



ROLLER TRANSMISSION CHAINS

CATALOG 2021

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Construction

Roller chain is a series of connected journal bearings, assembled with alternate roller links and pin links, Figure 1. Each roller link consists of two bushings, rollers and link plates (side plates). Rollers are slipped onto the bushings, then the bushings are press-fitted into the side plates to complete a single roller link, Figure 2. The roller has sufficient side clearance to permit free movement and lubricant access. The same roller links are used for single and multiple strand chains. Pin links have two pins press-fitted into two link plates, and when assembled, the two pins slip into bushings of adjacent roller links.

Roller Chains Sizes vary according to four primary dimensions; pitch, inside width, roller diameter and plate thickness, Figure 3. Pitch, normally stated in inches, is the dimension on which the others are based. Chain length is expressed in the number of pitches or in feet and inches.

Assembly. Roller chains are joined together in endless lengths, preferably with an even number of pitches. To obtain an odd number of pitches, an offset link is required.

One-pitch offset links, Figure 4, are available for all chains except No.25.A milled flat on one end of the slip-fit pin prevents it from turning in the side plate. Two-pitch offset links, Figure 5, are available for all chains, and are preferable for severe service. They consist of a roller link and an offset link, riveted together for greater strength and rigidity.

Riveted and Cotteded Constructions, Figure 6 and 7 are available with CEYS roller chains. Riveted is standard on chains No.25 through 60. Cotteded is standard on chains No.80 and larger. Endless chains are furnished "riveted endless" (permanent connection) or "assembled endless with connecting link."

Connecting Link. Two different types of connecting links, spring clip and cotteded, are used with CEYS chains, as follow: Spring Clip Connecting Links (Figure 8) are standard for No.25 through 60 chains. Cotteded Connecting Links (Figure 9) are standard for No.80 chain and larger.

Both types are available in two cover plate assembly styles: slip-fit and tap-fit. Slip-fit construction is standard, and is supplied unless otherwise indicated. Slip-fit connecting links are suitable for most applications involving low to moderate chain speeds and loads. Tap-fit links provide a tighter fit between the link pins and cover plate for greater chain integrity and load balance. They are recommended for H and HT heavy series chains, heavy load and high-speed applications, limited lubrication drives and chains that have frequently spaced connecting links.

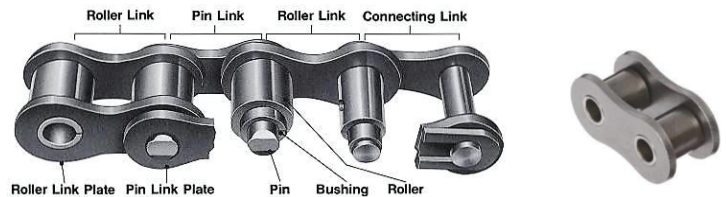


Fig 1.

Fig 2. Roller Link

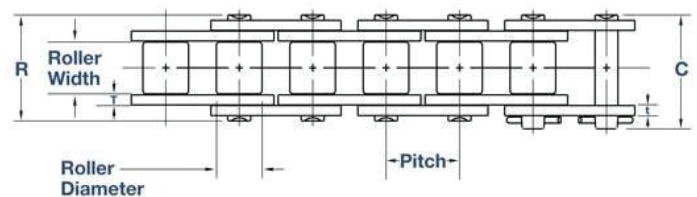


Fig 3. Primary Roller Chain Dimensions.



Fig 4. One-Pitch Offset Link Fig 5. Two-Pitch Offset Link



Fig 6. Riveted Construction Fig 7. Cotteded Construction



Fig 8. Spring Clip
Connecting Link

Fig 9. Standard Cotteded
Connecting Link

Ordering Information

When Ordering Standard Roller Chains, be sure to specify:

- Chain number or chain pitch, roller diameter, plate thickness and width between plates.
- Chain length in pitches or feet and inches.
- Riveted or cottered construction.
- Even number of pitches or odd number with a one- or two-pitch offset link.
- Riveted endless or assembled endless with connecting link.
- Cottered or spring clip connector.
- Tap-fit connecting links of required.
- Connecting link one end, both ends or roller link each end.

Attachments are readily available from CEYS for standard roller chains. The complete selection of CEYS attachments begins on page 5.

Recommended Sprockets. For sprocket specifications and horsepower rating, refer to the Engineering Section.

Safety Tips

Roller Chain Applications fall into three broad categories: power transmission, static or intermittent loading and conveying. Each has its own; distinct criteria for chain selection. For further information, see the Engineering Section. If you have any questions or doubts about proper chain selection or application, contact CEYS.

Hoists and Motorcycles require special chains with tensile strength and construction details specifically designed for these applications. *Do not use chains in this catalogue for such applications.*

Before Installing Chains, read separate instructions for proper connecting and disconnecting procedures. Instructions are available from CEYS on request.

