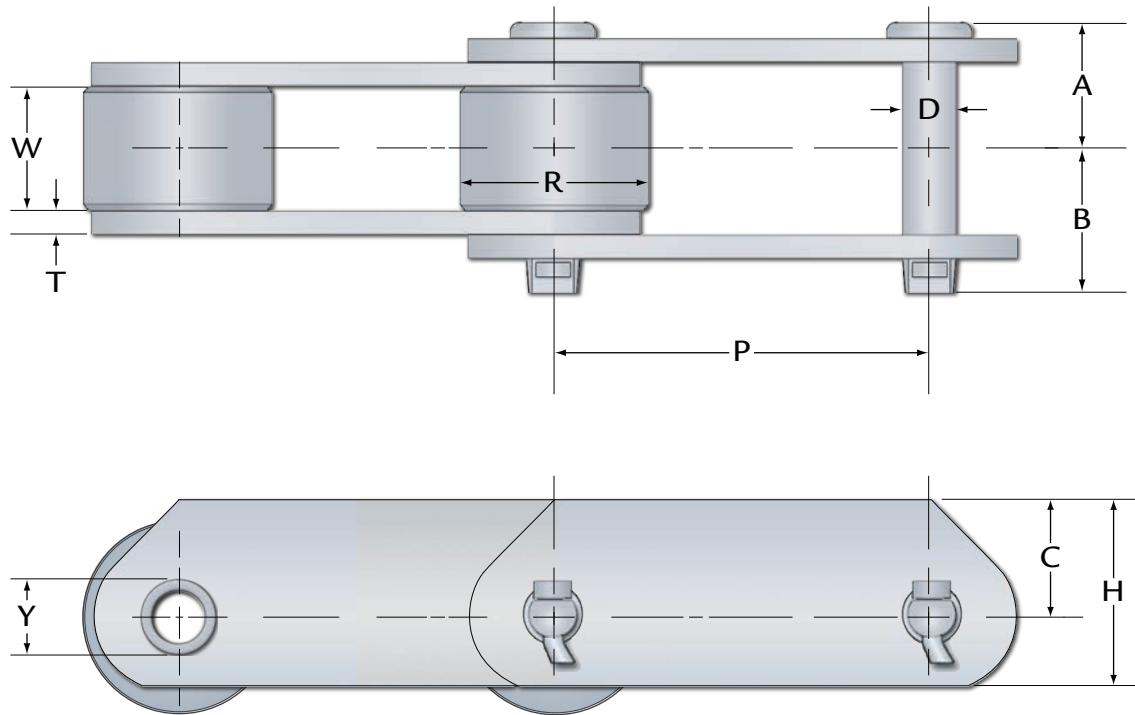
Page

23

Engineering Class Chains

Raised Sidebar Chain

Raised Sidebar Chain



Raised Sidebar Chain Specifications

Chain Dimensions Are Given In Inches

Maxco Chain Number	Chain Pitch P	Inside Width W	Roller Dia. R	Pin			Sidebar			Bushing Dia. Y	Rated Working Load (lbs)	Avg Ultimate Strength (lbs)	Avg Chain Weight lbs/ft
				Dia. D	Length A	Length B	Thick. T	Height H	C/L to Top C				
53R	3.000	1.000	1.500	0.438	1.03	1.25	0.188	1.500	0.938	0.640	2,100	13,000	5.0
95R	4.000	1.000	1.500	0.438	1.03	1.25	0.188	1.500	0.938	0.640	2,100	13,000	4.1
94R	4.000	0.875	1.500	0.500	1.16	1.28	0.250	1.500	0.875	0.750	2,400	19,000	4.8
89R	4.000	1.313	2.250	0.625	1.60	1.90	0.375	2.000	1.250	0.890	4,500	28,000	12.0
84R	4.000	2.313	2.250	0.625	2.10	2.45	0.375	2.250	1.500	0.890	4,700	28,000	16.5
627R	6.000	1.313	2.000	0.625	1.50	1.75	0.313	2.000	1.250	0.890	4,250	26,000	6.6
614R	6.000	1.375	2.500	0.750	1.78	2.03	0.375	3.000	2.000	1.125	5,600	38,000	15.0
CC5A	6.000	1.375	2.500	0.687	1.50	1.66	0.312	2.500	1.500	1.000	4,800	50,000	11.2

Dimensions subject to change

Engineering Class Chains

Conveyor Chain Selection

Introduction

A variety of Engineering Class Chains are available for conveyor or elevating service. An accurate assessment of the basic operating conditions and an understanding of the type of materials to be conveyed will determine the selection of an appropriate conveyor type. After the above is determined we can then get down to the business of selecting an appropriate chain size.

In general we classify the materials to be conveyed and their described capacities in two ways:

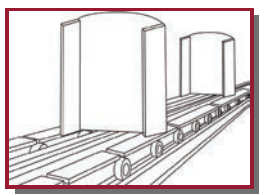
1. **Unit Materials:** Capacity described in Pieces Per Hour.
2. **Bulk Materials:** Capacity described in Tons Per Hour.

Unit materials are therefore objects like boxes, cars, TV sets, etc., while bulk materials would be products of sand, gravel, powdered sugar and the like.

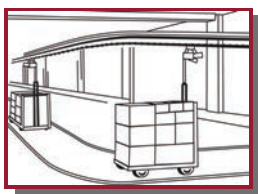
Conveyor Types

There Are Eight General Types Of Chain Conveyors

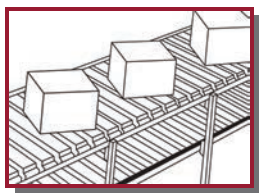
1. Carrier Conveyor



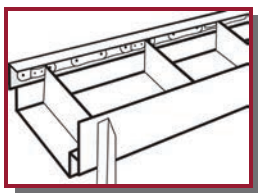
5. Trolley or Tow Conveyor



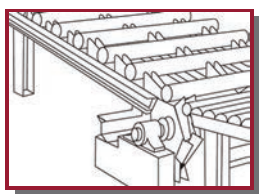
2. Slat Conveyor



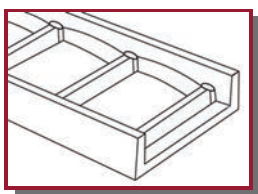
6. Scraper Flight Conveyor



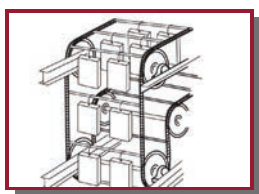
3. Pusher Conveyor



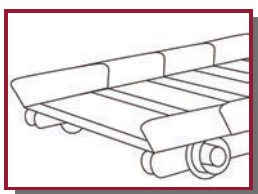
7. Drag Conveyors



4. Cross Bar Conveyor



8. Apron Conveyor



Unit Material Handling

1. Carrier Conveyor: Plain or attachment Roller Conveyor, Steel Bushed, Welded Steel or Cast Combination Chains are used to convey material directly on the plain chain or an attachment that forms a carrying surface. Material load is directly carried on the chain.

2. Slat Conveyor: Two or more strands of Roller Conveyor Chains are used to support slats mounted to chain attachments. Materials are carried on slats. Material load is carried directly on the chain.

3. Pusher Conveyor: Typically two or more strands of Roller Conveyor, Steel Bushed, Welded Steel or Cast Combination Chains are used with "pusher" type attachments. Materials roll or slide on support rails and is not directly carried on the chain.

4. Cross Bar Conveyor: Two strands of Roller Conveyor Chain connected by cross bars that can be arranged in a variety of chain paths are used for this type conveyor. Product typically hands from the cross cars and load is carried directly on the chain. Sometimes hollow pin chains are used for this purpose as well.

5. Trolley and Tow Conveyor: Drop Forged Rivetless or Bar Loop Chains are used in overhead trolley type conveyors and special bar pin chains are used for in-floor tow-veyors. Material load is carried by rails or tracks in the floor rather than the chain itself.

Bulk Material Handling

6. Scraper Flight Conveyor: Typically two strands of Roller Conveyor, Steel Bushed, Welded Steel, Cast Combination, Drop Forged Rivetless, or Bar Pin Chains are used with scraper flights that convey bulk materials in a trough. The chains are located outside the trough. Material load is carried in the trough rather than directly on the chain.

7. Drag Conveyor: One or more strands of Steel Bushed, Welded Steel, Welded Steel Drag Chains, Cast Combination, Drop Forged Rivetless, or Bar Pin Chains operate as plain chain in the case of Welded Steel Drag Chains or with drag flights mounted to the chain. Drag Conveyors are distinguished from scraper conveyors by the fact that they operate in the trough with the bulk material rather than on the outside. Chains with rollers are not recommended for drag conveyor service.

8. Apron Conveyor: Two or more strands of Roller Conveyor Chains with Apron pans mounted to attachments are used to convey bulk materials. Sometimes outboard rollers with or without bearings are specified to reduce friction and therefore chain tension. If the conveyors are wide, through rods are specified to provide additional support.

Selection Considerations

The first step in Conveyor Chain selection is to assess the operating conditions and the material to be conveyed in order to determine the type of conveyor to be used. Roller Conveyor Chains are best used in relatively clean environments with the chain carrying the load directly so that friction reducing rollers can lower chain tension and power consumption. Rollerless chains such as steel bushed, welded steel or others are better when the loads are supported by rails or troughs in "dirty" operating conditions where such debris can cause rollers to seize and not function correctly.

Conveyor Chain Selection

Operating Speeds, Service Factors and Friction Coefficients

The tables shown below provide information regarding allowable chain speeds, service factors, friction coefficients and other information that will be necessary for proper chain selection.

Table 1: General Engineering Characteristics

Chain Type	Engineering Characteristics			
	Operat. Speeds (ft/min)	Pitch Range (inches)	Weight Excluding Attach. (lbs)	Allowable Tension (lbs)
Roller Conv.	10-200	1.654-24.000	3.0-31.5	2,100-21,300
Steel	10-150	2.609-7.000	3.8-31.0	2,750-21,800
Bushed	10-75	2.609-6.050	2.2-13.4	1,400-11,250
Combina-	10-100	2.609-6.050	4.0-20.0	3,000-20,000
tion	10-100	5.000-8.000	8.6-19.8	8,500-15,000
Welded	10-75	3.015-6.031	2.2-6.7	2,600-7,100
Steel	10-50	4.000-12.000	5.1-33.0	Consult MAXCO

Table 2: Sliding Friction Coefficient (fs) of Various Materials

Material Type	Coefficient of Friction	
	Dry	Lubricat-
Steel on Steel	0.33	0.20
Cast Iron on Steel	0.50	0.30
Cast Iron on Cast Iron	0.50	0.40
Cast Steel on Cast Steel	0.50	0.40
Steel on Bronze	-	0.15
Steel on Hardwood	0.35	0.25
	0.25	0.15

Table 3: Rolling Friction Coefficient (fr) by Various Diameters

Roller Diameter	Coefficient of Friction	
	Dry	Lubricat-
1-1/2	0.22	0.16
1	0.20	0.15
2-1/2	0.16	0.12
3	0.14	0.09
4	0.12	0.08
5	0.11	0.07
6	0.10	0.06
Roller Bearing	0.05	0.02
	0.03	0.01

When both the roller OD and ID are known we may use the following equation to determine it:

$$fr = (ID / OD) \times fs$$

Where: ID = Roller Inside Diameter

OD = Roller Diameter

fs = Sliding Friction Coefficient between materials of chain roller ID and chain bushing OD (see Table 2)

Table 4: Sliding Coefficient (fs) of Various Materials in a Steel Trough

Aluminum	0.40	Cottonseed	0.35
Ashes Dry	0.50	Grains	0.40
Wet	0.60	Gravel Dry	0.45
Bagasse	0.40	Screened	0.45
Beans	0.30	Run of Bank	0.60
Cement Portland	0.65	Ice Crushed	0.20
Clinker	0.70	Cakes	0.10
Coal Anthracite	0.30	Lime Ground	0.40
Run of Mine	0.40	Pebble	0.50
Pea	0.45	Sand Dry	0.60
Buckwheat	0.55	Shakeout	0.70
Coal Bitumi-	0.55	Tempered	0.85
nous Sized	0.60	Sawdust	0.40
Run of Mine	0.60	Stonedust	0.50
Slack Dry	0.50	Stone Screened	0.60
Slack Wet	0.70	Lumps	0.65
Sized	0.40	Fines	0.65
Mixed	0.60	Wood Chips	0.40
Breeze	0.65		

Table 5: Recommended Maximum Chain Speeds - Feet Per Minute (FPM)

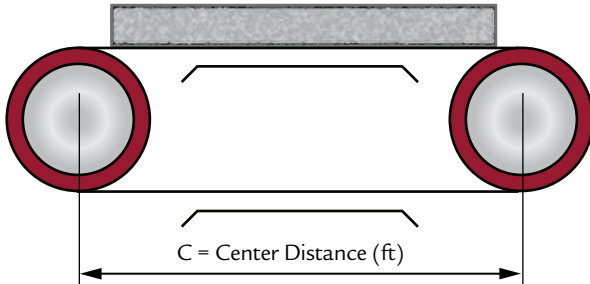
Number of Sprocket Teeth	Chain Pitch				
	4	6	9	12	18
6	180	145	120	105	85
7	210	170	140	120	100
8	240	195	160	140	115
9	270	220	180	155	125
10	300	245	200	175	140
11	330	270	220	190	155
12	360	295	240	205	170
13	390	320	260	225	185
14	420	345	280	240	200
15	450	365	300	260	210

Engineering Class Chains

Conveyor Chain Selection

Conveyor Pull Formulas

Horizontal Conveyor



Conveyor Chain Pull Formula

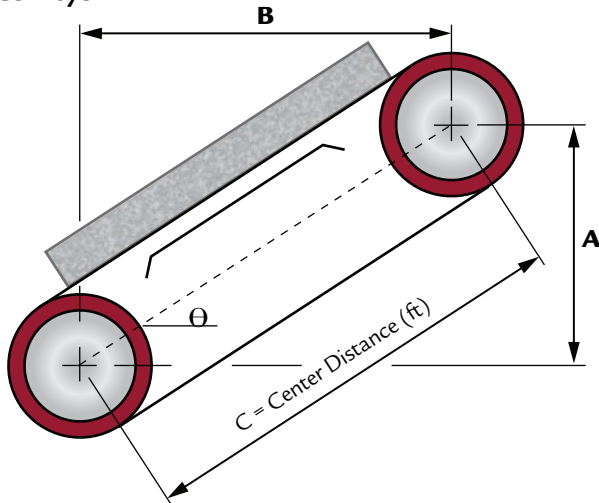
$$P = (2.1Wf + Mf) \times C + J^*$$

Material Sliding on Deck

Note: W=Weight in lbs/ft of chain, attachments, flights, etc.

Take care to assign the correct friction coefficient with the proper term. The coefficient associated with chain weight "W" is found in Tables 2 or 3 and the coefficient associated with the conveyed material weight "M" is the same as that for the chain if the chain carries the material, or is found in Table 4 if the material slides on a conveyor deck or trough.

Incline Conveyor



Conveyor Chain Pull Formula

$$P = [(Mf)\cos\theta + (Wf)\cos\theta + M\sin\theta + W\sin\theta] \times C + J^*$$

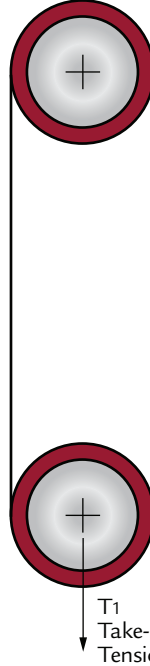
NOTE: $\cos\theta = B/C$
 $\sin\theta = A/C$

W=Weight in lbs/ft of chain, attachments, flights, etc.

Take care to assign the correct friction coefficient with the proper term. The coefficient associated with chain weight "W" is found in Tables 2 or 3 and the coefficient associated with the conveyed material weight "M" is the same as that for the chain if the chain carries the material, or is found in Table 4 if the material slides on a conveyor deck or trough.

*See table 7 for "J" term when material slides against sideboards.

Vertical Conveyor or Elevator



Conveyor Chain Pull Formula

$$P = (W + M) \times C + (T1/2) + D^*$$

Note: W= Weight of Chains and attachments (lbs/ft)

M= Weight of Material (lbs/ft)

*Additional pull due to bucket digging material out of the Boot (D) is given by:

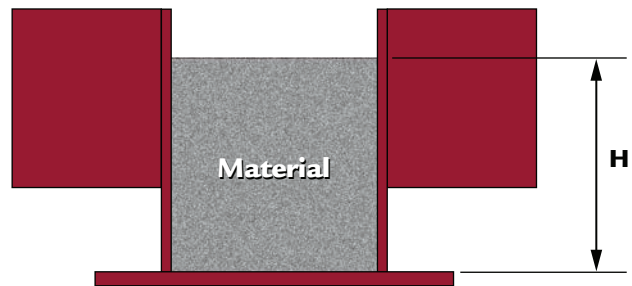
$$D = W \times F$$

W= Weight in lbs/ft of chain, attachments, buckets, etc.

Table 6: Bucket Digging Factor (F)

Elevator Type	Duty	F
Centrifugal	Light	15
	Average	25
Continu-	Light	5
	Average	8

Conveyor Pull due to Sideboard Traction (J)



Additional pull due to material sliding against sideboards (J) is given by: (W)

$$J = (CxH^2)/R$$

NOTE: H = Height of Material
C = Center Distance of Conveyor (ft)
R = Factor Based on Material

Table 7: Factor "R" for Sideboard Friction

Material	NS
Coal	14.0
Coke	35.0
Limestone	7.5
Gravel	7.0
Sand	5.5
Ashes	14.0

Table 8: Number of Chain Strands Factor

Strands	NS
1	1.0
2	1.2
3	1.3
4	1.4
5	1.5
6	1.6

Conveyor Chain Selection

Table 9: Speed Correction Factor (SC)

Number Sprocket Teeth	Chain Speed (ft / min)														
	10	25	50	75	100	125	150	175	200	225	250	275	300	400	500
6	.92	1.09	1.37	1.68	2.00	2.40	2.91	3.57	4.41	5.65	7.35	-	-	-	-
7	.86	.97	1.13	1.27	1.44	1.61	1.81	2.04	2.29	2.60	2.96	3.42	3.95	8.62	-
8	.81	.91	1.04	1.16	1.26	1.37	1.49	1.63	1.76	1.93	2.10	2.29	2.48	3.62	6.20
9	.79	.87	.98	1.07	1.17	1.26	1.36	1.45	1.55	1.65	1.76	1.88	2.00	2.56	2.94
10	.78	.84	.94	1.02	1.09	1.16	1.24	1.31	1.37	1.45	1.53	1.61	1.68	2.03	2.21
11	.76	.82	.90	.97	1.03	1.09	1.15	1.22	1.28	1.34	1.40	1.46	1.52	1.78	2.05
12	.74	.79	.86	.93	.99	1.05	1.10	1.16	1.21	1.26	1.32	1.37	1.42	1.63	1.84
15	.73	.77	.83	.89	.94	.98	1.02	1.07	1.11	1.15	1.19	1.24	1.28	1.47	1.61
16	.73	.76	.81	.86	.89	.94	.97	1.01	1.05	1.08	1.12	1.16	1.19	1.34	1.48
18	.72	.75	.80	.83	.88	.91	.94	.98	1.01	1.04	1.08	1.11	1.14	1.27	1.40
20	.72	.75	.79	.83	.86	.89	.92	.95	.98	1.01	1.04	1.07	1.10	1.22	1.34
24	.71	.74	.77	.80	.82	.85	.88	.90	.94	.96	.98	1.01	1.04	1.15	1.26

Table 10: Service Factors

Frequency Shock Loading SF ₁	Type Conveyor Loading SF ₂	Operating Conditions SF ₃	Duty Cycle SF ₄
Infrequent 1.0	Uniform 1.0	Clean Environment 1.0	8-10 Hours per Day 1.0
Frequent 1.2	Moderate Shock Load 1.2	Moderate Environment 1.2	11-16 Hours per Day 1.1
	Heavy Shock Loading 1.5	Severe Environment 1.4	16-24 Hours per Day 1.2

Selection Procedure

Step 1: Determine Basic Requirements

Before attempting to select a specific Conveyor Chain determine the following as accurately as possible:

- Type of Conveyor:** Note whether the material to be conveyed is unit or bulk and whether the chain will carry the material weight directly or will it be supported by a deck or in a trough.
- Class of Chain:** Select a class of chain (Roller Conveyor, Steel Bushed, Welded Steel, etc.)
- Estimate W:** This includes the total weight per foot of all chain, attachments, slats, etc. on the conveyor and is given in lbs/ft.
- Determine Dimensions:** This includes the center distance in feet, and for inclined conveyors, the angle of incline (u) or height (A) and width (B).
- Conveyor Speed (S):** This should be determined in ft/min.
- Weight of Material Conveyed (M):** This value should be determined in lbs/ft on the conveyor. Note that often the designer specifies a through put or capacity for the conveyor. In such cases the value M needs to be calculated as follows:
Bulk Materials with capacity given in Tons/hour (Q):

$$M = (33.3 \times Q) / S$$

Unit Materials with capacity given in units per hour (R) determine the weight per unit (m) and use:

$$(M = (R \times m) / (60 \times S))$$

Table 11: Roller/Bushing Bearing Pressure

Bushing - Roller Material Combination		Allowable Bearing Pressure
Carburized Steel	Carburized Steel	750 psi
Carburized Steel	Thru Hardened Steel	700 psi
Carburized Steel	Plastic	250 psi
Thru Hardened Steel	Thru Hardened Steel	700 psi
Thru Hardened Steel	Plastic	250 psi

- Determine Friction Coefficients (f):** From Tables 2-4 (page 25) determine the appropriate friction coefficients. Also consult the formulas on page 26 for additional assistance in determining the friction coefficients.

- Determine Service Factors (SF):** (see Table 10). Service Factor is given by:

$$SF = SF_1 \times SF_2 \times SF_3 \times SF_4$$

- Determine Number of Teeth for Sprockets:** Use Table 9 and select number of teeth by reading down the chain speed column and finding the value nearest to 1.00
- Determine Speed Correction Factor (SC):** (See Table 9).
- Determine # of Chain Strands Factor (NS):** (See Table 8).

Step 2: Calculate Conveyor Pull

Use the appropriate formula on the page 26 to calculate total conveyor pull (P).

Step 3: Calculate Design Conveyor Pull

The Design Conveyor Pull (DP) is given by:

$$DP = P \times SF \times SC \times NS$$

Step 4: Calculate Chain Tension

The calculated Chain Tension (T) is given by:

$$T = DP / \text{Total Number of Chain Strands}$$

Step 5: Select Chain and Recalculate Chain Tension (T)

Select a chain that has a higher rated working load (found in the dimension tables) than the calculated chain tension. Recalculate Chain Tension (T) using the correct values for chain and attachment weights (W) to verify the selection.

Step 6: Verify Roller/Bushing Bearing Pressure for Roller Conveyor Chains Only.

Determine the bearing pressure (BP) between the Roller ID and the Bushing OD by:

$$BP = \text{Load Per Roller} / \text{Bearing Area}$$

$$\text{Load Per Roller} = (M + W) / [(12 / \text{Pitch}) \times \text{Number of Strands}]$$

$$\text{Bearing Area} = \text{Bushing OD} \times (\text{Inside Width} - .063)$$

BP should be less than found in Table 11 for material combo.

Engineering Class Chains

Conveyor Chain Selection

Selection Examples

Example #1: Horizontal Unit Conveyor

Supplied Information:

Slat Conveyor to move finished TV sets from packaging line to the shipping floor

TV set is packaged in an 18" x 18" x 24" high box

Box Weight: 400 lbs each

Operating Speed: 125 ft/min

Sprocket Centers: 75 ft

Infrequent Moderate Shock Loading

16 Hour Operation in Clean Conditions

Slats: 1/4" x 24" Long

12 Tooth Sprockets are Specified

Step 1: Determine Basic Requirements

A unit conveyor in clean operating conditions suggests the use of 2 strands of Roller Conveyor Chain with K-2 attachments to bolt the slats on.

Slat weight will be approximately:

Slat Weight = $1/4\text{in} \times 24\text{in} \times 12\text{in}/\text{ft} \times .2833\text{ lbs/cubic inch}$

Slat Weight = 20.4 lbs/ft of conveyor

Material Weight is estimated by:

Number of boxes on Conveyor = $75\text{ft} \times 12\text{in}/\text{ft} / 18\text{in box} = 50$

Weight of 50 boxes = $50 \times 400 = 20,000\text{ lbs}$

Weight per foot of conveyor (M) = $20,000\text{ lbs} / 75\text{ ft}$

M = 266.6 lbs/ft of conveyor.

To estimate the required chain weight we note the following:

Slat weight + Material Weight on 75 ft of conveyor is:

$(20.4 + 266.6) \times 75 = 23,055\text{ lbs.}$

Estimate rolling friction coefficient of .16 from Table 3 we get:

$23,055 \times .16 / 2\text{ strands} = 1,844\text{ lbs of tension per strand.}$

Since 1,844 lbs. is a relatively low tension we estimate the weight on the lower side of what is shown in Table 1. . . We'll estimate 5 lbs/ft.

We can now estimate Weight of Chain and Slats per foot of conveyor "W" by the following:

$W = (5\text{ lbs/ft} \times 2\text{ strands}) + 20.4 = 10 + 20.4$

W = 30.4 lbs/ft of conveyor

We estimate rolling friction coefficient to be .16 based on a lubricated roller. Thus **f = .16**

From Table 10 we find the service factor SF by:

$SF = 1.0 \times 1.2 \times 1.0 \times 1.1$

SF = 1.32

Based on chain speed of 125 ft/min if we use a 12 tooth sprocket we note the speed correction factor:

SC = 1.05

From Table 8 since we are using 2 strands of chain we determine the number of strands factor as:

NS = 1.2

28

Step 2: Calculate Conveyor Pull

We now use the Conveyor Pull formula for the horizontal conveyor on the preceding pages as follows:

$P = (2.1Wf + Mf) \times C + J^*$ Note J=0 in this case

$P = [(2.1 \times 30.4 \times .16) + (266.6 \times .16)] \times 75$

$P = (10.2 + 42.7) \times 75 = (52.9 \times 75)$

P = 3,968 lbs.

Step 3: Calculate Design Conveyor Pull

The Design Conveyor Pull (DP) is given by:

$DP = P \times SF \times SC \times NS$

$DP = 3,968 \times 1.32 \times 1.05 \times 1.02$

DP = 6,600 lbs.

Step 4: Calculate Chain Tension

The calculated Chain Tension (T) is given by:

$T = DP / \text{Total Number of Chain Strands}$

$T = 6,600 / 2$

T = 3,300 lbs.

Step 5: Select Chain and Recalculate Chain Tension (T)

From the dimensional tables on page 12, 83R has a rated working load of 3,650 lbs, a 2.0" dia. roller and weighs 9.4 lbs/ft with a K-2 every pitch. Recalculate "W". "P". "DP" and "T" as follows:

$W = (9.6 \times 2) + 20.4 = 39.6$

$P = [(2.1 \times 39.6 \times .15) + (266.6 \times .15)] \times 75$

$P = (12.5 + 40.0) \times 75$

P = 3,938 lbs.

$DP = 3,938 \times 1.32 \times 1.05 \times 1.2$

DP = 6,550 lbs.

$T = 6,550 / 2$

T = 3,275 lbs.

Since the calculated chain tension of 3,275 lbs is less than the rated working load for 83R we can accept this selection.

Step 6: Verify Roller/Bushing Bearing Pressure if Chain is Rolling

Since we have selected a Roller Conveyor Chain we need to check the roller/bushing bearing pressure as follows:

$\text{Load Per Roller} = (M + W) / [(1/2 / \text{Pitch}) \times \text{Num. of Strands}]$

$\text{Load Per Roller} = (266.6 + 39.6) / [(12/4) \times 2]$

Load Per Roller = $306.2 / 6 = 51\text{ lbs.}$

$\text{Bearing Area} = \text{Bushing OD} \times (\text{Inside Width} - .063)$

$\text{Bearing Area} = (.875) \times (1.313 - .063) = 1.09\text{ Square inches}$

$\text{Bearing Pressure} = \text{Load Per Roller} / \text{Bearing Area}$

Bearing Pressure = $51 / 1.09 = 46.8\text{ psi}$

We refer to the dimensional tables and note that the bushing and roller are both carburized steel. From Table 11 (page 27) allowable bearing pressure is 750 psi. As the calculated bearing pressure of 46.8 is less than 750 psi the selection of 83 is verified.

Conveyor Chain Selection

Example #2: Inclined Scraper Flight Conveyor

Supplied Information:

Bulk Material Bituminous Coal - slack dry.
 Conveyor Capacity: 150 Tons/hr
 Operating Speed: 100 ft/min
 Total Lift: 30 ft
 Sprocket Centers: 50 ft
 Infrequent Moderate Shock Loading.
 24 Hour Operation in Dirty Conditions
 Steel Trough Width: 24 inches
 Average depth of Coal: 6 inches
 Scraper Flights: 5/16" x 12" x 23" long, 22.8 lbs. ea

Step 1: Determine Basic Requirements

An appropriate chain type for a scraper flight incline conveyor when the chain does not run in the material might be 2 strands of a Roller Conveyor Chain with G-19 or G-29 scraper flight attachments. Since we are traveling up an incline the roller type chain will help reduce the power required. Dirty conditions may prevent the use of effective lubrication so we will base our selection assuming no lubrication for the chain. Finally, we note that in this bulk material conveyor the chain does not directly carry the conveyed load, therefore, there will be no need to check the allowable roller/bushing bearing pressure.

G-19 attachments are available in 9"-24" pitch chains. G-29 attachments are available in 4" or 6" pitch chains. If we tentatively select a 9" pitch 925R chain we can calculate the estimated weight of the chain attachments and flights as follows:

Chain and attachments = 9.8 lbs/ft. x 2 strands = 19.6 lbs/ft.
 Scraper flights weigh $22.8 \times (12/9) = 30.4$

$$W = 19.6 + 30.4 = 50.4 \text{ lbs/ft}$$

Material weight (M) is determined by:

$$M = [33.3 \times \text{Capacity (tons/hr)}] / \text{conveyor speed (ft/min)}$$

$$M = (33.3 \times 150) / 100$$

$$M = 50 \text{ lbs/ft}$$

We estimate the rolling friction coefficient to be $f_r = .14$ since 925R has a 3 inch diameter roller which will not be lubricated (see Table 3 - page 25). The sliding friction coefficient for bituminous coal in a steel trough from Table 4 (page 25) is $f_s = .50$

From Table 10 (page 27) we find the Service factor by:

$$SF = 1.0 \times 1.2 \times 1.4 \times 1.2$$

$$SF = 2.02$$

From Table 9 (page 27) if we specify a 12 tooth sprocket we determine the speed correction factor as:

$$SC = .99$$

From Table 8 (page 26) since we are using 2 strands of chain we determine the number of strands factor as:

$$NS = 1.2$$

Since the conveyor is inclined it will be useful to determine the sine and cosine of the incline angle:

$$\sin u = 30 / 50 \quad \cos u = 40 / 50$$

$$\sin u = .6 \quad \cos u = .8$$

Step 2: Calculate Conveyor Pull

We now use the Conveyor Pull formula for the incline conveyor on the preceding pages as follows:

$$P = [(Mf)\cos u + (Wf)\cos u + M\sin u + W\sin u]C + [(Wf)\cos u - W\sin u]C + J$$

$$J = (C \times H) / R$$

From Table 7 we note that $R = 14$ for coal and thus:

$$J = (50 \times 6 \times 6) / 14$$

$$J = 129 \text{ lbs.}$$

Now we determine P

$$P = [(50)(.5)(.8) + (50)(.14)(.8) + (50)(.6) + (50)(.6)](50) + [(50)(.14)(.8) - (50)(.6)](50) + 129$$

$$P = [20 + 5.6 + 30 + 30](50) + [5.6 - 30](50) + 129$$

$$P = 4,280 - 1,220 + 129$$

$$P = 3,189$$

Step 3: Calculate Design Conveyor Pull

The Design Conveyor Pull (DP) is given by:

$$DP = P \times SF \times SC \times NS$$

$$DP = 3,189 \times 2.02 \times .99 \times 1.2$$

$$DP = 7,653 \text{ lbs.}$$

Step 4: Calculate Chain Tension

The calculated Chain Tension (T) is given by:

$$T = DP / \text{Total Number of Chain Strands}$$

$$T = 7,653 / 2$$

$$T = 3,827 \text{ lbs}$$

Step 5: Select Chain, Recalculate Chain Tension (T)

From the dimensional tables we note that our tentative selection of 925R has rated working load of 4,150 lbs. which is greater than the calculated value of 3,827 lbs. so that 925 is a satisfactory selection.

If we determined that the sprocket is too large for this application and that a 6 inch pitch chain with an 11 Tooth sprocket was required we can check the suitability of 1131R with G-29 attachments every 6 inches as follows:

$$W = ((12.5 + 2.7) \times 2) + (22.8 \times (12 / 6))$$

$$W = 30.4 + 45.6$$

$$W = 76 \text{ lbs / ft}$$

$$M = 50 \text{ lbs/ft}; SF=2.02; SC=1.03(\text{see Table 10}) \text{ and } NS=1.2$$

$$P = [(50)(.5)(.8) + (76)(1.4)(.8) + (50)(.6) + (76)(.6)](50) + [(76)(.14)(.8) - (76)(.6)](50) + 129$$

$$P = [20 + 8.5 + 30 + 45.6](50) + [8.5 - 45.6](50) + 129$$

$$P = [5,205 - 1,855 + 129]$$

$$P = 3,221 \text{ lbs.}$$

$$DP = 3,221 \times 2.02 \times 1.03 \times 1.2 = 8,042 \text{ lbs}$$

$$T = 8,042 / 2 = 4,021 \text{ lbs.}$$

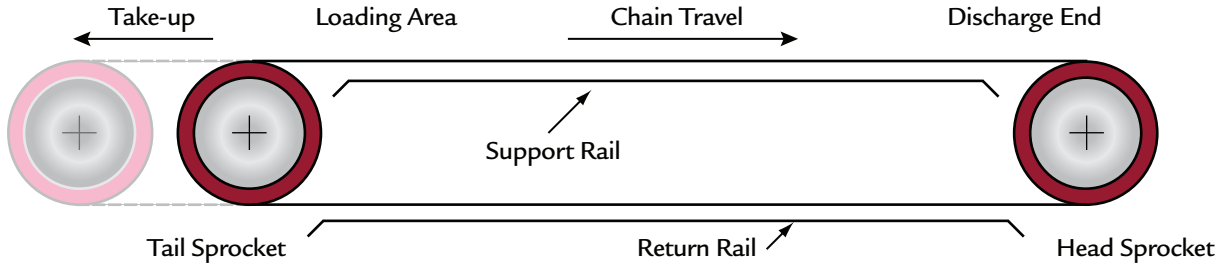
Since the calculated chain tension (4,021 lbs) is less than the rated working load (5,900 lbs) for 1131R, this chain is suitable. We note that we could select a lighter 6 inch pitch chain such as 625R without additional calculation since it's rated working load is 4,150 lbs. The scraper flight attachment is not standard, but can be designed.

Engineering Class Chains

Conveyor Chain Selection

Conveyor Chain Useful Information

Basic Conveyor Layout



Arrangement

Power should be supplied to the head sprocket (discharge end) whenever possible to avoid high loading on both the carrying and return side. This will reduce the rate of chain elongation.

Sprockets

We recommend using the largest sprocket diameter that space will permit to minimize speed variations and pulsation caused by chordal action. Speed variations on sprockets with few teeth result from the difference in the chains radial position from the shaft center-line when a tooth or a tooth pocket is top dead center. Since the shaft turns at a constant speed a larger radial distance will speed up the chain and a lesser radial distance will slow down the chain. The fewer the number of teeth the greater the speed variation. This effect becomes negligible at approximately 18 teeth.

For large pitch conveyors a compensating Drive Chain arrangement can be designed to vary the head shafts rotational speed to compensate for the effect of chordal action.

Hardened Teeth for sprockets are recommended particularly if there are fewer than 15 teeth.

Match Sprockets

When a double strand chain conveyor has slats, flights, apron pans, or other parts that connect the two chains rigidly together, both head shaft sprockets should be matched. This can be done by specifying that the sprockets be keyed on the center-line of the tooth. We also recommend that on the tail shaft one sprocket be keyed and one sprocket be allowed to turn freely between set collars for automatic repositioning of the teeth if uneven chain wear occurs.

Conveyor Length

Unusually long conveyor lengths can result in pulsation due to the chain's elastic properties. If this occurs, it may be necessary to use two conveyors with a transfer point or additional drives

Take Up Tension

The correct amount of take up tension that should be applied is the minimum amount that allows for smooth action over the tail sprocket. As a guide this usually amounts to approximately .5% - 2% of the chain's Average Ultimate Strength.

Matched Chain Strands

Multiple strand conveyors often require matched and tagged chains. In this case each strand will be measured and matched so that adjacent strands are all within 0.031" of each other in length.

Right and Left Hand Strands

On dual strand chain conveyors when the attachments are not symmetrical it is often necessary to order right and left hand chains. In many applications the cotter pins must face inside to avoid interference with rails on angle tracks. This can create asymmetric situation even though the attachments are symmetrical.

Chain Supports

Conveyors over 15 feet in length need to be supported on the return side to avoid pulsations, chain whip, or elongation causing excessive sag to strike adjacent conveyor components. A return rail or idler sprocket is used for this purpose.

Lubrication

Effective lubrication is the single most important maintenance practice that can be done to extend chain life, reduce power consumption, and assist in smooth running trouble-free service life. High quality non-detergent oils should be used. In some cases chain can be lubricated with grease through a fitting mounted on the chain pin (diameter should be at least 0.750" in this case) or less frequently through a bushing lubrication hole (Rollerless Steel Bushed or Welded Steel Chains). For Roller Conveyor Chains carrying large loads it may be best to fit the roller with a sealed roller or ball bearing to minimize friction and extend chain life. MAXCO engineering personnel are available to assist with lubrication guidance for specific applications.

Calculating Horsepower

$$HP = (T \times S) / 33,000$$

T = Maximum Chain Tension (lbs)
S = Linear Chain Speed

$$HP = (\text{Torque} \times \text{rpm}) / 63,000$$

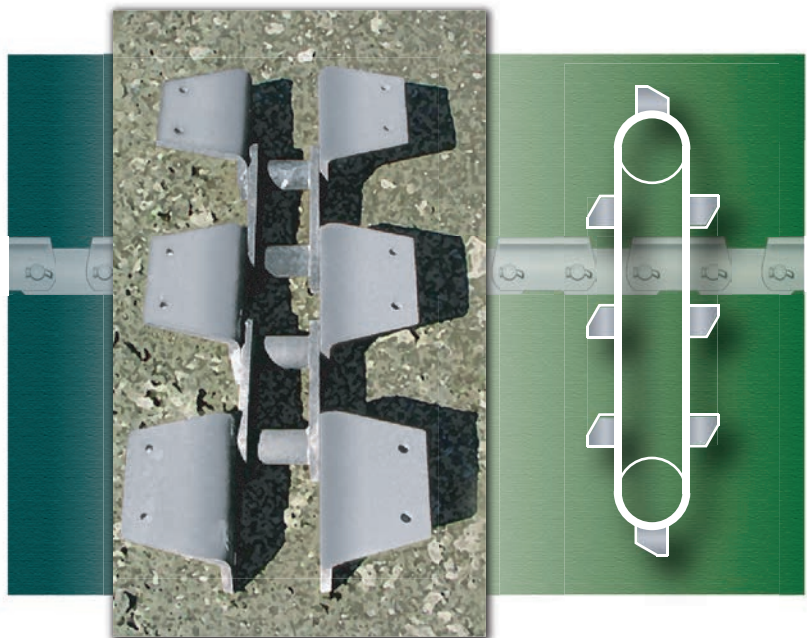
Torque is in inch-pounds

Engineering Class Chains

Steel Bushed Chains

Premier Chain for Severe Duty Applications

Steel Bushed Chains are heavy duty Rollerless Engineering Class Chain products designed to operate in challenging environments. These chains are often specified for bucket elevators or drag conveyors moving bulk products in dirty, abrasive or otherwise harsh and difficult conditions. High quality heat treated carbon and alloy steels provide long lasting reliability. Steel Bushed Chains are often specified to replace Cast Combination Chains in order to achieve greater service life.

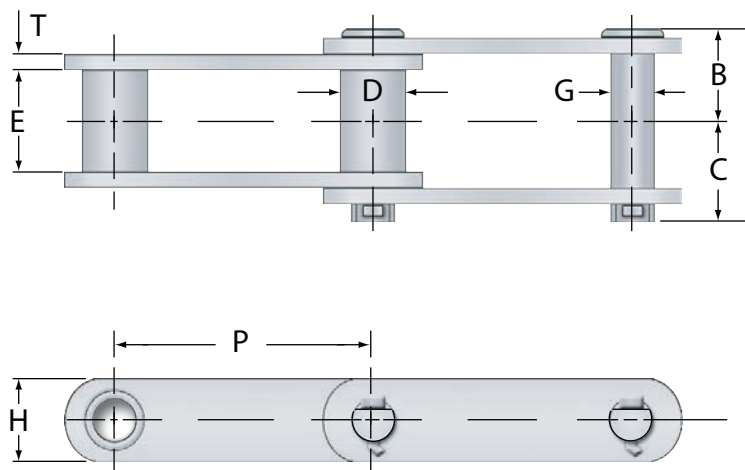


Product	Page
Steel Bushed Plain Chain	32
A-1 / K-1 Attachments	33
A-42 Attachment	33
A-2 / K-2 Attachments	34
K-22 Attachment	34
K-3 Attachment	35
K-24 Attachment	36
K-44 Attachment	37

Engineering Class Chains

Steel Bushed Chain

Steel Bushed Chain - Plain



Steel Bushed Chain Specifications

Chain Dimensions Are Given In Inches

Maxco Chain Number	Chain Pitch P	Inside Width E	Bushing			Pin					Sidebar			Rated Working Load lbs	Average Ultimate Strength lbs	Avg Chain Wgt lbs/ft
			Dia D	Sty	Mat	Dia G	Mater	Sty	Lgth B	Lgth C	Thick. T	Height H	Mat			
188	2.609	1.063	0.875	F	C-CH	0.500	A-CH	A	1.25	1.44	0.250	1.125	C-HT	2,750	25,000	3.8
131	3.075	1.313	1.250	F	C-CH	0.625	A-CH	A	1.66	1.88	0.375	1.500	C-HT	4,500	40,000	7.4
102B	4.000	2.125	1.000	F	C-CH	0.625	A-CH	A	2.03	2.28	0.375	1.500	C-HT	6,300	40,000	6.9
102 1/2	4.040	2.250	1.375	F	C-CH	0.750	C-CH	A	2.25	2.50	0.375	1.750	C-HT	8,850	50,000	9.4
111	4.760	2.625	1.438	F	C-CH	0.750	C-CH	A	2.38	2.69	0.375	2.000	C-HT	8,850	50,000	10.2
110	6.000	2.125	1.250	F	C-CH	0.625	C-CH	A	2.03	2.28	0.375	1.500	C-HT	6,300	40,000	6.3
856	6.000	3.000	1.750	R	A-CH	1.000	A-HTIH	B	2.88	3.25	0.500	2.500	A-HT	14,000	145,000	16.5
857	6.000	3.000	1.750	R	A-CH	1.000	A-HTIH	B	2.88	3.25	0.500	3.250*	A-HT	14,000	175,000	21.0
859	6.000	3.750	2.375	R	A-CH	1.250	A-HTIH	B	3.56	3.81	0.625	4.000**	A-HT	21,800	275,000	34.0
150X	6.050	3.313	1.750	F	A-CH	1.000	A-CH	A	3.03	3.38	0.500	2.500	C-HT	15,100	100,000	16.6
864	7.000	3.750	2.375	R	A-CH	1.250	A-HTIH	B	3.56	3.75	0.625	4.000**	A-HT	21,800	275,000	31.0

C-HT Medium Carbon Steel Through Hardened

A-HT Medium Carbon Alloy Steel Through Hardened

A-HTIH Medium Carbon Alloy Steel Through Hardened and Induction Hardened

C-CH Low Carbon Steel Case Hardened

A-CH Low Carbon Alloy Steel Case Hardened

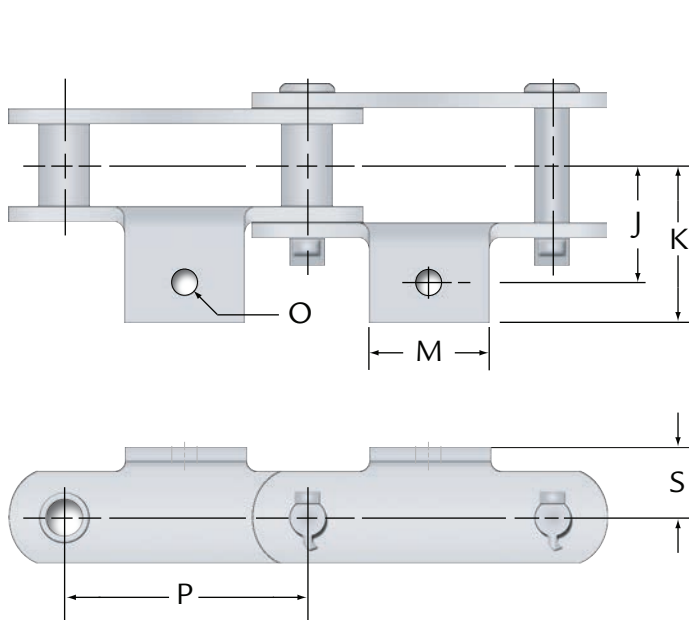
* Outer Plain Side Bars are 2.500" High

** Outer Plain Side Bars are 3.000" High

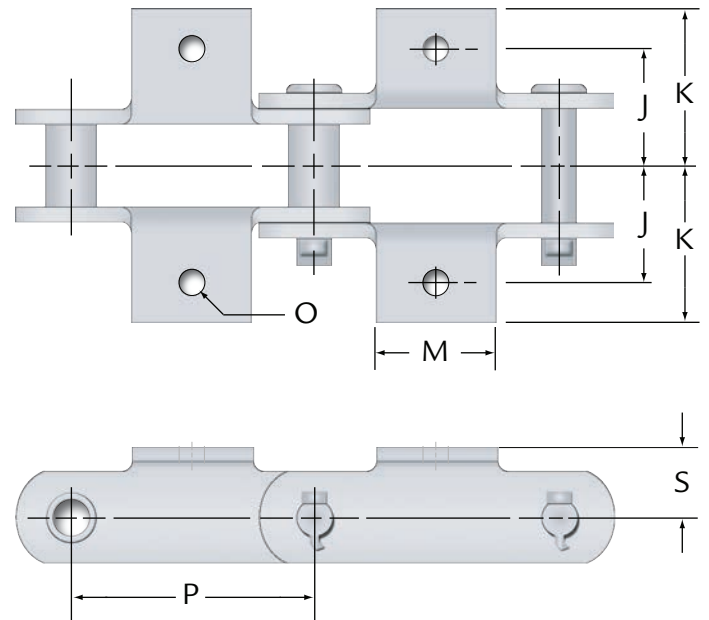
Dimensions subject to change

Steel Bushed Chain A-1 / K-1 / A-42 Attachments

A-1 Attachment



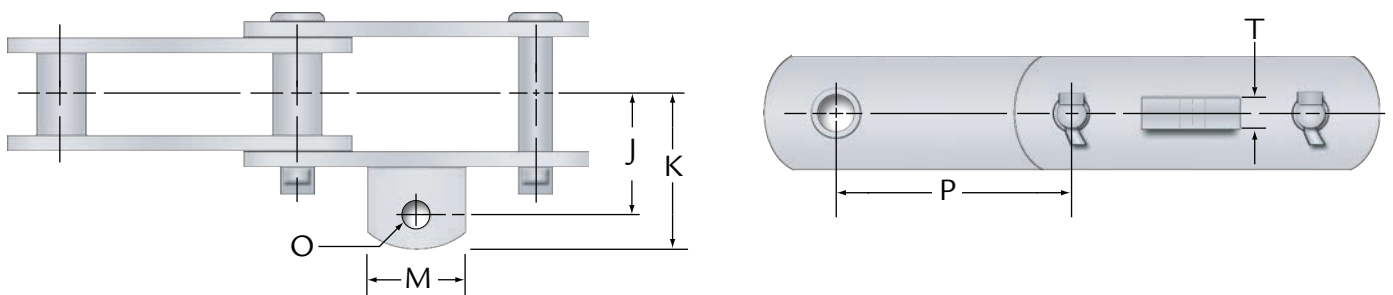
K-1 Attachment



A-1 & K-1 Attachment Link Specifications

Maxco Chain Number	Chain Pitch	Tab Width	Hole Dia.	Height	C/L Chain Att. Hole	Across Holes	C/L Chain Att. Edge	Overall Width	Chain Dimensions Are Given In Inches	
	P	M	O	S	J	2J	K	2K	A-1 Additional Weight/Att. lbs/pc	K-1 Additional Weight/Att. lbs/pc
188	2.609	2.125	0.406	0.813	1.875	3.750	2.28	4.56	0.13	0.26
131	3.075	1.938	0.531	1.000	2.063	4.126	3.06	6.13	0.38	0.77
102B	4.000	2.813	0.406	1.000	2.375	4.750	3.25	6.50	0.67	1.33
111	4.760	3.625	0.531	1.500	3.125	6.250	3.75	7.50	0.99	1.98
110	6.000	2.813	0.406	1.000	2.969	5.938	3.53	7.06	1.15	2.30