Caution: When disconnecting or connecting chains:

1. Always lock out equipment power before removing or installing chains.
2. Always use safety glasses for eye protection.
3. Wear protective clothing, gloves and safety shoes as appropriate.
4. Use supports to prevent uncontrolled movement of chain, parts and equipment.

5. Pressing equipment is recommended for assembly and disassembly of chain components. Tools must be in good condition and used properly.
6. Do not attempt to connect or disconnect chain unless you know the chain construction, including the correct direction for pin/rivet removal or insertion.
7. Use lengths of assembled chain for rework. Do not build lengths from individual components.
8. Do not attempt to rework damaged chains by replacing only the components obviously faulty. The entire chain may be weakened and should be discarded.

Protective Guards must be provided on all chain installations to prevent workers injury and system damage.

Alterations and Repairs to chains should be made only with parts and components authorized by CEYS or our representatives.

Electroplating of Assembled Chains is not recommended. Plating of assembled chains will result in failure from hydrogen embrittlement. (CEYSplated chains are assembled from modified individually plated components.)

Inspect Chains for shipment damage before installation. During operation, all chain systems should be inspected on a regular schedule. Visually check for worn, damaged and broken parts caused by improper installation or maintenance, abnormal stress, temperature, humidity, abrasion or corrosion, possible interference with other system components and improper lubrication. (For correct lubrication procedures and systems, see the Engineering Section.)

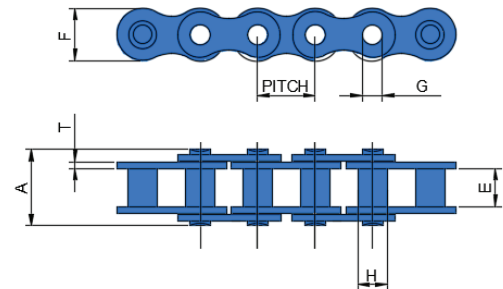
Heating Chain with a cutting torch is not recommended unless absolutely necessary for removal. If cut in such a manner, it should not be reused.

Welding should not be performed on any chain or component.

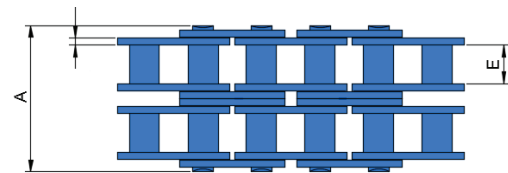
Average Ultimate Strength of a chain means the average load at which it will break when subjected to a destructive tensile test. It does not mean working load. For complete information, contact CEYS Engineering.

Product Dimensions in this catalogue are subject to changes and are intended for general reference only. For exact current dimensions, request certified prints from CEYS.

Single Strand



Double Strand



CEYS Manufacturing Co., Ltd American National Standards Institute (ANSI) Standard Chains are manufactured to ANSI Standard B29.1. The previous name for ANSI was American Standards Association (ASA). Thus, ANSI Standard Chain is invariably known as ASA Standard Chain.

Multiple Strand Roller Chains provide increased load capacity beyond single strand chains without increasing chain pitch or speed. However, their power transmission capacity does not increase in direct proportion to the number of strands used. (Refer to multiple strand factors).

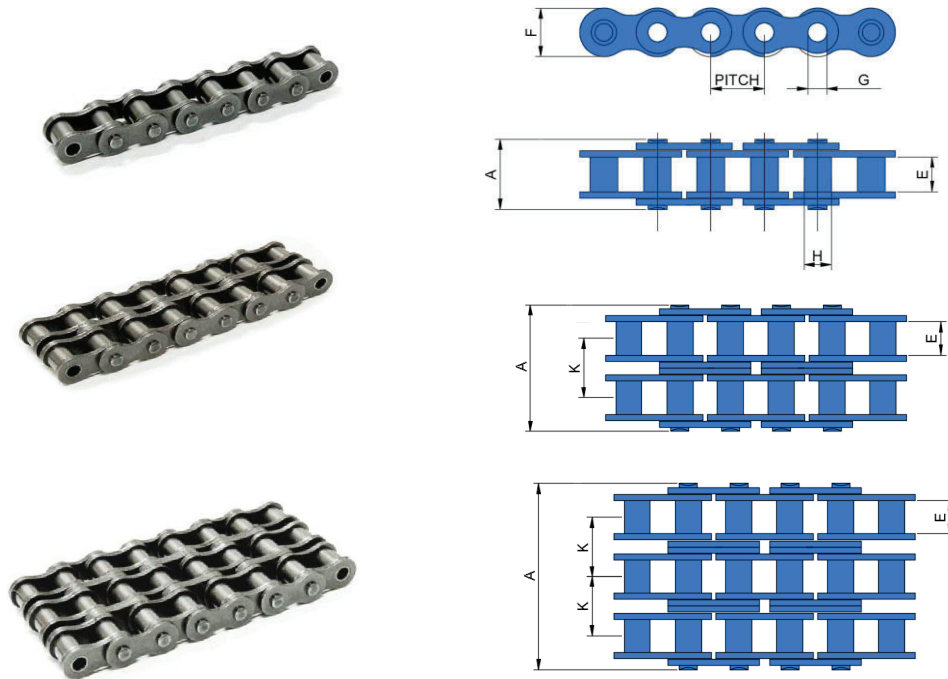
For high-speed drives, multiple strand chains permit use of smaller pitch chains which are smoother in operation and allow a more compact drive than a single strand chain of comparable capacity.

Dimensions in inches											
	ANSI Chain	ISO Chain	Pitch	Inside	Roller	Overall	Side Plate		Pin Dia.	Average	Average
	No.	No.		Width	Dia.	Riveted	Thickness	Height		Ultimate	Weight
				E	H	A	T	F	G	Strength	Per Foot
										lbs.	lbs.
Single Strand	*25	04C-1	1/4	.125	.130	.31	.030	.23	.0905	930	.104
	*35	06C-1	3/8	.187	.200	.47	.050	.36	.141	2300	.21
	41	85	1/2	.250	.306	.51	.050	.39	.141	2580	.28
	40	08A-1	1/2	.312	.312	.65	.060	.46	.156	3700	.41
	50	10A-1	5/8	.375	.400	.79	.080	.59	.200	6400	.69
	60	12A-1	3/4	.500	.468	.98	.094	.68	.234	8700	.96
	80	16A-1	1	.625	.625	1.28	.125	.93	.312	15500	1.60
	100	20A-1	1 1/4	.750	.750	1.54	.156	1.16	.375	24000	2.56
	120	24A-1	1 1/2	1	.875	1.94	.187	1.38	.437	34000	3.60
	140	28A-1	1 3/4	1	1.000	2.08	.218	1.63	.500	46000	4.90
	160	32A-1	2	1.25	1.125	2.48	.250	1.88	.562	58000	6.40
	180	-	2 1/4	1.406	1.406	2.81	.281	2.13	.687	80000	8.70
Double Strand	200	40A-1	2 1/2	1.5	1.562	3.02	.312	2.32	.781	95000	10.30
	240	48A-1	3	1.875	1.875	3.76	.375	2.80	.937	130000	16.90
	*25-2	04C-2	1/4	.125	.130	.56	.030	.23	.0905	1,860	.20
	*35-2	06C-2	3/8	.187	.200	.86	.050	.36	.141	4,600	.41
	40-2	08A-2	1/2	.312	.312	1.20	.060	.46	.156	7,400	.81
	50-2	10A-2	5/8	.375	.400	1.49	.080	.59	.200	12,800	1.35
	60-2	12A-2	3/4	.500	.468	1.87	.094	.68	.234	17,400	1.90
	80-2	16A-2	1	.625	.625	2.42	.125	.93	.312	31,000	3.15
	100-2	20A-2	1 1/4	.750	.750	2.94	.156	1.16	.375	48,000	5.00
	120-2	24A-2	1 1/2	1	.875	3.72	.187	1.38	.437	68,000	7.10
	140-2	28A-2	1 3/4	1	1.000	4.00	.218	1.63	.500	92,000	9.50
	160-2	32A-2	2	1.25	1.125	4.80	.250	1.88	.562	116,000	12.00
	180-2	-	2 1/4	1.406	1.406	5.40	.281	2.13	.687	160,000	17.60
	200-2	40A-2	2 1/2	1.5	1.562	5.86	.312	2.32	.781	190,000	21.00
	240-2	48A-2	3	1.875	1.875	7.22	.375	2.80	.937	260,000	33.10

*Rollerless

Single and Multiple Strand Roller Chain

CEYS BS/ISO/DIN Chains are manufactured to conform with British Standard BS 228:1970, International Standards Organization ISO Type "B" and European Standard DIN 8187:1969. These chains use the same top quality materials as American ANSI chains.