A-42 Attachment



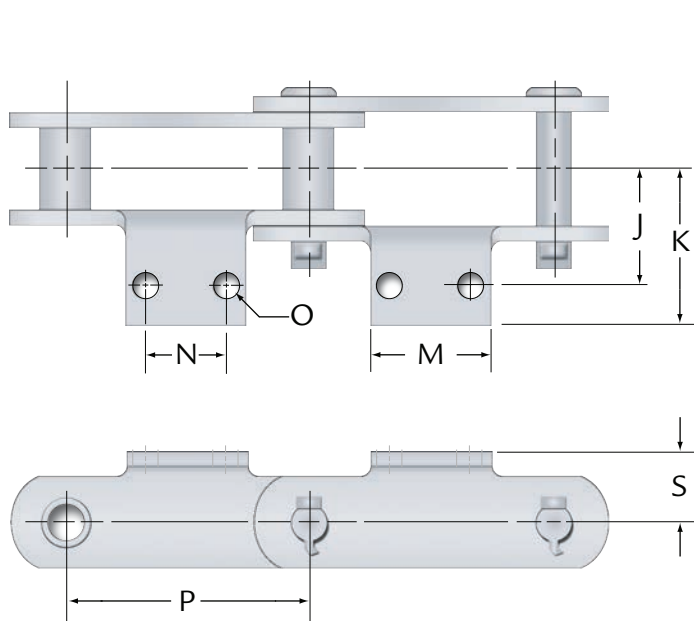
A-42 Attachment Link Specifications

Maxco Chain Number	Chain Pitch	Tab Width	Attachment Hole Diameter	Attachment Plate Thickness	C/L Chain Attachment Hole	C/L Chain Attachment Edge	A-42 Additional Weight/Att. lbs/pc
	P	M	O	T	J	K	
188	2.609	1.250	0.406	0.375	1.781	2.38	0.22
131	3.075	1.250	0.406	0.313	2.625	3.50	0.26
102B	4.000	1.250	0.406	0.313	3.125	3.88	0.30
111	4.760	1.250	0.531	0.375	3.375	4.13	0.24
110	6.000	2.000	0.531	0.375	3.125	4.13	0.40

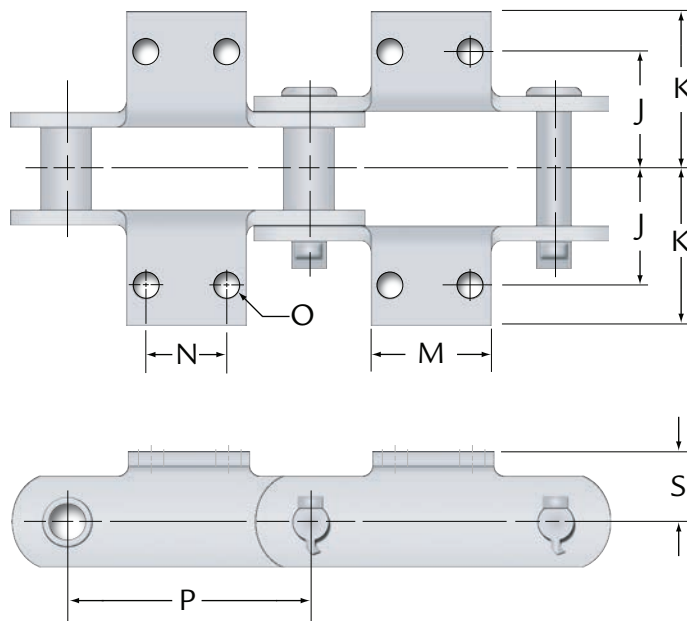
Engineering Class Chains

Steel Bushed Chain Attachment Links

A-2 Attachment



K-2 / K-22 Attachment



A-2 & K-2 Attachment Link Specification

Chain Dimensions Are Given In Inches

Maxco Chain Number	Chain Pitch	Tab Width	Att Hole Pitch	Hole Dia.	Height	C/L Chain Att. Hole	Across Holes	C/L Chain Att. Edge	Overall Width	A-2 Additional Weight/Att. lbs/pc	K-1 Additional Weight/Att. lbs/pc
	P	M	N	O	S	J	2J	K	2K		
188	2.609	2.125	1.250	0.344	0.813	2.094	4.188	2.56	5.13	0.22	0.43
131	3.075	2.875	1.500	0.531	1.000	2.063	4.126	2.94	5.88	0.36	0.72
102B	4.000	2.813	1.750	0.406	1.000	2.656	5.313	3.25	6.50	0.35	0.70
111	4.760	3.625	2.313	0.531	1.500	3.125	6.250	4.13	8.25	0.99	1.98
110	6.000	2.875	1.750	0.406	1.000	2.656	5.313	3.28	6.56	0.58	1.15
856	6.000	4.250	2.250	0.531	1.875	3.156	6.313	4.25	8.50	1.63	3.25
150X	6.050	4.250	2.750	0.531	1.875	3.750	7.500	4.78	9.56	1.61	3.23

Dimensions subject to change

K-22 Attachment Link Specification

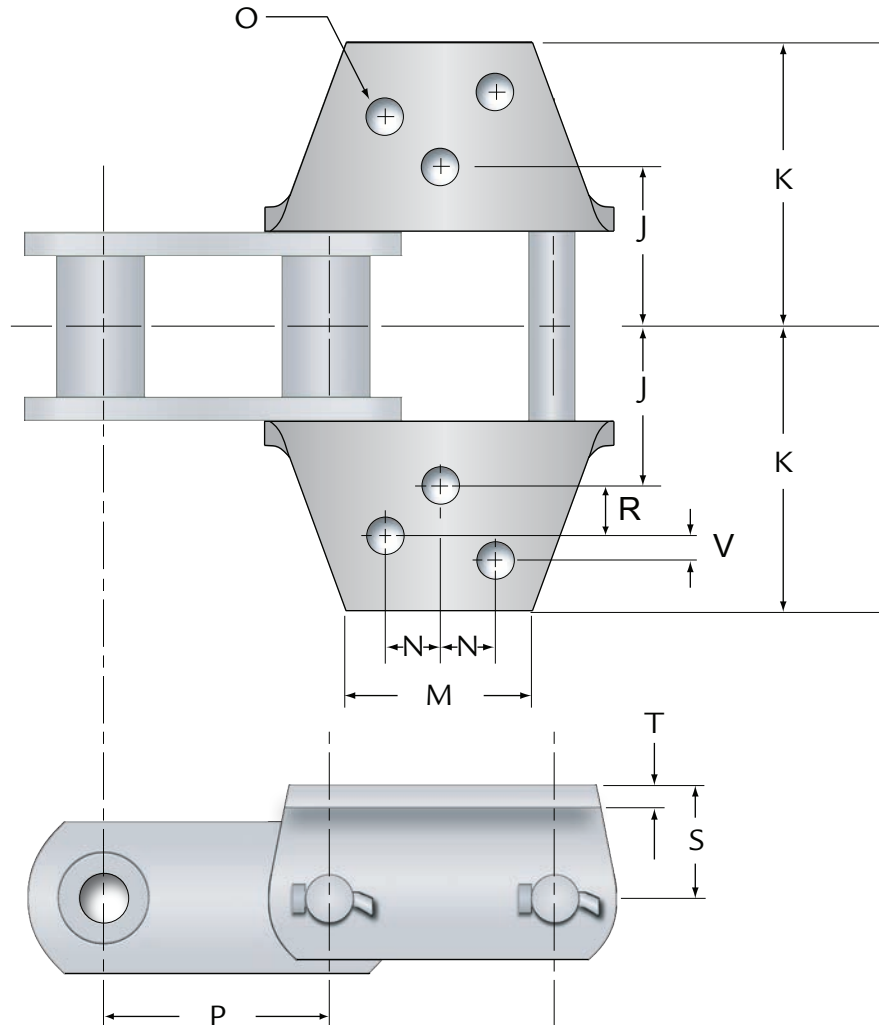
Chain Dimensions Are Given In Inches

Maxco Chain Number	Chain Pitch	Tab Width	Att Hole Pitch	Hole Dia.	Height	C/L Chain Att. Hole	Across Holes	C/L Chain Att. Edge	Overall Width	K-22 Additional Weight/Att. lbs/pc
	P	M	N	O	S	J	2J	K	2K	
1021/2	4.040	3.125	1.750	0.406	1.125	2.656	5.313	3.28	6.56	1.55
111	4.760	2.313	2.310	0.406	1.500	3.130	6.260	4.13	8.26	2.32
856	6.000	4.250	2.250	0.500	1.875	3.156	6.313	4.25	8.50	3.25

Dimensions subject to change

Steel Bushed Attachment Links - Specifications

K-3 Attachment



K-3 Attachment Link Specification

Chain Dimensions Are Given In Inches

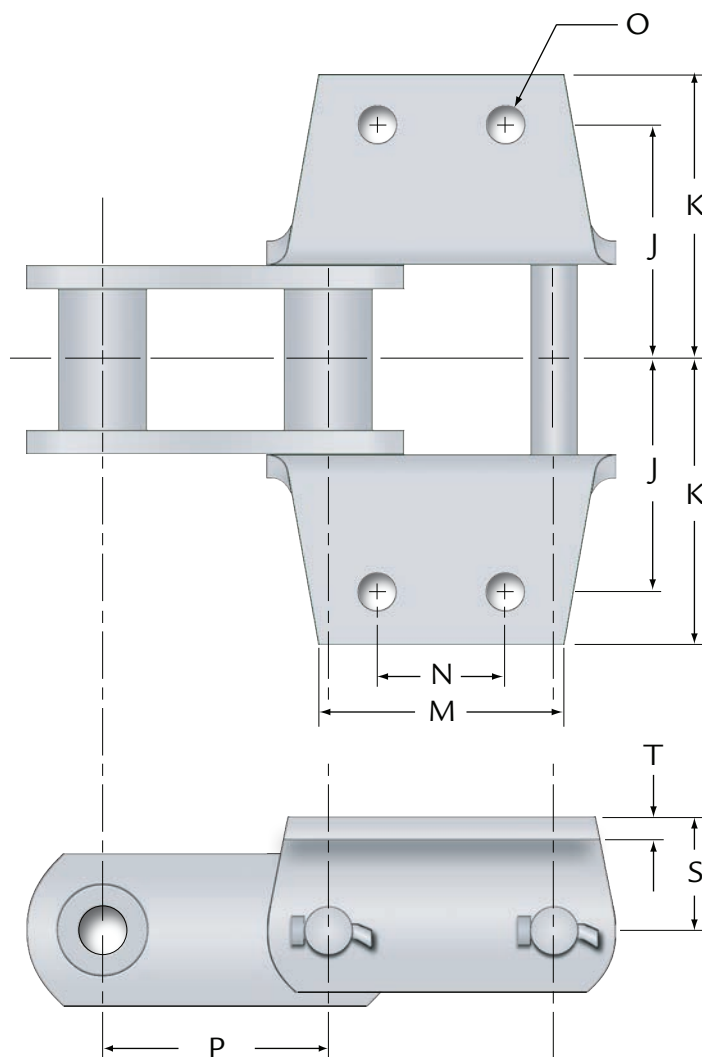
Maxco Chain Number	Chain Pitch	Tab Width	Att. Hole Pitch	Offset Hole Dim.	Offset Hole Dim.	Hole Diameter	Height	C/L Chain Attach Hole	Across Holes	C/L Chain Attach Edge	Overall Width	K-3 Add. Wgt/Att. lbs/pc
	P	M	N	V	R	O	S	J	2J	K	2K	
856	6.000	4.250	1.375	0.563	2.188	0.531	1.875	3.281	6.563	6.75	13.50	5.25
150X	6.050	4.250	1.375	-	-	0.531	1.875	3.750	7.500	6.28	12.56	5.19

Dimensions subject to change

Engineering Class Chains

Steel Bushed Chain Attachment Links

K-24 Attachment



K-24 Attachment Link Specification

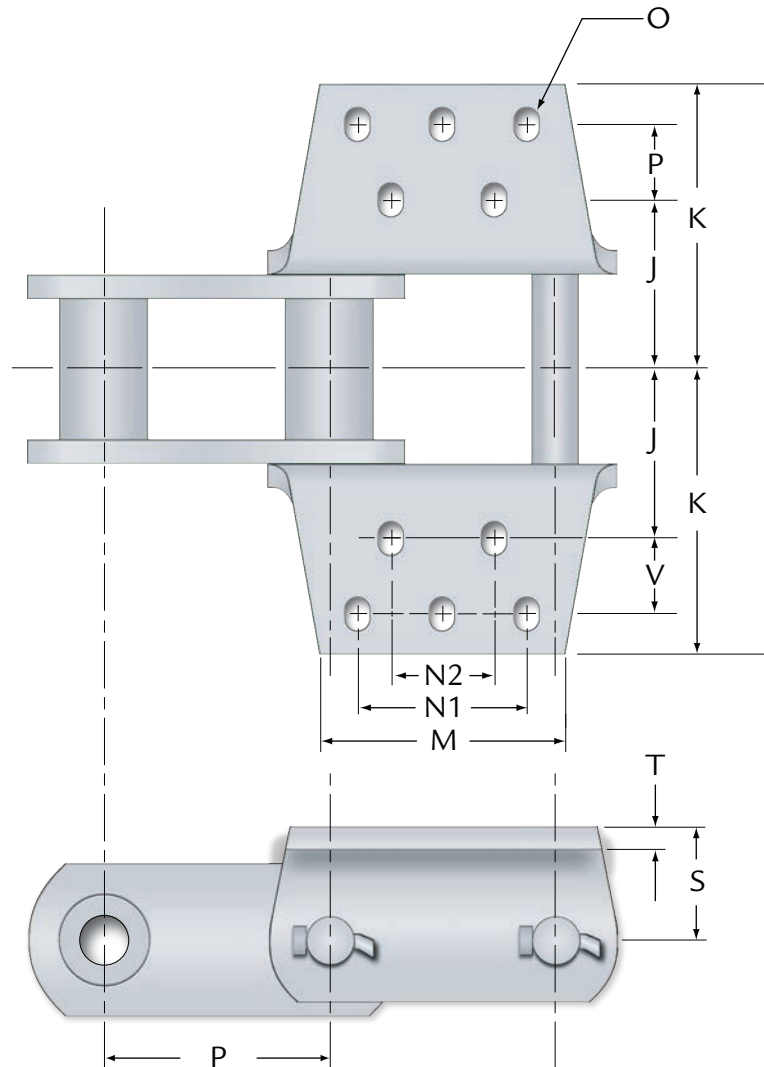
Chain Dimensions Are Given In Inches

Maxco Chain Number	Chain Pitch	Tab Width	Att Hole Pitch	Hole Dia.	Height	C/L Chain Att. Hole	Across Holes	C/L Chain Att. Edge	Overall Width	K-24 Additional Weight/Att. lbs/pc
	P	M	N	O	S	J	2J	K	2K	
856	6.000	7.250	2.500	0.656	1.875	3.625	7.250	4.75	9.50	3.50

Dimensions subject to change

Steel Bushed Attachment Links - Specifications

K-44 Attachment



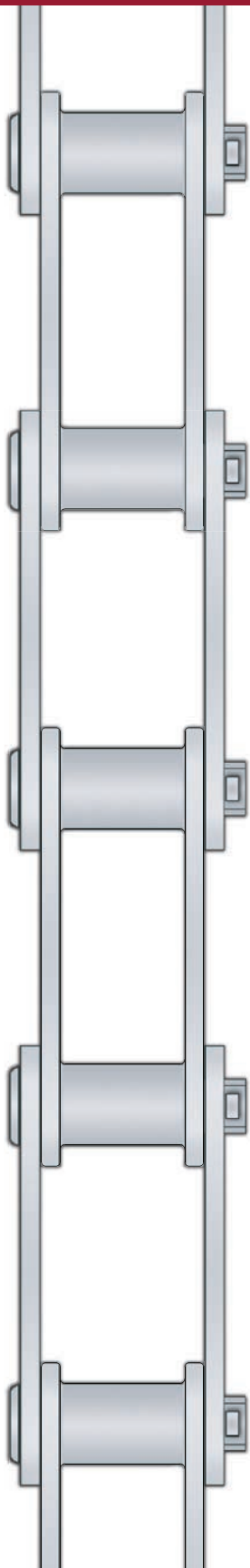
K-44 Attachment Link Specification

Chain Dimensions Are Given In Inches

Maxco Chain Number	Chain Pitch	Tab Width	Pitch		Offset Hole Dim.	Diameter	Height	C/L Chain Attach Hole	Across Holes	C/L Chain Attach. Edge	Overall Width	K-44 Additional Wgt/Att lbs/pc
	P	M	N1	N2	V	O	S	J	2J	K	2K	
857	6.000	6.500	3.500	3.500	2.500	0.531	2.500	3.500	7.000	7.25	14.50	10.50
859	6.000	6.500	4.500	2.750	2.000	0.656	3.000	4.500	9.000	7.56	15.13	11.50
864	7.000	8.562	5.500	3.750	2.000	0.656	3.000	4.500	9.000	7.56	15.13	12.83

Engineering Class Chains

Cast Combination Chains



High Strength and Durability to Match

Maxco Cast Combination Chains are perfect for applications where long life and demanding performance are required.

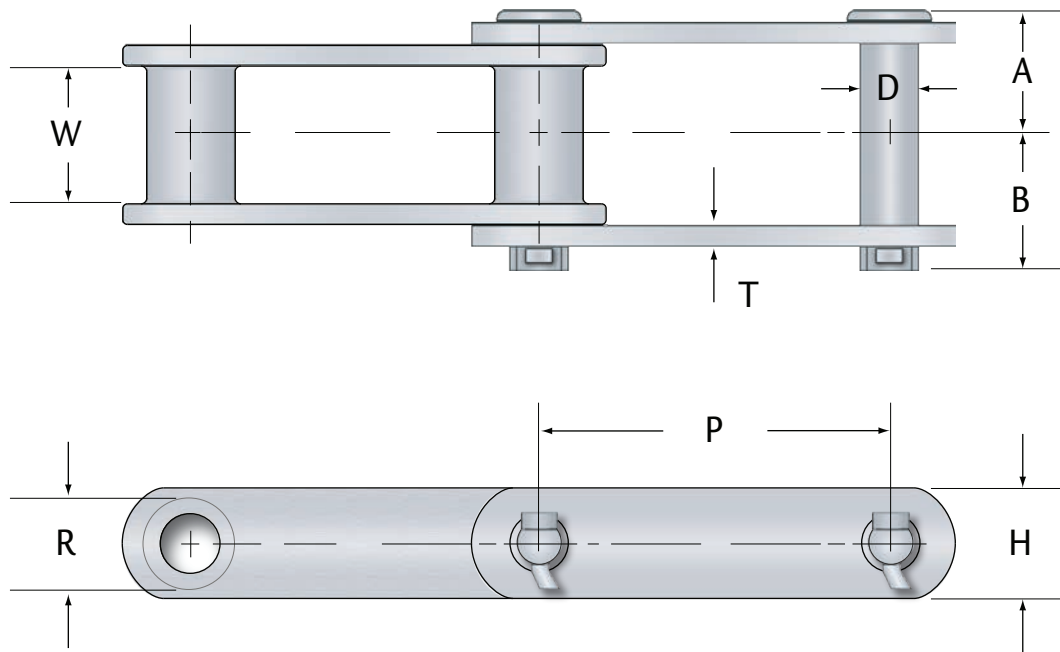
Cast Combination Chains feature block links of pearlitic malleable iron, up to 35% stronger than standard cast or malleable products. Matched with carbon steel sidebars and pins, Cast Combination Chains offer better performance and longer life than all cast chain products. Abrasive resistant, durable in a wide range of service applications, MAXCO Cast Combination Chains are an excellent choice for heavy duty conveyor applications.



Product	Page
Cast Combination Plain Chain	39
K-1 - K-2 Attachments	40
G-19 Attachment	41
S-1 Attachment	41
A-22 Attachment	42
F-2 Attachment	42

Cast Combination Chain - Specifications

Cast Combination Plain Chain



Cast Combination Chain Specifications

Chain Dimensions Are Given In Inches

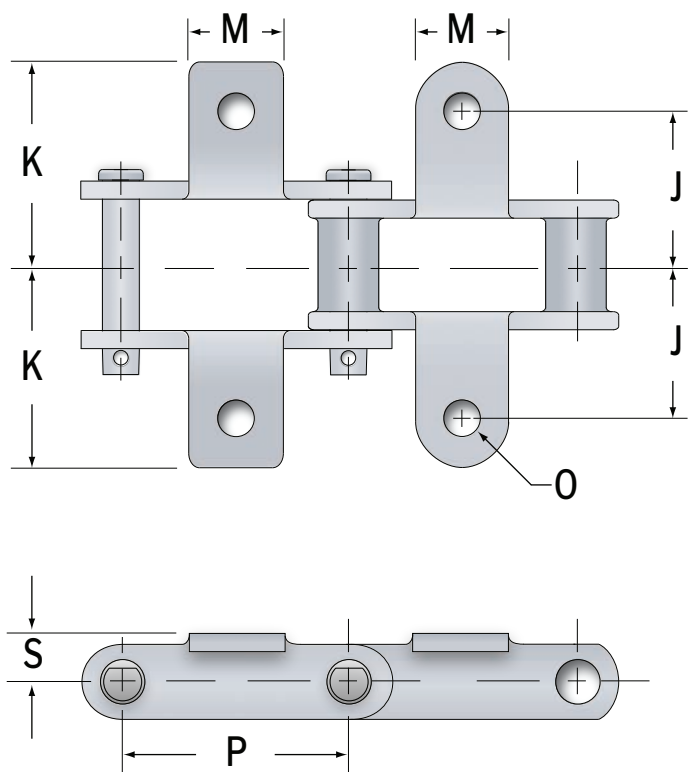
Dimensions subject to change

Maxco Chain Number	Pitch	Width	Diameter	Thickness	Height	Pin			Rated Working Load lbs	Average Ultimate Strength lbs	Average Chain Weight lbs/ft
	P	W	R	T	H	D	A	B			
C55	1.631	0.688	0.719	0.187	0.750	0.375	0.91	1.06	1,400	12,150	2.2
C60	2.308	0.875	0.750	0.250	1.000	0.500	1.31	1.44	2,620	25,300	3.0
C77	2.308	0.688	0.719	0.187	0.875	0.437	1.08	1.03	1,640	14,850	2.3
C188	2.609	0.937	0.875	0.250	1.125	0.500	1.28	1.41	2,350	18,900	3.5
C131	3.075	1.125	1.250	0.375	1.500	0.625	1.72	1.91	3,880	32,400	6.8
C102B	4.000	2.000	1.000	0.375	1.500	0.625	2.22	2.25	5,400	32,400	6.8
C102 1/2	4.040	2.000	1.375	0.375	1.750	0.750	2.28	2.50	6,530	48,600	9.5
C111	4.760	2.375	1.437	0.375	1.750	0.750	2.47	2.66	7,590	48,600	9.4
C110	6.000	1.937	1.250	0.375	1.500	0.625	2.16	3.14	5,380	32,400	6.3
C132	6.050	3.125	1.750	0.500	2.000	1.000	3.13	3.38	11,250	67,500	13.4

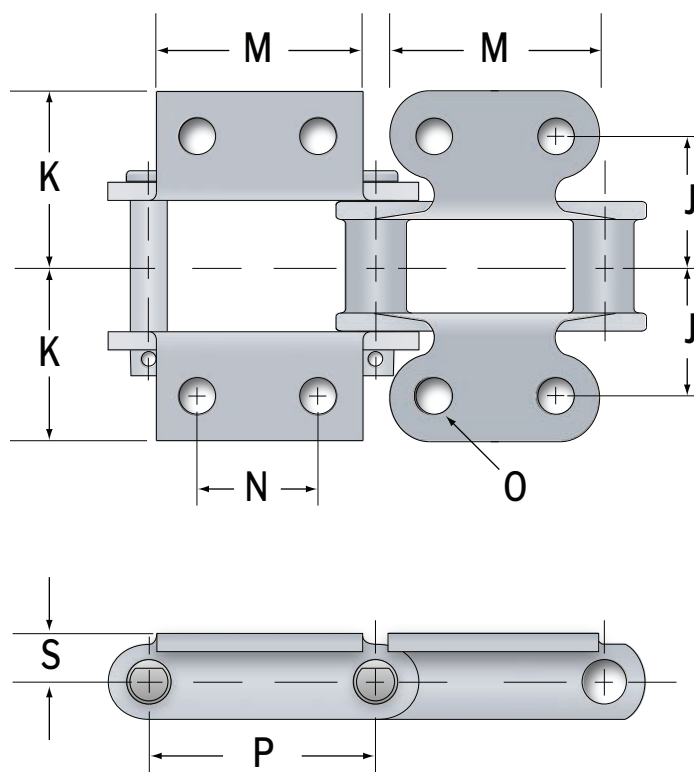
Engineering Class Chains

Cast Combination Chain K-1 & K-2 Attachment Links

K-1 Attachment



K-2 Attachment



K-1 Attachment Link Specifications

Chain Dimensions Are Given In Inches

Dimensions subject to change

Maxco Chain Number	Chain Pitch P	Tab Width M	Hole Diameter O	Height S	C/L Chain Att. Hole J	Across Holes 2J	C/L Chain Att. Edge K	Overall Width 2K	K-1 Additional Weight/Att. lbs/pc
C55	1.631	0.340	1.938	0.250	0.875	1.750	1.28	2.56	1.2
C77	2.308	0.340	2.188	0.313	1.000	2.000	1.38	2.75	2.0
C188	2.609	0.440	2.750	0.313	2.340	4.680	3.06	6.13	4.6

K-2 Attachment Link Specifications

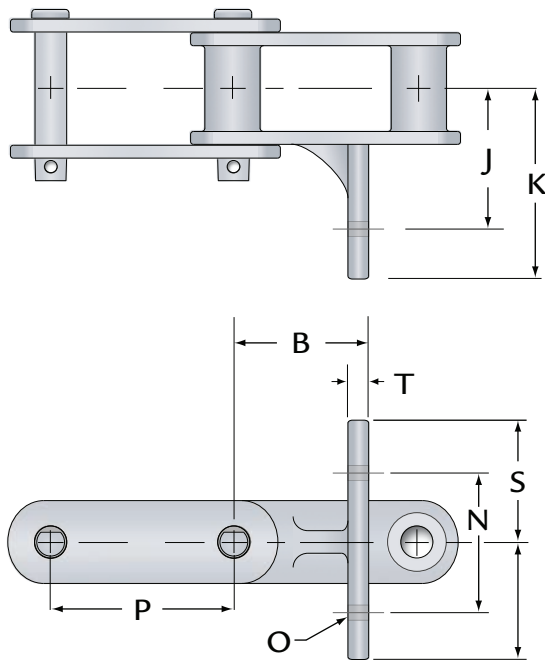
Chain Dimensions Are Given In Inches

Dimensions subject to change

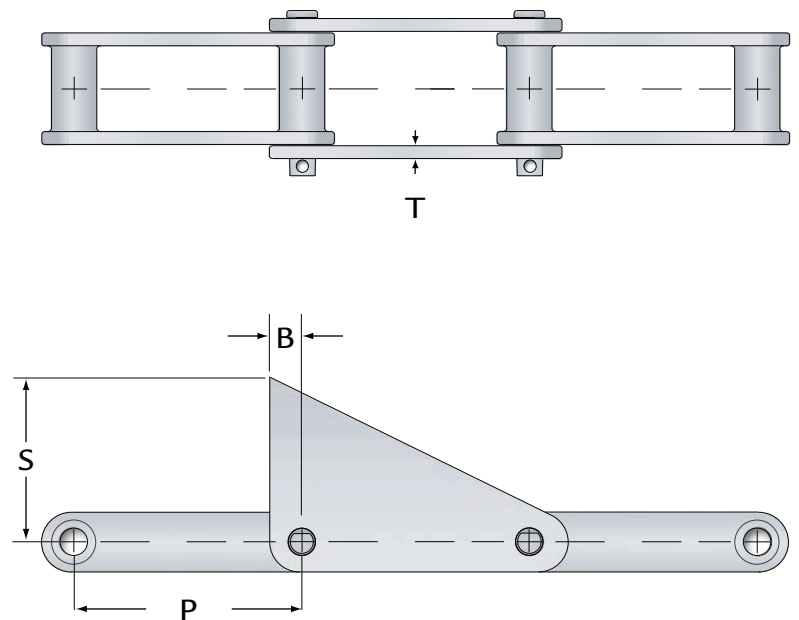
Maxco Chain Number	Chain Pitch P	Tab Width M	Att. Hole Pitch N	Hole Diameter O	Height S	C/L Chain Att. Hole J	Across Holes 2J	C/L Chain Att. Edge K	Overall Width 2K	K-2 Additional Weight/Att. lbs/pc
C188	2.609	2.125	1.250	0.340	0.813	2.094	4.188	2.53	5.06	0.37
C131	3.075	2.625	1.500	0.560	1.063	2.063	4.125	2.63	5.25	0.33
C102B	4.000	2.813	1.750	0.410	1.063	2.657	5.313	3.16	6.31	0.40
C102 1/2	4.040	2.813	1.750	0.410	1.063	2.657	5.313	3.25	6.50	0.64
C111	4.760	3.500	2.313	0.560	1.125	3.125	6.250	3.75	7.50	1.15
C110	6.000	2.876	1.750	0.410	1.063	2.657	5.313	3.34	6.69	0.80
C132	6.050	4.000	2.750	0.560	1.250	3.750	7.500	4.50	9.00	1.71

Combination Chain Attachment Links - Specifications

G-19 Attachment



S-1 Attachment



G-19 Attachment Link Specification

Chain Dimensions Are Given In Inches

Maxco Chain Number	Chain Pitch	Att Hole Pitch	Hole Dia.	Height	Thickness	Attachment Location	C/L Chain Att. Hole	C/L Chain Att. Edge	G-19 Additional Weight/Att. lbs/pc
	P	N	O	S	T	B	J	K	
C55	1.631	0.438	0.340	0.875	0.250	1.030	1.688	2.25	0.14
C188	2.609	0.750	0.340	1.310	0.280	1.875	1.938	2.44	0.30

Dimensions subject to change

S-1 Attachment Link Specification

Chain Dimensions Are Given In Inches

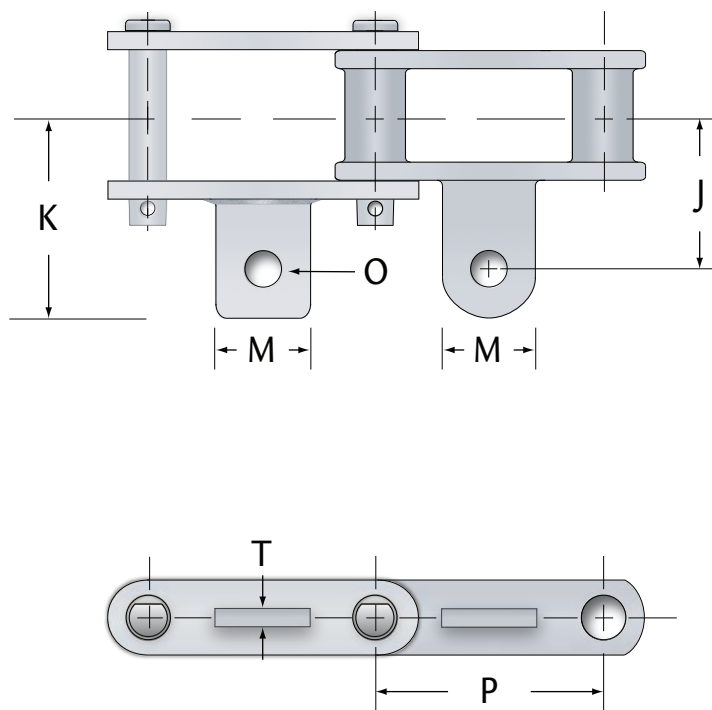
Maxco Chain Number	Chain Pitch	Height	Attachment Location	Thickness	S-1 Additional Weight/Att. lbs/pc
	P	S	B	T	
C188	2.609	2.625	0.625	0.250	0.52
C102 1/2	4.040	3.750	1.000	0.375	1.82
C111	4.760	4.375	1.000	0.375	2.46
C132	6.050	5.000	1.280	0.500	5.45

Dimensions subject to change

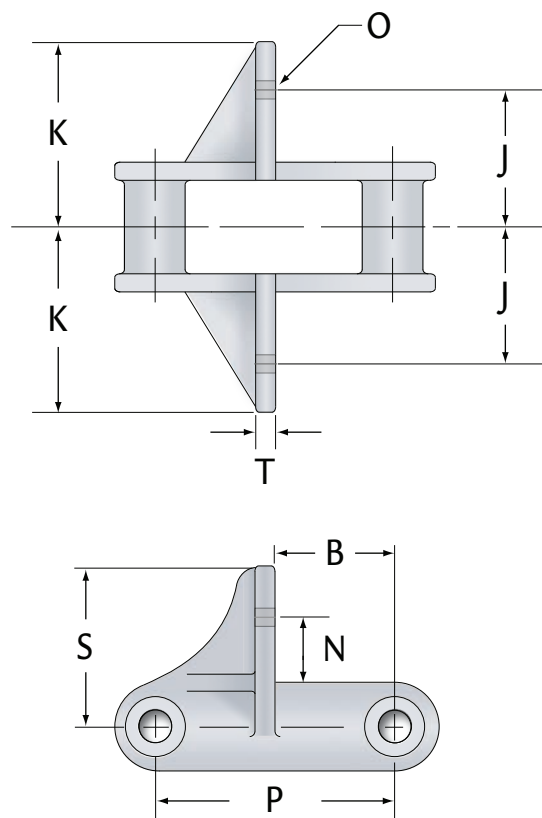
Engineering Class Chains

Combination Chain A-22 & F-2 Attachment Links

A-22 Attachment



F-2 Attachment



A-22 Attachment Link Specification

Chain Dimensions Are Given In Inches

Maxco Chain Number	Chain Pitch	Tab Width	Hole Dia.	Thickness	C/L Chain Att. Hole	C/L Chain Att. Edge	A-22 Additional Weight/Att. lbs/pc
	P	M	O	T	J	K	
C55 *	1.631	0.750	0.340	0.250	1.500	1.94	0.19
C188	2.609	0.875	0.410	0.375	1.438	1.88	0.17

* C55 Attachments are available on Pin Link only

Dimensions subject to change

F-2 Attachment Link Specification

Chain Dimensions Are Given In Inches

Maxco Chain Number	Chain Pitch	Att. Hole Pitch	Hole Dia.	Height	Thickness	Att. Location	C/L Chain Att. Hole	Across Holes	C/L Chain Att. Edge	Overall Width	F-2 Additional Weight/Att. lbs/pc
	P	N	O	S	T	B	J	2J	K	2K	
C77	2.308	1.375	0.340	1.938	0.250	1.313	0.875	1.750	1.28	2.56	1.2
C188	2.609	1.500	0.340	2.188	0.313	1.250	1.000	2.000	1.38	2.75	2.0
C131	3.075	1.688	0.440	2.750	0.313	0.938	2.340	4.680	3.06	6.13	4.6

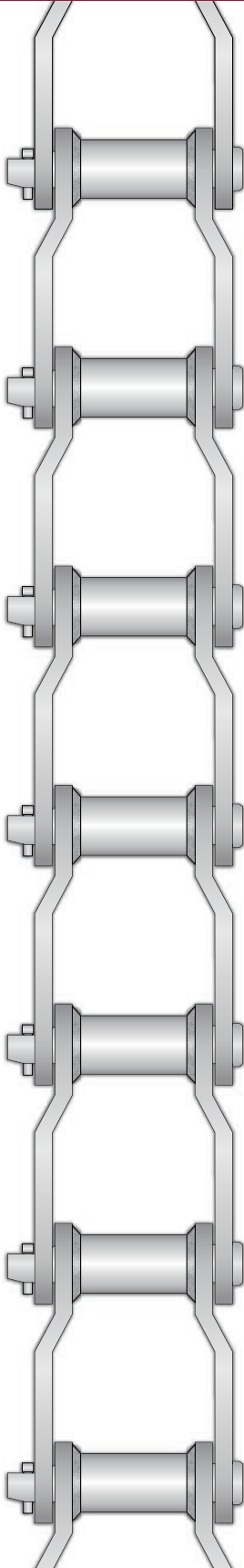
Dimensions subject to change

Engineering Class Chains

Welded Steel Chain

Economical High Strength Welded Chains

Welded Steel Chains are designed for a wide range of conveyor applications. Made from high quality steel and precision welds, these chains are manufactured to the highest standards and subjected to a wide range of quality assurance procedures to assure a superior quality product.

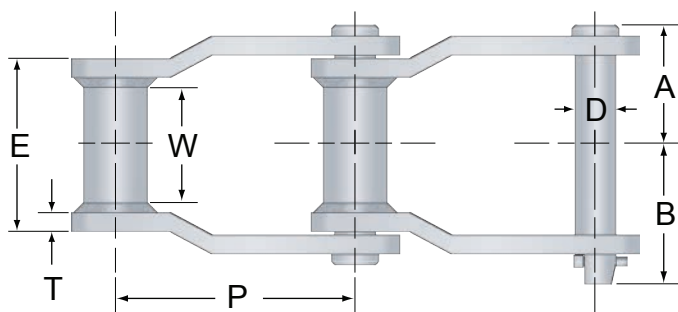


Product	Page
Welded Steel Mill Chain	44
A-1 / K-1 Attachments	45
A-2 / K-2 Attachments	46
F-2 / F-4 Attachments	47
Wing Attachment	48
S-1 Attachment	48
RR / R1 / R 1-1/2 Attachment	49
H-1 / H-2 Attachment	50
RF-2 Attachment	51

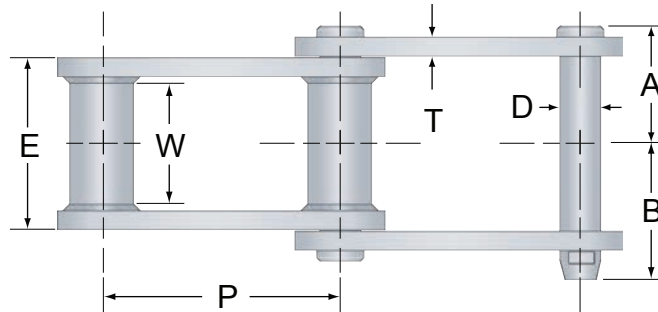
Engineering Class Chains

Welded Steel Chain

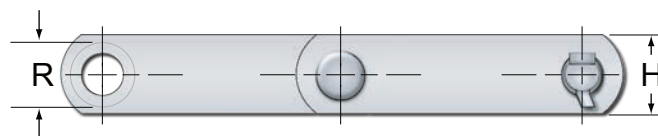
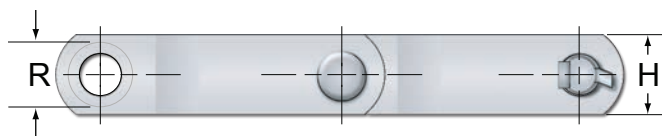
Welded Steel Mill Chain



Offset Sidebar Style



Straight Sidebar Style



Welded Steel Mill Chain Specifications

Chain Dimensions Are Given In Inches

Maxco Chain Number	Pitch	Inside	Outside	Barrel	Pin			Sidebar		Working Load		Avg Ult Strength		Avg Wgt lbs/ft
	P	W	E	R	D	A	B	T	H	HT Pin lbs	HT All lbs	HT Pin lbs	HT All lbs	
	Offset Sidebar Style													
WR78	2.609	1.250	2.000	0.875	0.500	1.56	1.78	0.250	1.125	3,000	3,500	25,000	33,000	4.0
WR82	3.075	1.375	2.250	1.188	0.563	1.64	1.90	0.250	1.250	3,750	4,400	28,000	36,000	5.5
WR82H	3.075	1.375	2.500	1.125	0.625	1.81	2.09	0.375	1.250	4,200	4,900	38,000	50,000	6.7
WR124	4.000	1.625	2.750	1.438	0.750	2.22	2.44	0.375	1.500	6,300	7,350	46,000	60,000	8.5
WR124H	4.063	1.500	3.000	1.625	0.875	2.46	2.78	0.500	2.000	7,850	9,150	94,000	100,000	14.0
WR111	4.760	2.250	3.375	1.438	0.750	2.50	2.75	0.375	1.500	7,550	8,850	46,000	60,000	9.0
WR110	6.000	1.875	3.000	1.250	0.750	2.16	2.50	0.375	1.500	6,750	7,850	46,000	60,000	7.0
WR132	6.050	2.875	4.375	1.750	1.000	3.12	3.47	0.500	2.000	13,100	15,300	84,000	100,000	13.6
WR155	6.050	2.875	4.625	1.750	1.125	3.25	3.66	0.625	2.500	17,240	20,000	144,000	184,000	20.0
WC132	Straight Sidebar Style													
	6.050	2.875	4.375	1.750	1.000	3.00	3.09	0.500	2.000	13,100	15,300	84,000	100,000	13.6

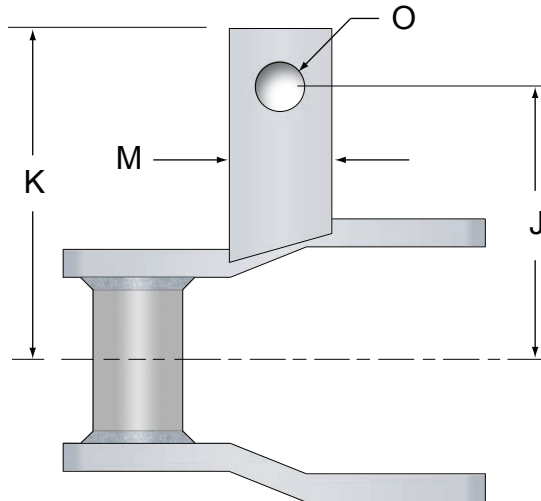
Dimensions subject to change

HT Pin - Heat treated pins only

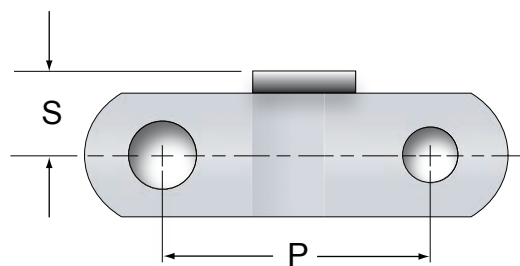
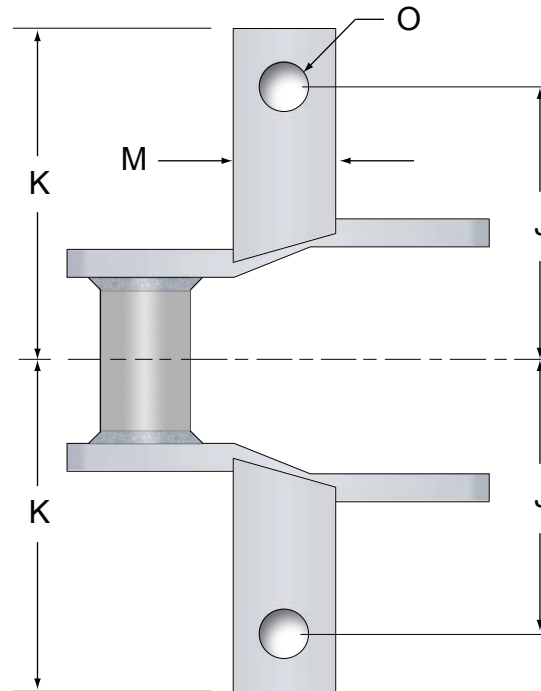
HT All - All parts heat treated

Welded Steel Attachment Links - Specifications

A-1 Attachment



K-1 Attachment



A-1 / K-1 Attachment Specifications

Chain Dimensions Are Given In Inches

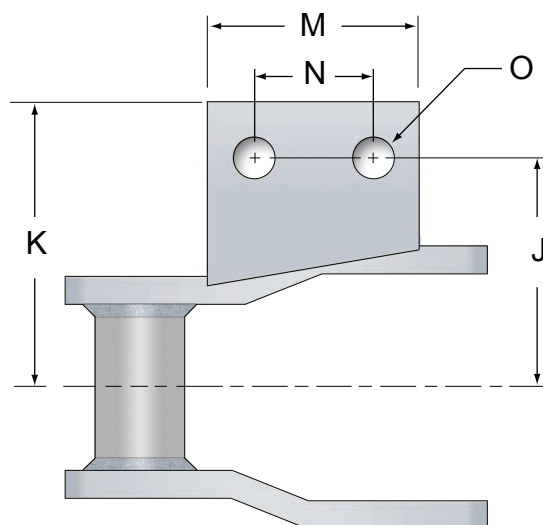
Maxco Chain Number	Chain Pitch	Tab Width	Hole Dia.	Height	C/L Chain Att. Hole	Across Holes	C/L Chain Att. Edge	Overall Width	A-1 Add. Wgt Attach lbs/pc	K-1 Add. Wgt Attach lbs/pc
	P	M	O	S	J	2J	K	2K		
WR78	2.609	1.250	0.406	0.813	2.000	4.000	2.50	5.00	0.17	0.34
WR82	3.075	1.750	0.406	0.875	2.125	4.250	2.75	5.50	0.22	0.34

Dimensions subject to change

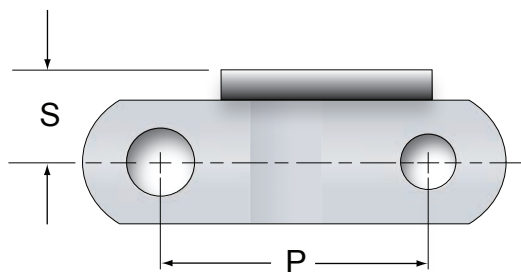
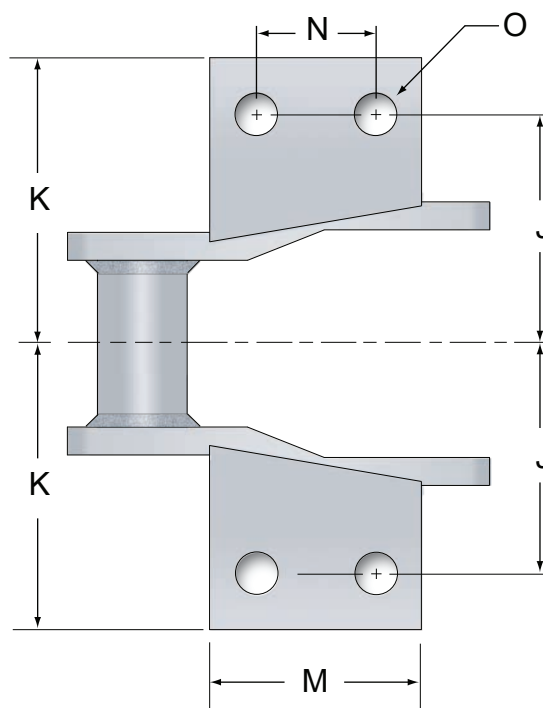
Engineering Class Chains

Welded Steel A2 & K2 Attachment Links

A-2 Attachment



K-2 Attachment



A-2 / K-2 Attachment Specifications

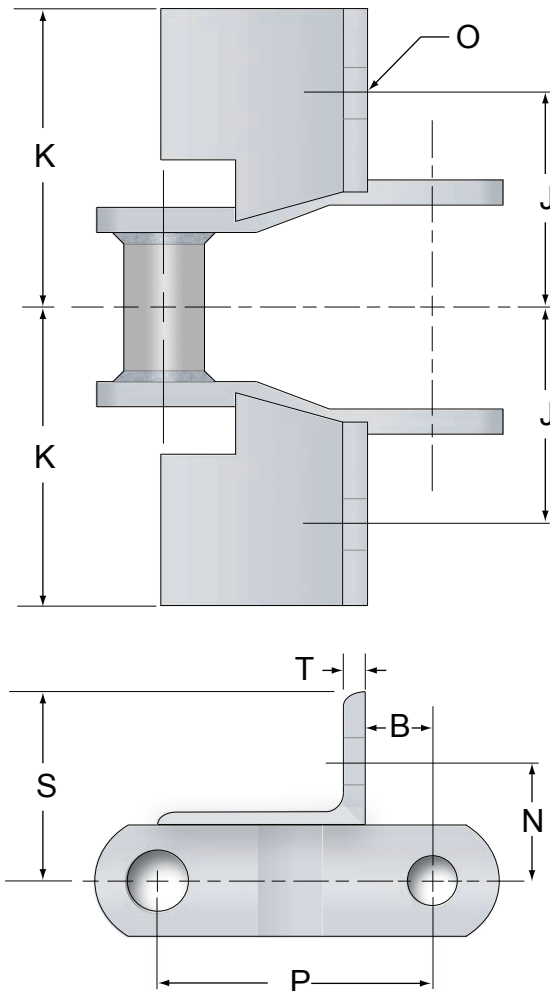
Chain Dimensions Are Given In Inches

Maxco Chain Number	Chain Pitch	Tab Width	Pitch	Hole Dia.	Height	C/L Chain Att. Hole	Across Holes	C/L Chain Att. Edge	Overall Width	A-2 Add. Wgt Attach lbs/pc	K-2 Add. Wgt Attach lbs/pc
	P	M	N	O	S	J	2J	K	2K		
WR78	2.609	2.000	1.125	0.406	0.813	2.000	4.000	2.50	5.00	0.25	0.50
WR82	3.075	2.250	1.313	0.406	0.875	2.125	4.250	2.75	5.50	0.27	0.54
WR124	4.000	3.000	1.938	0.406	1.125	2.625	5.250	3.50	7.00	0.53	1.07
WR124H	4.063	3.000	1.938	0.531	1.500	2.625	5.250	3.50	7.00	0.74	1.49
WC132	6.050	4.000	2.750	0.531	1.375	3.750	7.500	4.38	8.75	1.11	2.22

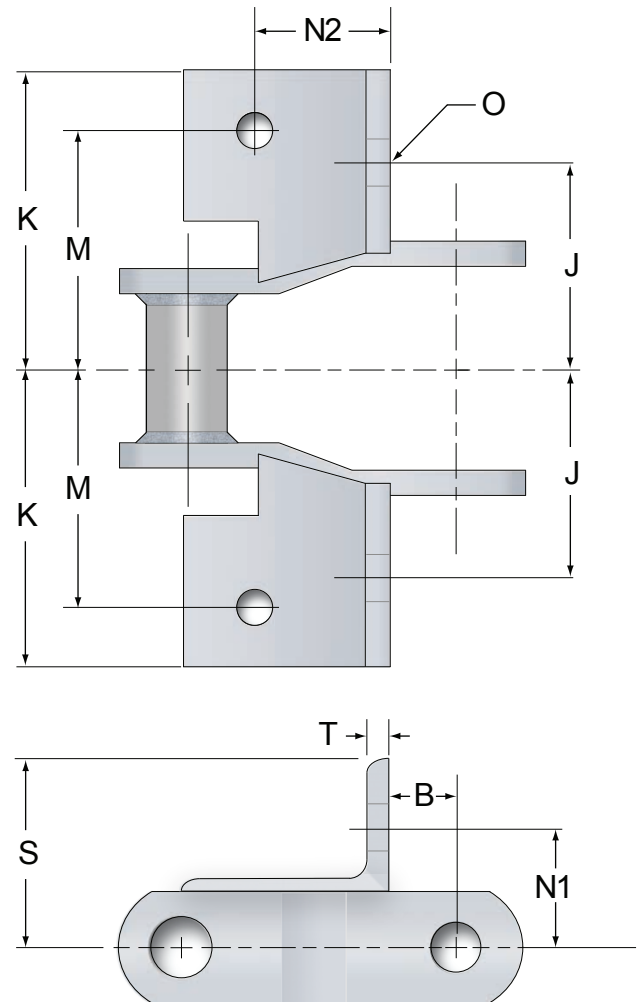
Dimensions subject to change

Welded Steel Attachment Links - Specifications

F-2 Attachment



F-4 Attachment



F-2 Attachment Link Specifications

Chain Dimensions Are Given In Inches

Maxco Chain Number	Chain Pitch	Tab Width	Hole Dia.	Height	Thickness	Att. Location	C/L Chain Att. Hole	Across Holes	C/L Chain Att. Edge	Overall Width	F-2 Add. Wgt Attach lbs/pc
	P	N	O	S	T	B	J	2J	K	2K	
WR78	2.609	1.438	0.406	2.063	0.250	0.688	1.875	3.750	2.69	5.38	0.43

Dimensions subject to change

F-4 Attachment Link Specifications

Chain Dimensions Are Given In Inches

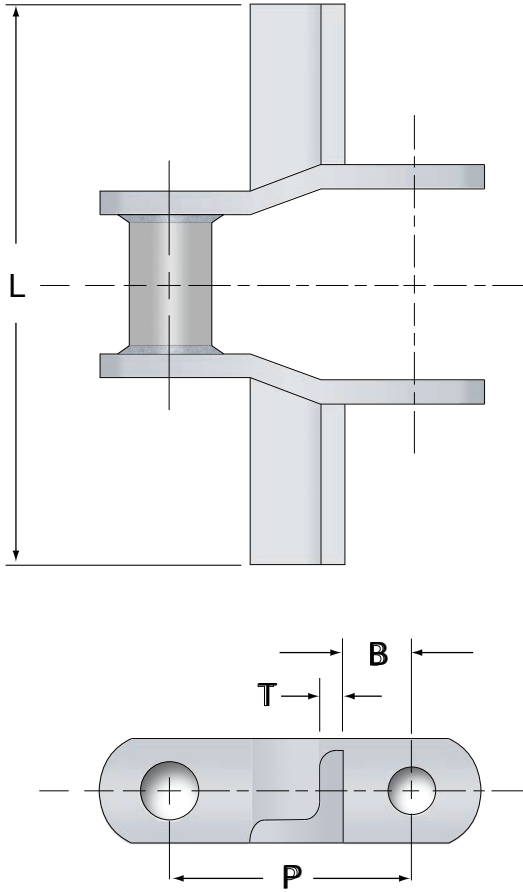
Maxco Chain Number	Chain Pitch	Location	Location	Hole Dia.	Height	Thickness	Att. Location	C/L Chain Att. Hole	Across Holes	C/L Chain Att. Hole	Across Holes	C/L Chain Att. Edge	Overall Width
	P	N1	N2	O	S	T	B	J	2J	M	2M	K	2K
WR78	2.609	1.438	1.250	0.406	2.250	0.250	0.688	1.875	3.750	2.250	4.500	2.25	4.50
WR82	3.075	1.500	1.125	0.406	2.625	0.250	0.750	2.063	4.126	2.500	5.000	2.97	5.94
WR124	4.000	2.063	1.438	0.406	2.750	0.375	0.875	2.188	4.376	2.625	5.250	3.09	6.19

Dimensions subject to change

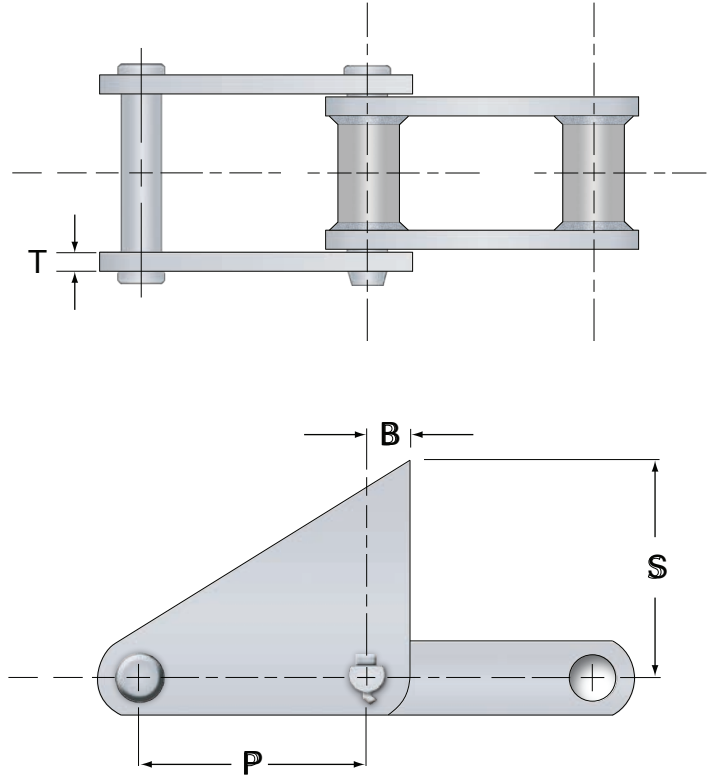
Engineering Class Chains

Welded Steel Wing & S-1 Attachment Links

Wing Attachment



S-1 Attachment



Wing Attachment Link Specifications

Chain Dimensions Are Given In Inches

Maxco Chain Number	Chain Pitch	Att Angle H x W	Attachment Location	Thickness	Overall Width	Add Weight Attachment lbs/pc
	P		B	T	L	
WR78	2.609	1-1/8" x 3/4"	0.750	0.250	6.000	0.72
WR82	3.075	1-1/4" x 3/4"	0.813	0.250	6.500	0.79
WR124	4.000	1-1/2" x 1"	1.188	0.250	8.500	1.90
WR124H	4.063	2" x 1-1/4"	1.375	0.375	12.375	1.73
WC132	6.050	2" x 1-1/4"	1.438	0.500	8.500	3.73

Dimensions subject to change

S-1 Attachment Link Specifications

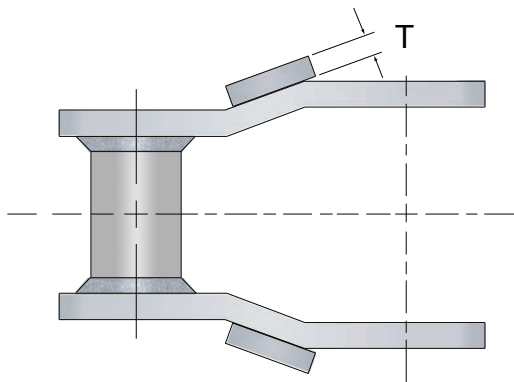
Chain Dimensions Are Given In Inches

Maxco Chain Number	Chain Pitch	Height	Attachment Location	Thickness	Add Weight Attachment lbs/pc
	P	S	B	T	
WR132	6.050	5.000	1.281	0.500	2.25

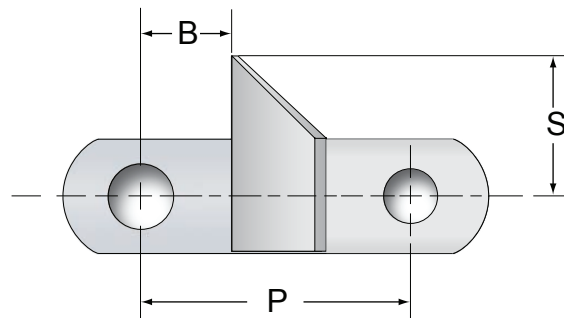
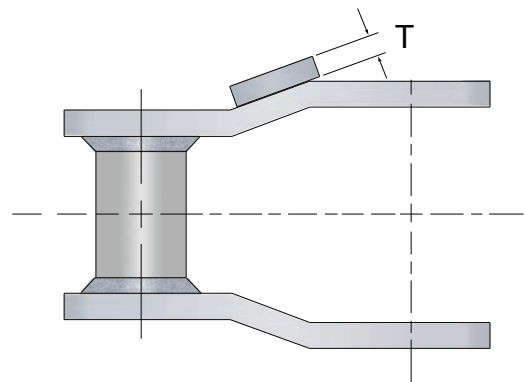
Dimensions subject to change

Welded Steel Attachment Links - Specifications

RR Attachment



R1 & R 1-1/2 Attachment



R1 & R 1-1/2 & RR Attachment Link Specifications

Chain Dimensions Are Given In Inches

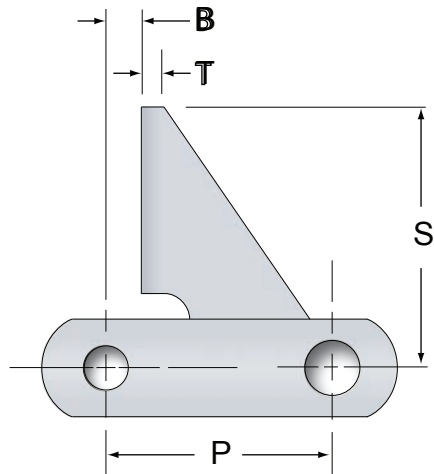
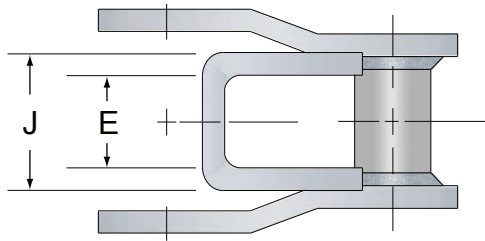
Maxco Chain Number	Chain Pitch	Height	Attachment Location	Thickness	Add. Weight Attachment lbs/pc
	P	S	B	T	
WR78 WR82	R-1 Attachment Link				
	2.609	1.563	0.750	0.250	0.150
	3.075	1.875	0.875	0.250	0.160
	R 1-1/2 Attachment Link				
WR78	2.609	2.063	0.750	0.250	0.20
WR78 WR82 WR124 WR124H	RR Attachment Link				
	2.609	1.563	0.750	0.250	0.26
	3.075	1.875	0.875	0.250	0.31
	4.000	1.875	1.250	0.250	0.63
	4.050	2.125	1.250	0.250	1.21

Dimensions subject to change

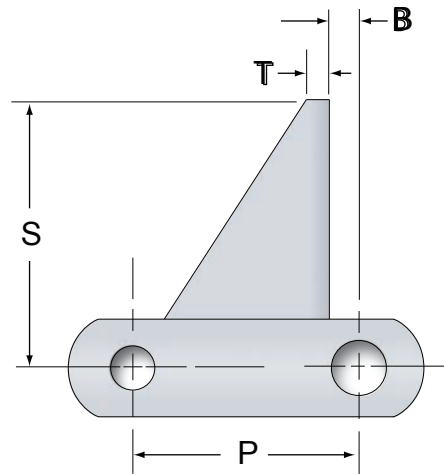
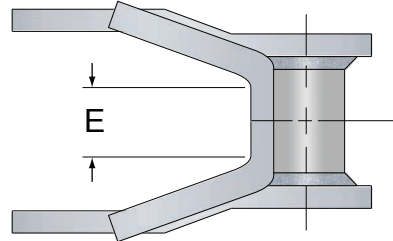
Engineering Class Chains

Welded Steel H-1 & H-2 Attachment Links

H-1 Attachment



H-2 Attachment



H-1 & H-2 Attachment Link Specifications

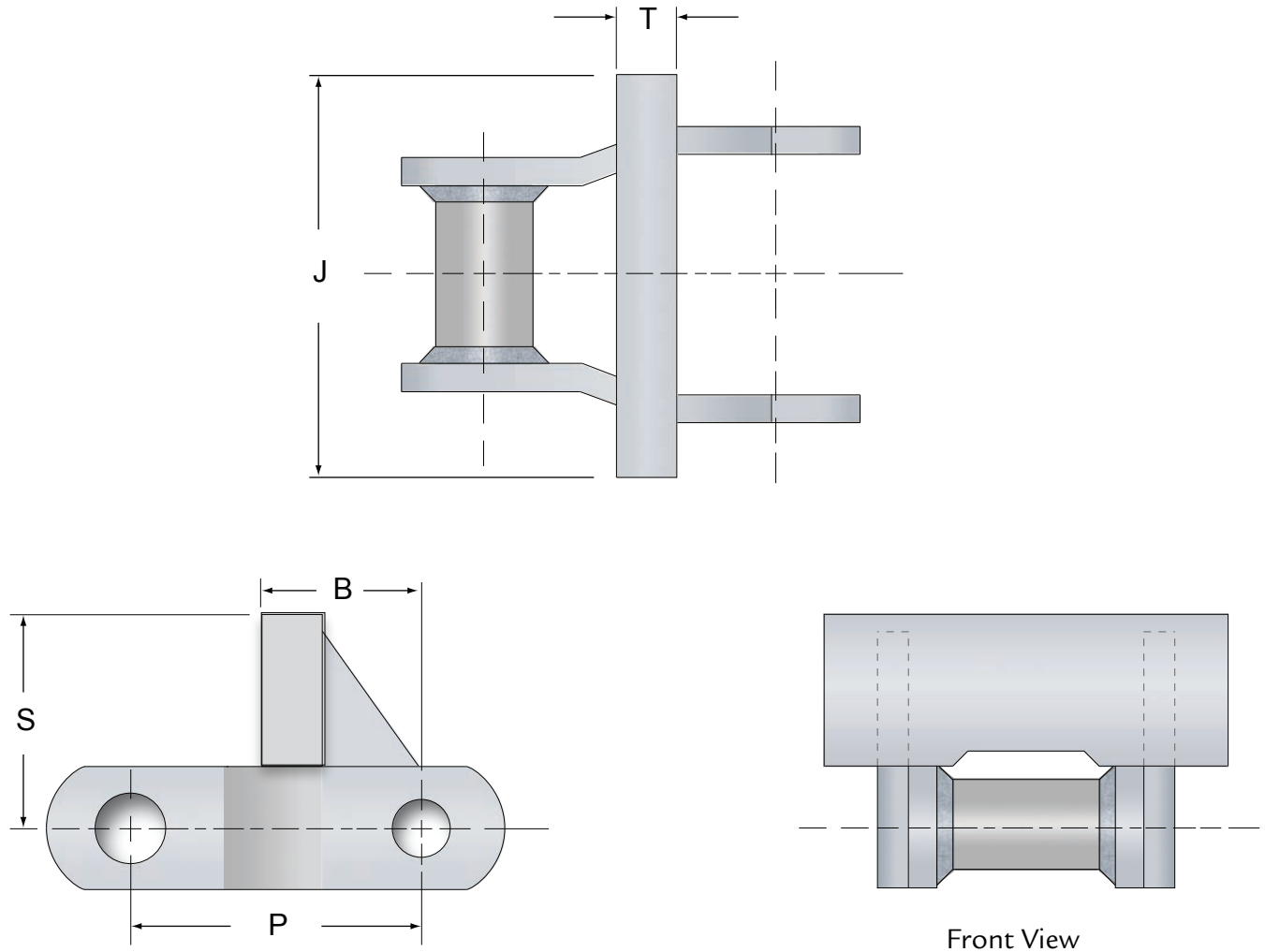
Chain Dimensions Are Given In Inches

Maxco Chain Number	Chain Pitch	Height	Attachment Location	Thickness	Inside Face Width	Face Width	Add. Weight Attachment lbs/pc	
	P	S	B	T	E	J		
	H-1 Attachment Link							
	WR78	2.609	3.563	0.500	0.250	0.875	1.725	0.93
	WR82	3.075	3.625	0.625	0.250	1.125	2.000	1.13
	H-2 Attachment Link							
	WR78	2.609	3.563	0.312	0.250	0.813	-	0.76
	WR82	3.075	3.625	0.375	0.250	1.031	-	0.85

Dimensions subject to change

Welded Steel Attachment Links - Specifications

RF-2 Attachment



RF-2 Attachment Link Specifications

Chain Dimensions Are Given In Inches

Maxco Chain Number	Chain Pitch	Height	Attachment Location	Thickness	Face Width	Add. Weight Attachment lbs/pc
	P	S	B	T	J	
WR78	2.609	2.688	1.500	0.375	3.000	0.83
WR124	4.000	3.250	2.000	0.375	4.250	1.50

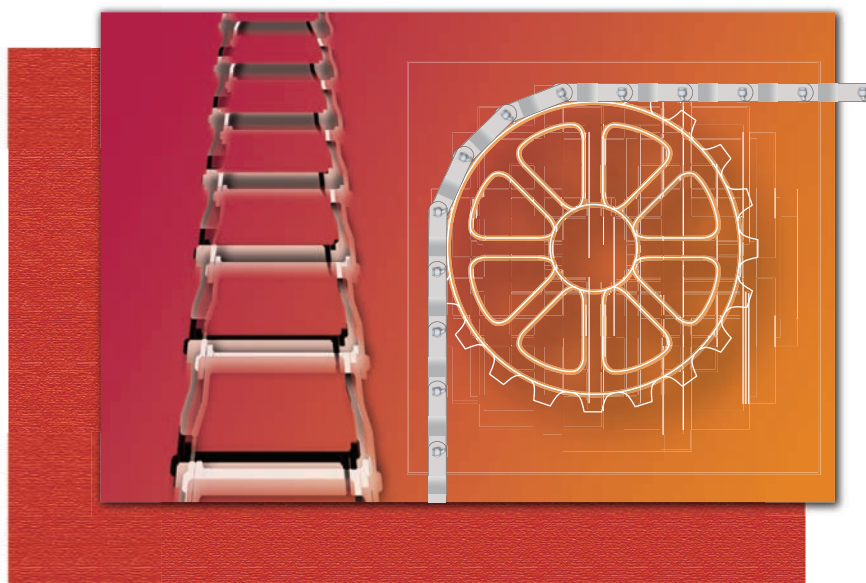
Dimensions subject to change

Engineering Class Chains

Welded Steel Drag Chains

Durability and Strength

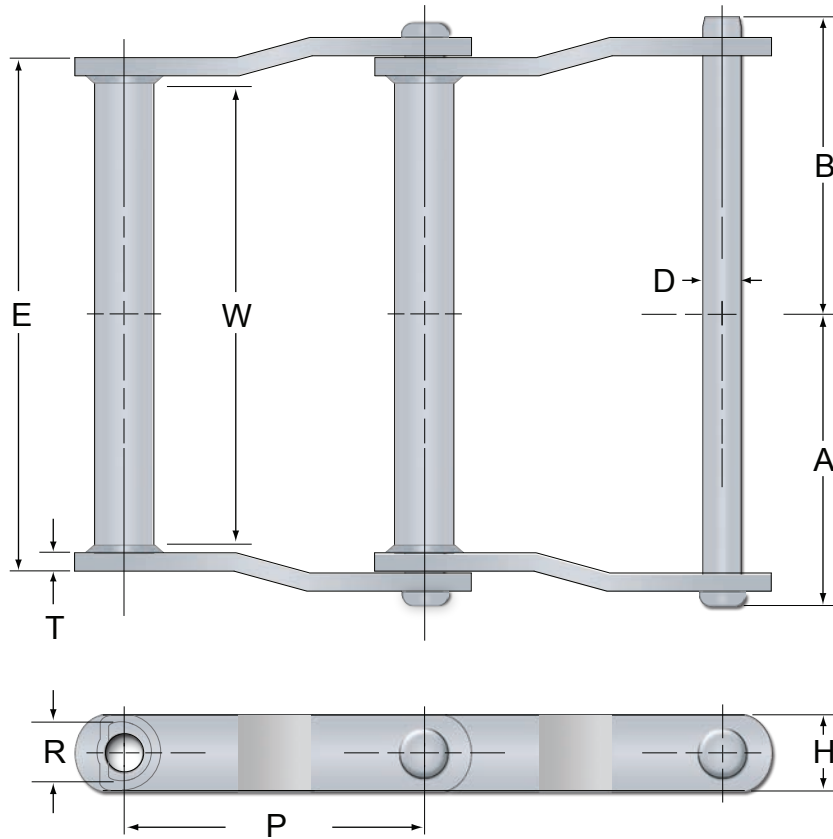
Maxco Welded Steel Drag Chain is a proven Conveyor Chain for demanding applications where strength and durability are key considerations. Economical in cost and capable in service, Welded Steel Drag Chain is found in applications ranging from lumber, agriculture and conveyor line usage. Your Maxco sales representative will assist you in selecting the proper chain for your application requirement.



Product	Page
Welded Steel Drag Chain	53
C-1, C-3, C-4 Attachments	54
RR Attachments	55
Wing Attachments	55

Welded Steel Drag Chain

Welded Steel Drag Chain



Welded Steel Drag Chain Specifications

Chain Dimensions Are Given In Inches

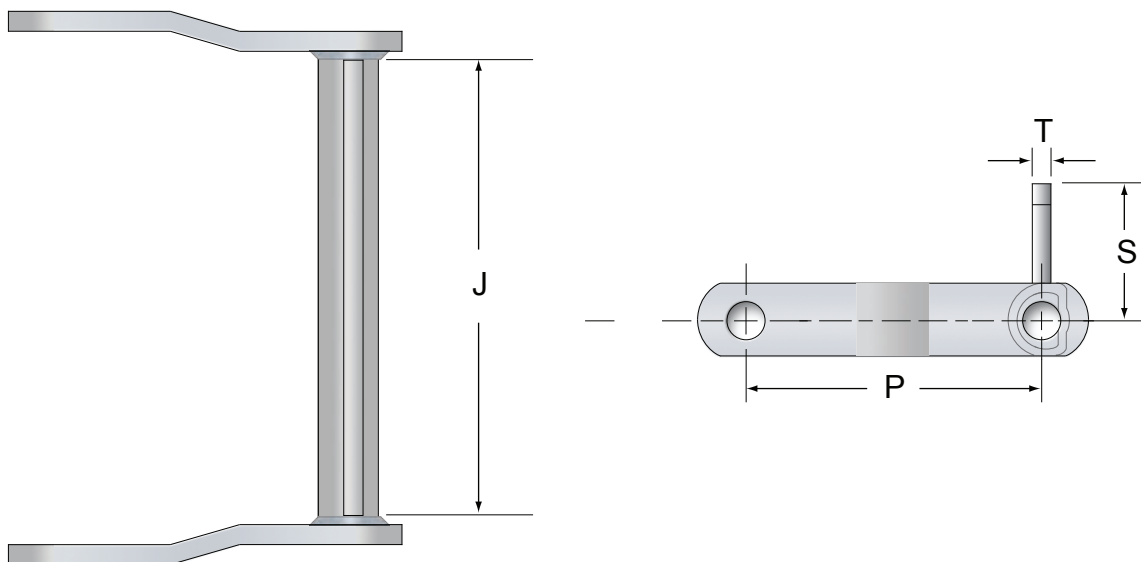
Maxco Chain Number	Chain Pitch	Inside Width	Outside Width	Barrel Dia.	Pin			Side Bar		Rtd Work. Load		Avg. Ult. Strength		Avg Wgt lbs/ft
	P	W	E	R	D	A	B	T	H	HT Pin lbs	HT All lbs	HT Pin lbs	HT All lbs	
WD102	5.000	6.375	7.750	1.500	0.750	4.53	4.72	0.375	1.500	8,500	10,000	51,000	60,000	12.0
WD104	6.000	4.125	5.375	1.500	0.750	3.37	3.50	0.375	1.500	8,500	10,000	51,000	60,000	8.6
WD110	6.000	9.000	10.375	1.500	0.750	5.88	6.00	0.375	1.500	8,500	10,000	51,000	60,000	13.5
WD113	6.000	9.000	10.625	1.500	0.875	6.13	6.37	0.500	1.500	9,300	11,700	57,000	70,000	15.1
WD112	8.000	9.000	10.375	1.500	0.750	5.88	6.13	0.375	1.500	8,500	10,000	51,000	60,000	11.2
WD116	8.000	12.750	14.125	1.625	0.750	7.75	7.91	0.375	1.750	10,700	11,500	51,000	69,000	16.0
WD122	8.000	8.500	10.125	2.000	0.875	5.88	6.12	0.500	2.000	12,300	15,000	94,000	100,000	17.5
WD480	8.000	11.000	12.750	2.000	0.875	7.19	7.44	0.500	2.000	12,300	15,000	94,000	100,000	19.8

Dimensions subject to change

Engineering Class Chains

Welded Steel C-1, C-3, C-4 Attachments

C-1, C-3, C-4 Attachments



C-1, C-3, C-4 Attachment Specifications

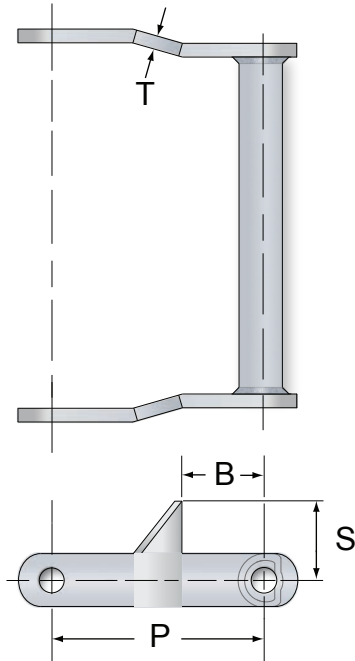
Chain Dimensions Are Given In Inches

Maxco Chain Number	Chain Pitch	Height	Thickness	Inside Width	Additional Weight/Att. lbs/pc
	P	S	T	J	
WD102 WD104 WD110	C-1 Attachment Link				
	5.000	2.375	0.375	7.00	1.00
	6.000	2.375	0.375	5.00	0.75
	6.000	2.375	0.375	10.00	1.00
WD112 WD116	8.000	2.375	0.375	10.00	0.93
	8.000	2.563	0.375	13.00	1.60
WD113 WD480	C-3 Attachment Link				
	6.000	2.250	0.500	10.00	1.10
	8.000	3.000	0.500	12.00	4.00
	C-4 Attachment Link				
WD102 WD104 WD110	5.000	3.750	0.375	7.00	2.13
	6.000	3.750	0.375	5.00	1.55
	6.000	3.750	0.375	10.00	2.60
WD113 WD112 WD116 WD480	6.000	4.750	0.500	10.00	2.90
	8.000	3.750	0.375	10.00	2.60
	8.000	4.813	0.375	13.00	5.00
	8.000	5.000	0.500	12.00	8.40

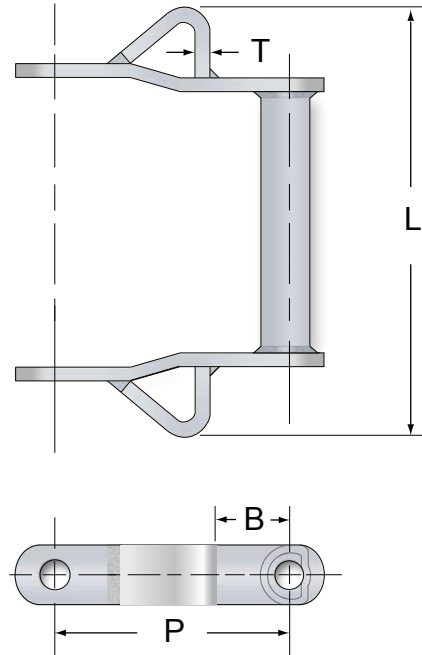
Dimensions subject to change

Welded Steel Drag Chain Attachments

RR Attachment Link



Wing Attachment Link



RR Attachment Link Specifications

Chain Dimensions Are Given In Inches

Maxco Chain Number	Chain Pitch	Height	Attachment Location	Thickness	RR Additional Weight/Att. lbs/pc
	P	S	B	T	
WD102	5.000	2.500	1.750	0.375	0.17
WD104	6.000	2.500	3.000	0.375	0.15
WD113	6.000	2.500	2.250	0.500	0.45
WD112	8.000	2.500	3.000	0.375	0.27
WD116	8.000	3.000	3.250	0.375	0.33
WD480	8.000	3.250	3.000	0.500	0.80

Dimensions subject to change

Wing Attachment Link Specifications

Chain Dimensions Are Given In Inches

Maxco Chain Number	Chain Pitch	Attachment Location	Thickness	Overall Width	Wing Attachment Additional Weight/Att. lbs/pc
	P	B	T	L	
WD102	5.000	1.750	0.250	14.25	2.13
WD104	6.000	2.250	0.250	11.50	1.95
WD110	6.000	2.250	0.250	17.00	2.15
WD112	8.000	2.250	0.250	17.00	2.27
WD113	6.000	2.250	0.250	17.00	3.35
WD116	8.000	3.125	0.250	22.00	3.47
WD480	8.000	3.000	0.375	22.00	6.13

Dimensions subject to change

Engineering Class Chains

Drop Forged Rivetless Chain

High Strength, Durable and Flexible Design Conveyor Chain

Drop Forged Rivetless Chains are typically used as overhead conveyors on automotive assembly lines, paint lines, appliance assembly lines and in the meat/poultry packaging industry. By virtue of its design, Drop Forged Rivetless Chain is ideal for overhead trolley conveyor applications. These chains are made from heat treated carbon or alloy steels.



Product

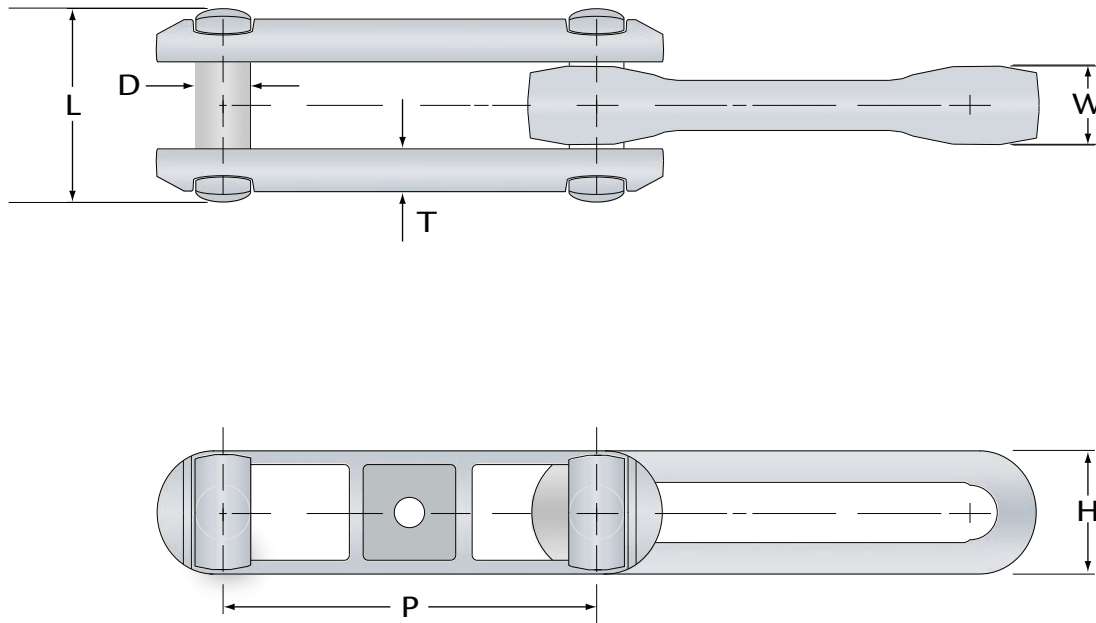
Page

Drop Forged Rivetless Chain

57

Drop Forged Rivetless Chains

X-Style Drop Forged Rivetless Chain



X-Style Drop Forged Rivetless Chain Specifications

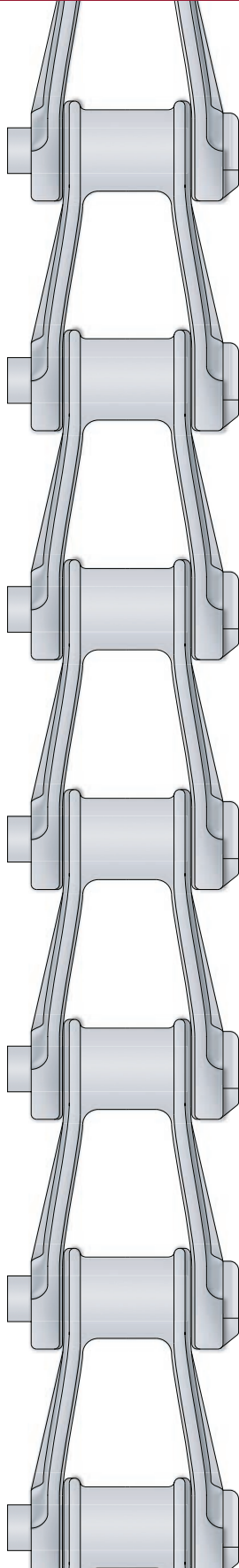
Chain Dimensions Are Given In Inches

Maxco Chain Number	Chain Pitch	Block Width	Pin Diameter	Overall Length	Thickness	Height	Working Load lbs	Average Ult. Strength lbs	Average Weight lbs/ft
	P	W	D	L	T	H			
X348	3.015	0.750	0.500	1.73	0.410	1.10	2,600	24,000	2.2
X458	4.031	1.000	0.625	2.19	0.470	1.41	4,000	48,000	3.2
X678	6.031	1.270	0.875	3.03	0.720	2.00	7,100	85,000	6.7

Dimensions subject to change

Note: "X" indicates the chain is designed to flex laterally on a shortened radius. Common usage is for overhead trolley or conveyors and specialty applications.

H-Class Mill Duty Chains



Pearlitic Malleable Iron Chain for Demanding Applications

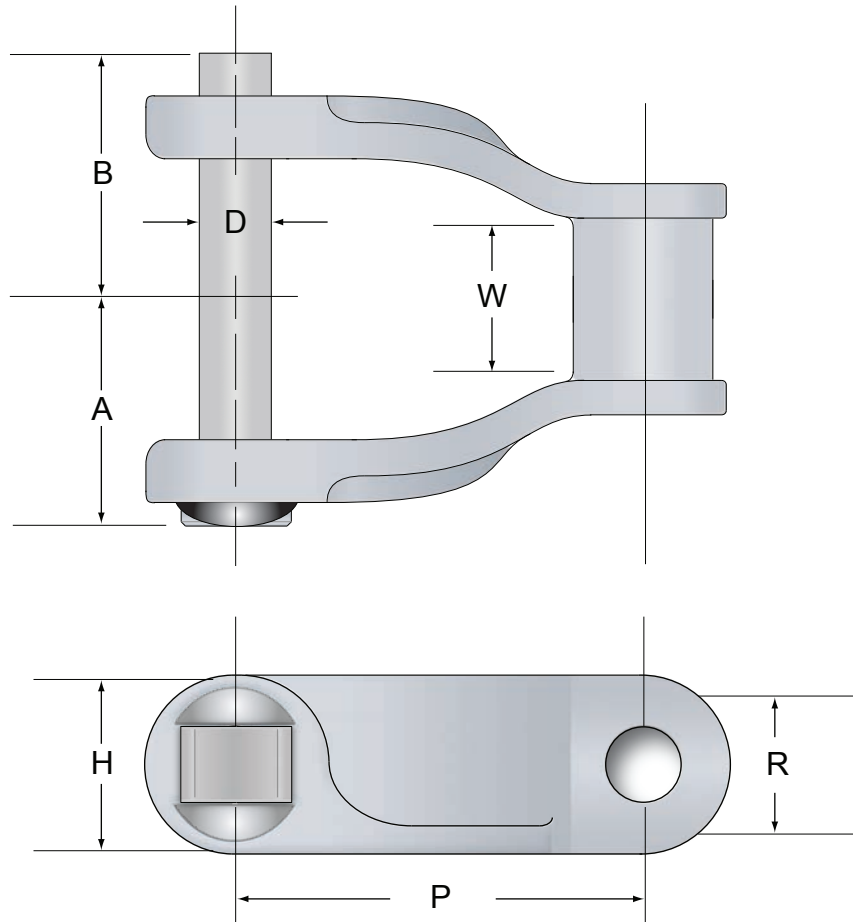
Maxco Mill Duty Chains of Pearlitic Malleable Iron are designed for demanding applications such as heavy drives and transfer conveyors in the pulp and paper industry and similar heavy industrial applications. The sidebars of the “H” class links feature a strengthened cross-section providing an added benefit of a wear surface to prolong chain service life when operated in troughs or over floors and slider beds.



Product	Page
H-Class Mill Chain	59
H-1 / H-2 Attachment	60
F-4 Attachment	61
K-1 Attachment	61
Transfer Chain	62

H-Class Mill Duty Chains

H-Class Mill Duty Plain Chain



H-Class Mill Chain Specifications

Chain Dimensions Are Given In Inches

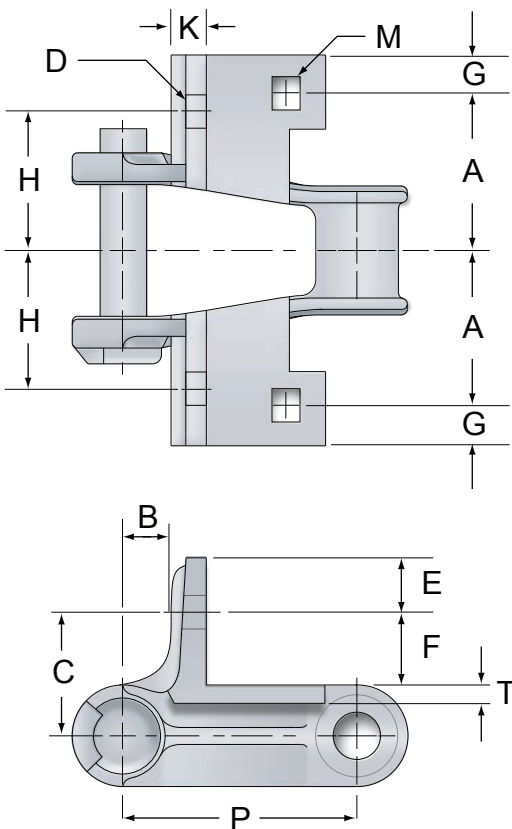
Maxco Chain Number	Chain Pitch	Width	Diameter	Height	Pin			Working Load lbs	Average Ultimate Strength lbs	Average Weight lbs/ft
	P	W	R	H	D	A	B			
H60	2.308	0.750	0.750	0.750	0.312	1.37	1.53	1,170	7,000	2.1
H74	2.609	1.000	0.875	1.000	0.375	1.53	1.65	1,580	10,000	3.0
H78	2.609	1.125	0.875	1.125	0.500	1.71	1.97	2,380	16,000	4.2
H82	3.075	1.250	1.219	1.250	0.562	2.00	2.16	3,080	20,000	5.5
H124	4.000	1.625	1.438	1.562	0.750	2.50	2.69	5,000	30,000	8.8

Dimensions subject to change

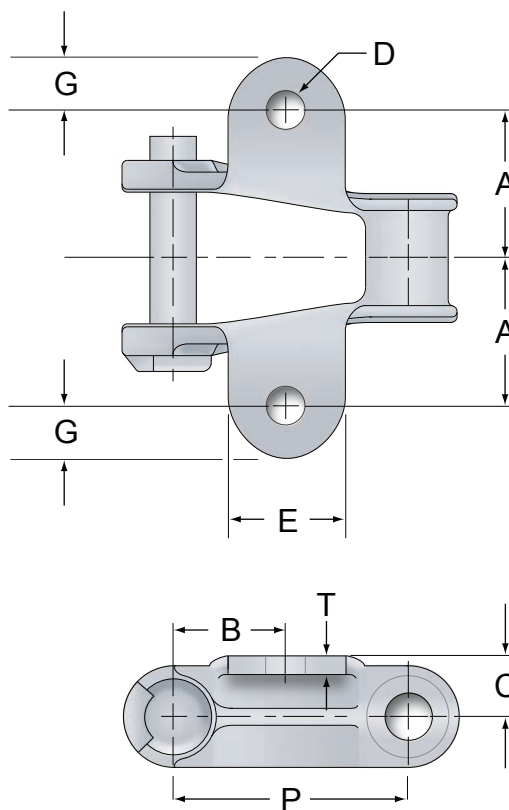
Engineering Class Chains

H-Class Mill Duty F-4 & K-1 Attachment Links

F-4 Attachment



K-1 Attachment



F-4 Attachment Link Specifications

Chain Dimensions Are Given In Inches

Maxco Chain Number	C/L Chain Att. Hole	Att. Location	Height	Hole Dia.	Overall Width	Att Hole Height	C/L Hole Att. Edge	C/L Chain Att. Hole	Thickness	Thickness	Hole Dia.
	A	B	C	D	E	F	G	H	K	T	M
H60	1.969	0.875	1.250	0.344	0.875	0.875	0.375	1.531	0.281	0.250	0.344
H74	2.063	1.187	1.375	0.344	0.875	0.875	0.375	1.625	0.375	0.250	0.344
H78	2.250	1.000	1.437	0.406	0.875	0.875	0.437	1.875	0.375	0.250	0.406
H82	2.500	1.250	1.500	0.406	0.875	0.875	0.437	2.062	0.375	0.313	0.406

Dimensions subject to change

K-1 Attachment Link Specifications

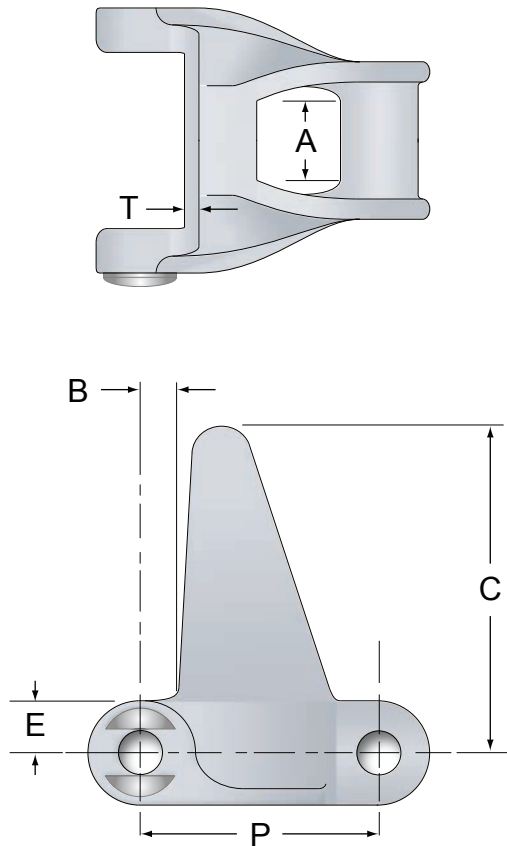
Chain Dimensions Are Given In Inches

Maxco Chain Number	C/L Chain Att. Hole	Att. Location	Height	Hole Dia.	Overall Width	C/L Hole Att. Edge	Thickness
	A	B	C	D	E	G	T
H60	1.500	1.063	0.750	0.313	1.125	0.500	0.188
H74	1.438	1.250	0.688	0.313	1.125	0.500	0.219
H78	2.000	1.250	0.813	0.375	1.375	0.500	0.219

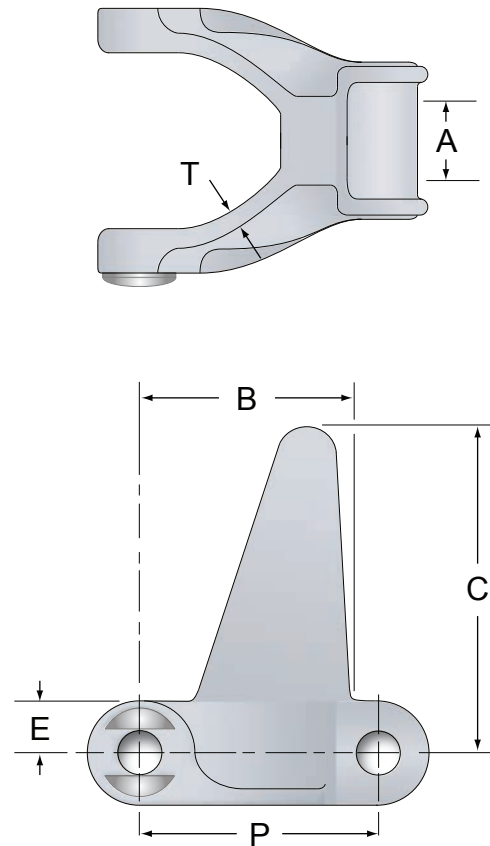
Dimensions subject to change

H-Class Mill Duty Attachments - Specifications

H-1 Attachment



H-2 Attachment



H-1 Attachment Link Specifications

Chain Dimensions Are Given In Inches

Maxco Chain Number	Chain Pitch	Pusher Width	Att. Location	C/L Chain Top of Attachment	C/L Chain Top of Link	Thickness
	P	A	B	C	E	T
H74	2.609	1.063	0.688	3.000	0.500	0.125
H78	2.609	1.125	0.500	3.625	0.563	0.125

Dimensions subject to change

H-2 Attachment Link Specifications

Chain Dimensions Are Given In Inches

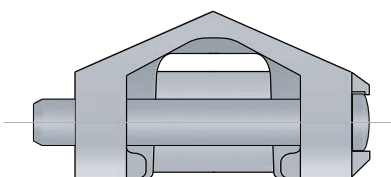
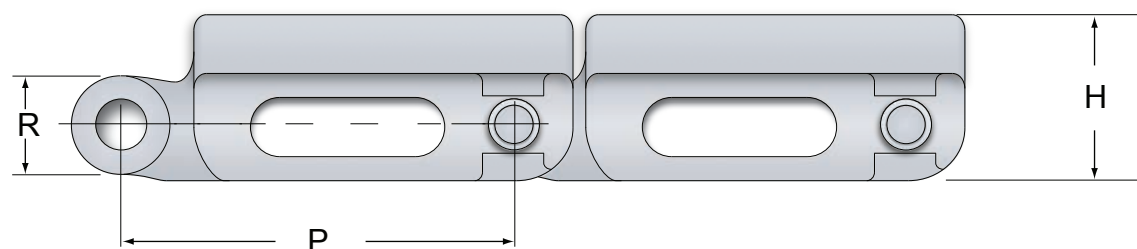
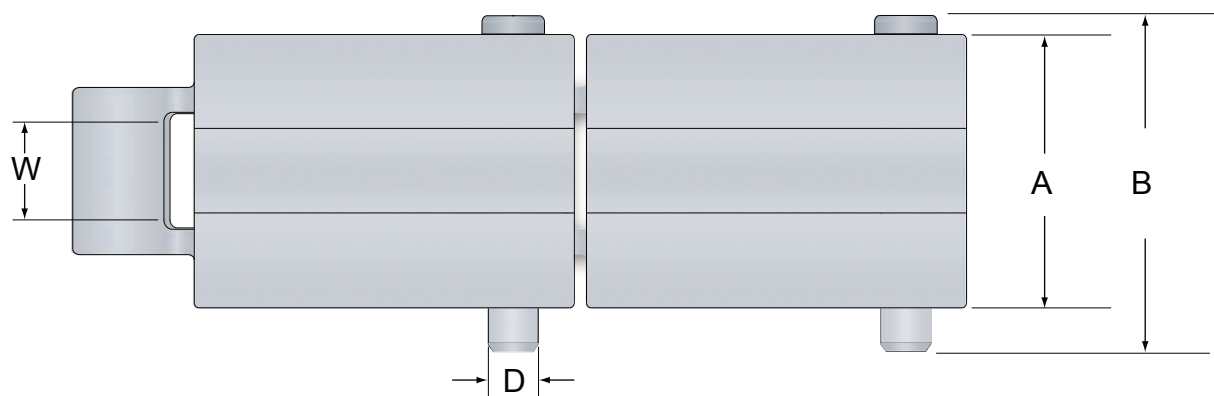
Maxco Chain Number	Chain Pitch	Pusher Width	Att. Location	C/L Chain Top of Attachment	C/L Chain Top of Link	Thickness
	P	A	B	C	E	T
H60	2.308	0.938	2.063	2.438	0.375	0.091
H74	2.609	1.063	2.719	3.157	0.500	0.094
H78	2.609	1.125	2.297	3.500	0.563	0.157

Dimensions subject to change

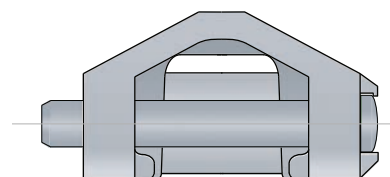
Engineering Class Chains

H-Class Mill Duty Chains - Attachments

Transfer Chain



"A" Style



"B" Style

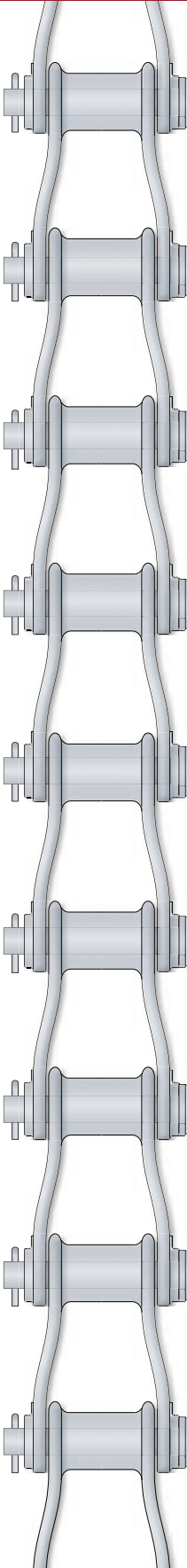
Transfer Chain Specifications

Chain Dimensions Are Given In Inches

Maxco Chain Number	Chain Type	Chain Pitch	Width	Diameter	Pin Diameter	Height	Width	Overall Width	Working Load lbs
		P	W	R	D	H	A	B	
H78A	A	2.609	1.125	0.875	0.500	1.000	2.75	3.13	2,380
H78B	B	2.609	1.125	0.875	0.500	1.000	2.75	3.13	2,380
C55A	A	1.631	0.688	0.719	0.375	0.750	1.19	2.00	1,110
C55B	B	1.631	0.688	0.719	0.375	0.750	1.19	2.00	1,110
C55D	D	1.631	0.688	0.719	0.375	0.750	1.19	2.00	1,110
H130A	A	4.000	1.000	1.000	0.500	1.125	2.81	3.25	2,110
H138B	B	4.000	1.000	1.000	0.500	1.125	2.81	3.25	2,110

Dimensions subject to change

400 Class Pintle Chain



A Highly Versatile Chain for Conveying or Drive Applications

Maxco Pintle Chain is ideal for conveying and power transmission applications where strength and trouble-free service are required while offering great economy. Designed to operate on the same style sprockets as Detachable Chain, highly wear resistant 400 Class Pintle Chain is often applied as a replacement where greater strength and speed are desired over Detachable Chain or other lighter duty products. Proven as a tough, dependable chain for a wide range of demanding applications 400 Class Pintle Chain is manufactured of pearlitic malleable iron and is available in both cottered or riveted construction.