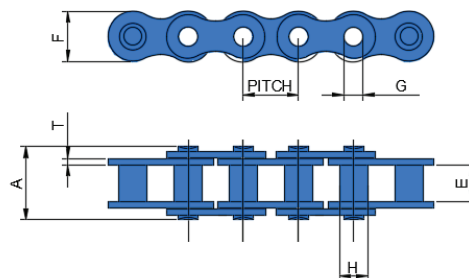


Dimensions in millimeters										
	ISO Chain		Inside		Overall	Side	Pin Dia.	Chain	Average	Average
	No.	Pitch	Width	Roller Dia.	Riveted	Plate Height				
			E	H	A	F	G	K	N	kg
Single Strand	06B	9.525	5.72	6.35	12.78	8.26	3.28	-	9,100	0.4
	08B	12.700	7.75	8.51	16.16	11.81	4.45	-	18,600	0.7
	10B	15.875	9.65	10.16	18.54	14.73	5.08	-	22,600	0.9
	12B	19.050	11.68	12.07	21.84	16.13	5.72	-	29,100	1.2
	16B	25.400	17.02	15.88	35.56	21.08	8.28	-	68,600	2.7
	20B	31.750	19.56	26.00	41.00	26	10.19	-	110,000	3.85
Double Strand	06B-2	9.525	5.72	6.35	22.86	8.26	3.28	10.24	18,500	0.8
	08B-2	12.700	7.75	8.51	29.97	11.81	4.45	13.92	33,700	1.3
	10B-2	15.875	9.65	10.16	35.31	14.73	5.08	16.59	47,100	1.8
	12B-2	19.050	11.68	12.07	41.40	16.13	5.72	19.46	59,200	2.5
	16B-2	25.400	17.02	15.88	67.52	21.08	8.28	31.88	134,600	5.4
	20B-2	31.750	19.56	26.00	77.40	26	10.19	36.45	209,000	7.65
Triple Strand	06B-3	9.525	5.72	6.35	32.77	8.26	3.28	10.24	27,500	1.1
	08B-3	12.700	7.75	8.51	43.94	11.81	4.45	13.92	57,200	2.0
	10B-3	15.875	9.65	10.16	51.82	14.73	5.08	16.59	72,600	2.6
	12B-3	19.050	11.68	12.07	60.71	16.13	5.72	19.46	88,800	3.7
	16B-3	25.400	17.02	15.88	99.40	21.08	8.28	31.88	210,900	8.0
	20B-3	31.750	19.56	26.00	114.0	26	10.19	36.45	314,000	11.45

ANSI Heavy Series

Heavy series chains, identified by the suffix H, have link plates as thick as the next larger size ANSI standard chains, to resist shock from pulsating loads. Single strand chains are made to order and require special sprockets.

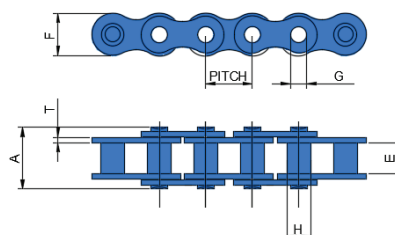
Heavy series chains also are available with thru-hardened pins, (suffix HT), for extra strength needed to carry peak loads. Because of the wear resistance of thru-hardened pins is less than that of standard roller chains, these chains must be kept well lubricated.



Dimensions in inches									Average Ultimate		
ANSI Chain No.	Chain No. Thru-Hardened Pins	Pitch	Side Plate						Strength		Average Weight Per Foot lbs.
			Inside Width	Roller Dia.	Overall Riveted	Thickness	Height	Pin Dia.	Heavy Series lbs.	Thru-Hardened Pins lbs.	
60H	60HT	3/4	.500	.468	1.11	.125	.680	.234	8,700	11,000	1.14
80H	80HT	1	.625	.625	1.41	.156	.930	.312	15,500	20,000	1.93
100H	100HT	1 1/4	.750	.750	1.67	.187	1.156	.375	24,000	30,000	3.06
120H	120HT	1 1/2	1.000	.875	2.07	.218	1.375	.437	34,000	41,000	4.45
140H	140HT	1 3/4	1.000	1.000	2.2	.250	1.625	.500	46,000	54,000	5.68
160H	160HT	2	1.250	1.125	2.6	.281	1.875	.562	58,000	70,000	7.33
180H	180HT	2 1/4	1.406	1.406	2.95	.312	2.130	.687	80,000	95,000	9.10
200H	200HT	2 1/2	1.500	1.562	3.63	.375	2.312	.781	95,000	110,000	13.50

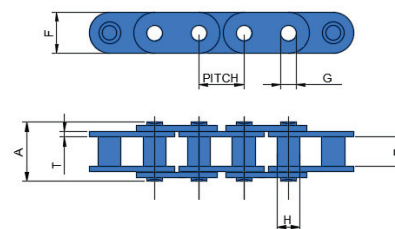
Rollerless

Dimensions and materials of rollerless chains are equal to comparable ANSI chains, except they are assembled without rollers. Rollerless chains are most often used for handling static or intermittent loading in fork lifts and other applications where rollers are not required.



Straight Side Plates

Rather than having conventional figure-8 side plates, these chains use straight side plates that increase the chain bearing area when sliding on ways or supporting products. Rollers are standard size.