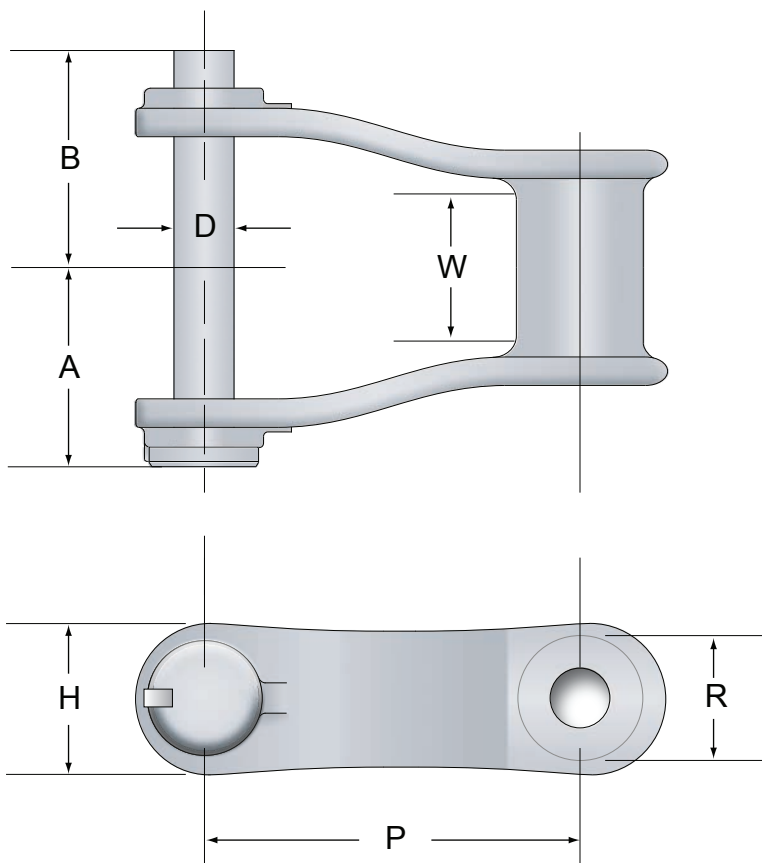


Product	Page
400 Class Plain Chain	64
K-1 / K-2 Attachments	65
F-2 Attachment	66
A-22 Attachment	66

Engineering Class Chains

400 Class Pintle Chain

400 Class Pintle Plain Chain



400 Class Pintle Chain Specifications

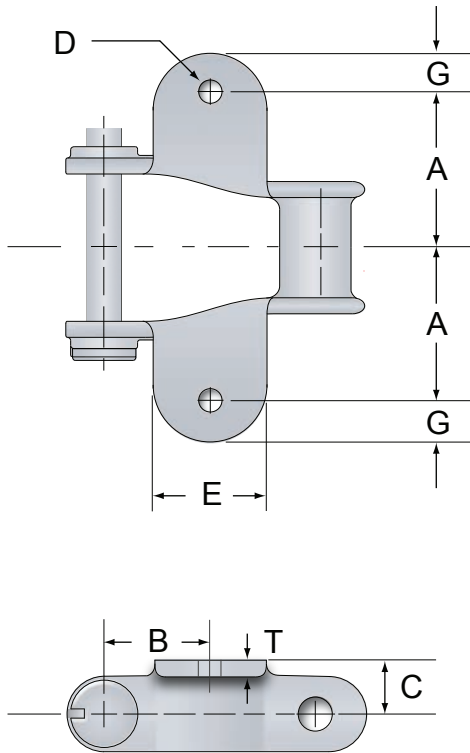
Chain Dimensions Are Given In Inches

Maxco Chain Number	Chain Pitch	Width	Diameter	Pin			Height	Working Load lbs	Average Ultimate Strength lbs/ft
	P	W	R	D	A	B	H		
442	1.375	0.625	0.563	0.313	.97	1.06	0.750	830	6,000
445	1.630	0.688	0.625	0.313	.97	1.06	0.750	830	6,000
452	1.506	0.625	0.688	0.375	1.03	1.19	0.844	970	7,000
455	1.630	0.688	0.625	0.375	1.03	1.19	0.844	1,060	7,300
462	1.634	0.813	0.719	0.438	1.25	1.31	0.938	1,500	9,000
477	2.308	0.688	0.813	0.438	1.16	1.22	1.000	1,400	9,600
488	2.609	0.938	0.875	0.438	1.44	1.50	0.938	1,800	11,000
4103	3.075	1.125	1.219	0.750	1.75	1.81	1.500	3,500	22,000

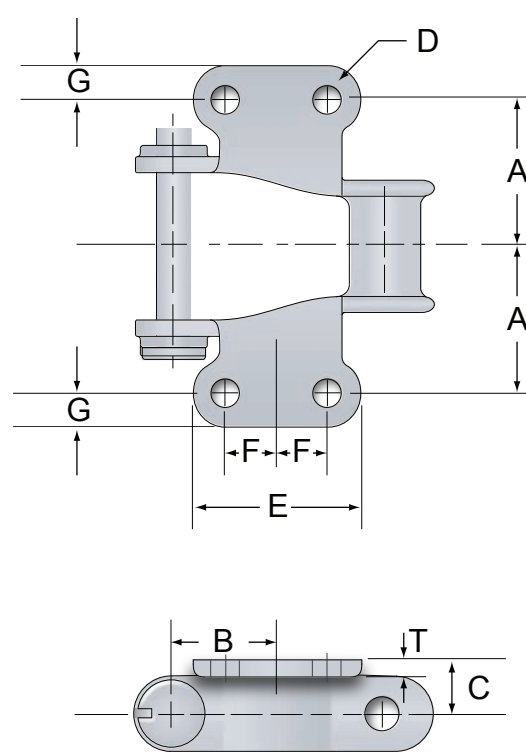
Dimensions subject to change

400 Class Pintle Chain Attachments

K-1 Attachment



K-2 Attachment



K-1 Attachment Link Specifications

Chain Dimensions Are Given In Inches

Maxco Chain Number	C/L Chain Att. Hole	Across Holes	Attachment Location	Attach Angle Location	Hole Diameter	Tab Width	C/L Hole to Tab End	Thickness
	A	2A	B	C	D	E	G	T
445	1.031	2.062	0.719	0.438	0.313	0.938	0.375	0.125
452	1.031	2.062	0.750	0.438	0.313	0.719	0.344	0.156
455	1.000	2.000	0.813	0.438	0.250	0.812	0.438	0.156
462	1.312	2.624	0.813	0.500	0.250	0.938	0.438	0.156
477	1.500	3.000	1.156	0.656	0.250	1.375	0.469	0.156
488	1.906	3.812	1.313	0.656	0.313	1.375	0.469	0.188

Dimensions subject to change

K-2 Attachment Link Specifications

Chain Dimensions Are Given In Inches

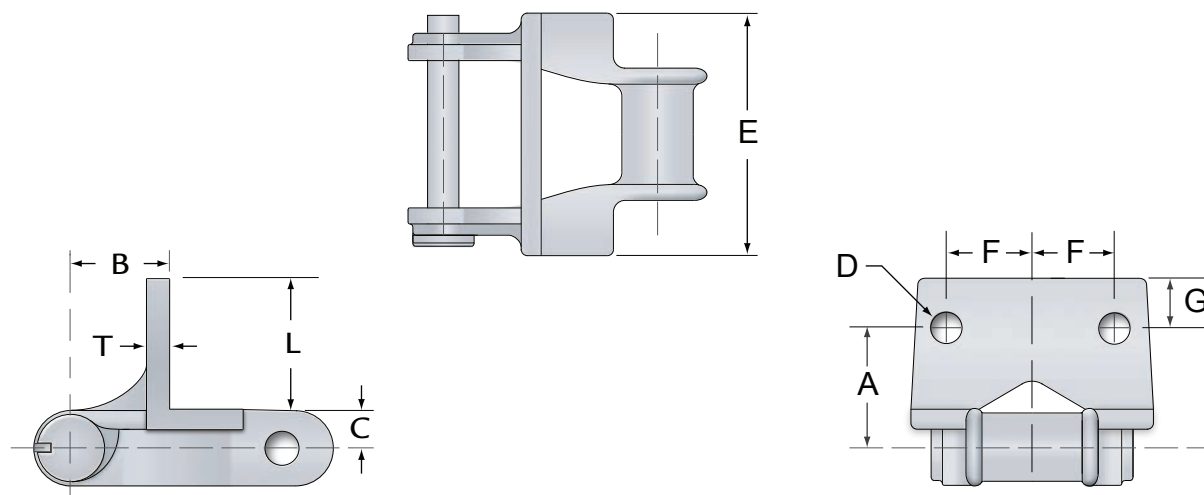
Maxco Chain Number	C/L Chain Att. Hole	Attachment Location	Attach Angle Location	Hole Diameter	Tab Width	Pitch	C/L Hole to Tab End	Thickness
	A	B	C	D	E	F	G	T
488	1.813	1.281	0.656	0.312	2.125	0.625	0.438	0.188

Dimensions subject to change

Engineering Class Chains

400 Class Pintle Chain F-2 & A-22 Attachments

F-2 Attachment



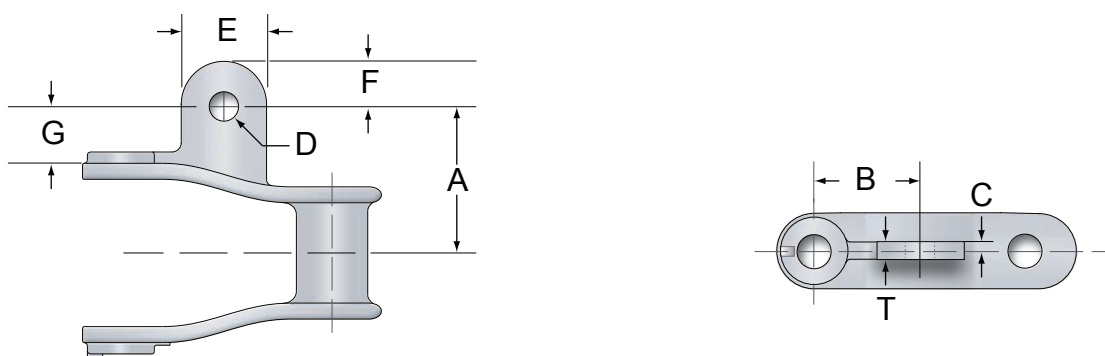
F-2 Attachment Link Specifications

Chain Dimensions Are Given In Inches

Maxco Chain Number	C/L Chain Att. Hole	Attachment Location	Attach Angle Location	Hole Diameter	Tab Width	Pitch	C/L Hole to Top Att	Height	Thickness
	A	B	C	D	E	F	G	L	T
455	0.938	0.625	0.422	0.188	1.813	0.531	0.313	0.813	0.156
477	1.438	0.750	0.500	0.313	2.625	0.875	0.563	1.500	0.250
488	1.375	1.188	0.469	0.313	2.875	1.016	0.594	1.500	0.281

Dimensions subject to change

A-22 Attachment



A-22 Attachment Link Specifications

Chain Dimensions Are Given In Inches

Maxco Chain Number	C/L Chain Att. Hole	Attachment Location	Attach Angle Location	Hole Diameter	Tab Width	C/L Hole Att. Ege	C/L Hole Sidebar	Thickness
	A	B	C	D	E	F	G	T
477	1.500	1.125	0.125	0.313	0.875	0.375	1.219	0.250

Dimensions subject to change

Engineering Class Chains

Sugar Mill Chains

Chains for the Sugar Mill Industry

Maxco Engineering Class Roller Conveyor Chains for Bagasse and Carrier Chain service along with Maxco's Drop Forged Rivetless, and Cast Combination Chains cover a wide range of service requirements. Chains are produced with high quality steels and precise manufacturing controls. Sugar Mills require highly durable chains for the demands of processing. Maxco meets these demands with quality product and service.

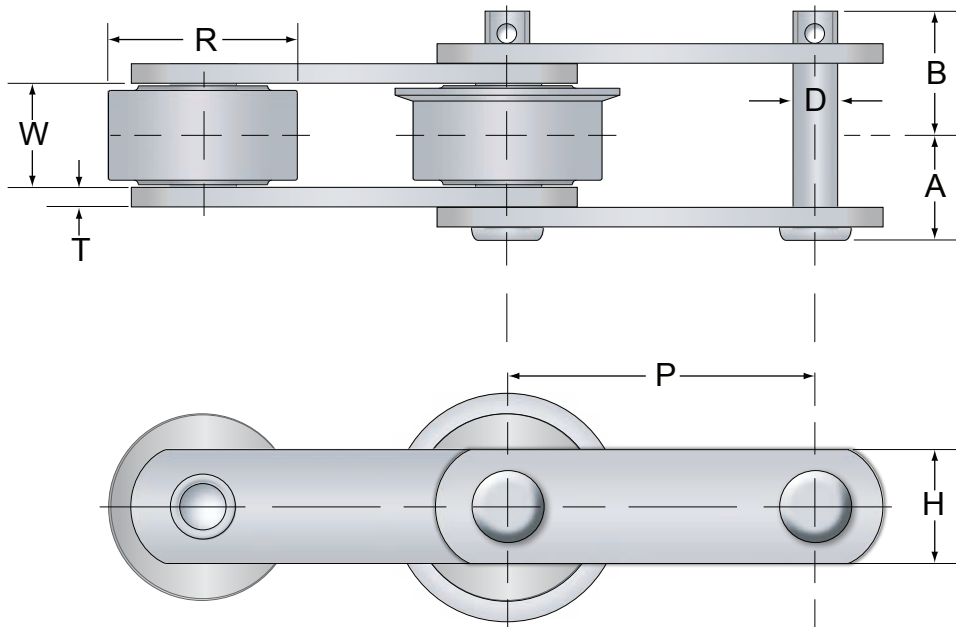


Product	Page
Bagasse Carrier Chain	68
Bagasse Carrier Attachment	69
Main Carrier Chain	70
Carrier Slats	71

Engineering Class Chains

Sugar Mill Chains

Bagasse Carrier Chain



Bagasse Carrier Chain Specifications

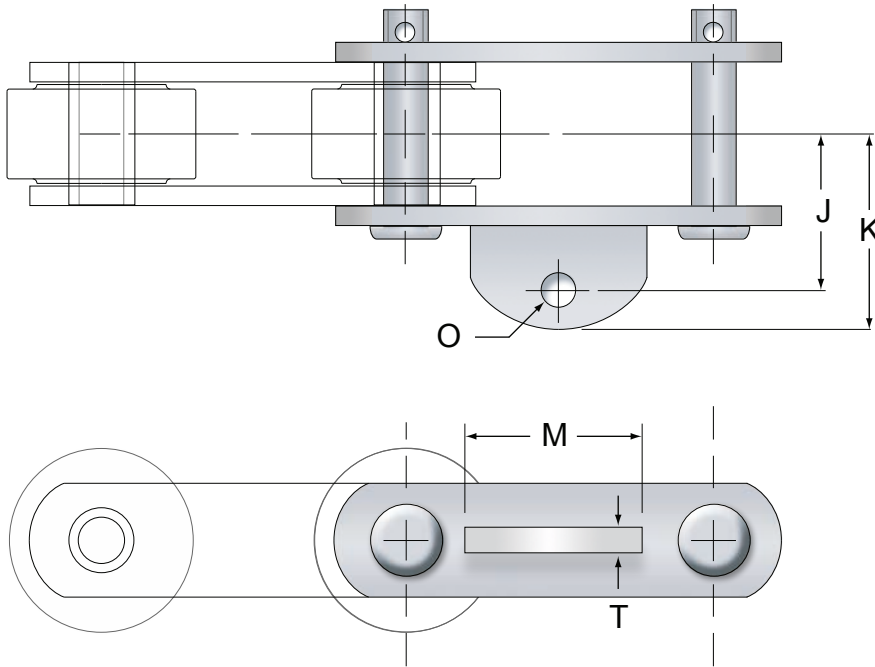
Chain Dimensions Are Given In Inches

Maxco Chain Number	Chain Pitch	Width	Diameter	Pin			Side Bar		Working Load lbs	Avg Ult Strength lbs	Average Chain Wgt lbs
	P	W	R	D	A	B	T	H			
	Straight Sidebar										
53R	3.000	1.000	1.500	0.438	1.03	1.25	0.188	1.125	2,100	13,000	3.9
95R	4.000	1.000	1.500	0.438	1.03	1.25	0.188	1.125	2,100	13,000	3.4
604R	6.000	1.313	2.000	0.563	1.34	1.59	0.250	1.500	3,500	21,000	5.4
86R	6.000	1.313	2.000	0.625	1.37	1.62	0.250	1.500	3,600	22,000	5.4
614R	6.000	1.375	2.500	0.750	1.78	2.03	0.375	2.000	5,600	38,000	11.0
631R	6.000	1.375	3.000	0.750	1.78	2.03	0.375	2.000	5,600	38,000	12.2
1131R	6.000	1.500	3.000	0.750	1.84	2.09	0.375	2.000	5,900	47,000	12.5
1604R	Offset Sidebar										
	6.000	1.093	3.000	0.500	1.28	1.62	0.250	1.250	2,750	24,000	5.4
	2184RX	6.000	1.375	3.000	0.875	1.66	2.03	0.375	2.000	6,500	75,000

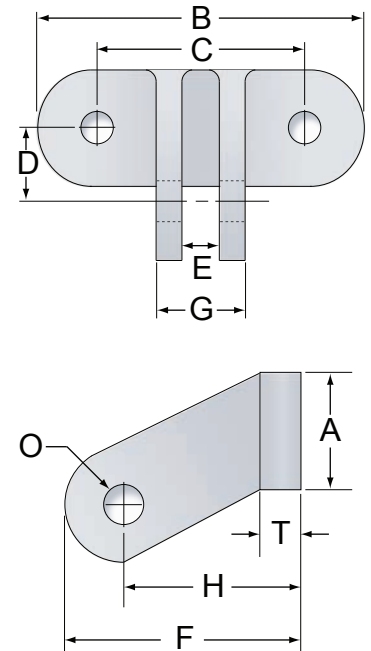
Dimensions subject to change

Bagasse Carrier Attachment

A-42 Attachment Link



Wing Attachment



A-42 Attachment Link Specifications

Chain Dimensions Are Given In Inches

Maxco Chain Number	Chain Pitch	Tab Width	Diameter	Thickness	C/L Chain Att. Hole	C/L Chain Att. Edge	A-42 Additional Weight lbs/pc
	P	M	O	T	J	K	
	Straight Sidebar						
53R	3.000	1.000	0.406	0.250	1.563	2.00	0.08
95R	4.000	1.250	0.406	0.375	1.625	2.13	0.07
1131R	6.000	2.000	0.656	0.500	2.844	3.84	0.65
604R	6.000	2.000	0.656	0.500	2.344	3.16	0.40
614R	6.000	2.000	0.656	0.500	2.750	3.75	0.65
631R	6.000	2.000	0.719	0.500	2.563	3.56	0.65
86R	6.000	2.000	0.531	0.375	2.344	3.16	0.55
Offset Sidebar							
1604R	6.000	2.000	0.656	0.500	2.31	3.06	1.30
2184RX	6.000	2.000	0.656	0.500	2.63	3.63	1.30

Dimensions subject to change

Wing Attachment Specifications

Chain Dimensions Are Given In Inches

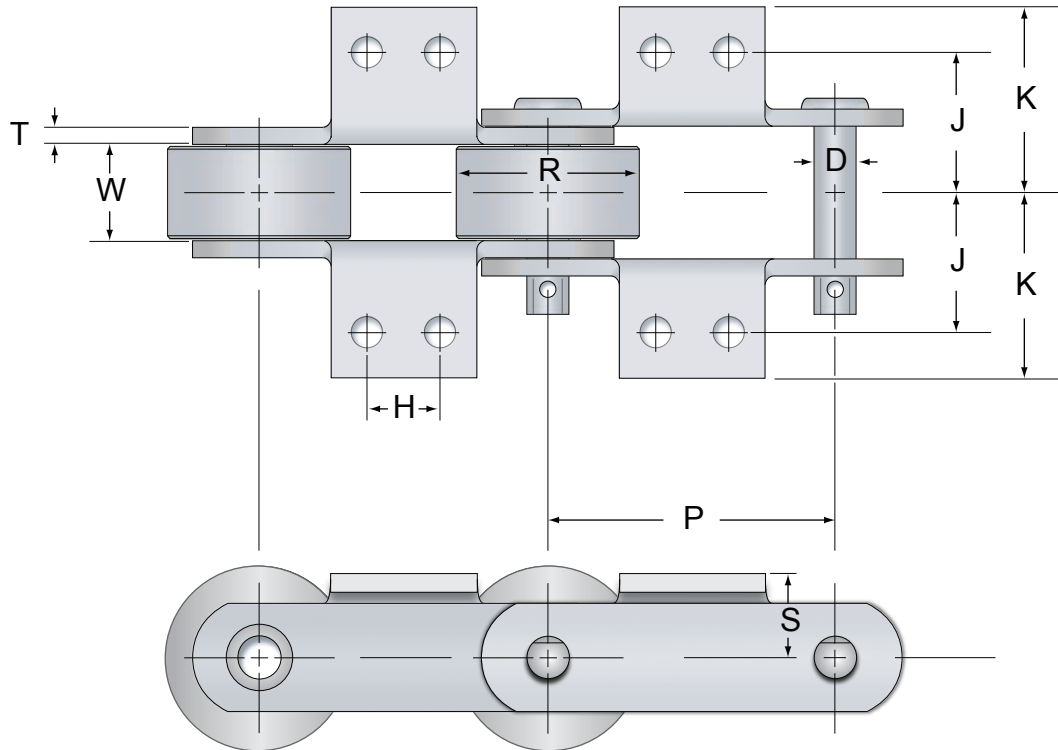
Maxco Wing Style	A	B	C	D	E	F	G	H	K	O	T	lbs/pc
2C	2.000	5.00	3.50	1.000	0.625	4.000	1.50	3.000	0.500	0.656	0.688	2.80
15C	1.750	3.50	2.50	0.813	0.438	1.813	1.00	1.125	0.313	0.406	0.281	0.70

Dimensions subject to change

Engineering Class Chains

Sugar Mill Chains

Main Carrier Base Chain K-2 Attachments



K-2 Attachment Specifications

Chain Dimensions Are Given In Inches

Maxco Chain Number	Chain Pitch	Inside Width	Roller Dia.	Pin Dia.	Side Bar		Attach. Hole		Height	Across Att Holes	Tab Width	Working Load lbs	Avg Ultimate Strength lbs	Avg Chain Weight lbs/ft
	P	W	R	D	T	N	H	O	S	2J	2K			
96R	6.000	1.500	2.750	0.750	0.375	2.000	3.000	0.531	1.625	4.375	6.000	5,900	47,000	16.0
96RX	6.000	1.500	2.750	0.750	0.375	2.000	3.000	0.531	1.625	4.375	6.000	5,900	70,000	16.0
2178RX	6.000	1.500	2.750	0.875	0.375	2.250	3.000	0.531	1.625	4.375	5.750	6,900	85,000	15.3
2198RX	6.000	1.500	2.750	0.875	0.500	2.250	3.000	0.531	1.625	4.375	6.625	7,700	100,000	18.5
896R	8.000	1.500	2.750	0.750	0.375	2.000	3.500	0.531	1.625	4.375	6.281	5,900	47,000	17.0
806R	8.000	1.813	3.000	1.000	0.500	2.500	3.500	0.656	2.188	5.188	7.593	9,800	95,000	22.5
800RX	8.000	1.813	3.500	1.000	0.500	3.000	4.000	0.656	2.188	5.188	7.093	9,800	125,000	26.0

Dimensions subject to change

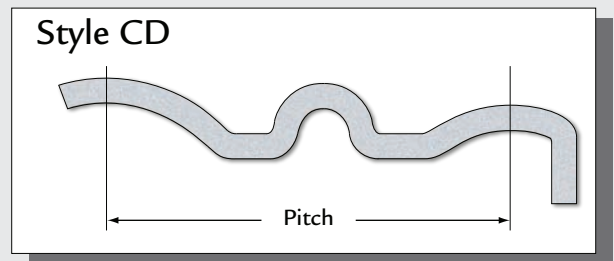
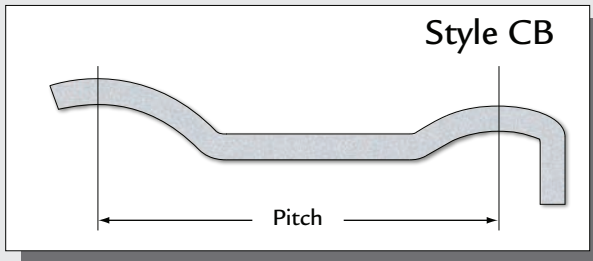
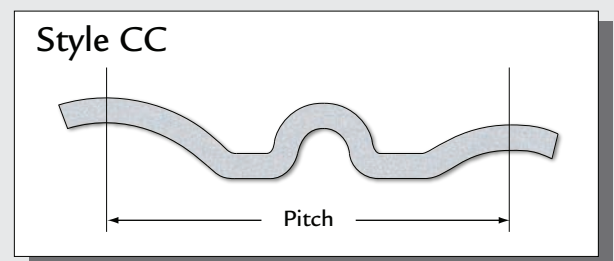
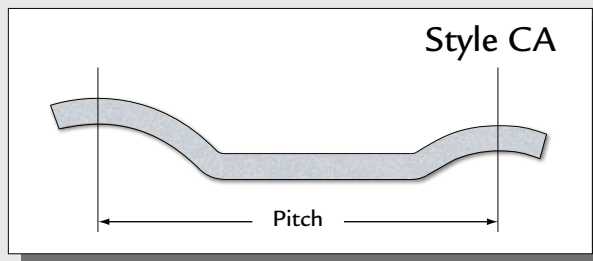


Cane Carrier Slats

Heavy duty metallic slats are designed to work seamlessly with Maxco Cane Carrier Chain. Better fit means increased service life and superior service.

Slats are available in the four common profiles and in both 3/16" and 1/4" thickness.

Specification weights are based on per lineal foot of slat length.



Cane Carrier Slats Specifications

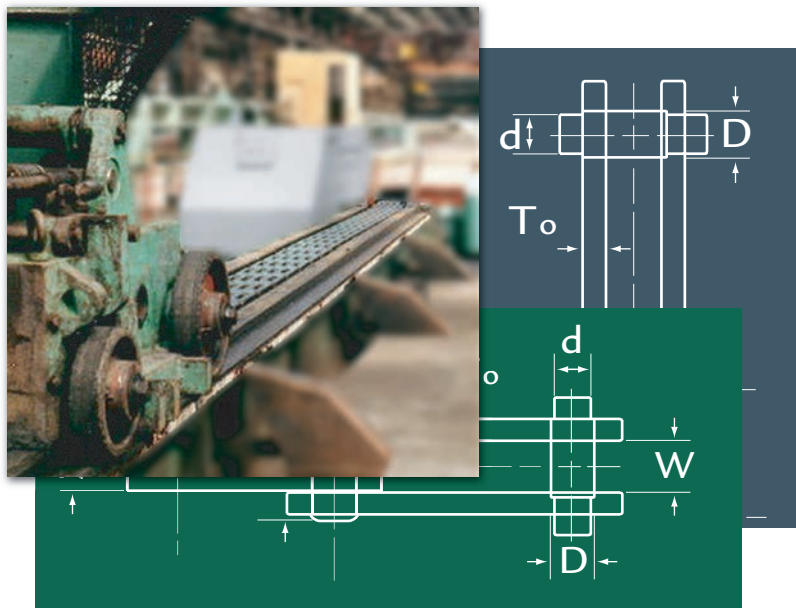
Maxco Part Number	Slat Thickness (inches)	Slat Weight 12" Wide (Lbs/ft)	Slat Thickness (inches)	Slat Weight 12" Wide (Lbs/ft)
CA	0.188	4.67	0.250	6.20
CB	0.188	5.27	0.250	7.03
CC	0.188	4.93	0.250	6.60
CD	0.188	5.60	0.250	7.43

Subject to change

Engineering Class Chains

Bar and Pin / Draw Bench Chains

Specialized High Strength Chains for
Low Speed / High Capacity Applications



Bar and Pin Chains are ideal for conveyors or high tension loading where speed is slow. Bar and Pin Chains do not utilize rollers or bushings, it is designed for strength.

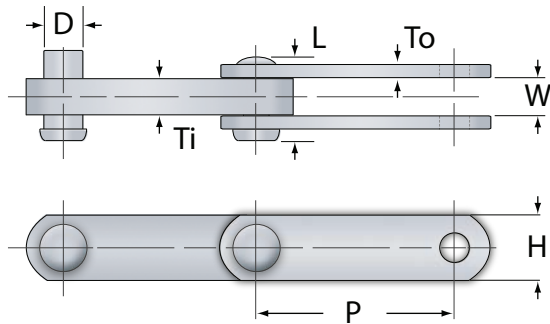
Draw Bench Chains are featured where metals are drawn through a die to be formed either in tube or extruded shape. Heat and high loads are well within the design capability of this product.

Product	Page
Bar and Pin Chain	73
Draw Bench Chain	74
Double Flex Chain	75

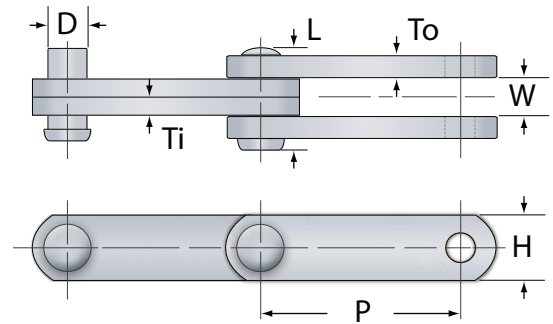
Engineering Class Chains

Bar and Pin Chain

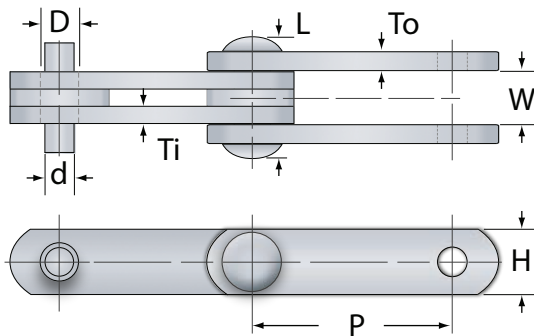
Style 1



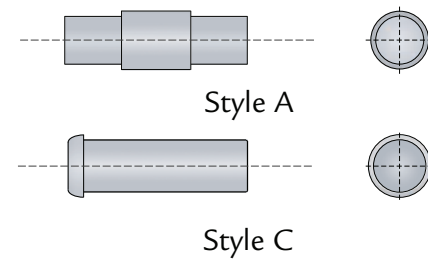
Style 3



Style 2



Pin Styles



Bar and Pin Chain Specifications

Chain Dimensions Are Given In Inches

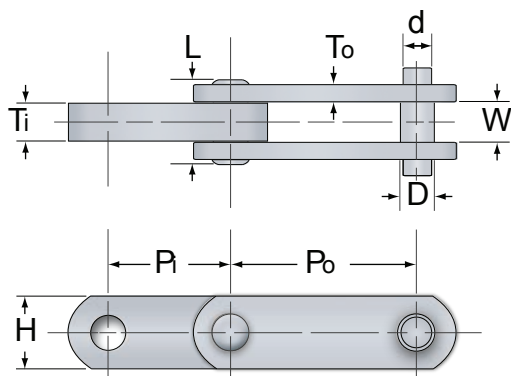
Maxco Chain Number	Chain Pitch	Chain Style	Inside Width	Pin Diameter	Pin Diameter	O/L Pin Length	Pin Style	Sidebar			Avg Ultimate Strength lbs	Avg Chain Weight lbs/ft
	P		W	D	d	L		To	Ti	H		
10475	4.00	1	1.063	1.125	-	2.63	C	0.500	1.000	2.00	75,000	11.0
10630	6.00	1	0.938	0.625	-	2.31	C	0.438	0.875	1.50	30,700	5.1
10660	6.00	1	1.031	1.000	-	2.75	A	0.500	1.000	2.00	60,000	10.7
108170	8.00	1	1.563	1.375	-	3.75	C	0.750	1.500	2.50	170,000	17.4
108400	8.00	1	2.625	1.500	-	6.06	C	1.250	2.500	3.50	400,000	33.0
109100	9.00	1	1.563	1.500	-	4.13	C	0.750	1.500	3.00	100,000	21.0
110140	10.00	1	1.563	1.500	1.375	3.06	C	0.750	1.500	3.00	140,000	19.8
112250	12.00	1	2.063	1.500	-	5.00	C	1.000	2.000	3.00	250,000	28.4
20460	4.00	2	1.063	1.000	-	2.75	C	0.500	0.500	2.00	60,000	10.4
20675	6.00	2	1.563	1.000	0.875	3.75	C	0.750	0.750	2.00	75,000	13.0
20860	8.00	2	1.563	0.875	-	3.69	C	0.750	0.750	2.00	60,000	12.7
21296	12.00	2	1.531	1.125	-	3.38	A	0.500	0.750	2.50	96,000	13.8
30630	6.00	3	1.156	0.625	-	2.50	C	0.375	0.375	1.50	30,700	5.2
30646	6.00	3	0.875	0.625	-	2.25	C	0.375	0.375	1.50	46,000	5.1
30660	6.00	3	1.063	0.875	-	2.69	C	0.500	0.500	2.00	60,000	9.1

Dimensions subject to change

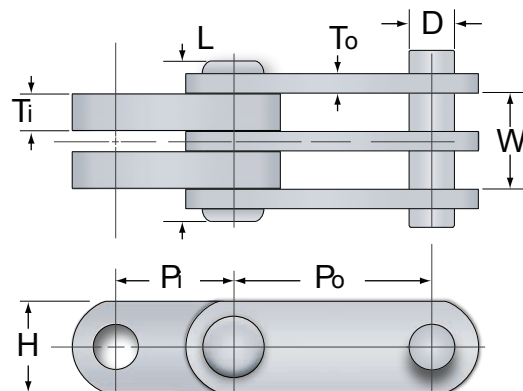
Engineering Class Chains

Draw Bench Chain

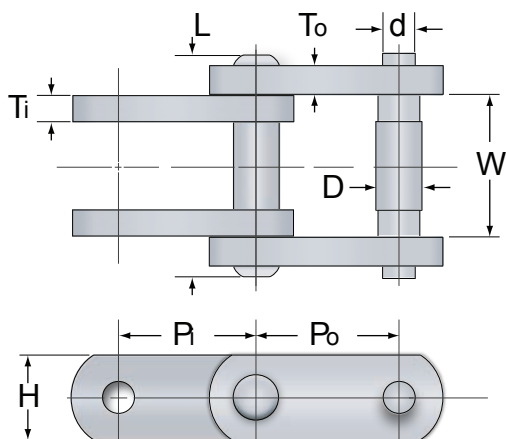
Style 1



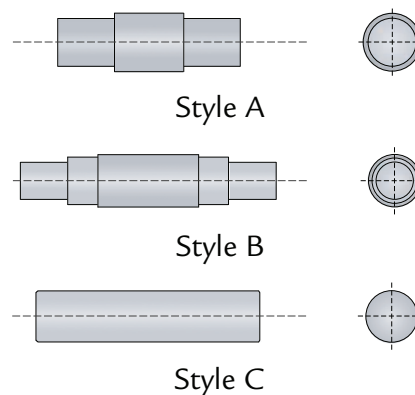
Style 3



Style 2



Pin Styles



Draw Bench Chain Specifications

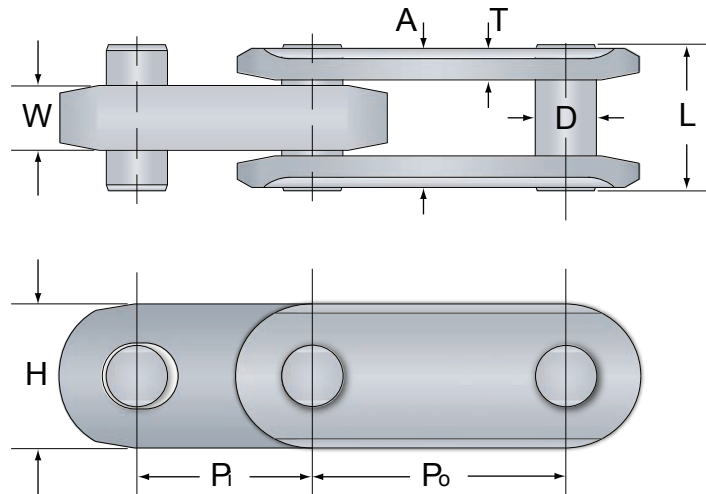
Chain Dimensions Are Given In Inches

Maxco Chain Number	Chain Pitch		Style	Inside Width	Diameter	Diameter	O/L Pin Length	Pin Style	Sidebar			Avg Ultimate Strength lbs	Avg Chain Weight lbs/ft
	Block Link	Outside Link							To	Ti	H		
	Pi	Po		W	D	d	L						
103100	3.00	4.50	1	1.063	0.875	0.625	3.19	A	0.500	1.000	2.000	100,000	9.9
103110	3.00	3.00	1	0.781	1.000	0.750	1.84	A	0.375	0.750	1.750	110,000	13.5
103200	3.00	5.00	1	1.313	1.250	1.125	2.69	A	0.625	1.250	2.500	200,000	12.4
103150	3.25	6.00	1	1.313	1.250	1.125	2.78	A	0.625	1.250	2.500	150,000	15.3
104400	4.00	8.00	1	1.875	1.750	1.625	4.13	A	1.000	1.750	3.500	400,000	33.0
104220	4.25	8.50	1	1.562	2.000	1.875	3.44	A	0.750	1.500	4.000	220,000	32.6
104500	4.25	8.50	1	2.063	2.000	1.875	4.31	A	1.000	2.000	4.000	500,000	39.0
203100	3.00	3.00	2	1.250	0.875	0.625	3.00	B	0.375	0.375	1.750	100,000	7.5
205380	5.00	5.00	2	3.000	1.875	1.625	7.44	B	1.000	1.000	3.000	380,000	39.8
304800	4.25	8.50	3	4.094	2.000	-	6.38	C	1.000	1.500	4.000	800,000	61.2
305650	5.00	9.75	3	4.375	2.188	-	6.38	C	1.000	1.625	4.500	650,000	60.0

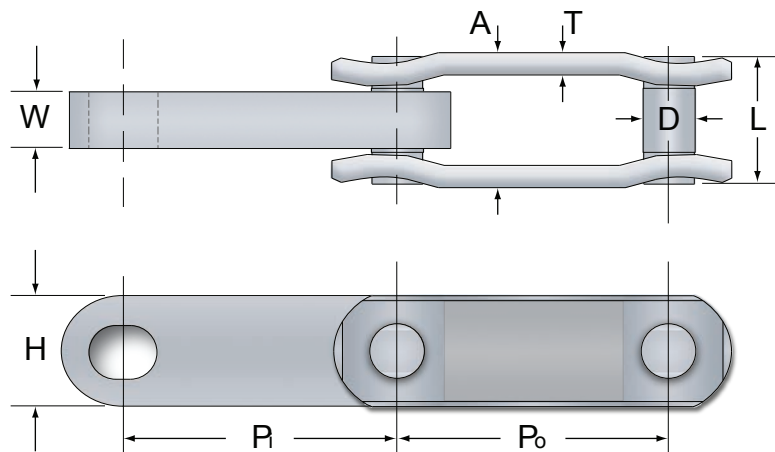
Engineering Class Chains

Double Flex Chain

DF3498



DF3500 - DF3910



Double Flex Chain Specifications

Chain Dimensions Are Given In Inches

Maxco Chain Number	Chain Pitch		Width	Pin		Width	Sidebar		Minimum Flex Radius	Working Load lbs	Avg Ultimate Strength lbs	Avg Chain Weight lbs/ft
	Block Link	Outside Link										
	Pi	Po	W	D	L	A	T	H	r			
DF3498	1.750	2.500	0.640	0.625	1.50	1.45	0.313	1.400	20	4,000	50,000	3.9
DF3500	2.500	3.000	0.625	0.562	1.46	1.50	0.250	1.250	20	4,000	48,000	3.3
DF3910	3.000	3.000	0.625	0.562	1.46	1.50	0.250	1.250	20	4,000	48,000	3.0

Dimensions subject to change

Engineering Class Chains

Meat Processing Chains

Delivering Uncompromising Quality

Providing an essential service, Meat Packing requires equipment with proven durability and made to the highest quality standards to insure dependable service with minimal downtime. Maxco meets this challenge drawing on years of chain design and manufacturing expertise to supply top quality products at an economical price. Depend on Maxco for your next requirement . . . experienced, dedicated customer service representatives along with knowledgeable and professional field sales engineers are ready to assist you.



Product

Meat Processing Chains

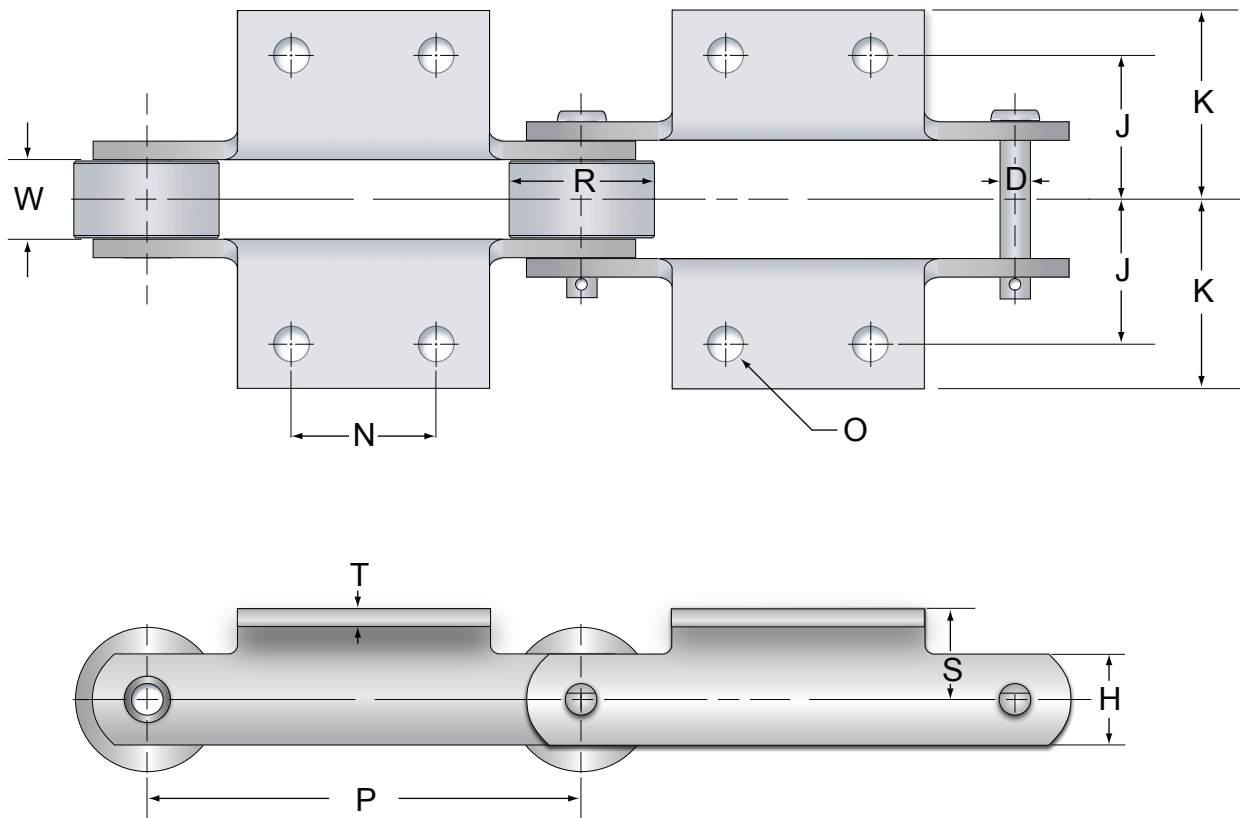
Page

77

Engineering Class Chains

Meat Processing Chain

Meat Processing Chains



Meat Processing Chains

Chain Dimensions Are Given In Inches

Maxco Chain Number	Chain Pitch P	Inside Width W	Roller Dia R	Pin Dia D	Sidebar		Attach. Hole		Att Plate Height S	Across Att Holes 2J	Att Width 2K	Rated Work Load lbs	AUS** lbs	Avg Chain Wgt lbs/ft
					Thick T	Hgt H	Pitch N	Dia O						
DS1113	4.040	1.313	2.000	0.625	0.313	1.500	1.500	0.406*	1.250	4.125	5.500	3,150	26,000	11.4
DS196R	6.000	1.125	2.000	0.438	0.250	1.250	2.000	0.406	1.250	4.000	5.250	1,950	18,000	7.5
DS6272	6.000	1.313	2.250	0.625	0.313	1.500	2.000	0.406*	1.375	4.000	5.250	3,150	26,000	9.2

DS Series chains are made with Delrin inserts in the rollers.

Bushings are stainless steel (heat treated).

Pins, rollers and side bars are zinc plated.

* Countersunk Attachment Holes

** Average Ultimate Strength

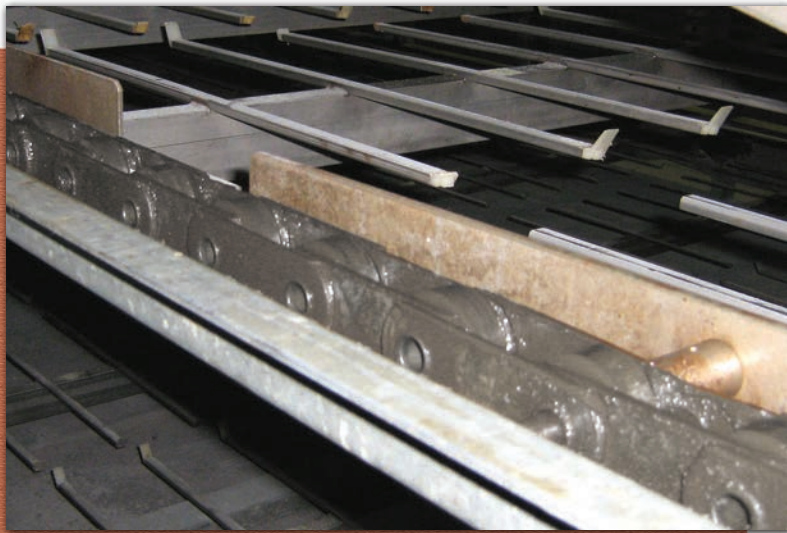
Dimensions subject to change

Engineering Class Chains

Oven Chain for Bakeries

Challenging Application Requires Dependable Chain

Maxco Engineering Class Oven Chain for Bakeries features the highest quality material and construction to insure a strong product resistant to the fatigue of high temperature oven applications. Maxco demonstrated ability insures consistent quality to meet these demanding requirements. Maxco representatives will help engineer your next oven chain requirement and provide the correct selection. Specialty Chains and additional Bakery Chains are also available from Maxco Maxco Ltd.

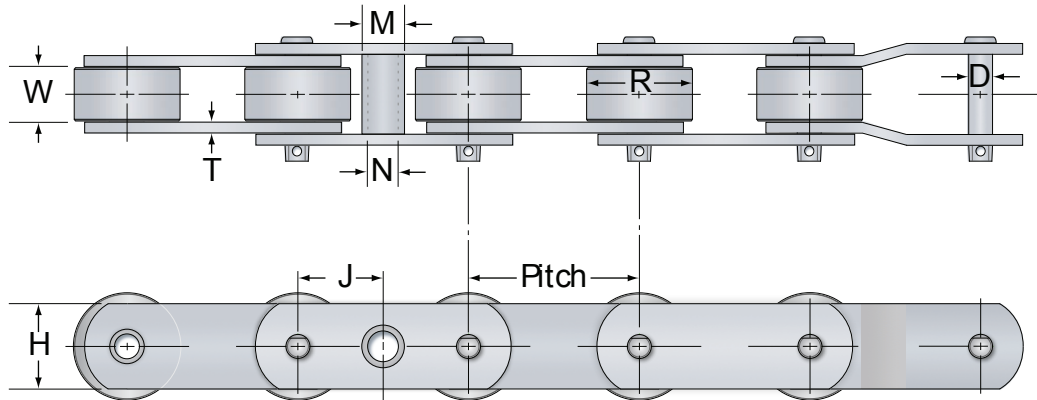


Product	Page
4034 - OC	79
4041 - OC	79
6086 - OC	80
160F - SF	80

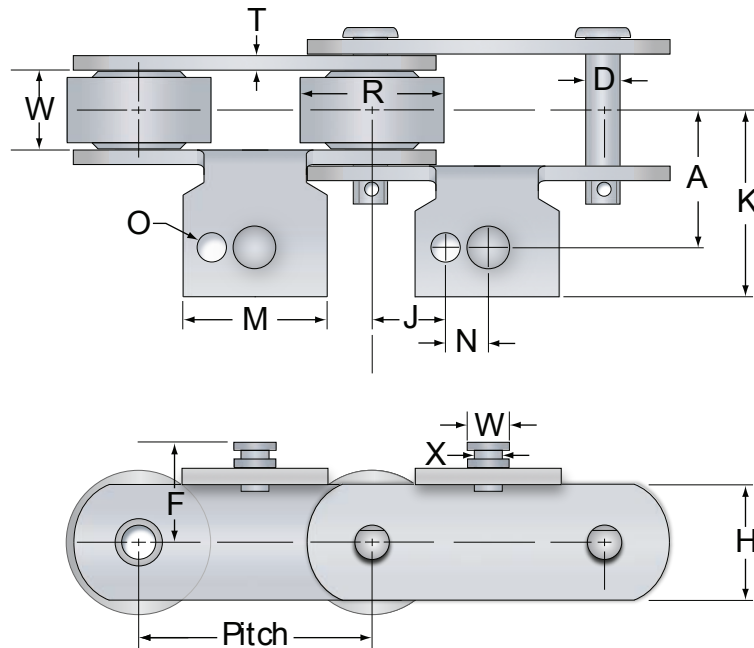
Engineering Class Chains

Oven Chains for Bakeries

4034-OC



4041-OC



Chain Specifications

Chain Dimensions Are Given In Inches

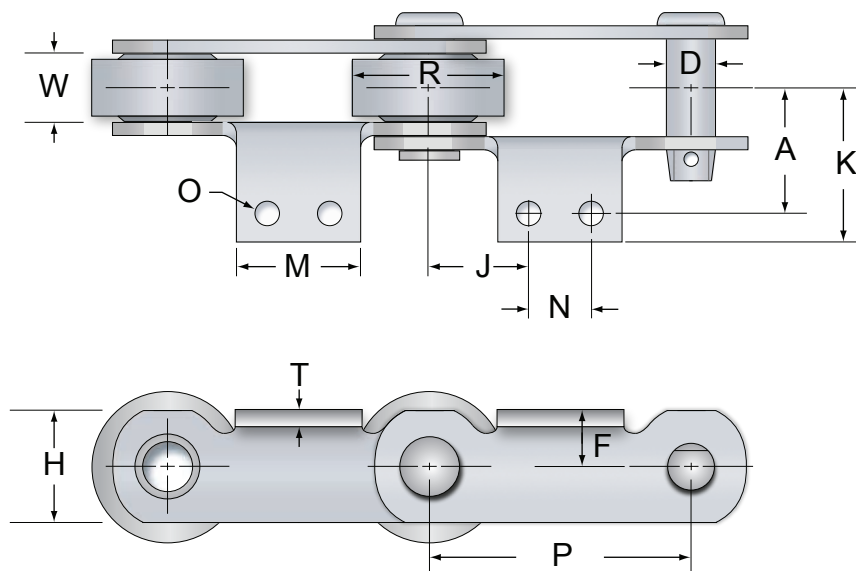
Maxco Chain Number	Chain Pitch	Inside Width	Dia.	Dia.	Sidebar		Attachment Dimensions									Work. Load lbs	Avg Ultimate Strength lbs	Avg Chain Wgt lbs/ft
	P	W	R	D	T	H	M	N	J	A	K	F	E	X	O			
4034-OC	4.000	1.063	2.500	0.625	0.250	2.000	1.313	1.150	2.000	-	-	-	-	-	-	3,400	31,000	9.6
4041-OC	4.000	1.375	2.500	0.625	0.250	2.000	2.500	0.750	1.250	2.375	3.270	1.563	0.740	0.500	0.469	4,100	31,000	11.5

Dimensions subject to change

Engineering Class Chains

Oven Chains for Bakeries

6086-OC



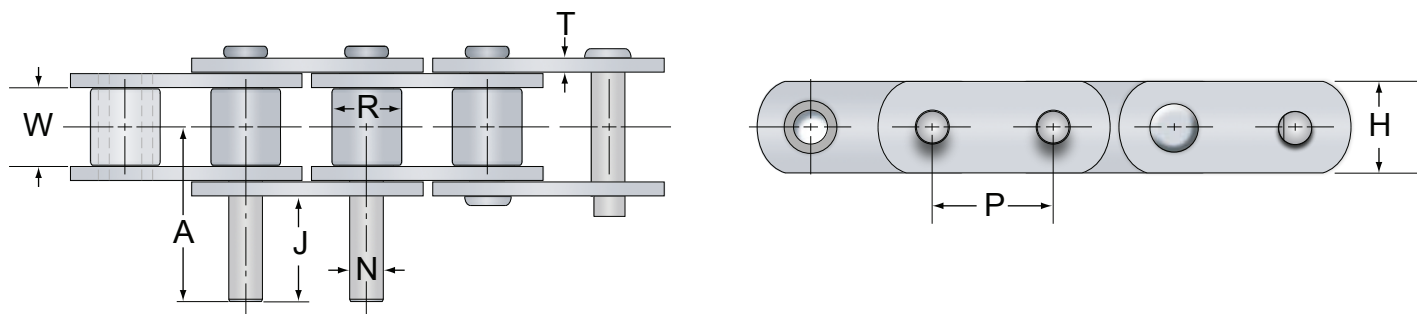
6086-OC Specifications

Chain Dimensions Are Given In Inches

Maxco Chain Number	Chain Pitch	Inside Width	Dia	Dia	Sidebar		Attachment Dimensions							Work. Load lbs	Avg Ult. Strgth lbs	Avg Chain Wgt lbs/ft
	P	W	R	D	T	H	M	N	J	A	K	F	O			
6086-OC	6.000	1.563	3.500	1.125	0.313	2.500	2.875	1.500	2.250	2.875	3.700	1.188	0.531	8,600	60,000	16.8

Dimensions subject to change

160F-SF



160F-SF Specifications

Chain Dimensions Are Given In Inches

Maxco Chain Number	Chain Pitch	Inside Width	Dia	Dia	Sidebar		Attachment Dimensions			Working Load lbs	Avg Ultimate Strength lbs	Avg Chain Weight lbs/ft
	P	W	R	D	T	H	N	J	A			
160F-SF	2.000	1.250	1.125	0.563	0.250	1.500	0.563	1.750	2.910	3,500	21,000	6.2

Dimensions subject to change

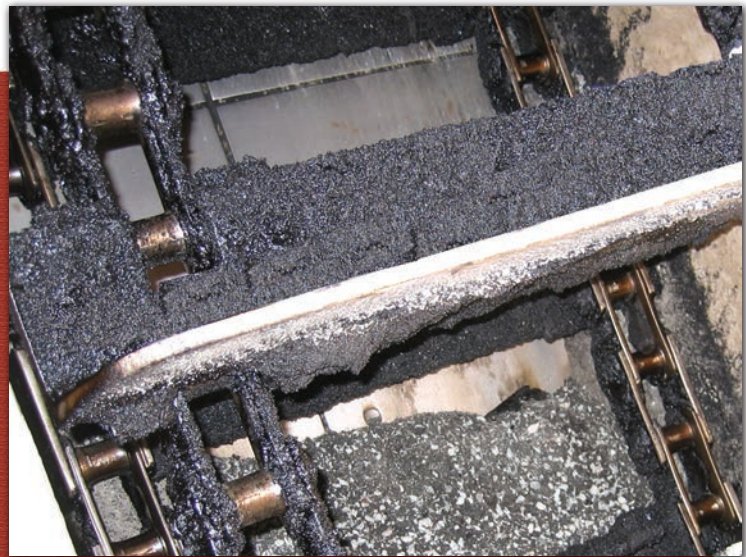
Engineering Class Chains

Asphalt Chains

Asphalt Batch Plant Chains

Asphalt Production Plants create some of the harshest conditions for operating chains in conveyor and drive applications. Maxco's line of Asphalt Chains are designed to meet the demand head on with quality economical products that perform exceptionally.

For your next requirement contact your nearest Maxco representative for a competitive quote.



Product

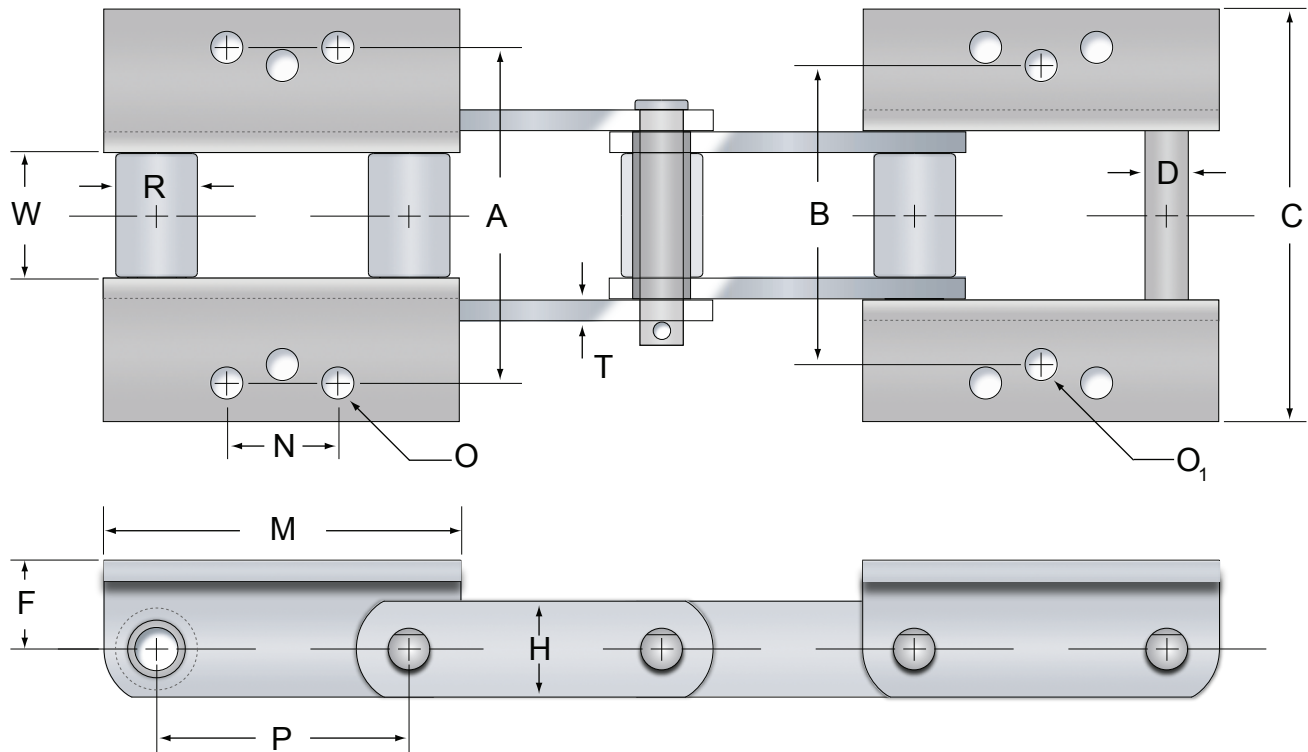
Page

K-3 Attachment	82
K-2 Attachments	83
K-33 Attachments	83
K-24 Attachment	84
MM-1 Attachment	85

Engineering Class Chains

Asphalt Chain & Attachments

K-3 Attachment



Asphalt Chain Specifications

Chain Dimensions Are Given In Inches

Maxco Chain Number	Chain Pitch	Inside Width	Roller Dia	Pin Dia	Sidebar		Work. Load lbs	Avg Ult Strg lbs	Std Att Type	Std Att Space	K-2, K-3, K-33, K-24, MM-1 Attachments							
											A	B	C	F	M	N	O	O ₁
3945	4.000	2.000	1.250	0.625	0.313	1.500	5,700	45,000	K3	Ev 3rd	5.313	4.750	6.500	1.380	5.625	1.750	0.469	0.469
3952	4.000	2.000	1.438	0.750	0.375	1.750	8,200	62,000	K-2 ¹	Ev 3rd	5.500	-	6.750	1.630	6.000	1.750	0.531	-
3957	4.000	1.500	1.375	0.625	0.313	1.625	4,600	45,000	K-2	Ev 3rd	5.313	-	6.000	1.375	5.625	2.500	0.563	-
2102	4.000	2.219	1.500	0.625	0.375	1.500	6,500	56,500	K-2	Ev 3rd	5.313	-	6.750	1.125	5.625	1.750	0.563	-
3433	4.000	2.078	1.375	0.625	0.375	1.500	6,200	56,500	K-33	Ev 2nd	5.312	5.312	6.875	1.000	4.250	2.250	0.531	0.812
3950	4.038	2.000	1.375	0.625	0.313	1.500	5,700	45,000	K-3	Ev 3rd	5.313	4.750	6.500	1.375	5.680	1.750	0.469	0.469
2268	4.083	2.000	1.625	0.750	0.375	2.250	7,200	100,000	K-2	Ev 3rd	5.250	-	6.750	2.000	6.250	1.750	0.531	-
4604	4.604	2.000	1.375	0.625	0.313	1.500	5,700	45,000	K-3	Ev 3rd	5.313	4.750	6.500	1.375	6.250	1.750	0.390	0.390
3935	5.187	2.281	2.000	0.875	0.375	2.500	9,300	102,000	K-2 ²	Ev 3rd	6.313	-	7.750	2.000	7.750	2.313	0.531	-
3940	6.000	2.000	1.625	0.750	0.375	2.250	7,200	90,000	K-2	Ev 2nd	6.250	-	7.500	2.000	8.250	2.313	0.531	-
9856	6.000	3.000	2.750	1.000	0.500	2.500	14,000	140,000	MM-1	Ev 2nd	2.750	-	-	1.840	3.063	0.813	-	-
9856	6.000	3.000	2.750	1.000	0.500	2.500	14,000	140,000	K-24	Ev 2nd	7.250	-	9.500	1.880	7.250	2.500	0.750	-

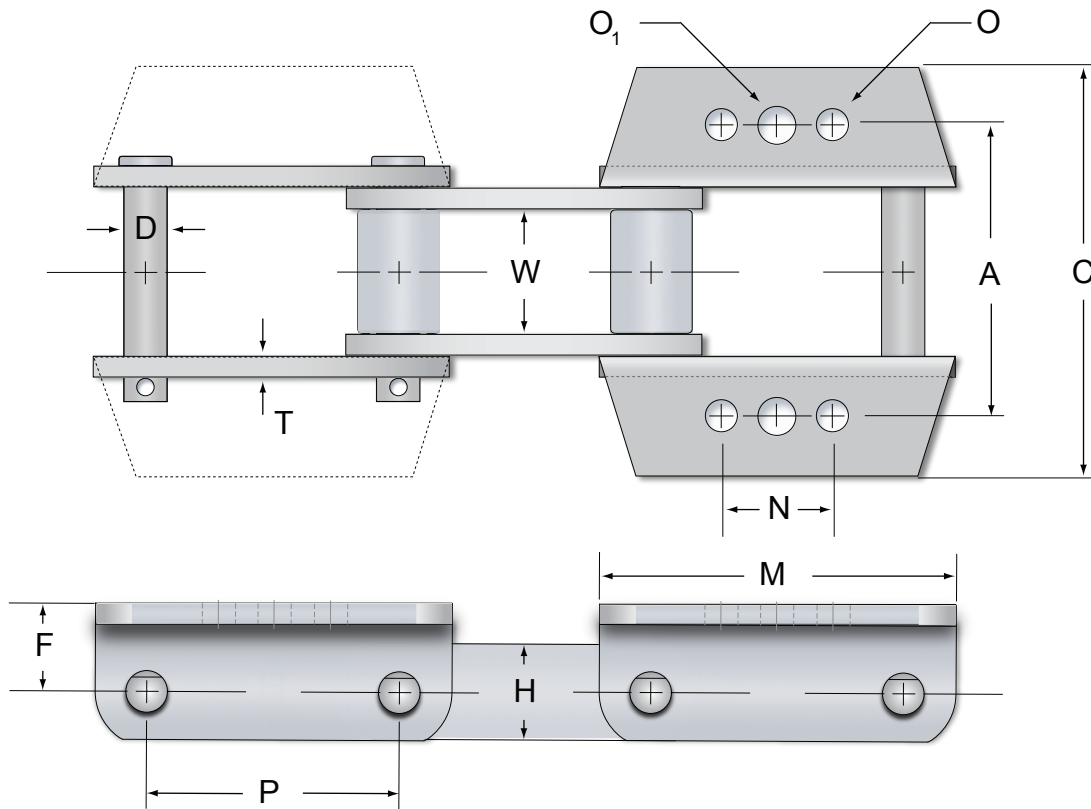
¹ K-2 with Square Holes

² K-2 and Offset Link

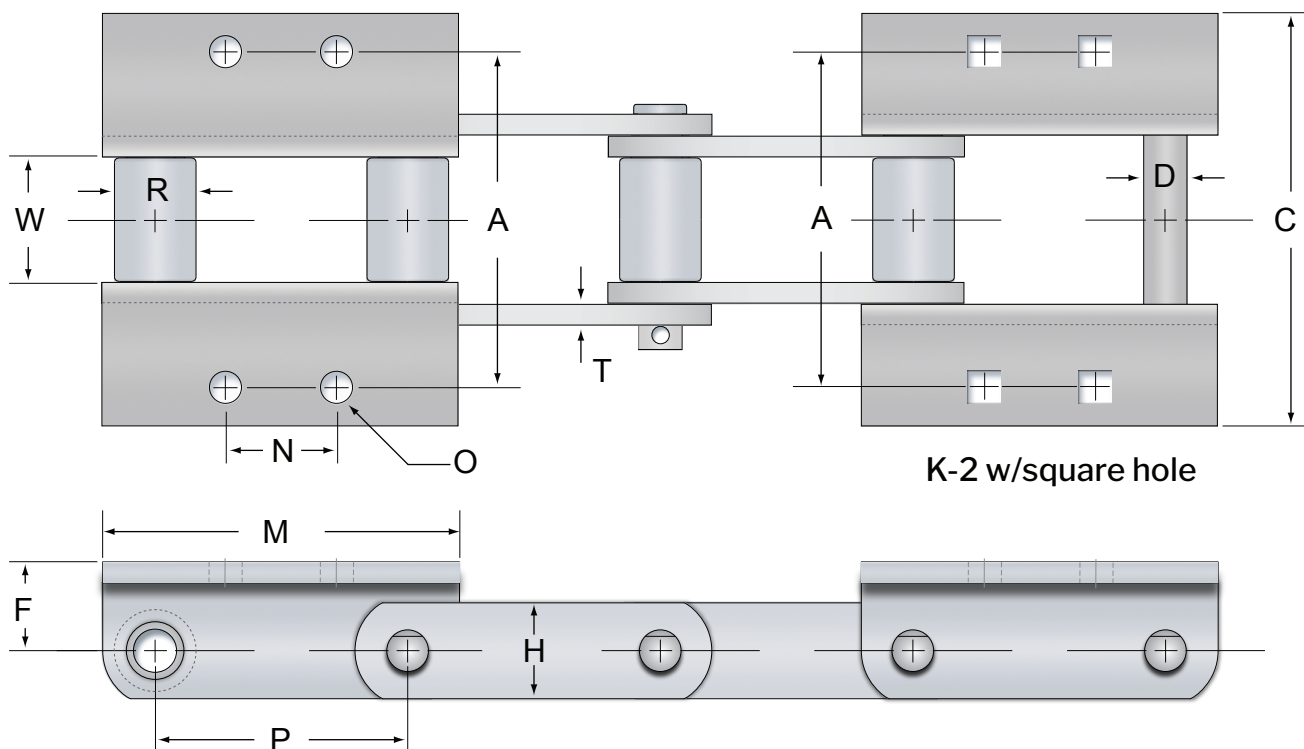
Dimensions subject to change

Asphalt Chain K-2 & K-33 Attachments

K-33 Attachment



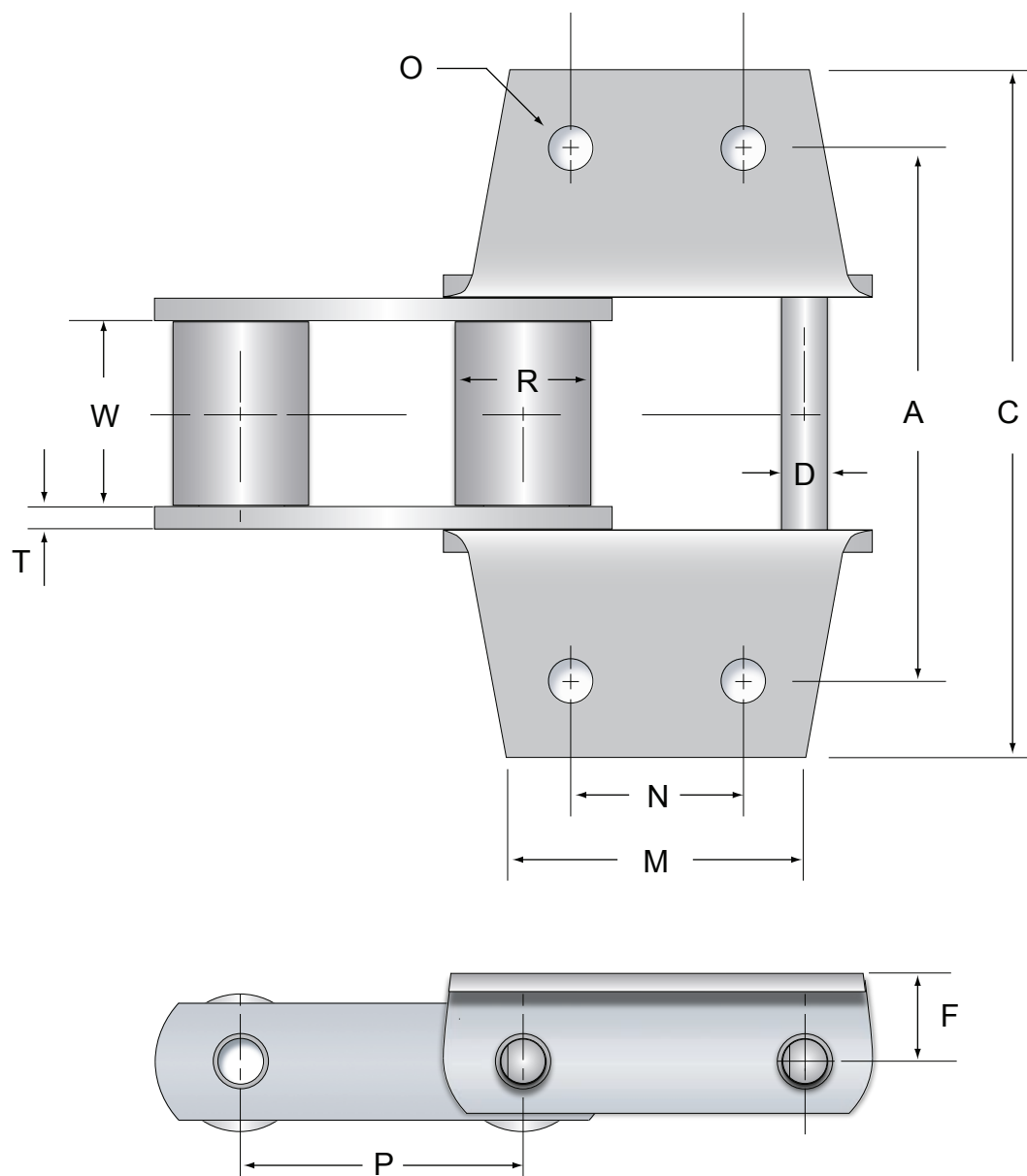
K-2 Attachment



Engineering Class Chains

Asphalt Chain and Attachments

K-24 Attachment



9856 Asphalt Chain w/K-24 Attachment Specifications

Chain Dimensions Are Given In Inches

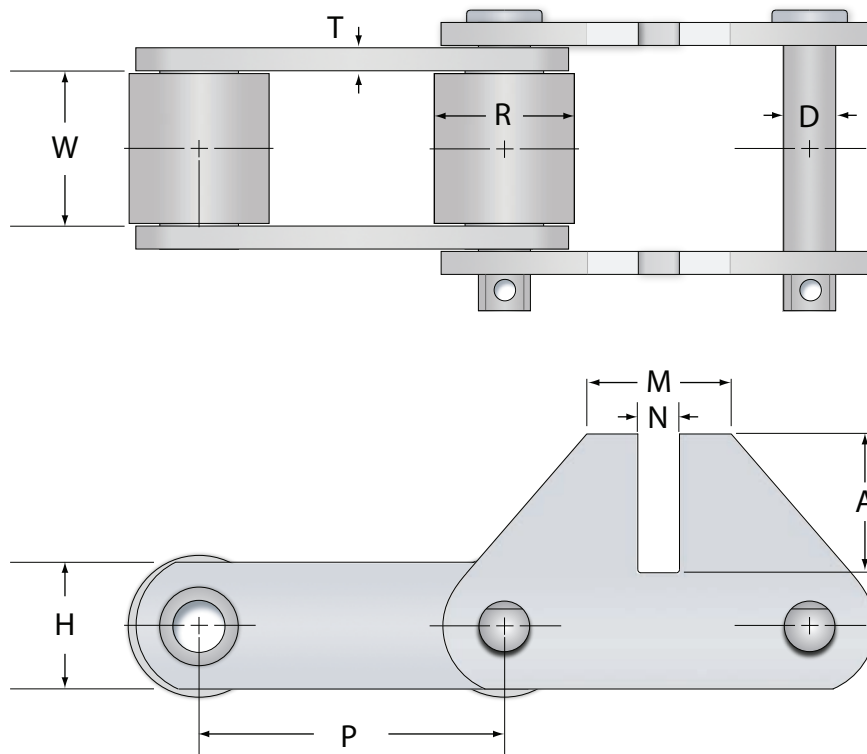
Maxco Chain Number	Chain Pitch	Inside Width	Thick.	Roller Dia	Pin Dia	Attachment Hole		Attach Plate Height	C/L Chain Attach Hole	Tab Width	O/A Attach Width	K-24 Add Wgt/Att lbs/pc
	P	W	T	R	D	N	O	F	A	M	C	
9856	6.000	3.000	0.500	2.750	1.000	2.500	0.750	1.880	7.250	7.250	9.500	3.50

Dimensions subject to change

Asphalt Chain MM - 1 Attachment



MM-1 Attachment Link



MM-1 Attachment Specifications

Chain Dimensions Are Given In Inches

Maxco Chain Number	Chain Pitch	Width	Roller Diameter	Pin Diameter	Sidebar		Working Load lbs	Average Ultimate Strength lbs	Standard Attach Spacing	MM-1 Attachment		
	P	W	R	D	T	H				A	M	N
9856	6.000	3.000	2.750	1.000	0.500	2.500	14,000	140,000	Ev 2nd	2.750	3.063	0.813

Dimensions subject to change

Engineering Class Chains

Mining Chains

Demanding Requirements - Superior Products

With worldwide design expertise and manufacturing experience, Maxco Mining Chains are the latest example of our complete commitment to the manufacture of the most dependable and durable chains for typical Mining applications. Designed to withstand the harsh rigors and environment, Maxco Mining Chains possess a very strong performance history with a very economical cost of ownership. Depend on Maxco to provide the perfect chain for your next Mining Chain requirement.

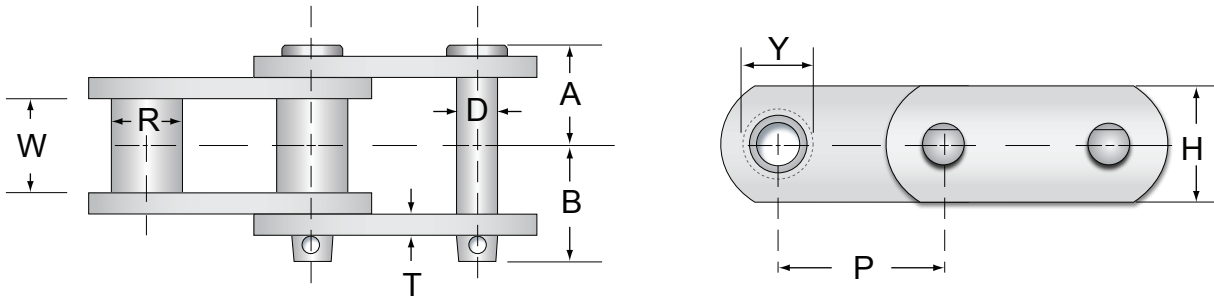


Product	Page
Tram Drive Chain	87
Shuttle Car Chain	88
Super Shuttle Car Chain	88
Wash Box Chain	89
Feeder Breaker Chain	89

Engineering Class Chains

Mining Chains

Drive Chains



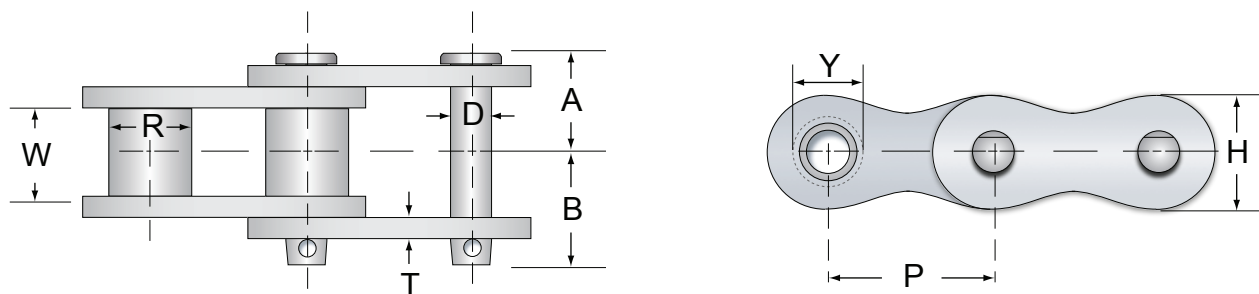
Tram Chain Specifications

Chain Dimensions Are Given In Inches

Maxco Chain Number	Chain Pitch	Width	Roller		Pin				Sidebar			Bushing		Avg Chain Weight Lbs/Ft
	P	W	R	Mat.	D	Mat.	A	B	T	H	Mat.	Y	Mat.	
64S	2.500	1.500	1.250	A-HT	0.875	A-HT	1.690	2.000	0.375	2.125	A-HT	1.125	A-CH	13.5
64SM	2.500	1.500	1.250	A-HT	0.875	A-HT	1.910	2.220	0.438 x 0.500	2.125	A-HT	1.125	A-CH	14.5

* inside link sidebar thickness 0.500, outside link sidebar thickness 0.438

Dimensions subject to change



Tram Chain Specifications

Chain Dimensions Are Given In Inches

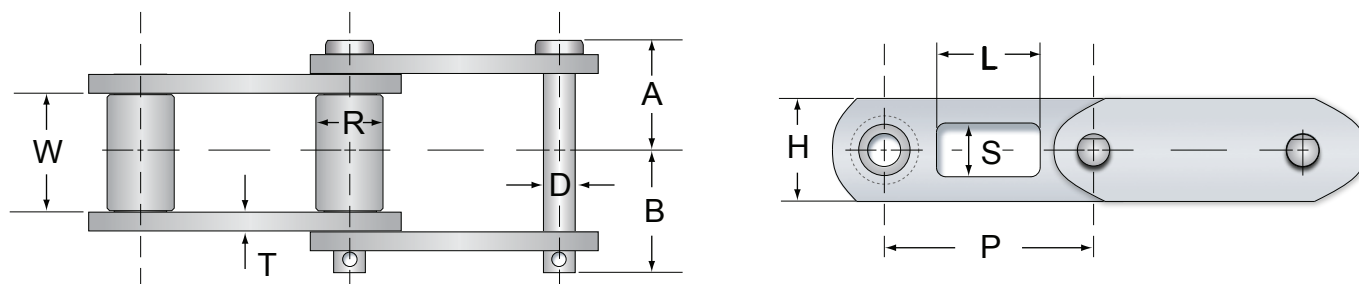
Maxco Chain Number	Chain Pitch	Width	Roller		Pin				Sidebar			Bushing		Avg Chain Weight lbs/ft
	P	W	R	Mat.	D	Mat.	A	B	T	H	Mat.	Y	Mat.	
JB2	2.000	1.250	-	-	0.718	A-HT	1.440	1.720	0.313	1.875	A-HT	1.125	A-CH	8.3

Dimensions subject to change

Engineering Class Chains

Mining Chains

Shuttle Car Chain



Shuttle Car Chain Specifications

Chain Dimensions Are Given In Inches

Maxco Chain Number	Chain Pitch	Width	Roller		Pin				Sidebar			Attachment - Slot			
	P	W	R	Mat.	D	Mat.	A	B	T	H	Mat.	Slot Location	Standard Spacing	L	S
2609SC	2.609	1.125	1.125	A-CH	0.563	A-HT	1.360	1.550	0.313	1.625	A-HT	One Side	Ev 6th or 8th	1.281	0.656
3075SC	3.075	1.500	1.250	A-CH	0.625	A-HT	1.890	1.670	0.375	1.750	C-HT	Both Sides	Ev 6th	1.281	0.656

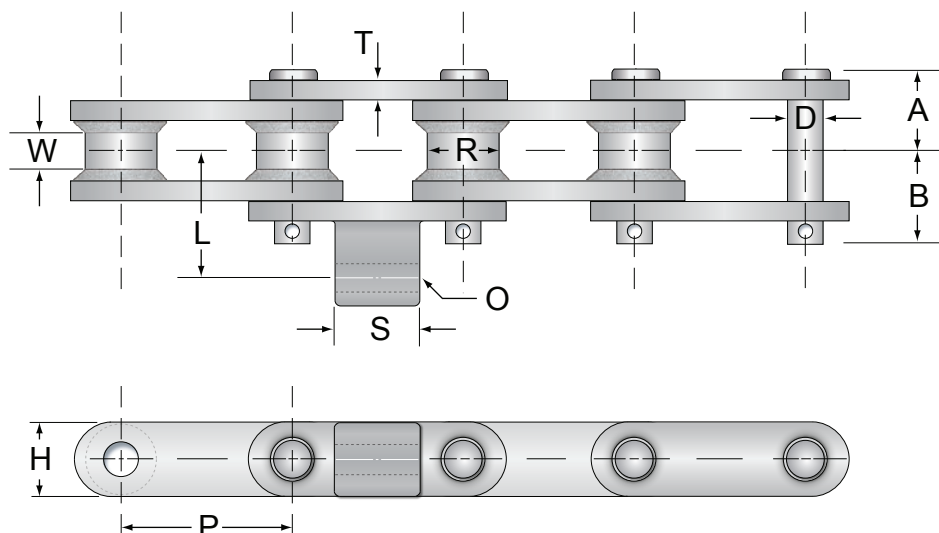
A-HT: Medium Carbon Alloy Steel Through Hardened

C-HT: Medium Carbon Steel Through Hardened

A-CH: Low Carbon Alloy Steel Case Hardened

Dimensions subject to change

Super Shuttle Chain



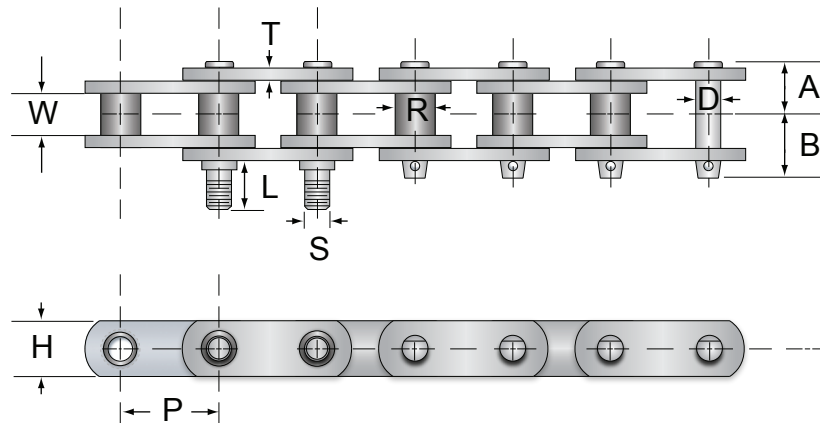
Super Shuttle Car 4 Chain Specifications

Chain Dimensions Are Given In Inches

Maxco Chain Number	Chain Pitch	Width	Roller		Pin				Sidebar			Attachment				
	P	W	R	Mat.	D	Mat.	A	B	T	H	Mat.	Att. Type	Std Space	L	S	O
4100SUSC	4.100	0.875	1.750	A-HT	0.938	A-HT	1.970	2.340	0.500	1.750	C-HT	Welded Lug	Ev 6th	3.000	2.000	0.672

Dimensions subject to change

Wash Box Chain



Wash Box Chain Specifications

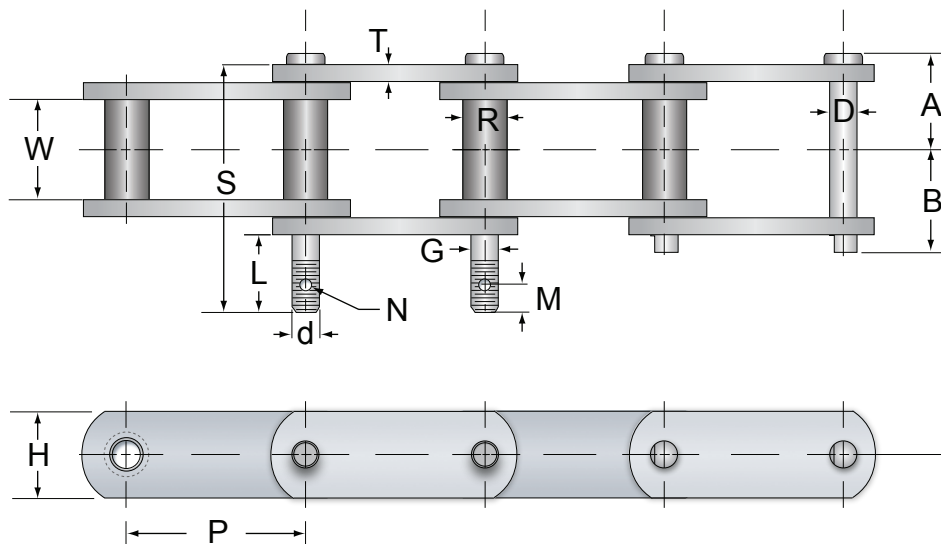
Chain Dimensions Are Given In Inches

Maxco Chain Number	Chain Pitch	Width	Roller		Pin				Side Bar			Attachment			
	P	W	R	Mat.	D	Mat.	A	B	T	H	Mat.	Att. Type	Standard Spacing	L	S
3075WB	3.075	1.313	1.250	A-CH	0.750	A-CH*	2.000	2.250	0.375	1.750	A-HT	Thread. Ext Pins	Ev 4th or 6th	1.250	0.750

*Pins are Chrome Plated

Dimensions subject to change

Feeder Breaker Chain



Feeder Breaker Chain Specifications

Chain Dimensions Are Given In Inches

Maxco Chain Number	Chain Pitch	Width	Roller		Pin				Side Bar			Attachment							
	P	W	R	Mat.	D	Mat.	A	B	T	H	Mat.	Att. Type	Std. Spac.	L	S	G	d	M	N
3075FB	3.075	1.313	1.250	A-CH	0.688	A-HT	1.630	1.810	0.375	1.500	A-HT	Thread. Ext. Pins	Ev 4th	2.063	4.938	0.672	0.625	0.500	0.250

Dimensions subject to change

Engineering Class Chains

Detachable Chains

Medium Duty Service, Flexible Application Capability

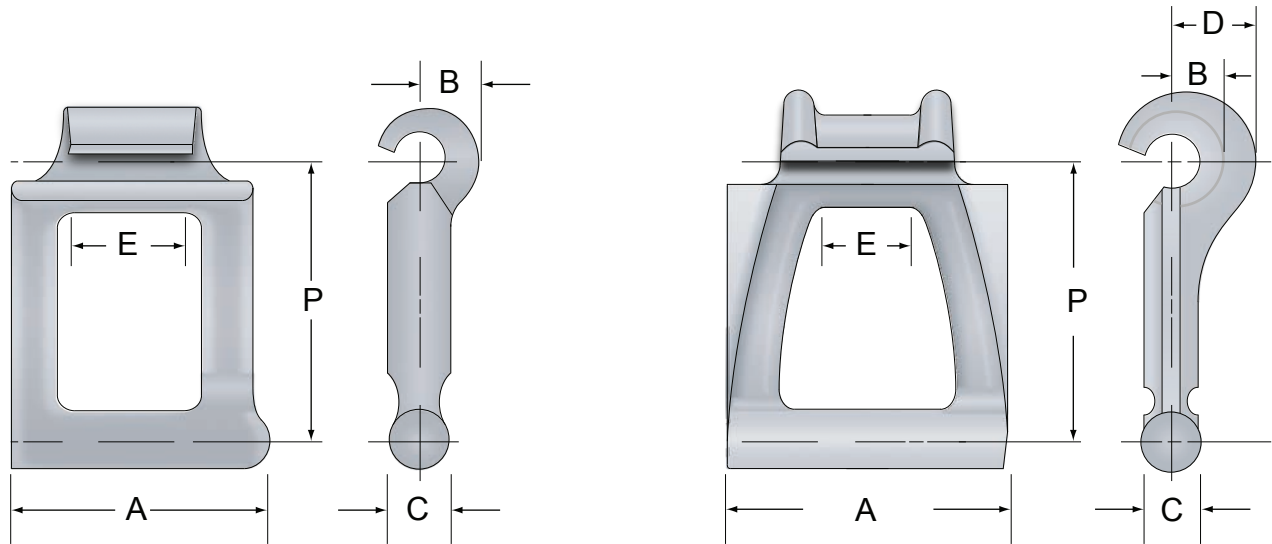
Maxco Detachable Chain was the first Malleable Iron Chain to be used extensively for industrial applications. As a light-weight, low-cost chain available in a wide range of sizes, its unique design allows for applications ranging from power transmission to conveying. Where light and medium loads are carried Detachable Chain is a proven capable product and at a most economical price. Detachable Chains are used extensively in farm equipment, textile machinery, wood products and other light to medium duty requirements.