Dimensions in inches										Average Ultimate Strength lbs.	Average Weight Per Foot lbs.
	Chain No.	Pitch	Inside Width	Bushing or Roller Dia.	Overall Riveted	Side Plate		Pin Dia.			
			E	H	A	Thickness	Height		F		
Rollerless	65	3/4	.500	.329	.98	.094	.68	.234	8,700	.74	
	85	1	.625	.442	1.28	.125	.93	.312	15,500	1.30	
	105	1 1/4	.750	.531	1.54	.156	1.16	.375	24,000	2.10	
	125	1 1/2	1.000	.623	1.94	.187	1.38	.437	34,000	2.95	
Straight Side Plates	C-40	1/2	.312	.312	.65	.060	.46	.156	3,700	.45	
	C-60	3/4	.500	.468	.98	.094	.68	.234	8,700	1.05	
	C-80	1	.625	.625	1.28	.125	.93	.312	15,500	1.87	
	C-100	1 1/4	.750	.750	1.54	.156	1.16	.375	24,000	2.97	
	C-120	1 1/2	1.000	.875	1.94	.187	1.38	.437	34,000	4.40	



Transmission series with Figure- 8 Side plates



Conveyor series with straight side plates and large size rollers



Thermoplastic large size roller conveyor chain



Conveyor series with straight side plates and standard rollers

ANSI Conveyor series have straight side plates and either standard size or large size rollers. Conveyor chains with thermoplastic large size rollers are also available.

Large size rollers, which are approximately twice the diameter of standard rollers, usually ride on tracks or bearing surfaces to reduce friction, lessen the required horsepower and extend chain life. CEYS double pitch roller chains may be furnished in either riveted or cottered construction, as requested.

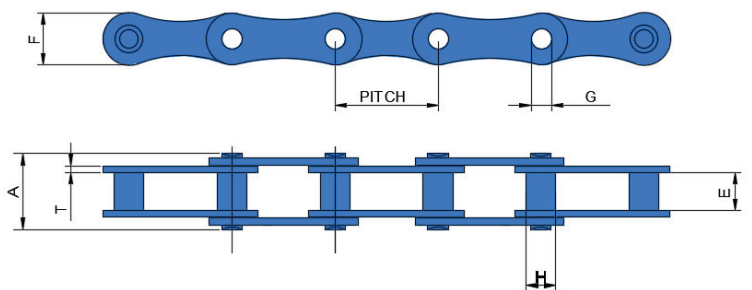
Double Pitch Roller Chains easily accept a variety of attachment for special applications. The complete selection of CEYS attachments for double pitch chains begin on page 18.

Double Pitch Roller Chains have twice the distance between rollers of corresponding standard roller chains. For example, ANSI No. 40 standard chain pitch is $\frac{1}{2}$ ", ANSI No. 2040 chain pitch is 1". Since double pitch chains contain only half as many rollers, bushings and pins, they have lighter weight and greater economy than comparable standard chains. They are suited for applications with slow-to-moderate speeds, medium loads and long distances between sprockets, including a variety of conveyor systems and material handling equipment. ANSI transmission series chain feature figure-8 side plates and standard size rollers.

Transmission Series



Figure-8 contour of the transmission series side plates keeps chain weight to a minimum, and permits use of sprockets with maximum hub diameters. Plates are the same thickness as corresponding standard roller chains.



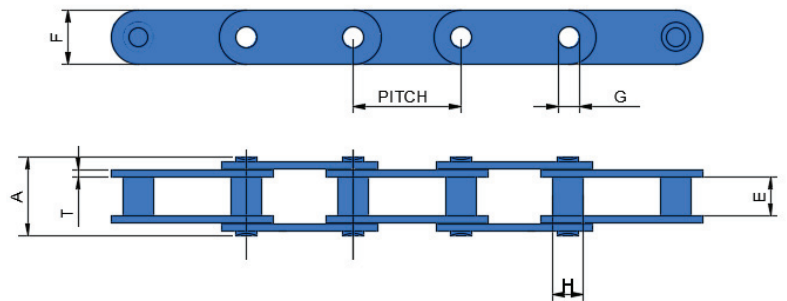
Dimensions in inches									
ANSI Chain No	Pitch	Inside Width E	Roller Dia. H	Overall Riveted A	Side Plate Thickness T	Side Plate Height F	Pin Dia. G	Average Ultimate Strength lbs.	Average Weight Per Foot lbs.
2040	1	.312	.312	.65	.060	.46	.156	3,700	.30
2050	1 1/4	.375	.400	.79	.080	.59	.200	6,400	.45
2060	1 1/2	.500	.468	.98	.094	.68	.234	8,700	.68
2080	2	.625	.625	1.28	.125	.93	.312	15,500	1.11
2100	2 1/2	.750	.750	1.54	.156	1.16	.375	24,000	1.94

Standard and Large Size Rollers

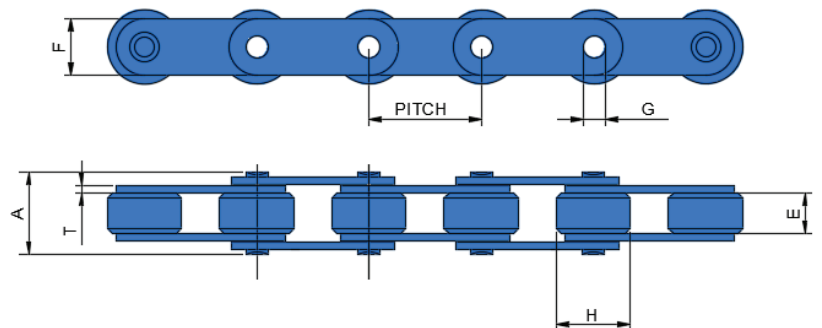
Conveyor series chains with standard size rollers have straight side plates for increased bearing area when sliding on ways or supporting products. Large size rollers support the chain and load, holding them off the track to minimize the friction and power requirements. Chains with 1 1/2" pitch or greater have side plates of the same thickness as corresponding ANSI standard heavy roller chains.