Product	Page
Detachable Plain Chain	91
A-1 Attachment	92
F-2 Attachment	93
K-1 Attachment	93

Detachable Chains

Detachable Plain Chain



Style "A"

Style "B"

Detachable Chain Specifications

Chain Dimensions Are Given In Inches

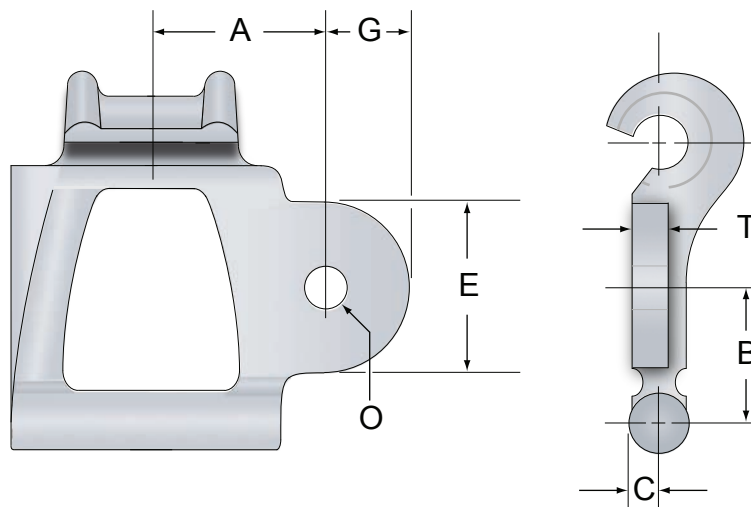
Maxco Chain Number	Chain Style	Chain Pitch	Overall Width	B	Thickness	D	Inside Width	Rated Working Load lbs	Avg Ultimate Strength lbs
		P	A		C		E		
25	A	0.902	0.750	0.203	0.141	-	0.375	120	700
32	A	1.154	1.000	0.250	0.172	-	0.500	185	1,100
42	A	1.375	1.266	0.281	0.219	-	0.625	270	1,600
45	A	1.630	1.312	0.953	0.219	-	0.688	285	1,700
51	A	1.155	1.250	0.359	0.266	-	0.563	320	1,900
52	A	1.506	1.531	0.344	0.266	-	0.625	385	2,300
55	A	1.631	1.375	0.359	0.266	-	0.688	385	2,300
57	A	2.308	1.688	0.406	0.266	-	0.813	485	2,900
62	A	1.654	1.656	0.406	0.312	-	0.813	535	3,200
67	A	2.308	1.750	0.406	0.266	-	0.688	485	2,900
75	B	2.609	2.078	0.437	0.391	0.531	0.938	690	4,100
77	B	2.297	2.187	0.359	0.391	0.609	0.688	600	3,600
78	B	2.609	2.625	0.437	0.422	0.656	0.938	920	5,500
88	B	2.609	2.625	0.437	0.422	0.828	0.938	920	5,500
103	B	3.075	3.281	0.609	0.578	1.000	1.125	1,670	10,000

Dimensions subject to change

Engineering Class Chains

Detachable Chain A-1 Attachments

A-1 Attachment



Detachable Chain A-1 Attachment Specifications

Chain Dimensions Are Given In Inches

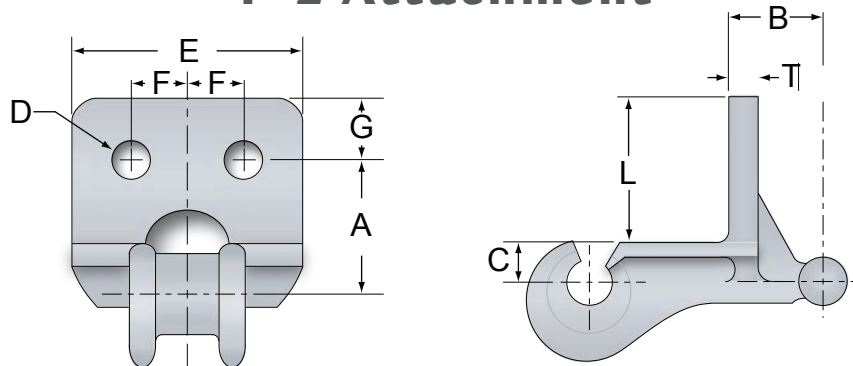
Maxco Chain Number	C/L Chain Att Hole	Att Hole Location	Att Height	Bolt Diameter	Tab Width	C/L Att Hole Edge of Tab	Attach Thickness
	A	B	C	O	E	G	T
25	0.875	0.438	0.094	0.187	0.719	0.344	0.094
32	0.875	0.625	0.094	0.187	0.719	0.344	0.125
42	1.094	0.656	0.094	0.250	1.031	0.469	0.125
45	1.125	0.875	0.125	0.250	1.125	0.531	0.156
51	0.906	0.594	0.125	0.187	0.719	0.375	0.125
52	1.188	0.781	0.125	0.250	1.062	0.437	0.125
55	1.125	0.875	0.125	0.250	1.156	0.562	0.156
62	1.438	0.844	0.156	0.250*	1.250	0.594	0.187
77	1.563	1.250	0.187	0.250*	1.594	0.875	0.219
78	1.750	1.344	0.219	0.312	1.875	0.469	0.281

* Circular Countersunk Hole

Dimensions subject to change

Detachable Chain F-2 & K-1 Attachments

F-2 Attachment



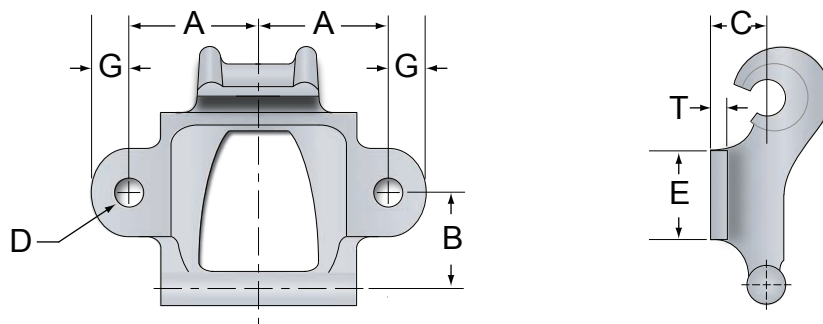
F-2 Attachment Link Specifications

Chain Dimensions Are Given In Inches

Maxco Chain Number	Hole Location	Angle Location	Location	Bolt Dia.	Width	Hole Location	Hole Location	Height	Thickness
	A	B	C	D	E	F	G	L	T
55	0.906	0.688	0.281	0.187	1.563	0.531	0.406	1.031	0.156
77	1.375	1.187	0.438	0.312	2.531	0.875	0.563	1.500	0.250
78	1.406	1.125	0.406	0.312	2.531	0.875	0.531	1.531	0.281
88	1.375	1.250	0.500	0.312	2.719	1.000	0.656	1.500	0.250
103	1.813	1.312	0.563	0.375	3.000	1.063	0.656	1.906	0.281

Dimensions subject to change

K-1 Attachment



K-1 Attachment Link Specifications

Chain Dimensions Are Given In Inches

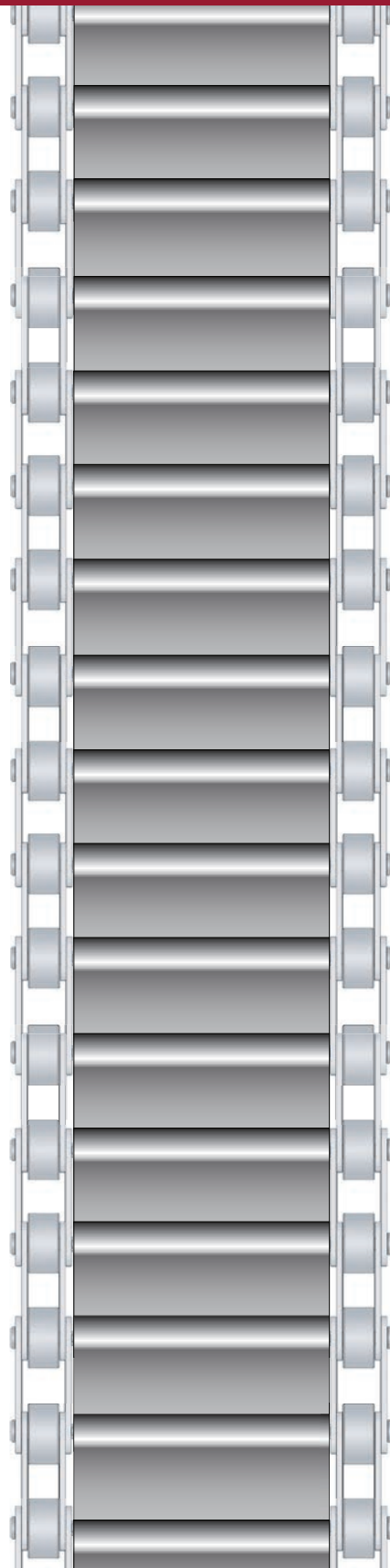
Maxco Chain Number	Hole Location	Hole Location	Location	Bolt Dia.	Width	Hole Location	Thickness
	A	B	C	D	E	G	T
25	0.625	0.500	0.344	0.125	0.438	0.219	0.094
32	0.875	0.594	0.375	0.188	0.594	0.281	0.094
42	1.000	0.688	0.375	0.188	0.750	0.344	0.125
45	1.000	0.781	0.406	0.188	0.844	0.344	0.125
51	0.875	0.625	0.438	0.188	0.625	0.312	0.125
52	1.188	0.719	0.438	0.188	0.875	0.438	0.125
55	1.000	0.781	0.406	0.250	0.875	0.344	0.125
62	1.188	0.844	0.469	0.250	0.938	0.469	0.156
67	1.500	1.063	0.688	0.250*	1.031	0.500	0.156
77	1.500	1.125	0.656	0.250*	1.281	0.437	0.156
78	1.688	1.250	0.625	0.250*	1.375	0.469	0.156
88	1.906	1.250	0.750	0.312*	1.375	0.438	0.188
103	2.094	1.500	0.875	0.375*	1.719	0.500	0.250

* Countersunk Square Hole

Dimensions subject to change

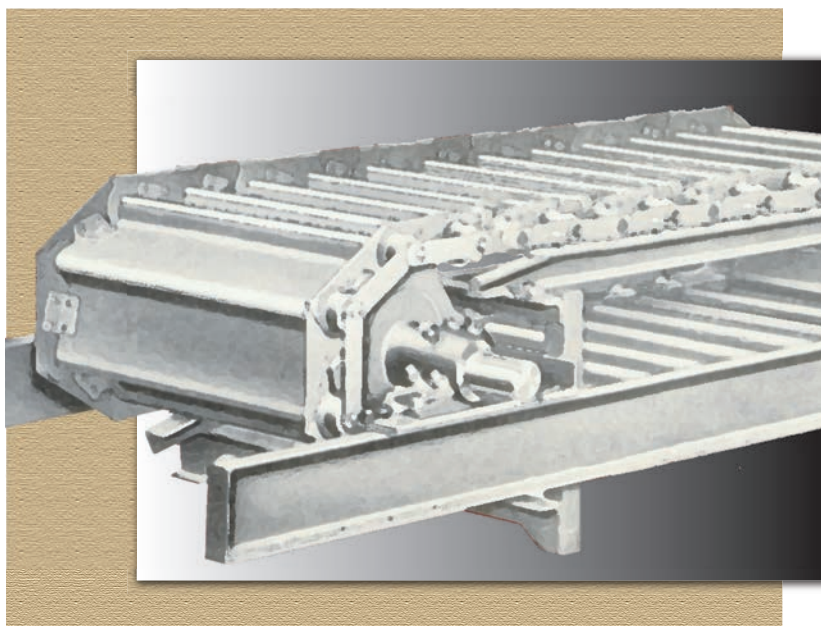
Engineering Class Chains

Apron Conveyor Chains



Conveyor Chain for Heavy Duty, High Load Requirements

Maxco Apron Conveyor Chains are available in three different configurations for conveying granular and/or other bulk sized items. Chains are used in flat and incline applications. Apron Conveyor Chains may be designed for high load and high impact requirements, plus positive discharge applications. Contact your Maxco field representative for further details and assistance on application requirements.



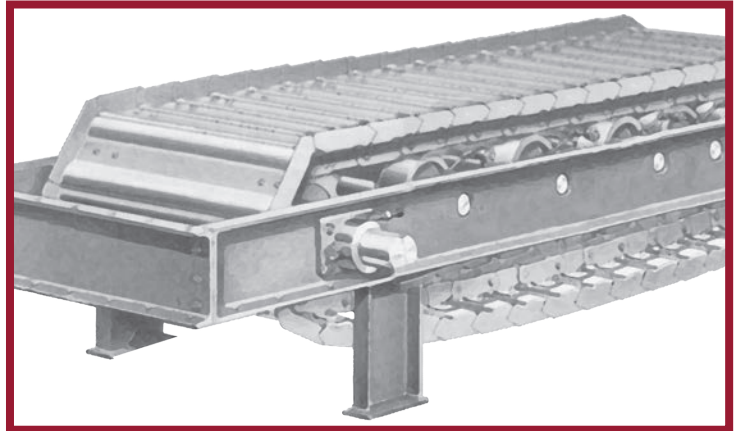
Product	Page
Apron Selection	95
Apron - Style A	96
Apron - Style B	96
Apron - Style D	96

Engineering Class Chains

Apron Conveyor Chain

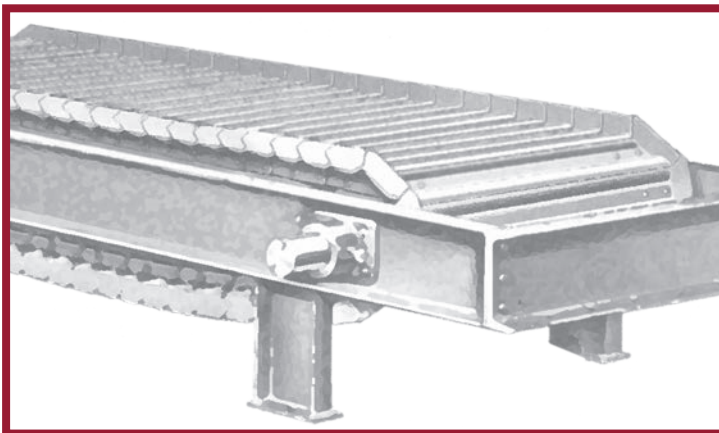
Type A

Most commonly specified Apron Conveyor Chain, used in both horizontal and inclined applications. Close tolerance between pans prevents leakage.



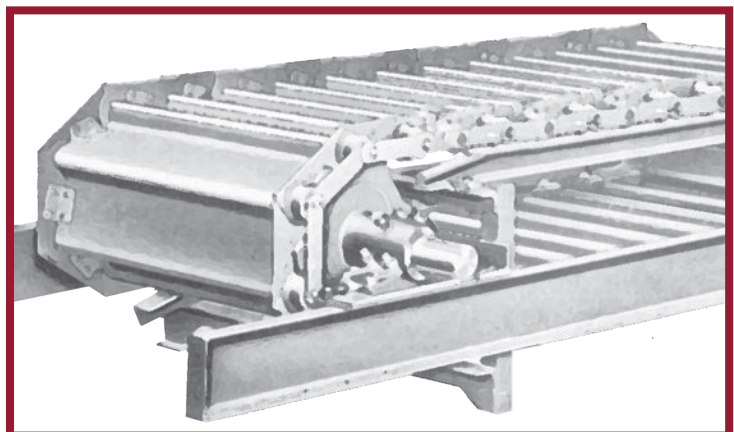
Type B

Primarily used for heavy duty or high impact load requirements. Deeper wells add to structural integrity of the pans especially in wider widths.



Type D

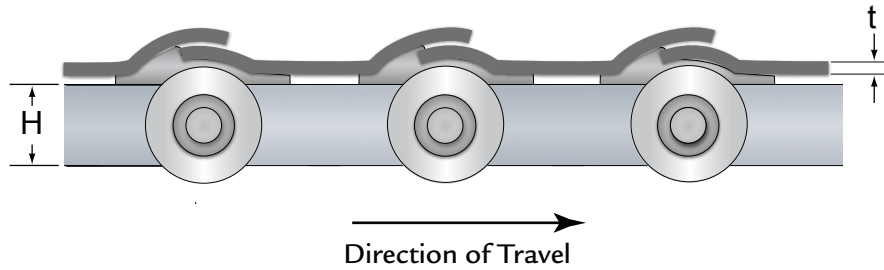
For positive discharge Apron applications, this chain is capable of operating at up to a 35 degree incline yet is ideal for flat or horizontal conveyors requiring positive discharge.



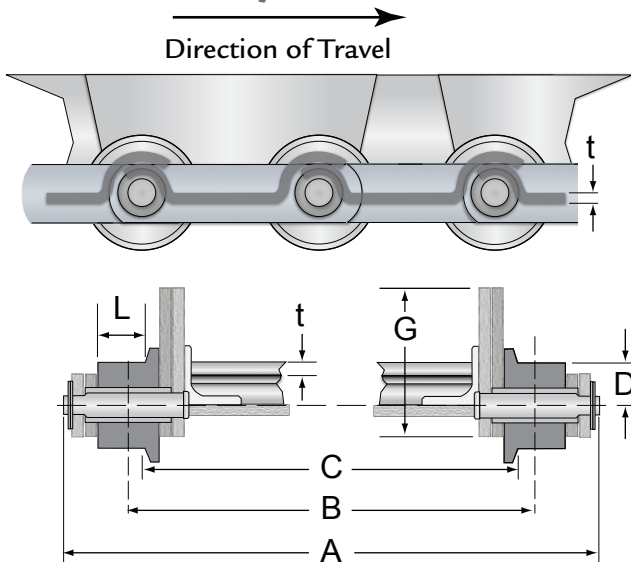
Engineering Class Chains

Apron Conveyor Chain

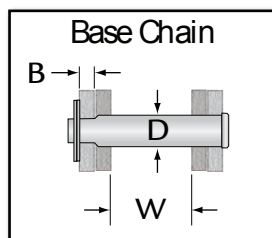
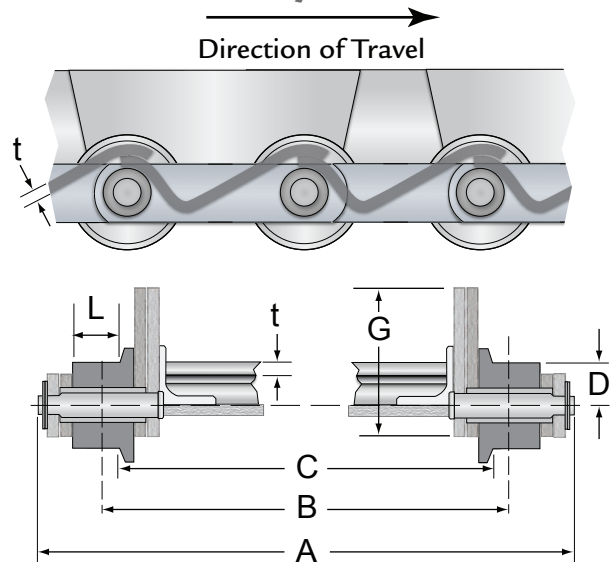
Style A



Style B



Style D



See pages 12-13 for additional Base Chain specifications.

Apron Conveyor Chain

Chain Dimensions Are Given In Inches

Maxco Chain Number	Pitch	Pan Sty	Pan Thk	C/L Spkts	Track Gauge	O/A Width	C/L Pan	Pan End Hgt	Base Chain Dimensions							Conv Work Load lbs	Avg Conv Wgt lbs/ft	Add Wgt ¹ lbs/ft
	P		t	B*	C	A*	D	G	W	Roller			Pin	Side Bar				
										R	Sty	L	d	T	H			
95R 90R 90R	4.000" Pitch																	
	4.000	A	0.188	13.38	-	15.88	2.000	-	1.000	1.500	T	-	0.438	0.2	1.100	4,200	20.40	0.63
	4.000	A	0.188	13.56	-	15.44	2.000	-	1.188	2.000	T	-	0.438	0.2	1.300	4,800	24.20	0.63
	4.000	A	0.250	13.56	-	15.44	2.063	-	1.188	2.000	T	-	0.438	0.2	1.300	4,800	28.60	0.85
89R 89R 89R	4.000	A	0.250	14.06	-	17.94	2.063	-	1.313	2.250	T	-	0.625	0.4	1.500	9,000	39.20	0.85
	4.000	A	0.313	14.06	-	17.94	2.313	-	1.313	2.250	T	-	0.625	0.4	1.500	9,000	43.60	1.07
	4.000	A	0.375	14.06	-	17.94	2.375	-	1.313	2.250	T	-	0.625	0.4	1.500	9,000	48.00	1.28
	6.000" Pitch																	
604R 631R	6.000	A	0.188	13.81	-	17.00	2.188	-	1.313	2.000	T	-	0.563	0.250	1.500	7,000	21.60	0.90
	6.000	A	0.250	14.13	-	18.19	2.250	-	1.375	3.000	T	-	0.750	0.375	2.000	11,200	35.80	1.20
631R 610R 610R	6.000	A	0.313	14.13	-	18.19	2.313	-	1.375	3.000	T	-	0.750	0.375	2.000	11,200	39.60	1.50
	6.000	A	0.375	14.44	-	18.18	2.875	-	1.688	2.750	T	-	0.875	0.375	2.250	14,900	45.00	1.50
	6.000	A	0.500	14.44	-	18.18	2.813	-	1.688	2.750	T	-	0.875	0.375	2.250	14,900	48.80	1.80
603R 625R 625R	6.000	B	0.188	14.75	14.125	17.69	1.063	3.5	1.313	2.500	U	0.875	0.563	0.3	1.500	7,000	35.10	0.90
	6.000	B	0.188	15.16	14.313	18.63	1.063	3.5	1.688	3.000	U	1.125	0.625	0.3	2.000	4,300	38.00	0.90
	6.000	B	0.250	15.16	14.313	18.63	1.125	3.5	1.688	3.000	U	1.125	0.625	0.3	2.000	4,300	41.60	1.20
625R 625R 625R	6.000	B	0.313	15.16	14.313	18.63	1.188	4.0	1.688	3.000	U	1.125	0.625	0.3	2.000	4,300	46.60	1.50
	6.000	D	0.188	15.16	14.313	18.63	1.063	3.5	1.688	3.000	U	1.125	0.625	0.3	2.000	4,300	38.00	0.90
	6.000	D	0.250	15.16	14.313	18.63	1.125	3.5	1.688	3.000	U	1.125	0.625	0.3	2.000	4,300	41.60	1.20
625R 663R 663R	6.000	D	0.313	15.16	14.313	18.63	1.188	4.0	1.688	3.000	U	1.125	0.625	0.3	2.000	4,300	46.60	1.50
	6.000	B	0.250	16.13	15.125	20.38	1.125	3.5	2.000	3.000	U	1.500	0.750	0.4	2.000	14,400	48.80	1.20
	6.000	B	0.313	16.13	15.125	20.38	1.188	4.0	2.000	3.000	U	1.500	0.750	0.4	2.000	14,400	54.20	1.50
B963R B963R B963R	9.000" Pitch																	
	9.000	B	0.250	16.13	15.125	20.38	1.375	4.0	2.000	3.500	U	1.250	0.750	0.4	2.000	14,400	49.60	1.18
	9.000	B	0.313	16.13	15.125	20.38	1.438	4.0	2.000	3.500	U	1.250	0.750	0.4	2.000	14,400	51.80	1.37
B963R B963R B963R	9.000	B	0.375	16.13	15.125	20.38	1.750	4.0	2.000	3.500	U	1.250	0.750	0.4	2.000	14,400	56.70	1.77
	9.000	D	0.250	16.13	15.125	20.38	1.375	4.0	2.000	3.500	U	1.250	0.750	0.4	2.000	14,400	49.60	1.18
	9.000	D	0.313	16.13	15.125	20.38	1.438	4.0	2.000	3.500	U	1.250	0.750	0.4	2.000	14,400	51.80	1.37
B963R 964R 964R 964R	9.000	D	0.375	16.13	15.125	20.38	1.750	4.0	2.000	3.500	U	1.250	0.750	0.4	2.000	14,400	56.70	1.77
	9.000	B	0.313	16.44	15.188	20.88	1.438	4.0	2.250	4.000	U	1.500	0.875	0.4	2.500	18,400	58.50	1.37
	9.000	B	0.375	16.44	15.188	20.88	1.750	5.0	2.250	4.000	U	1.500	0.875	0.4	2.500	18,400	67.50	1.77
964R 964R 964R	9.000	D	0.313	16.44	15.188	20.88	1.438	4.0	2.250	4.000	U	1.500	0.875	0.4	2.500	18,400	58.50	1.37
	9.000	D	0.375	16.44	15.188	20.88	1.750	5.0	2.250	4.000	U	1.500	0.875	0.4	2.500	18,400	67.50	1.77
	12.000" Pitch																	
B1263R B1263R B1263R	12.000	B	0.250	16.13	15.125	20.38	1.375	4.0	2.000	3.500	U	1.250	0.750	0.4	2.000	14,400	46.10	1.17
	12.000	B	0.313	16.13	15.125	20.38	1.438	4.0	2.000	3.500	U	1.250	0.750	0.4	2.000	14,400	49.50	1.47
	12.000	B	0.375	16.13	15.125	20.38	1.750	4.0	2.000	3.500	U	1.250	0.750	0.4	2.000	14,400	53.10	1.75
B1263R B1263R B1263R	12.000	D	0.250	16.13	15.125	20.38	1.375	4.0	2.000	3.500	U	1.250	0.750	0.4	2.000	14,400	46.10	1.17
	12.000	D	0.313	16.13	15.125	20.38	1.438	4.0	2.000	3.500	U	1.250	0.750	0.4	2.000	14,400	49.50	1.47
	12.000	D	0.375	16.13	15.125	20.38	1.750	4.0	2.000	3.500	U	1.250	0.750	0.4	2.000	14,400	53.10	1.75
1264R 1264R 1264R 1264R	12.000	B	0.313	16.44	15.188	20.88	1.438	4.0	2.250	4.000	U	1.500	0.875	0.4	2.500	18,400	52.70	1.47
	12.000	B	0.375	16.44	15.188	20.88	1.750	5.0	2.250	4.000	U	1.500	0.875	0.4	2.500	18,400	60.10	1.75
	12.000	D	0.313	16.44	15.188	20.88	1.438	4.0	2.250	4.000	U	1.500	0.875	0.4	2.500	18,400	52.70	1.47
	12.000	D	0.375	16.44	15.188	20.88	1.750	5.0	2.250	4.000	U	1.500	0.875	0.4	2.500	18,400	60.10	1.75

* All Width Dimensions and Weights based on 12" wide Pans

Dimensions subject to change

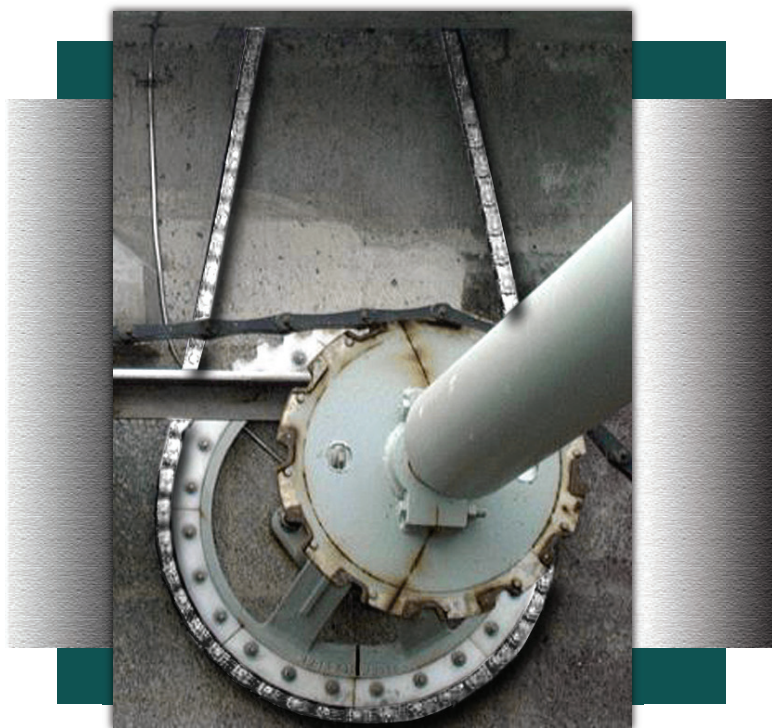
¹Add-on weight for each inch of additional pan width

Engineering Class Chains

Environmental Chains

Stainless and Non-Metallic Chains for Water and Wastewater Requirements

Maxco Environmental Products provide a wide range of options for water and waste treatment applications. Maxco's SAV 715 Stainless Chain is ideal for high wear / load installations while the Non-Metallic NM720S serves as an economical alternative where service needs are not as severe. Contact Maxco for your next requirement and compare the advantages of Maxco Stainless and Non-Metallic Chains and components.

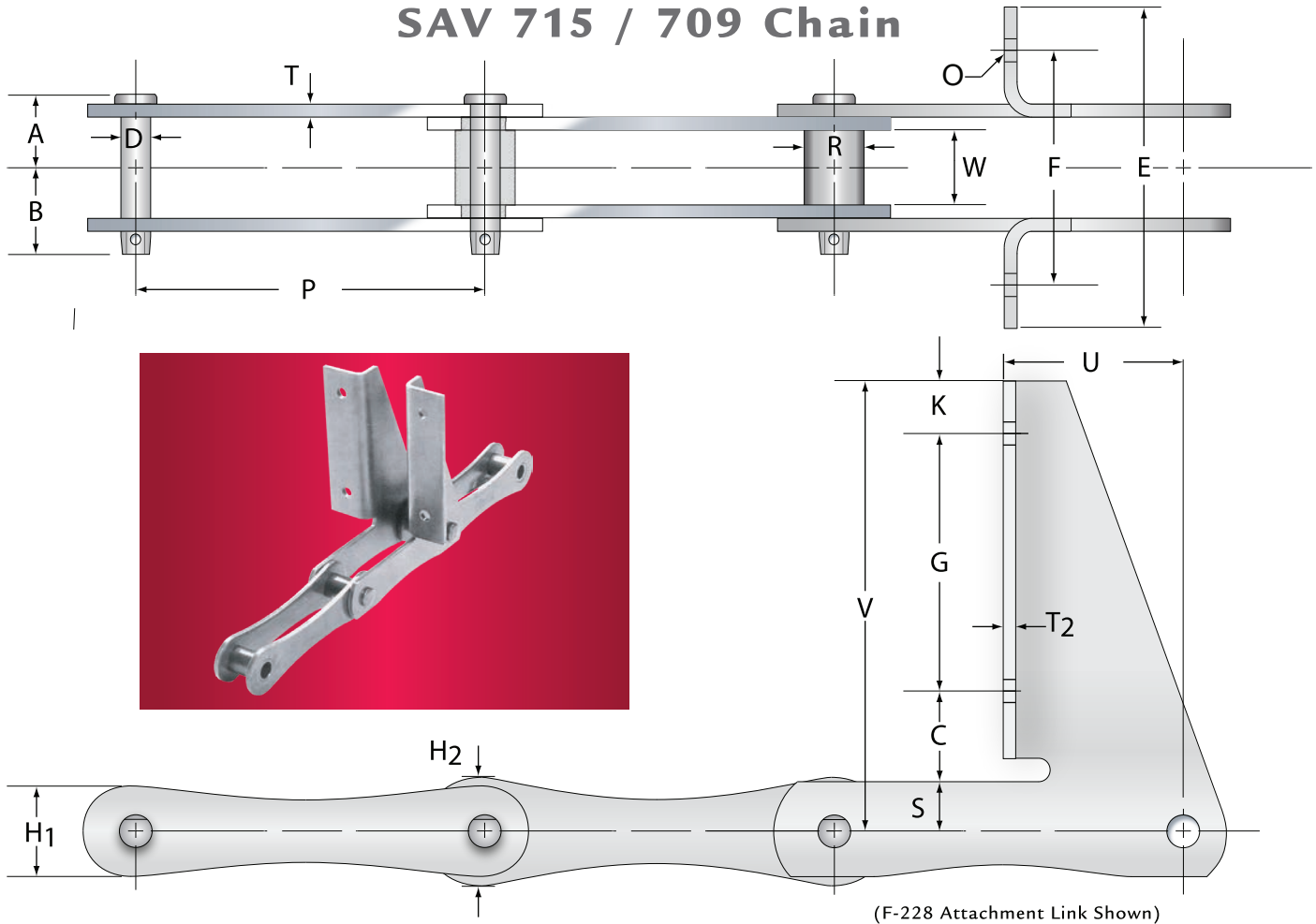


Product	Page
SAV 715 Stainless Collector Chain	99
NM720S Non-Metallic Collector Chain	100
NM720S F-226 & F-228 Attachments	101
HB 78 Stainless Drive Chain	102
NH78 Non-Metallic Drive Chain	102

Engineering Class Chains

SAV Stainless Steel Collector Chains

SAV 715 / 709 Chain



SAV 715 / 709 Chain Specifications

Chain Dimensions Are Given In Inches

Maxco Chain Number	Chain Pitch P	Inside Width W	Barrel		Pin				Side Bar				Min. Ult Stgth lbs	Min. Chain Wgt lbs/ft
			R	Mater.	D	Mater.	A	B	Thick. T	Pin Link H ₁	Bush. Link H ₂	Mater.		
SAV 715	6.000	1.188	1.015	403SS	0.569	403SS	1.281	1.563	0.224	1.540	1.850	403SS	28,000	3.7*
SAV 709	5.844	1.260	0.882	403SS	0.453	403SS	1.170	1.430	0.197	1.220	1.460	403SS	16,750	2.2*

SAV 715 / 709 Flight Attachment Specifications

*Reference only

Chain Dimensions Are Given In Inches

Attachment Part No.	Dimensions										Att. Wgt lbs/ea
	U	V	C	E	F	G	K	S	T ₂	O	
SAV 715 F-226	3.000	6.109	1.500	5.500	3.750	2.625	1.093	0.890	0.234	0.438	4.5
SAV 715 F-228	3.000	7.875	1.484	5.500	3.750	4.500	1.000	0.890	0.234	0.438	5.4
SAV 709 F-226	2.913	6.500	2.031	5.500	3.750	2.625	0.844	1.000	0.197	0.438	2.8
SAV 709 F-228	2.913	8.268	1.638	5.512	3.750	4.500	1.130	1.000	0.197	0.438	3.3

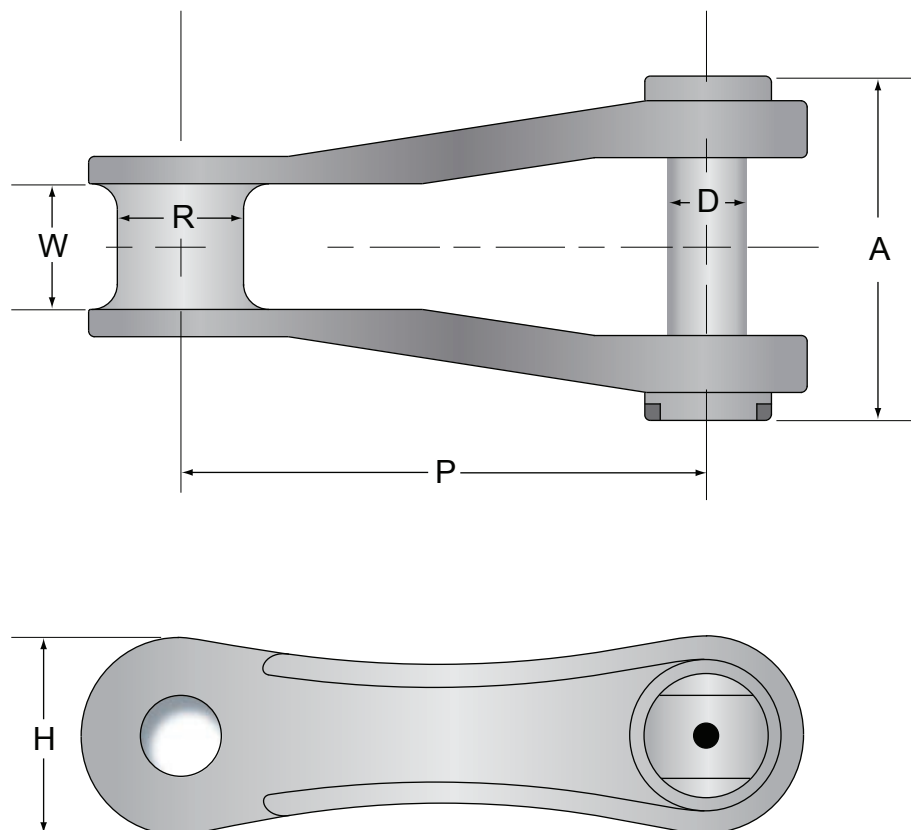
SAV 709 operates on standard 720 sprockets

Dimensions subject to change

Engineering Class Chains

NM720S Non-Metallic Chain

NM720S Non-Metallic Collector Chain



NM720S Plain Chain Specifications

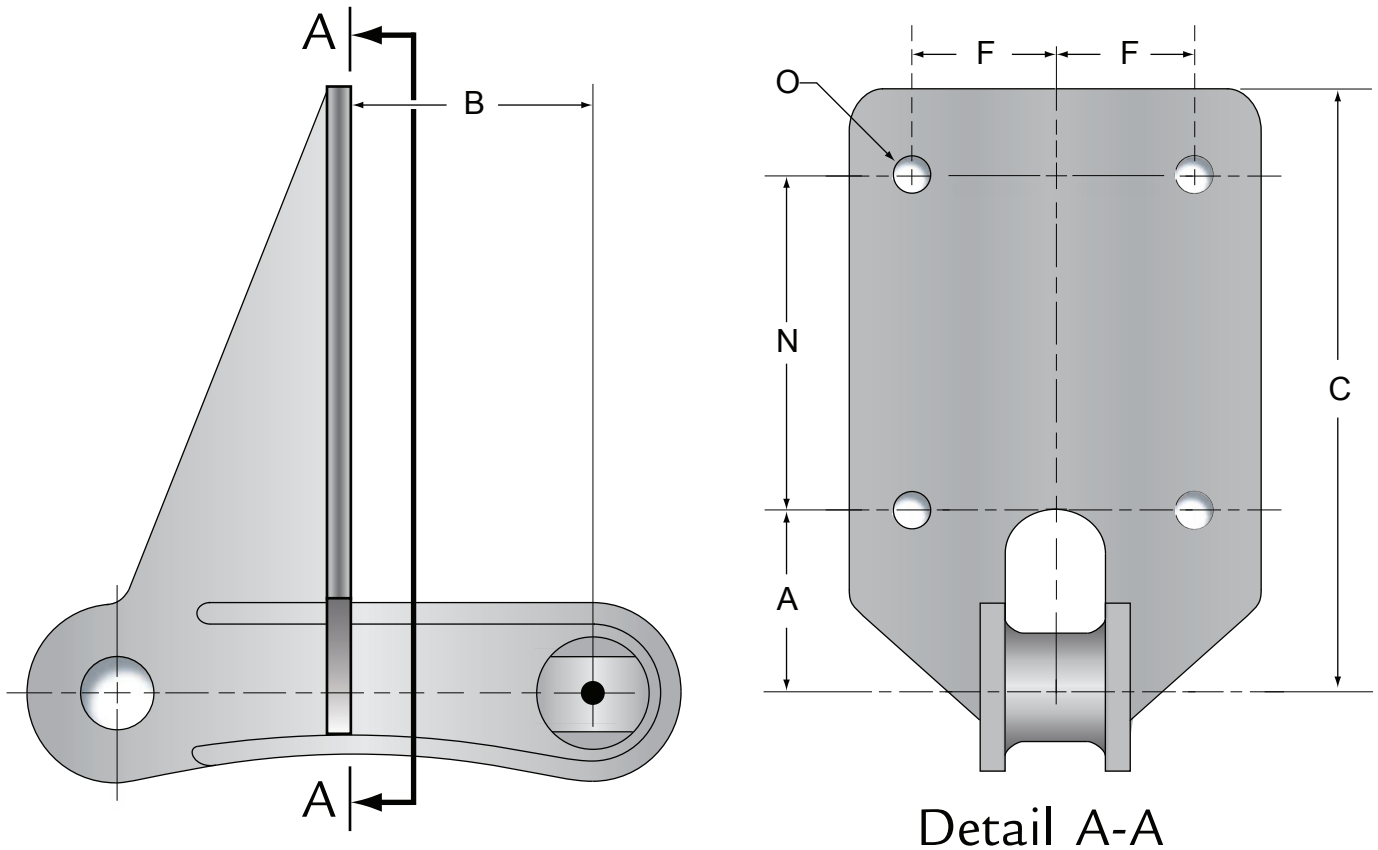
Chain Dimensions Are Given In Inches

Maxco Chain Number	Chain Pitch	Working Load lbs	Avg Ultimate Strength lbs	Weight lbs/ft	Barrel		Pin			Link	
	P				Dia.	Width	Dia.	Material	Width	Material	Height
	P				R	W	D		A		H
NM720S	6.000	3,100	6,500	1.6	1.438	1.375	.932	Glass Filled Nylon	3.892	Unfilled Acetal	2.250

Dimensions subject to change

NM720S Flight Attachments

F-226 & F-228 Attachments



F-226 & F-228 Attachment Specifications

Chain Dimensions Are Given In Inches

Maxco Chain Number	Height	Attach. Hole Pitch	Hole Location	Attach. Location	Hole Dia.	Hole Pitch	Material
	C	N	A	B	O	F	
F-228	8.000	4.500	2.375	3.000	0.438	1.875	Unfilled Acetal
F-226	6.125	2.625	2.375	3.000	0.438	1.875	Unfilled Acetal

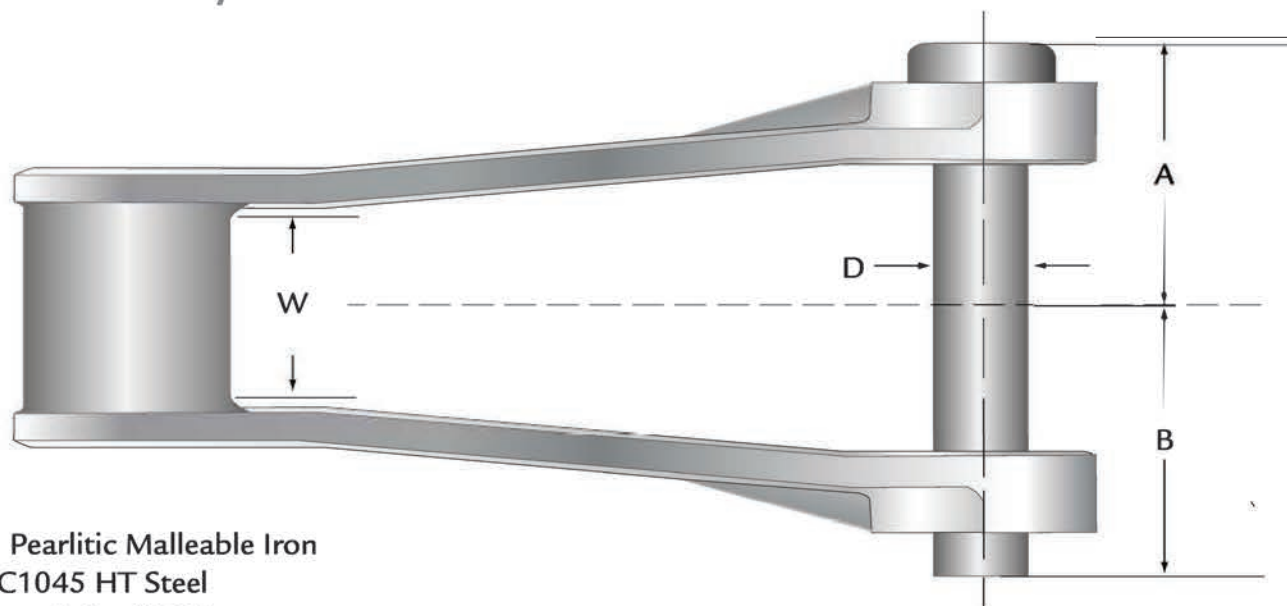
Dimensions subject to change

Note: Maxco NM720S Non-metallic Chain is not interlaceable with other similar Non-Metallic Collector Chains due to variances between pin sizing and connection methods. NM720S Chain is interchangeable in that it will run with competitive sprockets, flights, shoes, etc.

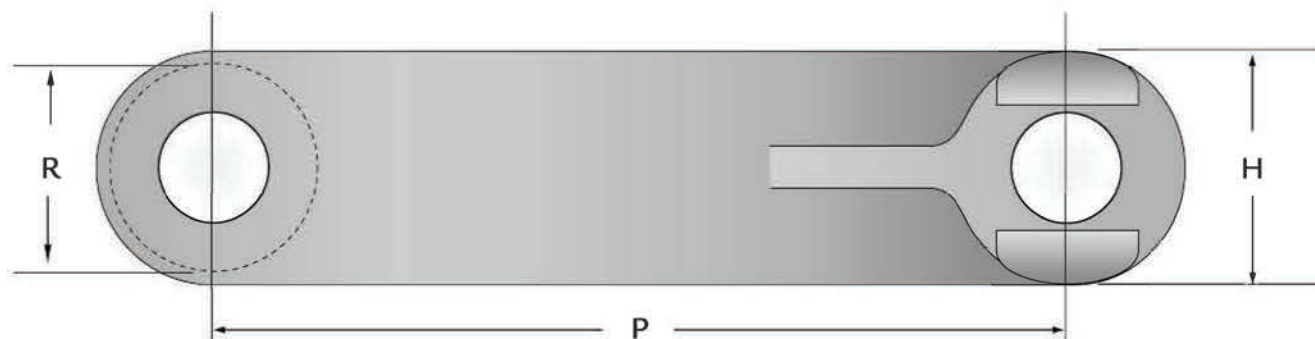
Engineering Class Chains

700 Class Malleable Iron Pintle Chain

720 / 720S Malleable Iron Chain



Link: Pearlitic Malleable Iron
Pin: C1045 HT Steel
Cotters: Split, 316SS



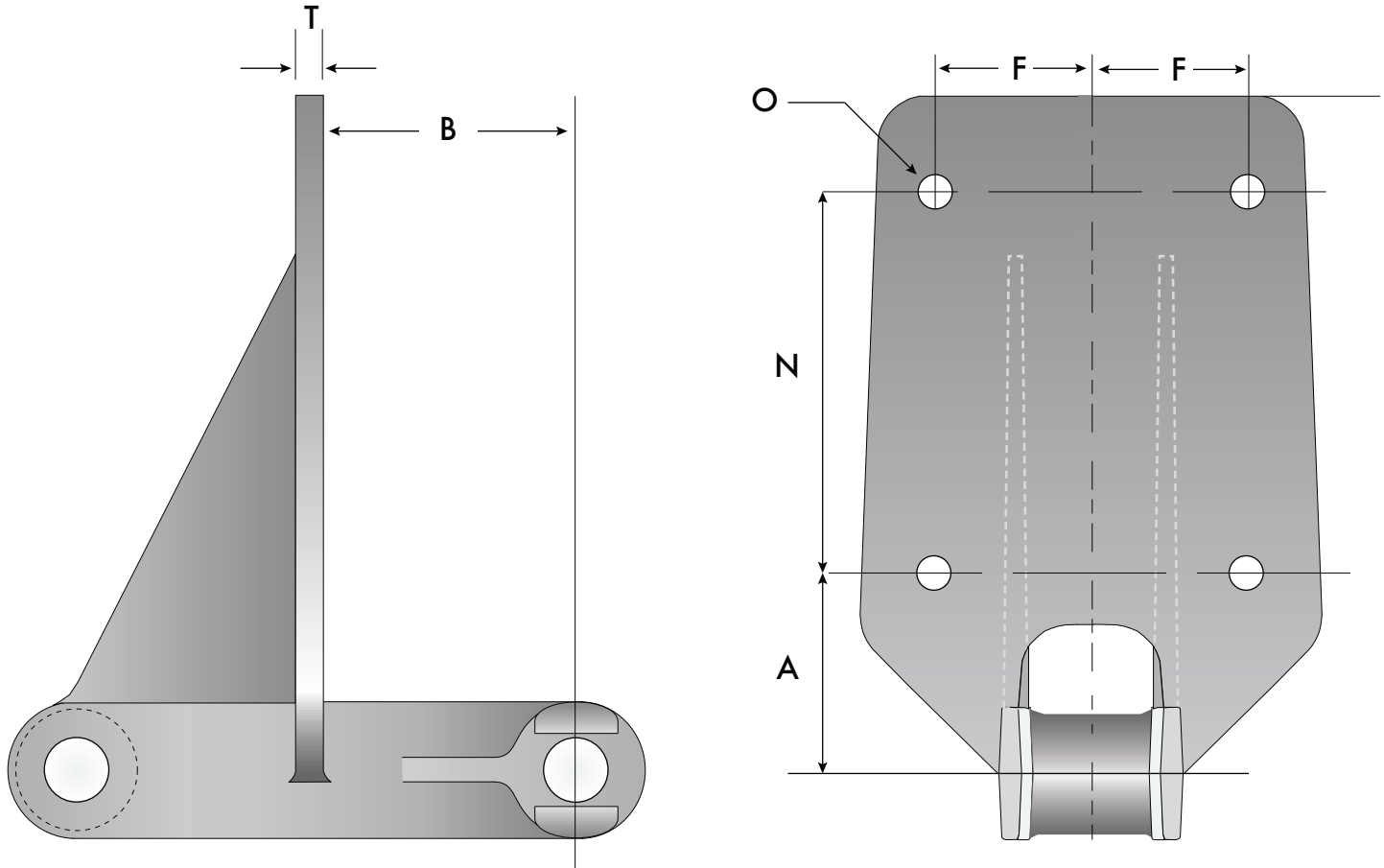
700 Class Pintle Chain Specifications

Chain Dimensions Are Given In Inches

Dimensions subject to change

Maxco Chain Number	Chain Pitch	Width	Diameter	Pin			Height	Average Weight lbs/ft	Average Ultimate Strength lbs/ft
	P	W	R	D	A	B	H		
720	6.000	1.000	1.380	0.690	1.58	2.05	1.375	4.2	22,000
720S	6.000	1.125	1.438	0.750	1.70	2.11	1.574	5.2	30,000

720 / 720S Malleable Iron Chain



720 Class F Attachment Specifications

Chain Dimensions Are Given In Inches

Dimensions subject to change

Maxco Part Number	B	T	A	N	O	F	F ²
F-226	3.000	0.250	2.375	2.625	0.438	1.875	3.750
F-228	3.000	0.250	2.375	4.500	0.438	1.875	3.750

720S Class F Attachment Specifications

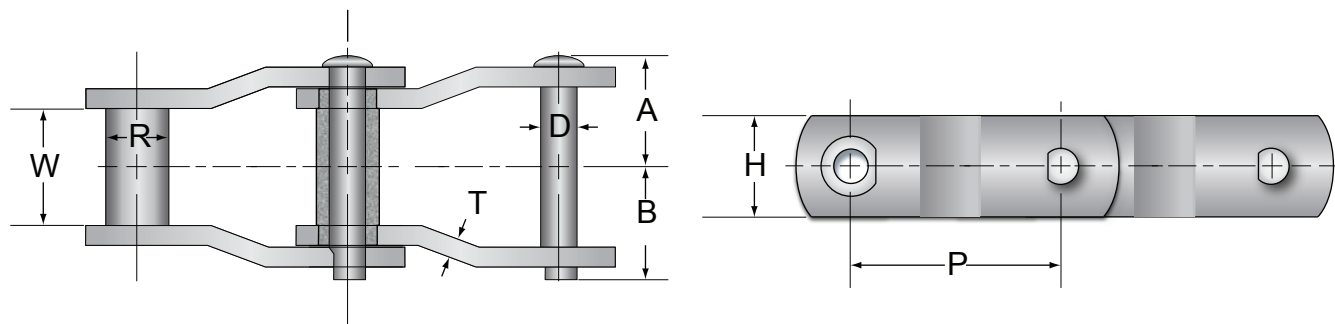
Chain Dimensions Are Given In Inches

Maxco Part Number	B	T	A	N	O	F	F ²
F-226	3.000	0.250	2.375	2.625	0.438	1.875	3.750
F-228	3.000	0.250	2.375	4.500	0.438	1.875	3.750

Engineering Class Chains

HB 78 & NH 78 Chains

HB 78 Chain



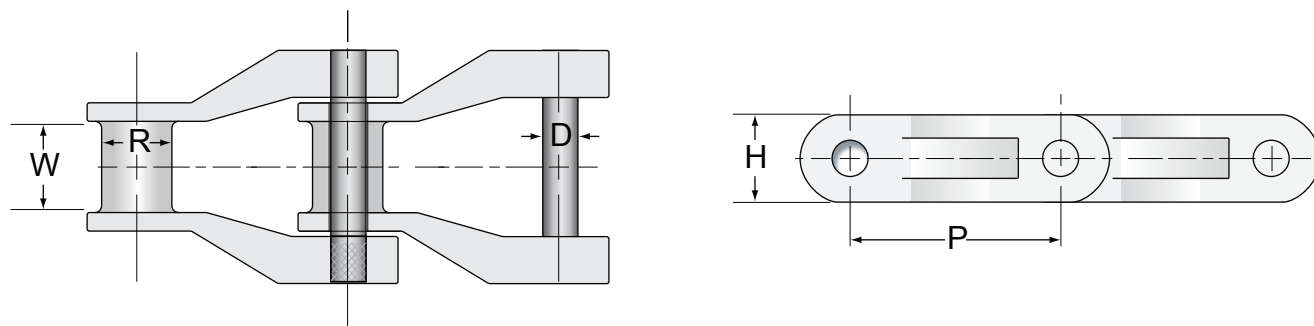
HB 78 Stainless Steel Chain Specifications

Chain Dimensions Are Given In Inches

Maxco Chain Number	Pitch	Working Load lbs	Material	Barrel		Pin			Sidebar		Min. UTS lbs	Weight lbs/ft
	P			R	W	D	A	B	H	T		
HB78	2.609	3,300	403SS	0.875	1.125	0.438	1.188	1.438	1.23	.224	21,000	3.8

Dimensions subject to change

NH 78 Chain



NH 78 Non-Metallic Chain Specifications

Chain Dimensions Are Given In Inches

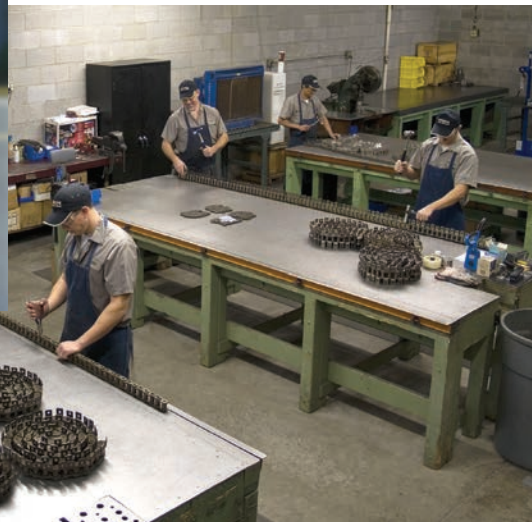
Maxco Chain Number	Pitch	Working Load lbs	Link			Pin			Average Ultimate Strength lbs	Wgt lbs/ft
	P		Material	H	R	W	D	Material		
NH78	2.609	1,750	Unfilled Acetal	1.125	0.875	1.063	0.438	18-8 CrNi Steel	4,000	1.41

Dimensions subject to change

Engineering Class Chain Product Index Section



Chain Pitch Conversions.	104 - 113
Properties of Steel	114
Weight of Steel.	115
Torque Values.	116 - 117
Chain Index	118 - 120
Conversions (measure).	120
Terms and Conditions	121
Attachment Spacing Template.	122



Engineering Class Chains

Chain Pitch Conversions

Chain Pitch 1.630" - 4.073" Converted to Feet

No. of Pitches	1.630	1.654	2.000	2.500	2.609	3.000	3.067	3.075	3.500	4.000	4.040	4.063	4.073
1	0.136	0.138	0.167	0.208	0.217	0.250	0.256	0.256	0.292	0.333	0.337	0.339	0.339
2	0.272	0.276	0.333	0.417	0.435	0.500	0.511	0.513	0.583	0.667	0.673	0.677	0.679
3	0.408	0.414	0.500	0.625	0.652	0.750	0.767	0.769	0.875	1.000	1.010	1.016	1.018
4	0.543	0.551	0.667	0.833	0.870	1.000	1.022	1.025	1.167	1.333	1.347	1.354	1.358
5	0.679	0.689	0.833	1.042	1.087	1.250	1.278	1.281	1.458	1.667	1.683	1.693	1.697
6	0.815	0.827	1.000	1.250	1.305	1.500	1.534	1.538	1.750	2.000	2.020	2.032	2.037
7	0.951	0.965	1.167	1.458	1.522	1.750	1.789	1.794	2.042	2.333	2.357	2.370	2.376
8	1.087	1.103	1.333	1.667	1.739	2.000	2.045	2.050	2.333	2.667	2.693	2.709	2.715
9	1.223	1.241	1.500	1.875	1.957	2.250	2.300	2.306	2.625	3.000	3.030	3.047	3.055
10	1.358	1.378	1.667	2.083	2.174	2.500	2.556	2.563	2.917	3.333	3.367	3.386	3.394
11	1.494	1.516	1.833	2.292	2.392	2.750	2.811	2.819	3.208	3.667	3.703	3.724	3.734
12	1.630	1.654	2.000	2.500	2.609	3.000	3.067	3.075	3.500	4.000	4.040	4.063	4.073
13	1.766	1.792	2.167	2.708	2.826	3.250	3.323	3.331	3.792	4.333	4.377	4.402	4.412
14	1.902	1.930	2.333	2.917	3.044	3.500	3.578	3.588	4.083	4.667	4.713	4.740	4.752
15	2.038	2.068	2.500	3.125	3.261	3.750	3.834	3.844	4.375	5.000	5.050	5.079	5.091
16	2.173	2.205	2.667	3.333	3.479	4.000	4.089	4.100	4.667	5.333	5.387	5.417	5.431
17	2.309	2.343	2.833	3.542	3.696	4.250	4.345	4.356	4.958	5.667	5.723	5.756	5.770
18	2.445	2.481	3.000	3.750	3.914	4.500	4.601	4.613	5.250	6.000	6.060	6.095	6.110
19	2.581	2.619	3.167	3.958	4.131	4.750	4.856	4.869	5.542	6.333	6.397	6.433	6.449
20	2.717	2.757	3.333	4.167	4.348	5.000	5.112	5.125	5.833	6.667	6.733	6.772	6.788
21	2.853	2.895	3.500	4.375	4.566	5.250	5.367	5.381	6.125	7.000	7.070	7.110	7.128
22	2.988	3.032	3.667	4.583	4.783	5.500	5.623	5.638	6.417	7.333	7.407	7.449	7.467
23	3.124	3.170	3.833	4.792	5.001	5.750	5.878	5.894	6.708	7.667	7.743	7.787	7.807
24	3.260	3.308	4.000	5.000	5.218	6.000	6.134	6.150	7.000	8.000	8.080	8.126	8.146
25	3.396	3.446	4.167	5.208	5.435	6.250	6.390	6.406	7.292	8.333	8.417	8.465	8.485
26	3.532	3.584	4.333	5.417	5.653	6.500	6.645	6.663	7.583	8.667	8.753	8.803	8.825
27	3.668	3.722	4.500	5.625	5.870	6.750	6.901	6.919	7.875	9.000	9.090	9.142	9.164
28	3.803	3.859	4.667	5.833	6.088	7.000	7.156	7.175	8.167	9.333	9.427	9.480	9.504
29	3.939	3.997	4.833	6.042	6.305	7.250	7.412	7.431	8.458	9.667	9.763	9.819	9.843
30	4.075	4.135	5.000	6.250	6.523	7.500	7.668	7.688	8.750	10.000	10.100	10.158	10.183
31	4.211	4.273	5.167	6.458	6.740	7.750	7.923	7.944	9.042	10.333	10.437	10.496	10.522
32	4.347	4.411	5.333	6.667	6.957	8.000	8.179	8.200	9.333	10.667	10.773	10.835	10.861
33	4.483	4.549	5.500	6.875	7.175	8.250	8.434	8.456	9.625	11.000	11.110	11.173	11.201
34	4.618	4.686	5.667	7.083	7.392	8.500	8.690	8.713	9.917	11.333	11.447	11.512	11.540
35	4.754	4.824	5.833	7.292	7.610	8.750	8.945	8.969	10.208	11.667	11.783	11.850	11.880
36	4.890	4.962	6.000	7.500	7.827	9.000	9.201	9.225	10.500	12.000	12.120	12.189	12.219
37	5.026	5.100	6.167	7.708	8.044	9.250	9.457	9.481	10.792	12.333	12.457	12.528	12.558
38	5.162	5.238	6.333	7.917	8.262	9.500	9.712	9.738	11.083	12.667	12.793	12.866	12.898
39	5.298	5.376	6.500	8.125	8.479	9.750	9.968	9.994	11.375	13.000	13.130	13.205	13.237
40	5.433	5.513	6.667	8.333	8.697	10.000	10.223	10.250	11.667	13.333	13.467	13.543	13.577

Chain Pitch Conversions

Chain Pitch 1.630" - 4.073" Converted to Feet

No. of Pitches	1.630	1.654	2.000	2.500	2.609	3.000	3.067	3.075	3.500	4.000	4.040	4.063	4.073
41	5.569	5.651	6.833	8.542	8.914	10.250	10.479	10.506	11.958	13.667	13.803	13.882	13.916
42	5.705	5.789	7.000	8.750	9.132	10.500	10.735	10.763	12.250	14.000	14.140	14.221	14.256
43	5.841	5.927	7.167	8.958	9.349	10.750	10.990	11.019	12.542	14.333	14.477	14.559	14.595
44	5.977	6.065	7.333	9.167	9.566	11.000	11.246	11.275	12.833	14.667	14.813	14.898	14.934
45	6.113	6.203	7.500	9.375	9.784	11.250	11.501	11.531	13.125	15.000	15.150	15.236	15.274
46	6.248	6.340	7.667	9.583	10.001	11.500	11.757	11.788	13.417	15.333	15.487	15.575	15.613
47	6.384	6.478	7.833	9.792	10.219	11.750	12.012	12.044	13.708	15.667	15.823	15.913	15.953
48	6.520	6.616	8.000	10.000	10.436	12.000	12.268	12.300	14.000	16.000	16.160	16.252	16.292
49	6.656	6.754	8.167	10.208	10.653	12.250	12.524	12.556	14.292	16.333	16.497	16.591	16.631
50	6.792	6.892	8.333	10.417	10.871	12.500	12.779	12.813	14.583	16.667	16.833	16.929	16.971
51	6.928	7.030	8.500	10.625	11.088	12.750	13.035	13.069	14.875	17.000	17.170	17.268	17.310
52	7.063	7.167	8.667	10.833	11.306	13.000	13.290	13.325	15.167	17.333	17.507	17.606	17.650
53	7.199	7.305	8.833	11.042	11.523	13.250	13.546	13.581	15.458	17.667	17.843	17.945	17.989
54	7.335	7.443	9.000	11.250	11.741	13.500	13.802	13.838	15.750	18.000	18.180	18.284	18.329
55	7.471	7.581	9.167	11.458	11.958	13.750	14.057	14.094	16.042	18.333	18.517	18.622	18.668
56	7.607	7.719	9.333	11.667	12.175	14.000	14.313	14.350	16.333	18.667	18.853	18.961	19.007
57	7.743	7.857	9.500	11.875	12.393	14.250	14.568	14.606	16.625	19.000	19.190	19.299	19.347
58	7.878	7.994	9.667	12.083	12.610	14.500	14.824	14.863	16.917	19.333	19.527	19.638	19.686
59	8.014	8.132	9.833	12.292	12.828	14.750	15.079	15.119	17.208	19.667	19.863	19.976	20.026
60	8.150	8.270	10.000	12.500	13.045	15.000	15.335	15.375	17.500	20.000	20.200	20.315	20.365
61	8.286	8.408	10.167	12.708	13.262	15.250	15.591	15.631	17.792	20.333	20.537	20.654	20.704
62	8.422	8.546	10.333	12.917	13.480	15.500	15.846	15.888	18.083	20.667	20.873	20.992	21.044
63	8.558	8.684	10.500	13.125	13.697	15.750	16.102	16.144	18.375	21.000	21.210	21.331	21.383
64	8.693	8.821	10.667	13.333	13.915	16.000	16.357	16.400	18.667	21.333	21.547	21.669	21.723
65	8.829	8.959	10.833	13.542	14.132	16.250	16.613	16.656	18.958	21.667	21.883	22.008	22.062
66	8.965	9.097	11.000	13.750	14.350	16.500	16.869	16.913	19.250	22.000	22.220	22.347	22.402
67	9.101	9.235	11.167	13.958	14.567	16.750	17.124	17.169	19.542	22.333	22.557	22.685	22.741
68	9.237	9.373	11.333	14.167	14.784	17.000	17.380	17.425	19.833	22.667	22.893	23.024	23.080
69	9.373	9.511	11.500	14.375	15.002	17.250	17.635	17.681	20.125	23.000	23.230	23.362	23.420
70	9.508	9.648	11.667	14.583	15.219	17.500	17.891	17.938	20.417	23.333	23.567	23.701	23.759
71	9.644	9.786	11.833	14.792	15.437	17.750	18.146	18.194	20.708	23.667	23.903	24.039	24.099
72	9.780	9.924	12.000	15.000	15.654	18.000	18.402	18.450	21.000	24.000	24.240	24.378	24.438
73	9.916	10.062	12.167	15.208	15.871	18.250	18.658	18.706	21.292	24.333	24.577	24.717	24.777
74	10.052	10.200	12.333	15.417	16.089	18.500	18.913	18.963	21.583	24.667	24.913	25.055	25.117
75	10.188	10.338	12.500	15.625	16.306	18.750	19.169	19.219	21.875	25.000	25.250	25.394	25.456
76	10.323	10.475	12.667	15.833	16.524	19.000	19.424	19.475	22.167	25.333	25.587	25.732	25.796
77	10.459	10.613	12.833	16.042	16.741	19.250	19.680	19.731	22.458	25.667	25.923	26.071	26.135
78	10.595	10.751	13.000	16.250	16.959	19.500	19.936	19.988	22.750	26.000	26.260	26.410	26.475
79	10.731	10.889	13.167	16.458	17.176	19.750	20.191	20.244	23.042	26.333	26.597	26.748	26.814
80	10.867	11.027	13.333	16.667	17.393	20.000	20.447	20.500	23.333	26.667	26.933	27.087	27.153

Engineering Class Chains

Chain Pitch Conversions

Chain Pitch 1.630" - 4.073" Converted to Feet

No. of Pitches	1.630	1.654	2.000	2.500	2.609	3.000	3.067	3.075	3.500	4.000	4.040	4.063	4.073
81	11.003	11.165	13.500	16.875	17.611	20.250	20.702	20.756	23.625	27.000	27.270	27.425	27.493
82	11.138	11.302	13.667	17.083	17.828	20.500	20.958	21.013	23.917	27.333	27.607	27.764	27.832
83	11.274	11.440	13.833	17.292	18.046	20.750	21.213	21.269	24.208	27.667	27.943	28.102	28.172
84	11.410	11.578	14.000	17.500	18.263	21.000	21.469	21.525	24.500	28.000	28.280	28.441	28.511
85	11.546	11.716	14.167	17.708	18.480	21.250	21.725	21.781	24.792	28.333	28.617	28.780	28.850
86	11.682	11.854	14.333	17.917	18.698	21.500	21.980	22.038	25.083	28.667	28.953	29.118	29.190
87	11.818	11.992	14.500	18.125	18.915	21.750	22.236	22.294	25.375	29.000	29.290	29.457	29.529
88	11.953	12.129	14.667	18.333	19.133	22.000	22.491	22.550	25.667	29.333	29.627	29.795	29.869
89	12.089	12.267	14.833	18.542	19.350	22.250	22.747	22.806	25.958	29.667	29.963	30.134	30.208
90	12.225	12.405	15.000	18.750	19.568	22.500	23.003	23.063	26.250	30.000	30.300	30.473	30.548
91	12.361	12.543	15.167	18.958	19.785	22.750	23.258	23.319	26.542	30.333	30.637	30.811	30.887
92	12.497	12.681	15.333	19.167	20.002	23.000	23.514	23.575	26.833	30.667	30.973	31.150	31.226
93	12.633	12.819	15.500	19.375	20.220	23.250	23.769	23.831	27.125	31.000	31.310	31.488	31.566
94	12.768	12.956	15.667	19.583	20.437	23.500	24.025	24.088	27.417	31.333	31.647	31.827	31.905
95	12.904	13.094	15.833	19.792	20.655	23.750	24.280	24.344	27.708	31.667	31.983	32.165	32.245
96	13.040	13.232	16.000	20.000	20.872	24.000	24.536	24.600	28.000	32.000	32.320	32.504	32.584
97	13.176	13.370	16.167	20.208	21.089	24.250	24.792	24.856	28.292	32.333	32.657	32.843	32.923
98	13.312	13.508	16.333	20.417	21.307	24.500	25.047	25.113	28.583	32.667	32.993	33.181	33.263
99	13.448	13.646	16.500	20.625	21.524	24.750	25.303	25.369	28.875	33.000	33.330	33.520	33.602
100	13.583	13.783	16.667	20.833	21.742	25.000	25.558	25.625	29.167	33.333	33.667	33.858	33.942
101	13.719	13.921	16.833	21.042	21.959	25.250	25.814	25.881	29.458	33.667	34.003	34.197	34.281
102	13.855	14.059	17.000	21.250	22.177	25.500	26.070	26.138	29.750	34.000	34.340	34.536	34.621
103	13.991	14.197	17.167	21.458	22.394	25.750	26.325	26.394	30.042	34.333	34.677	34.874	34.960
104	14.127	14.335	17.333	21.667	22.611	26.000	26.581	26.650	30.333	34.667	35.013	35.213	35.299
105	14.263	14.473	17.500	21.875	22.829	26.250	26.836	26.906	30.625	35.000	35.350	35.551	35.639
106	14.398	14.610	17.667	22.083	23.046	26.500	27.092	27.163	30.917	35.333	35.687	35.890	35.978
107	14.534	14.748	17.833	22.292	23.264	26.750	27.347	27.419	31.208	35.667	36.023	36.228	36.318
108	14.670	14.886	18.000	22.500	23.481	27.000	27.603	27.675	31.500	36.000	36.360	36.567	36.657
109	14.806	15.024	18.167	22.708	23.698	27.250	27.859	27.931	31.792	36.333	36.697	36.906	36.996
110	14.942	15.162	18.333	22.917	23.916	27.500	28.114	28.188	32.083	36.667	37.033	37.244	37.336
111	15.078	15.300	18.500	23.125	24.133	27.750	28.370	28.444	32.375	37.000	37.370	37.583	37.675
112	15.213	15.437	18.667	23.333	24.351	28.000	28.625	28.700	32.667	37.333	37.707	37.921	38.015
113	15.349	15.575	18.833	23.542	24.568	28.250	28.881	28.956	32.958	37.667	38.043	38.260	38.354
114	15.485	15.713	19.000	23.750	24.786	28.500	29.137	29.213	33.250	38.000	38.380	38.599	38.694
115	15.621	15.851	19.167	23.958	25.003	28.750	29.392	29.469	33.542	38.333	38.717	38.937	39.033
116	15.757	15.989	19.333	24.167	25.220	29.000	29.648	29.725	33.833	38.667	39.053	39.276	39.372
117	15.893	16.127	19.500	24.375	25.438	29.250	29.903	29.981	34.125	39.000	39.390	39.614	39.712
118	16.028	16.264	19.667	24.583	25.655	29.500	30.159	30.238	34.417	39.333	39.727	39.953	40.051
119	16.164	16.402	19.833	24.792	25.873	29.750	30.414	30.494	34.708	39.667	40.063	40.291	40.391
120	16.300	16.540	20.000	25.000	26.090	30.000	30.670	30.750	35.000	40.000	40.400	40.630	40.730

Chain Pitch Conversions

Chain Pitch 1.630" - 4.073" Converted to Feet

No. of Pitches	1.630	1.654	2.000	2.500	2.609	3.000	3.067	3.075	3.500	4.000	4.040	4.063	4.073
121	16.436	16.436	20.167	20.167	26.307	30.250	30.926	31.006	35.292	40.333	40.737	40.969	41.069
122	16.572	16.572	20.333	20.333	26.525	30.500	31.181	31.263	35.583	40.667	41.073	41.307	41.409
123	16.708	16.708	20.500	20.500	26.742	30.750	31.437	31.519	35.875	41.000	41.410	41.646	41.748
124	16.843	16.843	20.667	20.667	26.960	31.000	31.692	31.775	36.167	41.333	41.747	41.984	42.088
125	16.979	16.979	20.833	20.833	27.177	31.250	31.948	32.031	36.458	41.667	42.083	42.323	42.427
126	17.115	17.115	21.000	21.000	27.395	31.500	32.204	32.288	36.750	42.000	42.420	42.662	42.767
127	17.251	17.251	21.167	21.167	27.612	31.750	32.459	32.544	37.042	42.333	42.757	43.000	43.106
128	17.387	17.387	21.333	21.333	27.829	32.000	32.715	32.800	37.333	42.667	43.093	43.339	43.445
129	17.523	17.523	21.500	21.500	28.047	32.250	32.970	33.056	37.625	43.000	43.430	43.677	43.785
130	17.658	17.658	21.667	21.667	28.264	32.500	33.226	33.313	37.917	43.333	43.767	44.016	44.124
131	17.794	17.794	21.833	21.833	28.482	32.750	33.481	33.569	38.208	43.667	44.103	44.354	44.464
132	17.930	17.930	22.000	22.000	28.699	33.000	33.737	33.825	38.500	44.000	44.440	44.693	44.803
133	18.066	18.066	22.167	22.167	28.916	33.250	33.993	34.081	38.792	44.333	44.777	45.032	45.142
134	18.202	18.202	22.333	22.333	29.134	33.500	34.248	34.338	39.083	44.667	45.113	45.370	45.482
135	18.338	18.338	22.500	22.500	29.351	33.750	34.504	34.594	39.375	45.000	45.450	45.709	45.821
136	18.473	18.473	22.667	22.667	29.569	34.000	34.759	34.850	39.667	45.333	45.787	46.047	46.161
137	18.609	18.609	22.833	22.833	29.786	34.250	35.015	35.106	39.958	45.667	46.123	46.386	46.500
138	18.745	18.745	23.000	23.000	30.004	34.500	35.271	35.363	40.250	46.000	46.460	46.725	46.840
139	18.881	18.881	23.167	23.167	30.221	34.750	35.526	35.619	40.542	46.333	46.797	47.063	47.179
140	19.017	19.017	23.333	23.333	30.438	35.000	35.782	35.875	40.833	46.667	47.133	47.402	47.518
141	19.153	19.153	23.500	23.500	30.656	35.250	36.037	36.131	41.125	47.000	47.470	47.740	47.858
142	19.288	19.288	23.667	23.667	30.873	35.500	36.293	36.388	41.417	47.333	47.807	48.079	48.197
143	19.424	19.424	23.833	23.833	31.091	35.750	36.548	36.644	41.708	47.667	48.143	48.417	48.537
144	19.560	19.560	24.000	24.000	31.308	36.000	36.804	36.900	42.000	48.000	48.480	48.756	48.876
145	19.696	19.696	24.167	24.167	31.525	36.250	37.060	37.156	42.292	48.333	48.817	49.095	49.215
146	19.832	19.832	24.333	24.333	31.743	36.500	37.315	37.413	42.583	48.667	49.153	49.433	49.555
147	19.968	19.968	24.500	24.500	31.960	36.750	37.571	37.669	42.875	49.000	49.490	49.772	49.894
148	20.103	20.103	24.667	24.667	32.178	37.000	37.826	37.925	43.167	49.333	49.827	50.110	50.234
149	20.239	20.239	24.833	24.833	32.395	37.250	38.082	38.181	43.458	49.667	50.163	50.449	50.573
150	20.375	20.375	25.000	25.000	32.613	37.500	38.338	38.438	43.750	50.000	50.500	50.788	50.913
151	20.511	20.511	25.167	25.167	32.830	37.750	38.593	38.694	44.042	50.333	50.837	51.126	51.252
152	20.647	20.647	25.333	25.333	33.047	38.000	38.849	38.950	44.333	50.667	51.173	51.465	51.591
153	20.783	20.783	25.500	25.500	33.265	38.250	39.104	39.206	44.625	51.000	51.510	51.803	51.931
154	20.918	20.918	25.667	25.667	33.482	38.500	39.360	39.463	44.917	51.333	51.847	52.142	52.270
155	21.054	21.054	25.833	25.833	33.700	38.750	39.615	39.719	45.208	51.667	52.183	52.480	52.610
156	21.190	21.190	26.000	26.000	33.917	39.000	39.871	39.975	45.500	52.000	52.520	52.819	52.949
157	21.326	21.326	26.167	26.167	34.134	39.250	40.127	40.231	45.792	52.333	52.857	53.158	53.288
158	21.462	21.462	26.333	26.333	34.352	39.500	40.382	40.488	46.083	52.667	53.193	53.496	53.628
159	21.598	21.598	26.500	26.500	34.569	39.750	40.638	40.744	46.375	53.000	53.530	53.835	53.967
160	21.733	21.733	26.667	26.667	34.787	40.000	40.893	41.000	46.667	53.333	53.867	54.173	54.307

Engineering Class Chains

Chain Pitch Conversions

Chain Pitch 1.630" - 4.073" Converted to Feet

No. of Pitches	1.630	1.654	2.000	2.500	2.609	3.000	3.067	3.075	3.500	4.000	4.040	4.063	4.078
161	21.869	22.191	26.833	33.542	35.004	40.250	41.149	41.256	46.958	53.667	54.203	54.512	54.646
162	22.005	22.329	27.000	33.750	35.222	40.500	41.405	41.513	47.250	54.000	54.540	54.851	54.986
163	22.141	22.467	27.167	33.958	35.439	40.750	41.660	41.769	47.542	54.333	54.877	55.189	55.325
164	22.277	22.605	27.333	34.167	35.656	41.000	41.916	42.025	47.833	54.667	55.213	55.528	55.664
165	22.413	22.743	27.500	34.375	35.874	41.250	42.171	42.281	48.125	55.000	55.550	55.866	56.004
166	22.548	22.880	27.667	34.583	36.091	41.500	42.427	42.538	48.417	55.333	55.887	56.205	56.343
167	22.684	23.018	27.833	34.792	36.309	41.750	42.682	42.794	48.708	55.667	56.223	56.543	56.683
168	22.820	23.156	28.000	35.000	36.526	42.000	42.938	43.050	49.000	56.000	56.560	56.882	57.022
169	22.956	23.294	28.167	35.208	36.743	42.250	43.194	43.306	49.292	56.333	56.897	57.221	57.361
170	23.092	23.432	28.333	35.417	36.961	42.500	43.449	43.563	49.583	56.667	57.233	57.559	57.701
171	23.228	23.570	28.500	35.625	37.178	42.750	43.705	43.819	49.875	57.000	57.570	57.898	58.040
172	23.363	23.707	28.667	35.833	37.396	43.000	43.960	44.075	50.167	57.333	57.907	58.236	58.380
173	23.499	23.845	28.833	36.042	37.613	43.250	44.216	44.331	50.458	57.667	58.243	58.575	58.719
174	23.635	23.983	29.000	36.250	37.831	43.500	44.472	44.588	50.750	58.000	58.580	58.914	59.059
175	23.771	24.121	29.167	36.458	38.048	43.750	44.727	44.844	51.042	58.333	58.917	59.252	59.398
176	23.907	24.259	29.333	36.667	38.265	44.000	44.983	45.100	51.333	58.667	59.253	59.591	59.737
177	24.043	24.397	29.500	36.875	38.483	44.250	45.238	45.356	51.625	59.000	59.590	59.929	60.077
178	24.178	24.534	29.667	37.083	38.700	44.500	45.494	45.613	51.917	59.333	59.927	60.268	60.416
179	24.314	24.672	29.833	37.292	38.918	44.750	45.749	45.869	52.208	59.667	60.263	60.606	60.756
180	24.450	24.810	30.000	37.500	39.135	45.000	46.005	46.125	52.500	60.000	60.600	60.945	61.095
181	24.586	24.948	30.167	37.708	39.352	45.250	46.261	46.381	52.792	60.333	60.937	61.284	61.434
182	24.722	25.086	30.333	37.917	39.570	45.500	46.516	46.638	53.083	60.667	61.273	61.622	61.774
183	24.858	25.224	30.500	38.125	39.787	45.750	46.772	46.894	53.375	61.000	61.610	61.961	62.113
184	24.993	25.361	30.667	38.333	40.005	46.000	47.027	47.150	53.667	61.333	61.947	62.299	62.453
185	25.129	25.499	30.833	38.542	40.222	46.250	47.283	47.406	53.958	61.667	62.283	62.638	62.792
186	25.265	25.637	31.000	38.750	40.440	46.500	47.539	47.663	54.250	62.000	62.620	62.977	63.132
187	25.401	25.775	31.167	38.958	40.657	46.750	47.794	47.919	54.542	62.333	62.957	63.315	63.471
188	25.537	25.913	31.333	39.167	40.874	47.000	48.050	48.175	54.833	62.667	63.293	63.654	63.810
189	25.673	26.051	31.500	39.375	41.092	47.250	48.305	48.431	55.125	63.000	63.630	63.992	64.150
190	25.808	26.188	31.667	39.583	41.309	47.500	48.561	48.688	55.417	63.333	63.967	64.331	64.489
191	25.944	26.326	31.833	39.792	41.527	47.750	48.816	48.944	55.708	63.667	64.303	64.669	64.829
192	26.080	26.464	32.000	40.000	41.744	48.000	49.072	49.200	56.000	64.000	64.640	65.008	65.168
193	26.216	26.602	32.167	40.208	41.961	48.250	49.328	49.456	56.292	64.333	64.977	65.347	65.507
194	26.352	26.740	32.333	40.417	42.179	48.500	49.583	49.713	56.583	64.667	65.313	65.685	65.847
195	26.488	26.878	32.500	40.625	42.396	48.750	49.839	49.969	56.875	65.000	65.650	66.024	66.186
196	26.623	27.015	32.667	40.833	42.614	49.000	50.094	50.225	57.167	65.333	65.987	66.362	66.526
197	26.759	27.153	32.833	41.042	42.831	49.250	50.350	50.481	57.458	65.667	66.323	66.701	66.865
198	26.895	27.291	33.000	41.250	43.049	49.500	50.606	50.738	57.750	66.000	66.660	67.040	67.205
199	27.031	27.429	33.167	41.458	43.266	49.750	50.861	50.994	58.042	66.333	66.997	67.378	67.544
200	27.167	27.567	33.333	41.667	43.483	50.000	51.117	51.250	58.333	66.667	67.333	67.717	67.883

Chain Pitch Conversions

Chain Pitch 1.630" - 4.073" Converted to Feet

No. of Pitches	1.630	1.654	2.000	2.500	2.609	3.000	3.067	3.075	3.500	4.000	4.040	4.063	4.073
201	27.303	27.705	33.500	41.875	43.701	50.250	51.372	51.506	58.625	67.000	67.670	68.055	68.223
202	27.438	27.842	33.667	42.083	43.918	50.500	51.628	51.763	58.917	67.333	68.007	68.394	68.562
203	27.574	27.980	33.833	42.292	44.136	50.750	51.883	52.019	59.208	67.667	68.343	68.732	68.902
204	27.710	28.118	34.000	42.500	44.353	51.000	52.139	52.275	59.500	68.000	68.680	69.071	69.241
205	27.846	28.256	34.167	42.708	44.570	51.250	52.395	52.531	59.792	68.333	69.017	69.410	69.580
206	27.982	28.394	34.333	42.917	44.788	51.500	52.650	52.788	60.083	68.667	69.353	69.748	69.920
207	28.118	28.532	34.500	43.125	45.005	51.750	52.906	53.044	60.375	69.000	69.690	70.087	70.259
208	28.253	28.669	34.667	43.333	45.223	52.000	53.161	53.300	60.667	69.333	70.027	70.425	70.599
209	28.389	28.807	34.833	43.542	45.440	52.250	53.417	53.556	60.958	69.667	70.363	70.764	70.938
210	28.525	28.945	35.000	43.750	45.658	52.500	53.673	53.813	61.250	70.000	70.700	71.103	71.278
211	28.661	29.083	35.167	43.958	45.875	52.750	53.928	54.069	61.542	70.333	71.037	71.441	71.617
212	28.797	29.221	35.333	44.167	46.092	53.000	54.184	54.325	61.833	70.667	71.373	71.780	71.956
213	28.933	29.359	35.500	44.375	46.310	53.250	54.439	54.581	62.125	71.000	71.710	72.118	72.296
214	29.068	29.496	35.667	44.583	46.527	53.500	54.695	54.838	62.417	71.333	72.047	72.457	72.635
215	29.204	29.634	35.833	44.792	46.745	53.750	54.950	55.094	62.708	71.667	72.383	72.795	72.975
216	29.340	29.772	36.000	45.000	46.962	54.000	55.206	55.350	63.000	72.000	72.720	73.134	73.314
217	29.476	29.910	36.167	45.208	47.179	54.250	55.462	55.606	63.292	72.333	73.057	73.473	73.653
218	29.612	30.048	36.333	45.417	47.397	54.500	55.717	55.863	63.583	72.667	73.393	73.811	73.993
219	29.748	30.186	36.500	45.625	47.614	54.750	55.973	56.119	63.875	73.000	73.730	74.150	74.332
220	29.883	30.323	36.667	45.833	47.832	55.000	56.228	56.375	64.167	73.333	74.067	74.488	74.672
221	30.019	30.461	36.833	46.042	48.049	55.250	56.484	56.631	64.458	73.667	74.403	74.827	75.011
222	30.155	30.599	37.000	46.250	48.267	55.500	56.740	56.888	64.750	74.000	74.740	75.166	75.351
223	30.291	30.737	37.167	46.458	48.484	55.750	56.995	57.144	65.042	74.333	75.077	75.504	75.690
224	30.427	30.875	37.333	46.667	48.701	56.000	57.251	57.400	65.333	74.667	75.413	75.843	76.029
225	30.563	31.013	37.500	46.875	48.919	56.250	57.506	57.656	65.625	75.000	75.750	76.181	76.369
226	30.698	31.150	37.667	47.083	49.136	56.500	57.762	57.913	65.917	75.333	76.087	76.520	76.708
227	30.834	31.288	37.833	47.292	49.354	56.750	58.017	58.169	66.208	75.667	76.423	76.858	77.048
228	30.970	31.426	38.000	47.500	49.571	57.000	58.273	58.425	66.500	76.000	76.760	77.197	77.387
229	31.106	31.564	38.167	47.708	49.788	57.250	58.529	58.681	66.792	76.333	77.097	77.536	77.726
230	31.242	31.702	38.333	47.917	50.006	57.500	58.784	58.938	67.083	76.667	77.433	77.874	78.066
231	31.378	31.840	38.500	48.125	50.223	57.750	59.040	59.194	67.375	77.000	77.770	78.213	78.405
232	31.513	31.977	38.667	48.333	50.441	58.000	59.295	59.450	67.667	77.333	78.107	78.551	78.745
233	31.649	32.115	38.833	48.542	50.658	58.250	59.551	59.706	67.958	77.667	78.443	78.890	79.084
234	31.785	32.253	39.000	48.750	50.876	58.500	59.807	59.963	68.250	78.000	78.780	79.229	79.424
235	31.921	32.391	39.167	48.958	51.093	58.750	60.062	60.219	68.542	78.333	79.117	79.567	79.763
236	32.057	32.529	39.333	49.167	51.310	59.000	60.318	60.475	68.833	78.667	79.453	79.906	80.102
237	32.193	32.667	39.500	49.375	51.528	59.250	60.573	60.731	69.125	79.000	79.790	80.244	80.442
238	32.328	32.804	39.667	49.583	51.745	59.500	60.829	60.988	69.417	79.333	80.127	80.583	80.781
239	32.464	32.942	39.833	49.792	51.963	59.750	61.084	61.244	69.708	79.667	80.463	80.921	81.121
240	32.600	33.080	40.000	50.000	52.180	60.000	61.340	61.500	70.000	80.000	80.800	81.260	81.460

Engineering Class Chains

Chain Pitch Conversions

Chain Pitch 4.250" - 24.000" Converted to Feet

No. of Pitches	4.250	4.500	4.760	5.000	5.500	6.000	6.050	7.000	8.000	9.000	12.000	18.000	24.000
1	0.354	0.375	0.397	0.417	0.458	0.500	0.504	0.583	0.667	0.750	1.000	1.500	2.000
2	0.708	0.750	0.793	0.833	0.917	1.000	1.008	1.167	1.333	1.500	2.000	3.000	4.000
3	1.063	1.125	1.190	1.250	1.375	1.500	1.513	1.750	2.000	2.250	3.000	4.500	6.000
4	1.417	1.500	1.587	1.667	1.833	2.000	2.017	2.333	2.667	3.000	4.000	6.000	8.000
5	1.771	1.875	1.983	2.083	2.292	2.500	2.521	2.917	3.333	3.750	5.000	7.500	10.000
6	2.125	2.250	2.380	2.500	2.750	3.000	3.025	3.500	4.000	4.500	6.000	9.000	12.000
7	2.479	2.625	2.777	2.917	3.208	3.500	3.529	4.083	4.667	5.250	7.000	10.500	14.000
8	2.833	3.000	3.173	3.333	3.667	4.000	4.033	4.667	5.333	6.000	8.000	12.000	16.000
9	3.188	3.375	3.570	3.750	4.125	4.500	4.538	5.250	6.000	6.750	9.000	13.500	18.000
10	3.542	3.750	3.967	4.167	4.583	5.000	5.042	5.833	6.667	7.500	10.000	15.000	20.000
11	3.896	4.125	4.363	4.583	5.042	5.500	5.546	6.417	7.333	8.250	11.000	16.500	22.000
12	4.250	4.500	4.760	5.000	5.500	6.000	6.050	7.000	8.000	9.000	12.000	18.000	24.000
13	4.604	4.875	5.157	5.417	5.958	6.500	6.554	7.583	8.667	9.750	13.000	19.500	26.000
14	4.958	5.250	5.553	5.833	6.417	7.000	7.058	8.167	9.333	10.500	14.000	21.000	28.000
15	5.313	5.625	5.950	6.250	6.875	7.500	7.563	8.750	10.000	11.250	15.000	22.500	30.000
16	5.667	6.000	6.347	6.667	7.333	8.000	8.067	9.333	10.667	12.000	16.000	24.000	32.000
17	6.021	6.375	6.743	7.083	7.792	8.500	8.571	9.917	11.333	12.750	17.000	25.500	34.000
18	6.375	6.750	7.140	7.500	8.250	9.000	9.075	10.500	12.000	13.500	18.000	27.000	36.000
19	6.729	7.125	7.537	7.917	8.708	9.500	9.579	11.083	12.667	14.250	19.000	28.500	38.000
20	7.083	7.500	7.933	8.333	9.167	10.000	10.083	11.667	13.333	15.000	20.000	30.000	40.000
21	7.438	7.875	8.330	8.750	9.625	10.500	10.588	12.250	14.000	15.750	21.000	31.500	42.000
22	7.792	8.250	8.727	9.167	10.083	11.000	11.092	12.833	14.667	16.500	22.000	33.000	44.000
23	8.146	8.625	9.123	9.583	10.542	11.500	11.596	13.417	15.333	17.250	23.000	34.500	46.000
24	8.500	9.000	9.520	10.000	11.000	12.000	12.100	14.000	16.000	18.000	24.000	36.000	48.000
25	8.854	9.375	9.917	10.417	11.458	12.500	12.604	14.583	16.667	18.750	25.000	37.500	50.000
26	9.208	9.750	10.313	10.833	11.917	13.000	13.108	15.167	17.333	19.500	26.000	39.000	52.000
27	9.563	10.125	10.710	11.250	12.375	13.500	13.613	15.750	18.000	20.250	27.000	40.500	54.000
28	9.917	10.500	11.107	11.667	12.833	14.000	14.117	16.333	18.667	21.000	28.000	42.000	56.000
29	10.271	10.875	11.503	12.083	13.292	14.500	14.621	16.917	19.333	21.750	29.000	43.500	58.000
30	10.625	11.250	11.900	12.500	13.750	15.000	15.125	17.500	20.000	22.500	30.000	45.000	60.000
31	10.979	11.625	12.297	12.917	14.208	15.500	15.629	18.083	20.667	23.250	31.000	46.500	62.000
32	11.333	12.000	12.693	13.333	14.667	16.000	16.133	18.667	21.333	24.000	32.000	48.000	64.000
33	11.688	12.375	13.090	13.750	15.125	16.500	16.638	19.250	22.000	24.750	33.000	49.500	66.000
34	12.042	12.750	13.487	14.167	15.583	17.000	17.142	19.833	22.667	25.500	34.000	51.000	68.000
35	12.396	13.125	13.883	14.583	16.042	17.500	17.646	20.417	23.333	26.250	35.000	52.500	70.000
36	12.750	13.500	14.280	15.000	16.500	18.000	18.150	21.000	24.000	27.000	36.000	54.000	72.000
37	13.104	13.875	14.677	15.417	16.958	18.500	18.654	21.583	24.667	27.750	37.000	55.500	74.000
38	13.458	14.250	15.073	15.833	17.417	19.000	19.158	22.167	25.333	28.500	38.000	57.000	76.000
39	13.813	14.625	15.470	16.250	17.875	19.500	19.663	22.750	26.000	29.250	39.000	58.500	78.000
40	14.167	15.000	15.867	16.667	18.333	20.000	20.167	23.333	26.667	30.000	40.000	60.000	80.000

Chain Pitch Conversions

Chain Pitch 4.250" - 24.000" Converted to Feet

No. of Pitches	4.250	4.500	4.760	5.000	5.500	6.000	6.050	7.000	8.000	9.000	12.000	18.000	24.000
41	14.521	15.375	16.263	17.083	18.792	20.500	23.917	23.917	27.333	30.750	41.000	61.500	82.000
42	14.875	15.750	16.660	17.500	19.250	21.000	24.500	24.500	28.000	31.500	42.000	63.000	84.000
43	15.229	16.125	17.057	17.917	19.708	21.500	25.083	25.083	28.667	32.250	43.000	64.500	86.000
44	15.583	16.500	17.453	18.333	20.167	22.000	25.667	25.667	29.333	33.000	44.000	66.000	88.000
45	15.938	16.875	17.850	18.750	20.625	22.500	26.250	26.250	30.000	33.750	45.000	67.500	90.000
46	16.292	17.250	18.247	19.167	21.083	23.000	26.833	26.833	30.667	34.500	46.000	69.000	92.000
47	16.646	17.625	18.643	19.583	21.542	23.500	27.417	27.417	31.333	35.250	47.000	70.500	94.000
48	17.000	18.000	19.040	20.000	22.000	24.000	28.000	28.000	32.000	36.000	48.000	72.000	96.000
49	17.354	18.375	19.437	20.417	22.458	24.500	28.583	28.583	32.667	36.750	49.000	73.500	98.000
50	17.708	18.750	19.833	20.833	22.917	25.000	29.167	29.167	33.333	37.500	50.000	75.000	100.000
51	18.063	19.125	20.230	21.250	23.375	25.500	29.750	29.750	34.000	38.250	51.000	76.500	102.000
52	18.417	19.500	20.627	21.667	23.833	26.000	30.333	30.333	34.667	39.000	52.000	78.000	104.000
53	18.771	19.875	21.023	22.083	24.292	26.500	30.917	30.917	35.333	39.750	53.000	79.500	106.000
54	19.125	20.250	21.420	22.500	24.750	27.000	31.500	31.500	36.000	40.500	54.000	81.000	108.000
55	19.479	20.625	21.817	22.917	25.208	27.500	32.083	32.083	36.667	41.250	55.000	82.500	110.000
56	19.833	21.000	22.213	23.333	25.667	28.000	32.667	32.667	37.333	42.000	56.000	84.000	112.000
57	20.188	21.375	22.610	23.750	26.125	28.500	33.250	33.250	38.000	42.750	57.000	85.500	114.000
58	20.542	21.750	23.007	24.167	26.583	29.000	33.833	33.833	38.667	43.500	58.000	87.000	116.000
59	20.896	22.125	23.403	24.583	27.042	29.500	34.417	34.417	39.333	44.250	59.000	88.500	118.000
60	21.250	22.500	23.800	25.000	27.500	30.000	35.000	35.000	40.000	45.000	60.000	90.000	120.000
61	21.604	22.875	24.197	25.417	27.958	30.500	35.583	35.583	40.667	45.750	61.000	91.500	122.000
62	21.958	23.250	24.593	25.833	28.417	31.000	36.167	36.167	41.333	46.500	62.000	93.000	124.000
63	22.313	23.625	24.990	26.250	28.875	31.500	36.750	36.750	42.000	47.250	63.000	94.500	126.000
64	22.667	24.000	25.387	26.667	29.333	32.000	37.333	37.333	42.667	48.000	64.000	96.000	128.000
65	23.021	24.375	25.783	27.083	29.792	32.500	37.917	37.917	43.333	48.750	65.000	97.500	130.000
66	23.375	24.750	26.180	27.500	30.250	33.000	38.500	38.500	44.000	49.500	66.000	99.000	132.000
67	23.729	25.125	26.577	27.917	30.708	33.500	39.083	39.083	44.667	50.250	67.000	100.500	134.000
68	24.083	25.500	26.973	28.333	31.167	34.000	39.667	39.667	45.333	51.000	68.000	102.000	136.000
69	24.438	25.875	27.370	28.750	31.625	34.500	40.250	40.250	46.000	51.750	69.000	103.500	138.000
70	24.792	26.250	27.767	29.167	32.083	35.000	40.833	40.833	46.667	52.500	70.000	105.000	140.000
71	25.146	26.625	28.163	29.583	32.542	35.500	41.417	41.417	47.333	53.250	71.000	106.500	142.000
72	25.500	27.000	28.560	30.000	33.000	36.000	42.000	42.000	48.000	54.000	72.000	108.000	144.000
73	25.854	27.375	28.957	30.417	33.458	36.500	42.583	42.583	48.667	54.750	73.000	109.500	146.000
74	26.208	27.750	29.353	30.833	33.917	37.000	43.167	43.167	49.333	55.500	74.000	111.000	148.000
75	26.563	28.125	29.750	31.250	34.375	37.500	43.750	43.750	50.000	56.250	75.000	112.500	150.000
76	26.917	28.500	30.147	31.667	34.833	38.000	44.333	44.333	50.667	57.000	76.000	114.000	152.000
77	27.271	28.875	30.543	32.083	35.292	38.500	44.917	44.917	51.333	57.750	77.000	115.500	154.000
78	27.625	29.250	30.940	32.500	35.750	39.000	45.500	45.500	52.000	58.500	78.000	117.000	156.000
79	27.979	29.625	31.337	32.917	36.208	39.500	46.083	46.083	52.667	59.250	79.000	118.500	158.000
80	28.333	30.000	31.733	33.333	36.667	40.000	46.667	46.667	53.333	60.000	80.000	120.000	160.000