Standard Rollers



Large Size Rollers



Dimensions in inches											Average Weight	
ANSI Chain No.											Per Foot	
Standard Roller	Large Size Roller	Pitch	Inside Width E	Standard Roller Dia. H	Large Size Roller Dia. H	Overall Riveted A	Side Plate Thickness T	Side Plate Height F	Pin Dia. G	Average Ultimate Strength lbs.	Standard Roller lbs.	Large Size Roller lbs.
C-2040	C-2042	1	.312	.312	.625	.65	.060	.46	.156	3,700	.32	.55
C-2050	C-2052	1 1/4	.375	.400	.750	.79	.080	.59	.200	6,400	.53	.84
C-2060H	C-2062H	1 1/2	.500	.468	.875	1.11	.125	.69	.234	8,700	.92	1.40
C-2080H	C-2082H	2	.625	.625	1.125	1.41	.156	.88	.312	15,500	1.52	2.21
C-2100H	C-2102H	2 1/2	.750	.750	1.562	1.67	.187	1.15	.375	24,000	2.30	3.75
C-2120H	C-2122H	3	1.000	.875	1.750	2.07	.218	1.37	.437	34,000	3.70	5.71
C-2160H	C-2162H	4	1.250	1.125	2.250	2.60	.281	1.87	.562	58,000	5.85	8.93

Standard and Large Size Rollers

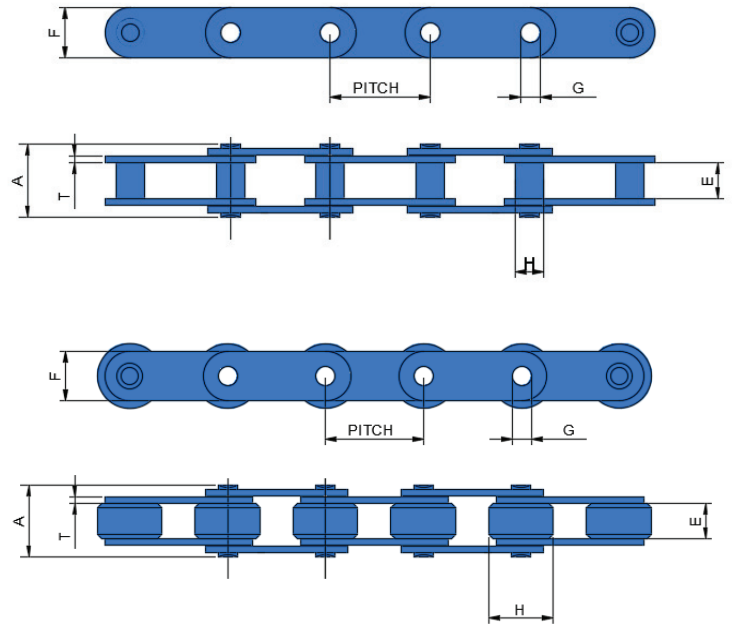


Standard Rollers



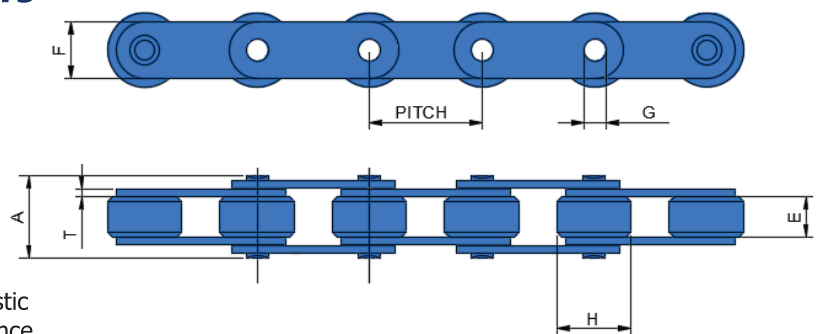
Large Size Rollers

Stainless steel double pitch conveyor series chains have the material combinations, characteristics and attachments shown on page 10.