Engineering Class Chains

Chain Pitch Conversions

Chain Pitch 4.250" - 24.000" Converted to Feet

No. of Pitches	4.250	4.500	4.760	5.000	5.500	6.000	6.050	7.000	8.000	9.000	12.000	18.000	24.000
81	28.688	30.375	32.130	33.750	37.125	40.500	40.838	47.250	54.000	60.750	81.000	121.500	162.000
82	29.042	30.750	32.527	34.167	37.583	41.000	41.342	47.833	54.667	61.500	82.000	123.000	164.000
83	29.396	31.125	32.923	34.583	38.042	41.500	41.846	48.417	55.333	62.250	83.000	124.500	166.000
84	29.750	31.500	33.320	35.000	38.500	42.000	42.350	49.000	56.000	63.000	84.000	126.000	168.000
85	30.104	31.875	33.717	35.417	38.958	42.500	42.854	49.583	56.667	63.750	85.000	127.500	170.000
86	30.458	32.250	34.113	35.833	39.417	43.000	43.358	50.167	57.333	64.500	86.000	129.000	172.000
87	30.813	32.625	34.510	36.250	39.875	43.500	43.863	50.750	58.000	65.250	87.000	130.500	174.000
88	31.167	33.000	34.907	36.667	40.333	44.000	44.367	51.333	58.667	66.000	88.000	132.000	176.000
89	31.521	33.375	35.303	37.083	40.792	44.500	44.871	51.917	59.333	66.750	89.000	133.500	178.000
90	31.875	33.750	35.700	37.500	41.250	45.000	45.375	52.500	60.000	67.500	90.000	135.000	180.000
91	32.229	34.125	36.097	37.917	41.708	45.500	45.879	53.083	60.667	68.250	91.000	136.500	182.000
92	32.583	34.500	36.493	38.333	42.167	46.000	46.383	53.667	61.333	69.000	92.000	138.000	184.000
93	32.938	34.875	36.890	38.750	42.625	46.500	46.888	54.250	62.000	69.750	93.000	139.500	186.000
94	33.292	35.250	37.287	39.167	43.083	47.000	47.392	54.833	62.667	70.500	94.000	141.000	188.000
95	33.646	35.625	37.683	39.583	43.542	47.500	47.896	55.417	63.333	71.250	95.000	142.500	190.000
96	34.000	36.000	38.080	40.000	44.000	48.000	48.400	56.000	64.000	72.000	96.000	144.000	192.000
97	34.354	36.375	38.477	40.417	44.458	48.500	48.904	56.583	64.667	72.750	97.000	145.500	194.000
98	34.708	36.750	38.873	40.833	44.917	49.000	49.408	57.167	65.333	73.500	98.000	147.000	196.000
99	35.063	37.125	39.270	41.250	45.375	49.500	49.913	57.750	66.000	74.250	99.000	148.500	198.000
100	35.417	37.500	39.667	41.667	45.833	50.000	50.417	58.333	66.667	75.000	100.000	150.000	200.000
101	35.771	37.875	40.063	42.083	46.292	50.500	50.921	58.917	67.333	75.750	101.000	151.500	202.000
102	36.125	38.250	40.460	42.500	46.750	51.000	51.425	59.500	68.000	76.500	102.000	153.000	204.000
103	36.479	38.625	40.857	42.917	47.208	51.500	51.929	60.083	68.667	77.250	103.000	154.500	206.000
104	36.833	39.000	41.253	43.333	47.667	52.000	52.433	60.667	69.333	78.000	104.000	156.000	208.000
105	37.188	39.375	41.650	43.750	48.125	52.500	52.938	61.250	70.000	78.750	105.000	157.500	210.000
106	37.542	39.750	42.047	44.167	48.583	53.000	53.442	61.833	70.667	79.500	106.000	159.000	212.000
107	37.896	40.125	42.443	44.583	49.042	53.500	53.946	62.417	71.333	80.250	107.000	160.500	214.000
108	38.250	40.500	42.840	45.000	49.500	54.000	54.450	63.000	72.000	81.000	108.000	162.000	216.000
109	38.604	40.875	43.237	45.417	49.958	54.500	54.954	63.583	72.667	81.750	109.000	163.500	218.000
110	38.958	41.250	43.633	45.833	50.417	55.000	55.458	64.167	73.333	82.500	110.000	165.000	220.000
111	39.313	41.625	44.030	46.250	50.875	55.500	55.963	64.750	74.000	83.250	111.000	166.500	222.000
112	39.667	42.000	44.427	46.667	51.333	56.000	56.467	65.333	74.667	84.000	112.000	168.000	224.000
113	40.021	42.375	44.823	47.083	51.792	56.500	56.971	65.917	75.333	84.750	113.000	169.500	226.000
114	40.375	42.750	45.220	47.500	52.250	57.000	57.475	66.500	76.000	85.500	114.000	171.000	228.000
115	40.729	43.125	45.617	47.917	52.708	57.500	57.979	67.083	76.667	86.250	115.000	172.500	230.000
116	41.083	43.500	46.013	48.333	53.167	58.000	58.483	67.667	77.333	87.000	116.000	174.000	232.000
117	41.438	43.875	46.410	48.750	53.625	58.500	58.988	68.250	78.000	87.750	117.000	175.500	234.000
118	41.792	44.250	46.807	49.167	54.083	59.000	59.492	68.833	78.667	88.500	118.000	177.000	236.000
119	42.146	44.625	47.203	49.583	54.542	59.500	59.996	69.417	79.333	89.250	119.000	178.500	238.000
120	42.500	45.000	47.600	50.000	55.000	60.000	60.500	70.000	80.000	90.000	120.000	180.000	240.000

Chain Pitch Conversions

Chain Pitch 4.250" - 24.000" Converted to Feet

No. of Pitches	4.250	4.500	4.760	5.000	5.500	6.000	6.050	7.000	8.000	9.000	12.000	18.000	24.000
121	42.854	45.375	47.997	50.417	55.458	60.500	61.004	70.583	80.667	90.750	121.000	181.500	242.000
122	43.208	45.750	48.393	50.833	55.917	61.000	61.508	71.167	81.333	91.500	122.000	183.000	244.000
123	43.563	46.125	48.790	51.250	56.375	61.500	62.013	71.750	82.000	92.250	123.000	184.500	246.000
124	43.917	46.500	49.187	51.667	56.833	62.000	62.517	72.333	82.667	93.000	124.000	186.000	248.000
125	44.271	46.875	49.583	52.083	57.292	62.500	63.021	72.917	83.333	93.750	125.000	187.500	250.000
126	44.625	47.250	49.980	52.500	57.750	63.000	63.525	73.500	84.000	94.500	126.000	189.000	252.000
127	44.979	47.625	50.377	52.917	58.208	63.500	64.029	74.083	84.667	95.250	127.000	190.500	254.000
128	45.333	48.000	50.773	53.333	58.667	64.000	64.533	74.667	85.333	96.000	128.000	192.000	256.000
129	45.688	48.375	51.170	53.750	59.125	64.500	65.038	75.250	86.000	96.750	129.000	193.500	258.000
130	46.042	48.750	51.567	54.167	59.583	65.000	65.542	75.833	86.667	97.500	130.000	195.000	260.000
131	46.396	49.125	51.963	54.583	60.042	65.500	66.046	76.417	87.333	98.250	131.000	196.500	262.000
132	46.750	49.500	52.360	55.000	60.500	66.000	66.550	77.000	88.000	99.000	132.000	198.000	264.000
133	47.104	49.875	52.757	55.417	60.958	66.500	67.054	77.583	88.667	99.750	133.000	199.500	266.000
134	47.458	50.250	53.153	55.833	61.417	67.000	67.558	78.167	89.333	100.500	134.000	201.000	268.000
135	47.813	50.625	53.550	56.250	61.875	67.500	68.063	78.750	90.000	101.250	135.000	202.500	270.000
136	48.167	51.000	53.947	56.667	62.333	68.000	68.567	79.333	90.667	102.000	136.000	204.000	272.000
137	48.521	51.375	54.343	57.083	62.792	68.500	69.071	79.917	91.333	102.750	137.000	205.500	274.000
138	48.875	51.750	54.740	57.500	63.250	69.000	69.575	80.500	92.000	103.500	138.000	207.000	276.000
139	49.229	52.125	55.137	57.917	63.708	69.500	70.079	81.083	92.667	104.250	139.000	208.500	278.000
140	49.583	52.500	55.533	58.333	64.167	70.000	70.583	81.667	93.333	105.000	140.000	210.000	280.000
141	49.938	52.875	55.930	58.750	64.625	70.500	71.088	82.250	94.000	105.750	141.000	211.500	282.000
142	50.292	53.250	56.327	59.167	65.083	71.000	71.592	82.833	94.667	106.500	142.000	213.000	284.000
143	50.646	53.625	56.723	59.583	65.542	71.500	72.096	83.417	95.333	107.250	143.000	214.500	286.000
144	51.000	54.000	57.120	60.000	66.000	72.000	72.600	84.000	96.000	108.000	144.000	216.000	288.000
145	51.354	54.375	57.517	60.417	66.458	72.500	73.104	84.583	96.667	108.750	145.000	217.500	290.000
146	51.708	54.750	57.913	60.833	66.917	73.000	73.608	85.167	97.333	109.500	146.000	219.000	292.000
147	52.063	55.125	58.310	61.250	67.375	73.500	74.113	85.750	98.000	110.250	147.000	220.500	294.000
148	52.417	55.500	58.707	61.667	67.833	74.000	74.617	86.333	98.667	111.000	148.000	222.000	296.000
149	52.771	55.875	59.103	62.083	68.292	74.500	75.121	86.917	99.333	111.750	149.000	223.500	298.000
150	53.125	56.250	59.500	62.500	68.750	75.000	75.625	87.500	100.000	112.500	150.000	225.000	300.000
151	53.479	56.625	59.897	62.917	69.208	75.500	76.129	88.083	100.667	113.250	151.000	226.500	302.000
152	53.833	57.000	60.293	63.333	69.667	76.000	76.633	88.667	101.333	114.000	152.000	228.000	304.000
153	54.188	57.375	60.690	63.750	70.125	76.500	77.138	89.250	102.000	114.750	153.000	229.500	306.000
154	54.542	57.750	61.087	64.167	70.583	77.000	77.642	89.833	102.667	115.500	154.000	231.000	308.000
155	54.896	58.125	61.483	64.583	71.042	77.500	78.146	90.417	103.333	116.250	155.000	232.500	310.000
156	55.250	58.500	61.880	65.000	71.500	78.000	78.650	91.000	104.000	117.000	156.000	234.000	312.000
157	55.604	58.875	62.277	65.417	71.958	78.500	79.154	91.583	104.667	117.750	157.000	235.500	314.000
158	55.958	59.250	62.673	65.833	72.417	79.000	79.658	92.167	105.333	118.500	158.000	237.000	316.000
159	56.313	59.625	63.070	66.250	72.875	79.500	80.163	92.750	106.000	119.250	159.000	238.500	318.000
160	56.667	60.000	63.467	66.667	73.333	80.000	80.667	93.333	106.667	120.000	160.000	240.000	320.000

Engineering Class Chains

Properties of Steel

Relation of Hardness to Strength of Steel							
Rockwell "C" 150 Kg Load 120 deg	Rockwell "B" 100 Kg Load 1/16 inch	Brinell Hardness Number 120 deg Standard Ball	Approximate Tensile Strength of Steel (lbs)	Rockwell "C" 150 Kg Load 120 deg	Rockwell "B" 100 Kg Load 1/16 inch	Brinell Hardness Number	Approximate Tensile Strength of Steel (lbs)
Diamond Cone	Diamond Ball	Standard Ball		Diamond Cone	Diamond Ball	Standard Ball	
68	-	*745	368,000	24	101	248	122,000
63	-	*710	350,000	23	100	241	118,000
62	-	*682	340,000	22	99	235	115,000
60	-	*653	330,000	21	98	229	111,000
59	-	*627	323,000	19	97	223	108,000
57	-	*601	309,000	18	96	217	105,000
56	-	*578	297,000	16	96	212	102,000
55	120	*555	285,000	15	95	207	100,000
54	119	*534	274,000	14	94	201	98,000
53	119	*514	263,000	13	93	197	95,000
52	117	495	259,000	12	92	192	93,000
50	117	477	247,000	10	91	187	90,000
49	116	461	237,000	9	90	183	89,000
47	115	444	226,000	8	89	179	87,000
46	115	429	217,000	6	88	174	85,000
45	114	415	210,000	5	87	170	83,000
43	113	401	202,000	4	86	167	81,000
42	112	388	195,000	3	85	163	79,000
40	112	375	188,000	1	83	156	76,000
39	110	363	182,000	-	81	149	73,000
38	110	352	176,000	-	79	143	71,000
37	109	341	170,000	-	76	137	67,000
36	109	331	166,000	-	74	131	65,000
34	108	321	160,000	-	72	126	63,000
33	108	311	155,000	-	70	121	60,000
32	107	302	150,000	-	68	116	58,000
31	106	293	145,000	-	66	111	56,000
30	106	285	141,000	-	64	107	55,000
29	105	277	137,000	-	61	103	53,000
28	104	269	133,000	-	59	99	51,000
27	103	262	129,000	-	56	95	49,000
25	102	255	126,000				

*Tungsten Carbide Ball

Material	Strength of Materials				
	Tensile Strength (lbs)	Compressive Strength (lbs)	Shear Strength (lbs)	Yield Strength (psi)	Modulus of Elasticity
Gray Cast Iron (average grade)	22,000	100,000	24,000		16,000,000
Gray Cast Iron (good grade)	30,000	125,000	35,000		20,000,000
Gray Cast Iron (high strength grade)	40,000	175,000	45,000		22,000,000
Malleable Iron	53,000	-	48,000	35,000	25,000,000
Wrought Iron	48,000	46,000	40,000	25,000	27,000,000
Cast Medium Carbon Steel	70,000	70,000	60,000	40,000	30,000,000
Hot Rolled Carbon Steel	60,000	60,000	45,000	30,000	30,000,000
Cold Rolled Carbon Steel	75,000	75,000	55,000	40,000	30,000,000
Rivet Steel	57,000	57,000	44,000	36,000	30,000,000
Structural Steel	60,000	60,000	45,000	30,000	30,000,000

Weight of Steel

Weight of Steel Bar Stock											
Size Inches	Weight (lbs/ft)		Size Inches	Weight (lbs/ft)		Size Inches	Weight (lbs/ft)		Size Inches	Weight (lbs/ft)	
	SQUARE	ROUND		SQUARE	ROUND		SQUARE	ROUND		SQUARE	ROUND
0.063	0.013	0.010	3.063	31.88	25.05	6.063	124.95	98.17	9.063	279.21	219.37
0.125	0.053	0.042	3.125	33.20	26.08	6.125	127.54	100.21	9.125	283.07	222.41
0.188	0.120	0.094	3.188	34.54	27.14	6.188	130.15	102.26	9.188	286.96	225.47
0.250	0.212	0.167	3.250	35.91	28.21	6.250	132.80	104.34	9.250	290.88	228.54
0.313	0.332	0.261	3.313	37.30	29.31	6.313	135.47	106.44	9.313	294.82	231.64
0.375	0.478	0.376	3.375	38.72	30.43	6.375	138.16	108.55	9.375	298.79	234.76
0.438	0.651	0.511	3.438	40.17	31.56	6.438	140.88	110.69	9.438	302.79	237.90
0.500	0.850	0.668	3.500	41.65	32.72	6.500	143.63	112.85	9.500	306.81	241.06
0.563	1.076	0.845	3.563	43.15	33.90	6.563	146.41	115.03	9.563	310.86	244.25
0.625	1.328	1.043	3.625	44.67	35.10	6.625	149.21	117.23	9.625	314.94	247.45
0.688	1.607	1.262	3.688	46.23	36.32	6.688	152.04	119.46	9.688	319.04	250.67
0.750	1.912	1.502	3.750	47.81	37.56	6.750	154.89	121.70	9.750	323.17	253.92
0.813	2.244	1.763	3.813	49.41	38.82	6.813	157.78	123.96	9.813	327.33	257.18
0.875	2.603	2.045	3.875	51.05	40.11	6.875	160.68	126.25	9.875	331.51	260.47
0.938	2.988	2.348	3.938	52.71	41.41	6.938	163.62	128.56	9.938	335.72	263.78
1.000	3.400	2.671	4.000	54.39	42.74	7.000	166.58	130.88	10.000	339.96	267.11
1.063	3.838	3.015	4.063	56.11	44.08	7.063	169.57	133.23	10.063	344.22	270.46
1.125	4.303	3.381	4.125	57.85	45.45	7.125	172.58	135.60	10.125	348.51	273.83
1.188	4.794	3.767	4.188	59.61	46.84	7.188	175.62	137.99	10.188	352.83	277.22
1.250	5.312	4.174	4.250	61.41	48.25	7.250	178.69	140.40	10.250	357.17	280.63
1.313	5.856	4.601	4.313	63.22	49.68	7.313	181.79	142.83	10.313	361.54	284.06
1.375	6.427	5.050	4.375	65.07	51.13	7.375	184.91	145.28	10.375	365.94	287.52
1.438	7.025	5.520	4.438	66.94	52.60	7.438	188.05	147.75	10.438	370.36	290.99
1.500	7.649	6.010	4.500	68.84	54.09	7.500	191.23	150.25	10.500	374.81	294.48
1.563	8.300	6.521	4.563	70.77	55.60	7.563	194.43	152.76	10.563	379.28	298.00
1.625	8.977	7.053	4.625	72.72	57.14	7.625	197.65	155.30	10.625	383.78	301.54
1.688	9.681	7.606	4.688	74.70	58.69	7.688	200.91	157.85	10.688	388.31	305.10
1.750	10.41	8.180	4.750	76.70	60.27	7.750	204.19	160.43	10.750	392.87	308.68
1.813	11.17	8.775	4.813	78.74	61.86	7.813	207.50	163.03	10.813	397.45	312.27
1.875	11.95	9.390	4.875	80.79	63.48	7.875	210.83	165.65	10.875	402.06	315.90
1.938	12.76	10.03	4.938	82.88	65.12	7.938	214.19	168.29	10.938	406.69	319.54
2.000	13.60	10.68	5.000	84.99	66.78	8.000	217.57	170.95	11.000	411.35	323.20
2.063	14.46	11.36	5.063	87.13	68.46	8.063	220.99	173.63	11.063	416.04	326.88
2.125	15.35	12.06	5.125	89.29	70.16	8.125	224.43	176.33	11.125	420.75	330.59
2.188	16.27	12.78	5.188	91.48	71.88	8.188	227.89	179.06	11.188	425.49	334.31
2.250	17.21	13.52	5.250	93.70	73.62	8.250	231.39	181.80	11.250	430.26	338.06
2.313	18.18	14.28	5.313	95.95	75.38	8.313	234.90	184.56	11.313	435.06	341.82
2.375	19.18	15.07	5.375	98.22	77.17	8.375	238.45	187.35	11.375	439.88	345.61
2.438	20.20	15.87	5.438	100.51	78.97	8.438	242.02	190.16	11.438	444.72	349.42
2.500	21.25	16.69	5.500	102.84	80.80	8.500	245.62	192.98	11.500	449.60	353.25
2.563	22.32	17.54	5.563	105.19	82.65	8.563	249.25	195.83	11.563	454.50	357.10
2.625	23.43	18.41	5.625	107.57	84.51	8.625	252.90	198.70	11.625	459.42	360.97
2.688	24.55	19.29	5.688	109.97	86.40	8.688	256.58	201.59	11.688	464.38	364.86
2.750	25.71	20.20	5.750	112.40	88.31	8.750	260.28	204.50	11.750	469.36	368.77
2.813	26.89	21.13	5.813	114.86	90.24	8.813	264.01	207.44	11.813	474.36	372.71
2.875	28.10	22.08	5.875	117.34	92.19	8.875	267.77	210.39	11.875	479.40	376.66
2.938	29.33	23.05	5.938	119.85	94.17	8.938	271.56	213.36	11.938	484.46	380.64
3.000	30.60	24.04	6.000	122.39	96.16	9.000	275.37	216.36	12.000	489.54	384.63

Conversion Factors: Cast Iron = 0.9187
 Brass = 1.07
 Copper and Bronze = 1.128

Engineering Class Chains

Torque Values

Torque Values (inch-lbs) Given Horsepower and RPM										
HORSEPOWER										
RPM	0.125	0.25	0.50	0.75	1.00	1.50	2.00	2.50	3.00	5.00
0.10	78,781	157,563	315,125	472,688						
0.20	39,391	78,781	157,563	236,344	315,125	472,688				
0.30	26,260	52,521	105,042	157,563	210,083	315,125	420,167			
0.40	19,695	39,391	78,781	118,172	157,563	236,344	315,125	393,906	472,688	
0.50	15,756	31,513	63,025	94,538	126,050	189,075	252,100	315,125	378,150	
0.60	13,130	26,260	52,521	78,781	105,042	157,563	210,083	262,604	315,125	
0.70	11,254	22,509	45,018	67,527	90,036	135,054	180,071	225,089	270,107	450,179
0.80	9,848	19,695	39,391	59,086	78,781	118,172	157,563	196,953	236,344	393,906
0.90	8,753	17,507	35,014	52,521	70,028	105,042	140,056	175,069	210,083	350,139
1.00	7,878	15,756	31,513	47,269	63,025	94,538	126,050	157,563	189,075	315,125
1.25	6,303	12,605	25,210	37,815	50,420	75,630	100,840	126,050	151,260	252,100
1.50	5,252	10,504	21,008	31,513	42,017	63,025	84,033	105,042	126,050	210,083
1.75	4,502	9,004	18,007	27,011	36,014	54,021	72,029	90,036	108,043	180,071
2.00	3,939	7,878	15,756	23,634	31,513	47,269	63,025	78,781	94,538	157,563
2.50	3,151	6,303	12,605	18,908	25,210	37,815	50,420	63,025	75,630	126,050
3.00	2,626	5,252	10,504	15,756	21,008	31,513	42,017	52,521	63,025	105,042
4.00	1,970	3,939	7,878	11,817	15,756	23,634	31,513	39,391	47,269	78,781
5.00	1,576	3,151	6,303	9,454	12,605	18,908	25,210	31,513	37,815	63,025
6.00	1,313	2,626	5,252	7,878	10,504	15,756	21,008	26,260	31,513	52,521
7.00	1,125	2,251	4,502	6,753	9,004	13,505	18,007	22,509	27,011	45,018
8.00	985	1,970	3,939	5,909	7,878	11,817	15,756	19,695	23,634	39,391
9.00	875	1,751	3,501	5,252	7,003	10,504	14,006	17,507	21,008	35,014
10.00	788	1,576	3,151	4,727	6,303	9,454	12,605	15,756	18,908	31,513
12.00	657	1,313	2,626	3,939	5,252	7,878	10,504	13,130	15,756	26,260
14.00	563	1,125	2,251	3,376	4,502	6,753	9,004	11,254	13,505	22,509
16.00	492	985	1,970	2,954	3,939	5,909	7,878	9,848	11,817	19,695
18.00	438	875	1,751	2,626	3,501	5,252	7,003	8,753	10,504	17,507
20.00	394	788	1,576	2,363	3,151	4,727	6,303	7,878	9,454	15,756
25.00	315	630	1,261	1,891	2,521	3,782	5,042	6,303	7,563	12,605
30.00	263	525	1,050	1,576	2,101	3,151	4,202	5,252	6,303	10,504
40.00	197	394	788	1,182	1,576	2,363	3,151	3,939	4,727	7,878
50.00	158	315	630	945	1,261	1,891	2,521	3,151	3,782	6,303
60.00	131	263	525	788	1,050	1,576	2,101	2,626	3,151	5,252
70.00	113	225	450	675	900	1,351	1,801	2,251	2,701	4,502
80.00	98	197	394	591	788	1,182	1,576	1,970	2,363	3,939
90.00	88	175	350	525	700	1,050	1,401	1,751	2,101	3,501
100.00	79	158	315	473	630	945	1,261	1,576	1,891	3,151

$$\text{Horsepower} = (\text{Torque} \times \text{rpm}) / 63,000^*$$

$$\text{Horsepower} = (\text{Torque} \times \text{rpm}) / 5,250^{**}$$

* Torque is given in inch - lbs

** Torque is given in foot - lbs

Torque Values (cont)

Torque Values (inch-lbs) Given Horsepower and RPM										
HORSEPOWER										
RPM	7.5	10.0	15.0	20.0	25.0	30.0	35.0	40.0	50.0	75.0
0.10										
0.20										
0.30										
0.40										
0.50										
0.60										
0.70										
0.80										
0.90										
1.00	472,688									
1.25	378,150									
1.50	315,125	420,167								
1.75	270,107	360,143								
2.00	236,344	315,125	472,688							
2.50	189,075	252,100	378,150							
3.00	157,563	210,083	315,125	420,167						
4.00	118,172	157,563	236,344	315,125	393,906	472,688				
5.00	94,538	126,050	189,075	252,100	315,125	378,150	441,175			
6.00	78,781	105,042	157,563	210,083	262,604	315,125	367,646	420,167		
7.00	67,527	90,036	135,054	180,071	225,089	270,107	315,125	360,143	450,179	
8.00	59,086	78,781	118,172	157,563	196,953	236,344	275,734	315,125	393,906	
9.00	52,521	70,028	105,042	140,056	175,069	210,083	245,097	280,111	350,139	
10.00	47,269	63,025	94,538	126,050	157,563	189,075	220,588	252,100	315,125	472,688
12.00	39,391	52,521	78,781	105,042	131,302	157,563	183,823	210,083	262,604	393,906
14.00	33,763	45,018	67,527	90,036	112,545	135,054	157,563	180,071	225,089	337,634
16.00	29,543	39,391	59,086	78,781	98,477	118,172	137,867	157,563	196,953	295,430
18.00	26,260	35,014	52,521	70,028	87,535	105,042	122,549	140,056	175,069	262,604
20.00	23,634	31,513	47,269	63,025	78,781	94,538	110,294	126,050	157,563	236,344
25.00	18,908	25,210	37,815	50,420	63,025	75,630	88,235	100,840	126,050	189,075
30.00	15,756	21,008	31,513	42,017	52,521	63,025	73,529	84,033	105,042	157,563
40.00	11,817	15,756	23,634	31,513	39,391	47,269	55,147	63,025	78,781	118,172
50.00	9,454	12,605	18,908	25,210	31,513	37,815	44,118	50,420	63,025	94,538
60.00	7,878	10,504	15,756	21,008	26,260	31,513	36,765	42,017	52,521	78,781
70.00	6,753	9,004	13,505	18,007	22,509	27,011	31,513	36,014	45,018	67,527
80.00	5,909	7,878	11,817	15,756	19,695	23,634	27,573	31,513	39,391	59,086
90.00	5,252	7,003	10,504	14,006	17,507	21,008	24,510	28,011	35,014	52,521
100.00	4,727	6,303	9,454	12,605	15,756	18,908	22,059	25,210	31,513	47,269

Horsepower = (Torque x rpm) / 63,000*

Horsepower = (Torque x rpm) / 5,250**

* Torque is given in inch - lbs

** Torque is given in foot - lbs

Engineering Class Chains

Chain Index

MAXCO Chain Number	Pitch	Product	Page	MAXCO Chain Number	Pitch	Product	Page
JB2	2.000	Mining Chain	87	94R	4.000	Roller Conveyor	12
HP3H	3.075	Drive Chain	7	95R	4.000	Roller Conveyor	12
CC5A	6.000	Raised Sidebar	23	96R	6.000	Roller Conveyor	12
25	0.902	Detachable Chain	91	96RX	6.000	Roller Conveyor	12
H25H	2.500	Drive Chain	7	97R	4.000	Roller Conveyor	12
32	1.154	Detachable Chain	91	102B	4.000	Steel Bushed	32
42	1.375	Detachable Chain	91	C102B	4.000	Cast Combination	39
45	1.630	Detachable Chain	91	WD102	5.000	Welded Steel Drag	53
51	1.155	Detachable Chain	91	102 1/2	4.040	Steel Bushed	32
52	1.506	Detachable Chain	91	C102 1/2	4.040	Cast Combination	39
53R	3.000	Roller Conveyor	12	103	3.075	Detachable Chain	91
55	1.631	Detachable Chain	91	WD104	6.000	Welded Steel Drag	53
C55	1.631	Cast Combination	39	WR106	6.000	Welded Steel	44
C55A	1.631	Transfer Chain	62	110	6.000	Steel Bushed	32
C55B	1.631	Transfer Chain	62	C110	6.000	Cast Combination	39
C55D	1.631	Transfer Chain	62	WD110	6.000	Welded Steel Drag	53
57	2.308	Detachable Chain	91	111	4.760	Steel Bushed	32
C60	2.308	Cast Combination	39	C111	4.760	Cast Combination	39
H60	2.308	H-Class Mill Chain	59	WR111	4.760	Welded Steel	44
62	1.654	Detachable Chain	91	WD112	8.000	Welded Steel Drag	53
64S	2.500	Mining Chain	87	WD113	6.000	Welded Steel Drag	53
64SM	2.500	Mining Chain	87	WD116	8.000	Welded Steel Drag	53
67	2.308	Detachable Chain	91	119R	3.075	Roller Conveyor	12
H74	2.609	H-Class Mill Chain	59	119RX	3.075	Roller Conveyor	12
75	2.609	Detachable Chain	91	WD122	8.000	Welded Steel Drag	53
77	2.297	Detachable Chain	91	H124	4.000	H-Class Mill Chain	59
C77	2.308	Cast Combination	39	WR124	4.000	Welded Steel	44
78	2.609	Detachable Chain	91	WR124H	4.063	Welded Steel	44
H78	2.609	H-Class Mill Chain	59	H130A	4.000	Transfer Chain	62
H78A	2.609	Transfer Chain	62	131	3.075	Steel Bushed	32
H78B	2.609	Transfer Chain	62	C131	3.075	Cast Combination	39
HB78	2.609	Stainless Drive Chain	101	C132	6.050	Cast Combination	39
NH78	2.609	Non Metallic Drive Chain	102	WC132	6.050	Welded Steel	44
WR78	2.609	Welded Steel	44	WR132	6.050	Welded Steel	44
H82	3.075	H-Class Mill Chain	59	H138B	4.000	Transfer Chain	62
WR82	3.075	Welded Steel	44	150X	6.050	Steel Bushed	32
WR82H	3.075	Welded Steel	44	WR155	6.050	Welded Steel	44
83R	4.000	Roller Conveyor	12	160F-SF	4.000	Proofer Chain	80
84R	4.000	Roller Conveyor	12	188	2.609	Steel Bushed	32
86R	6.000	Roller Conveyor	12	C188	2.609	Cast Combination	39
88	2.609	Detachable Chain	91	196R	6.000	Roller Conveyor	12
89R	4.000	Roller Conveyor	12	H238	3.500	Drive Chain	7
90R	4.000	Roller Conveyor	12	278R	2.609	Roller Conveyor	12
91R	4.000	Roller Conveyor	12	H344SXX	3.000	Drive Chain	7
93R	3.000	Roller Conveyor	12	X348	3.015	Drop Forged Rivetless	57

Chain Index

MAXCO Chain Number	Pitch	Product	Page	MAXCO Chain Number	Pitch	Product	Page
378R	1.654	Roller Conveyor	12	973R	9.000	Roller Conveyor	13
378RX	1.654	Roller Conveyor	12	H1031	3.075	Drive Chain	7
442	1.375	400 Class Pintle Chain	64	103100	3.000	Draw Bench Chain	74
445	1.630	400 Class Pintle Chain	64	1113R	4.040	Roller Conveyor	12
452	1.506	400 Class Pintle Chain	64	1126R	6.000	Roller Conveyor	13
455	1.630	400 Class Pintle Chain	64	1126RS	6.000	Roller Conveyor	13
X458	4.031	Drop Forged Rivetless	57	1131R	6.000	Roller Conveyor	12
462	1.634	400 Class Pintle Chain	64	1188R	4.000	Roller Conveyor	12
477	2.308	400 Class Pintle Chain	64	1212R	12.000	Roller Conveyor	13
WD480	8.000	Welded Steel Drag	53	H1242	4.063	Drive Chain	7
488	2.609	400 Class Pintle Chain	64	H1245	4.073	Drive Chain	7
HR588	2.609	Drive Chain	7	R1251	12.000	Roller Conveyor	13
603R	6.000	Roller Conveyor	12	B1263R	12.000	Roller Conveyor	13
604R	6.000	Roller Conveyor	12	D1263R	12.000	Roller Conveyor	13
607R	6.000	Roller Conveyor	12	E1263R	12.000	Roller Conveyor	13
610R	6.000	Roller Conveyor	12	1264R	12.000	Roller Conveyor	13
614R	6.000	Roller Conveyor	12	1265R	12.000	Roller Conveyor	13
625R	6.000	Roller Conveyor	12	1266R	12.000	Roller Conveyor	13
626R	6.000	Roller Conveyor	12	1271R	12.000	Roller Conveyor	13
627R	6.000	Roller Conveyor	12	1272R	12.000	Roller Conveyor	13
628R	6.000	Roller Conveyor	12	1273R	12.000	Roller Conveyor	13
629R	6.000	Roller Conveyor	12	1276R	12.000	Roller Conveyor	13
631R	6.000	Roller Conveyor	12	H1602A	5.000	Drive Chain	7
H635	4.500	Drive Chain	7	1604R	6.000	Roller Conveyor	13
663R	6.000	Roller Conveyor	12	1630R	6.000	Roller Conveyor	13
X678	6.031	Drop Forged Rivetless	57	R1706	12.000	Roller Conveyor	13
SAV715	6.000	Stainless Collector Chain	99	B1863R	18.000	Roller Conveyor	13
NM720S	6.000	Non Metallic Chain	100	D1863R	18.000	Roller Conveyor	13
800RX	8.000	Roller Conveyor	13	F1863R	18.000	Roller Conveyor	13
806R	8.000	Roller Conveyor	13	B1864R	18.000	Roller Conveyor	13
856	6.000	Steel Bushed	32	G1864R	18.000	Roller Conveyor	13
857	6.000	Steel Bushed	32	1866R	18.000	Roller Conveyor	13
859	6.000	Steel Bushed	32	1867R	18.000	Roller Conveyor	13
864	7.000	Steel Bushed	32	1871R	18.000	Roller Conveyor	13
896R	8.000	Roller Conveyor	13	1873R	18.000	Roller Conveyor	13
912R	9.000	Roller Conveyor	13	2102	4.000	Asphalt Chain	82
925R	9.000	Roller Conveyor	13	2130R	6.000	Roller Conveyor	13
961R	9.000	Roller Conveyor	13	2178RX	6.000	Roller Conveyor	12
B963R	9.000	Roller Conveyor	13	2184R	6.000	Roller Conveyor	13
D963R	9.000	Roller Conveyor	13	2184RX	6.000	Roller Conveyor	13
E963R	9.000	Roller Conveyor	13	2198RX	6.000	Roller Conveyor	12
F963R	9.000	Roller Conveyor	13	2268	4.083	Asphalt Chain	82
964R	9.000	Roller Conveyor	13	R2397	12.000	Roller Conveyor	13
965R	9.000	Roller Conveyor	13	2466R	24.000	Roller Conveyor	13
967R	9.000	Roller Conveyor	13	2467R	24.000	Roller Conveyor	13

Engineering Class Chains

Chain Index

MAXCO Chain Number	Pitch	Product	Page	MAXCO Chain Number	Pitch	Product	Page
2471R	24.000	Roller Conveyor	13	6086-OC	6.000	Oven Chain	80
2473R	24.000	Roller Conveyor	13	H6566	6.500	Drive Chain	7
2609SC	2.609	Mining Chain	88	H7080	7.000	Drive Chain	7
R2614	12.000	Roller Conveyor	13	9856	6.000	Asphalt Chain	82
A2800	8.000	Roller Conveyor	13	10475	4.000	Bar and Pin Chain	73
H3011	3.067	Drive Chain	7	10630	6.000	Bar and Pin Chain	73
3075FB	3.075	Mining Chain	89	10660	6.000	Bar and Pin Chain	73
3075SC	3.075	Mining Chain	88	20460	4.000	Bar and Pin Chain	73
3075WB	3.075	Mining Chain	89	20675	6.000	Bar and Pin Chain	73
3433	4.000	Asphalt Chain	82	20860	8.000	Bar and Pin Chain	73
DF3498	1.750	Double Flex Chain	75	21296	12.000	Bar and Pin Chain	73
DF3500	2.500	Double Flex Chain	75	30630	6.000	Bar and Pin Chain	73
DF3910	3.000	Double Flex Chain	75	30646	6.000	Bar and Pin Chain	73
3935	5.187	Asphalt Chain	82	30660	6.000	Bar and Pin Chain	73
3940	6.000	Asphalt Chain	82	103110	3.000	Draw Bench Chain	74
3945	4.000	Asphalt Chain	82	103150	3.250	Draw Bench Chain	74
3950	4.038	Asphalt Chain	82	103200	3.000	Draw Bench Chain	74
3952	4.000	Asphalt Chain	82	104220	4.250	Draw Bench Chain	74
3957	4.000	Asphalt Chain	82	104400	4.000	Draw Bench Chain	74
H4031	4.000	Drive Chain	7	104500	4.250	Draw Bench Chain	74
4034-OC	4.000	Oven Chain	79	108170	8.000	Bar and Pin Chain	73
4041-OC	4.000	Oven Chain	79	108400	8.000	Bar and Pin Chain	73
4100SUSC	4.100	Mining Chain	88	109100	9.000	Bar and Pin Chain	73
4103	3.075	400 Class Pintle Chain	64	110140	10.000	Bar and Pin Chain	73
4604	4.604	Asphalt Chain	82	112250	12.000	Bar and Pin Chain	73
H5035	5.000	Drive Chain	7	203100	3.000	Draw Bench Chain	74
H5042	5.000	Drive Chain	7	205380	5.000	Draw Bench Chain	74
H5542	5.500	Drive Chain	7	304800	4.250	Draw Bench Chain	74
H6042	6.000	Drive Chain	7	305650	5.000	Draw Bench Chain	74
H6066	6.000	Drive Chain	7				

Metric To English Conversions

Length

1 Meter =	39.37 inches	1 foot =	0.3048 meters
	3.28083 feet		30.48 centimeters
	1.09361 yards		304.8 millimeters

1 Centimeter =	0.397 inches	1 inch =	2.54 centimeters
			25.4 millimeters

1 Kilometer =	3,280.83 feet
	1,093.61 yards
	0.62137 miles

Weight

16 ounces =	1 lb	1 kilogram =	2.2046 lbs
2,000 lbs =	1 Short ton	1 Metric Ton =	2,204.6 lbs
2,204.6 lbs =	1 Long ton		

Temperature

C = degrees Centigrade	F = ((9/5) x C) + 32
F = degrees Farenheit	C = (5/9) x (F - 32)

Power

1 kilowatt =	1.5 Horsepower (approximate)
--------------	------------------------------

$$1 \text{ Horsepower} = (1 \text{ kilowatt}) / (.746 \times \text{efficiency})$$

efficiency = 0.90 for generators

efficiency = 0.87 for motors

TERMS AND CONDITIONS OF SALE

1. Price and Payment Terms:

- (a) All prices set forth herein are FOB Seller's Shipping point and are payable net thirty (30) days after invoice date. A one percent (1%) cash discount from net invoice price (exclusive of all other charges) will apply to payments received within ten (10) days of invoice date. Shipments will be invoiced as of date of shipment. Accounts not paid within thirty (30) days of invoice date will bear interest from the invoice date at the rate of one and one-half percent (1 - 1/2%) per month or the maximum rate allowed by law, whichever is less. In the event of failure of timely payment by Buyer, shall pay to Seller all costs of collection, including fifteen percent (15%) of the amount due hereunder as attorney's fees if collected by or through an attorney-at-law.
- (b) Prices on the goods are exclusive of all city, state, and federal excise taxes, including, without limitation, taxes on manufacture, sales, receipts, gross income, occupation, use and similar taxes. Wherever applicable, any tax or taxes will be added to the invoice as a separate charge to be paid by the Buyer.
- (c) In addition to the purchase price for the goods Buyer shall pay and be liable for all expenses incurred by Seller for insurance, freight, cartage, warehousing, and all other charges in connection with loading and shipping the goods to the Buyer. Seller will exercise reasonable efforts to route shipments to incur the lowest available transportation charges; any premium rate shipping shall be at the request and cost of Buyer.
- (d) The minimum net invoice charge on any order shall be \$100.00.
- (e) Payment for the goods shall, if Seller so requires, be made in full prior to delivery and Seller shall be entitled to withhold delivery until such payment has been made and any check or other negotiable instrument given in payment has cleared. Seller shall have the additional right at any time to limit or cancel any credit extended or to be extended hereunder. Upon failure by Buyer to make payment to Seller within thirty (30) days after notice from Seller limiting or cancelling any credit extended or requiring Buyer to make payment before delivery, Seller shall have the option to cancel this and other contracts between Seller and Buyer.
- (f) Prices are subject to change without notice. The price for an order will be the price in effect at the time of shipment.

2. Title to and Reservation of Security Interest in the Goods:

Until Buyer has completed payment for the goods, title and ownership to said goods shall remain with Seller and its assigns. In the event it is determined that, contrary to the foregoing, title has transferred prior to full payment, Seller hereby reserves and Buyer hereby grants to Seller a purchase money security interest in the goods.

3. Limitation Of Warranty, Remedy and Liability:

- (a) Seller warrants the goods to be free from defects in workmanship and/or materials for a period of ninety (90) days from the date of shipment to Buyer. Seller or its authorized distributor must receive written notice of any warranty claim within two weeks of the date that the defect should have been discovered. To claim under this warranty, goods must be returned to Seller, freight prepaid by Buyer, for determination by Seller that such goods are defective because of poor workmanship or defective materials. Seller shall replace or repair, at its sole option and expense, any defective goods or parts thereof, and return such repaired/replacement material to Buyer, freight prepaid by Seller. THIS REMEDY IS THE SOLE AND EXCLUSIVE REMEDY AVAILABLE TO BUYER. If Seller determines in its sole discretion that the defect is attributable to any cause other than poor workmanship or defective materials (including, but not limited to, misuse or abusive operation, faulty installation, unauthorized repair), then Seller shall have no obligation whatsoever with respect to repair or replacement of the defective goods. Seller shall return the goods to Buyer, freight to be paid by Buyer, and the warranty described herein shall be void.
- (b) All specifications, performance figures, drawings, and particulars of weights and dimensions made available by Seller and not included in this warranty are approximate only and the descriptions and illustrations contained in Seller's catalogs, price lists, or sales material are intended only to present a general idea of their subject matter, and none of the items referred to above shall form part of this warranty. Recommendations for the use of the goods are suggestions only and not directions and Seller makes no express or implied warranties with respect thereto.
- (c) EXCEPT AS NOTED IN PARAGRAPH (a), THERE IS NO WARRANTY OF MERCHANTABILITY OR OF FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER WARRANTY BY SELLER, EITHER EXPRESS OR IMPLIED.
- (d) BUYER AGREES THAT NO OTHER REMEDY (INCLUDING, BUT NOT LIMITED TO, PUNITIVE, EXEMPLARY, INCIDENTAL OR CONSEQUENTIAL DAMAGES FOR LOST PROFITS, LOST SALES, OR, INCIDENTAL OR CONSEQUENTIAL LOSS) IN CONNECTION WITH THE USE, PURCHASE, NON-USE OR OPERATION OF THE GOODS SHALL BE AVAILABLE TO IT UNDER ANY CIRCUMSTANCES, WHETHER BASED UPON NEGLIGENCE OR OTHERWISE AND IRRESPECTIVE OF WHETHER SELLER HAS BEEN ADVISED OF THE POSSIBILITY OF ANY SUCH DAMAGES. IN ANY EVENT, THE LIABILITY OF SELLER TO BUYER FOR ANY REASON AND UPON ANY CAUSE OF ACTION WHATSOEVER SHALL BE LIMITED TO THE AMOUNT THEN PREVIOUSLY PAID TO SELLER BY BUYER.

4. Return of Goods/Cancellation:

Once placed, orders may not be cancelled without the seller's consent. The seller may, at its sole discretion, accept returns of standard materials for credit. In this case the buyer shall obtain a RETURNED GOODS AUTHORIZATION (RGA) from the seller. No returns, of any kind, will be accepted by the seller, without a valid RGA. A copy of the RGA for shall be enclosed by the buyer with the shipment of authorized returned products to the seller. Goods returned for credit must be returned FREIGHT PREPAID to the seller's location. Such goods must also be in a resalable condition and are subject to a 20% restocking fee. Goods returned for warranty claim also require a valid RGA and must follow the shipping procedure detailed above. For additional information on how to file a warranty claim see "Limitation of Warranty, Remedy, and Liability" in our "Terms and Conditions of Sale".

5. Delay or Nonperformance:

Seller shall not be liable for delay in shipment for any cause beyond its reasonable control, nor shall such delay entitle Buyer to cancel any order or refuse to accept delivery. Seller shall not be liable for failure or delay in shipment or other performance hereunder if such failure is due in whole or in part to strikes, fires, accidents, wars; rebellions, civil commotion or public strike, acts of any government, whether legal or otherwise, acts of public enemies, force majeure, inability to secure or obtain or delay in securing or obtain transportation, machinery, materials, or sufficient qualified labor, or any other causes beyond Seller's reasonable control. Claims for shortage, damage or nondelivery shall be made directly to carrier, and request for proof of delivery must be made within ninety (90) days of invoice date.

6. Risk of Loss:

Unless otherwise specifically agreed in writing, risk of loss of the goods shall pass from Seller to Buyer when the goods or any portion thereof, property packed and secured in such a manner as to reach their destination in good condition under normal conditions of transport, are placed in the possession of the carrier, FOB Seller's shipping point for shipment to Buyer. The Seller may choose any reasonable carrier for delivery. Tender of delivery shall be deemed made at Seller's shipping point even when freight is prepaid to point of destination or Seller is required to deliver the goods to a particular destination.

7. Modifications:

This document constitutes the entire agreement of the parties with respect to the terms and conditions of sale of the goods. No modification of this document shall be binding upon Seller unless in writing and signed by the party to be bound. Any terms and provisions contained in any document of Buyer which are inconsistent with the terms and provisions hereof shall not be binding on Seller and shall not be considered applicable to the sale or shipment of the goods. No agent, employee, or representative of Seller other than its Officers has any authority to bind Seller to any affirmation, representation or warranty concerning the goods sold under this document and unless an affirmation, representation or warranty made by an Officer of Seller is specifically included in this document, it has not formed a part of the basis of this bargain and shall not in any way be enforceable.

8. Waiver:

A waiver by Seller of a breach by Buyer of any provision of this document shall not be deemed a waiver of future compliance with the provision of the document breached.

9. Controlling Law:

The validity and interpretation of this document shall be governed by the laws of the State of Georgia.

10. Jurisdiction:

Buyer, to the extent it may lawfully do so, hereby submits to the jurisdiction of any state or federal court located in Cobb County, Georgia as well as to the jurisdiction of all courts from which an appeal may be taken from the aforesaid courts for the purpose of any suit, action or other proceeding arising out of any of the Buyer's obligations under or with respect to this document, and the Buyer expressly waives any and all objections that Buyer may have as to jurisdiction and/or venue in any of such courts.

11. Special Order Goods:

On special order goods, Buyer will indemnify and hold Seller harmless from all costs and damages arising out of any intellectual property infringement claim relating to any goods manufactured by Seller pursuant to the designs or specifications furnished by Buyer as well as any claims arising out of or connected with an end product into which goods sold by Seller are incorporated, including but not limited to any claims relating to product liability, breach of warranty, breach of contract or otherwise.

Attachment Spacing Line Drawing

Engineering Class Chains

Roller Link Pin Link