Dimensions in inches											Average Weight	
ANSI Chain No.											Per Foot	
Standard Roller	Large Size Roller	Pitch	Inside Width E	Standard Roller Dia. H	Large Size Roller Dia. H	Overall Riveted A	Side Plate Thickness T	Side Plate Height F	Pin Dia. G	Average Ultimate Strength lbs.	Standard Roller lbs.	Large Size Roller lbs.
C-2040 S.S.	C-2042 S.S.	1	.312	.312	.625	.65	.060	.46	.156	3,700	.32	.55
C-2050 S.S.	C-2052 S.S.	1 1/4	.375	.400	.750	.79	.080	.59	.200	6,400	.53	.84
C-2060H S.S.	C-2062H S.S.	1 1/2	.500	.468	.875	1.11	.125	.69	.234	8,700	.92	1.40
C-2080H S.S.	C-2082H S.S.	2	.625	.625	1.125	1.41	.156	.88	.312	15,500	1.52	2.21

Thermoplastic Large Size Rollers



Stainless Steel double pitch conveyor chains with thermoplastic rollers require no lubrication and have high corrosion resistance. These chains are not recommended for operation below 0°F or for continuous use above 180°F. For proper selection of these chains and appropriate sprockets, contact CEYS Manufacturing.

Dimensions in inches								
EPES Chain No.	Pitch	Inside Width E	Roller Dia. H	Overall Riveted A	Side Plate Thickness T	Side Plate Height F	Pin Dia. G	Average Weight Per Foot lbs.
C-2042D S.S.	1	.312	.625	.65	.060	.46	.156	.33
C-2052D S.S.	1 1/4	.375	.750	.79	.080	.59	.200	.54
C-2062HD S.S.	1 1/2	.500	.875	1.11	.125	.69	.234	.94
C-2082HD S.S.	2	.625	1.125	1.41	.156	.88	.312	1.52

CEYS Stainless Steel Chains, both standard roller chains and conveyor series, may be used in many corrosive environments. These include very high moisture levels, acid, alkalies, elevated temperatures, etc., and where cleanliness of operation is either desired or required. (Suitability of a chain for operation under specific adverse conditions should be determined to testing, using realistic service conditions.)

These chains are manufactured to ANSI dimensional specifications to operate over standard sprockets. They are made from a combination of materials to give long life. Side plates are made from 18-8 stainless to resist heat and corrosion. Round parts utilize corrosion-resistant 17-4PH and 17-7PH chrome-nickel steels which are precipitation-hardened for wear resistance.

CEYS can also furnish an all-316 stainless steel chain upon request.

Attachments for standard stainless steel roller chains and conveyor series are normally furnished in 18-8 stainless steel. Straight and bent attachment A-1, K-1, M-1 and M-35 in stainless steel are available assembled in chains.

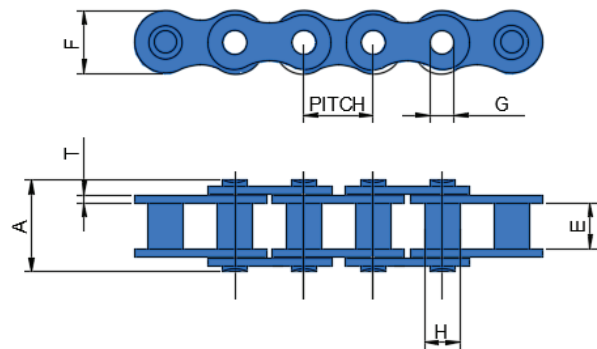
Extended pin attachments D-1 and D-3 are available on special order. Contact CEYS for complete information on standard and special stainless steel attachments.

For sprocket specifications and horsepower ratings, refer to the Engineering Section.

Characteristics

Stainless Steel Roller Chains	Maximum Load Capacity	Maximum Operating Temperature	Magnetic Property
Standard Series	50% of Standard Carbon Steel Chain	600°F Constant 800°F Intermittent	Magnetic
All-316 Material	25% of Standard Carbon Steel Chain	900°F Constant 1200°F Intermittent	Nonmagnetic (most applications)

ANSI Stainless Steel Chain



Dimensions in inches									
ANSI Chain No	Pitch	Inside Width E	Roller Dia. H	Overall Riveted A	Side Plate Thickness T	Side Plate Height F	Pin Dia. G	Average Ultimate Strength lbs.	Average Weight Per Foot lbs.
*25 S.S.	1/4	.125	.130	.31	.030	.23	.0905	700	.10
*35 S.S.	3/8	.187	.200	.47	.050	.36	.141	1,700	.21
41 S.S.	1/2	.250	.306	.51	.050	.39	.141	1,700	.28
40 S.S.	1/2	.312	.312	.65	.060	.46	.156	3,000	.41
50 S.S.	5/8	.375	.400	.79	.080	.59	.200	4,700	.69
60 S.S.	3/4	.500	.469	.98	.094	.68	.234	6,750	.96
80 S.S.	1	.625	.625	1.28	.125	.93	.312	12,000	1.60
100 S.S.	1 1/4	.750	.750	1.54	.156	1.16	.375	18,750	2.56
120 S.S.	1 1/2	1.000	.875	1.94	.187	1.38	.437	27,500	3.60

* Rollerless

ANSI and CEYS Standard Attachments are carried in stock for many standard and double pitch roller chains. They readily adapt to a wide range of timing and indexing mechanism, conveyors, feeders, etc. The CEYS standard attachments have wide extensions that provide extra strength and greater surface area. They are manufactured with the same quality materials as ANSI chains. All of these attachments can be furnished assembled into chains or unassembled as individual components.

Standard attachments may be spaced in the chain at any frequency desired. (The spacing distance must be a whole number multiple of the chain pitch. Listed hole sizes are minimum standard diameters; other sizes are on made-to-order basis. Standard and double pitch chains with attachments will be furnished with a length tolerance of + 1/32" per foot. Closer tolerances are available on special order. (Because assembled attachment chains are made-to-order, they are not returnable.

Standard Roller Chain Attachments



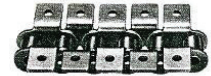
Single Extension Straight,
One Side **M-35**, One Hole
Page 15



Single Extension Straight,
Two Sides **M-1**, One Hole
Page 15



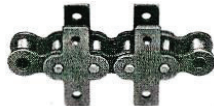
Single Extension Bent,
One Side **A-1**, One Hole
Page 15



Single Extension Bent,
Two Sides **K-1**, One Hole
Page 15



Double Extension Straight,
One Side **MM-35**, One Hole
Page 16



Double Extension Straight,
Two Side **MM-1**, One Hole
Page 16



Double Extension Bent,
One Side **AA-1**, One Hole
Page 16



Double Extension Bent,
Two Sides **KK-1**, One Hole
Page 16



Single Pin Extension,
One Side **D-1**,
Page 17



Double Pin Extension,
One Side **D-3**,
Page 17



Single Pin Extension,
Two Sides **DD-1**,
Page 17



Double Pin Extension,
Two Sides **DD-3**,
Page 17

Standard Wide Contour Roller Chain Attachments



Single Extension
Straight, One Side
WM-35, One Hole (Shown)
WM-35-2, Two Holes
Page 18



Single Extension
Straight, Two Sides
WM-1, One Hole
WM-2, Two Holes (Shown)
Page 18



Single Extension
Bent, One Side
WA-1, One Hole
WA-2, Two Holes (Shown)
Page 19



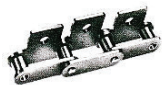
Single Extension
Bent, Two Sides
WK-1, One Hole (Shown)
WK-2, Two Holes
Page 19

Quick Serv Attachment Chains, Riveted Construction Only

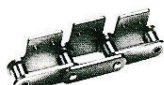
ANSI Chain No.	Attachments													Maximum Feet Per Order
	A-1	A-2	A-0*	K-1	K-2	K-0*	M-1	M-2	M-0*	M-35	M-35-2	D-1	D-3	
Standard Roller Chains														
35, 40, 50, 60	X			X			X			X		X	X	500
80	X			X			X			X		X	X	300
Double Pitch Chains														
C-2040, C-2050, C-2060H	X	X	X	X	X	X	X	X	X	X	X	X	X	500
C-2042, C-2052, C-2062H	X	X	X	X	X	X	X	X	X	X	X	X	X	300

*Identical to A-1, K-1 or M-1, but without holes.

Double Pitch Chain Attachments



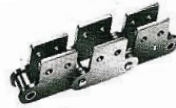
Single Extension
Straight, One Side
M-35, One Hole
Page 20



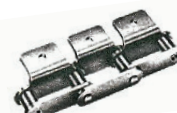
Single Extension
Straight, One Side
M-35-2, Two Holes
Page 20



Single Extension
Straight, Two Sides
M-1, One Hole
Page 20



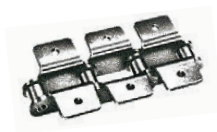
Single Extension
Straight, Two Sides
M-2, Two Holes
Page 20



Single Extension
Bent, One Side
A-1, One Hole
Page 21



Single Extension
Bent, One Side
A-2, Two Holes
Page 21



Single Extension
Bent, Two Sides
K-1, One Hole
Page 21



Single Extension
Bent, Two Sides
K-2, Two Holes
Page 21



Double Extension
Straight, One Side
MM-35, One Hole (Shown)
MM-35-2, Two Holes
Page 22



Double Extension
Straight, Two Sides
MM-1, One Hole (Shown)
MM-2, Two Holes
Page 22



Double Extension
Bent, One Side
AA-1, One Hole (Shown)
AA-2, Two Holes
Page 23



Double Extension
Bent, Two Sides
KK-1, One Hole (Shown)
KK-2, Two Holes
Page 23



Single Pin Extension
One Side
D-1, page 24



Double Pin Extension
One Side
D-3, page 24

Double Pitch Wide Contour Chain Attachments



Single Extension
Straight, One Side
WM-35, One Hole
WM-35-2, Two Holes (Shown)
Page 25



Single Extension
Straight, Two Sides
WM-1, One Hole
WM-2, Two Holes (Shown)
Page 25



Single Extension
Bent, One Side
WA-1, One Hole
WA-2, Two Holes (Shown)
Page 26

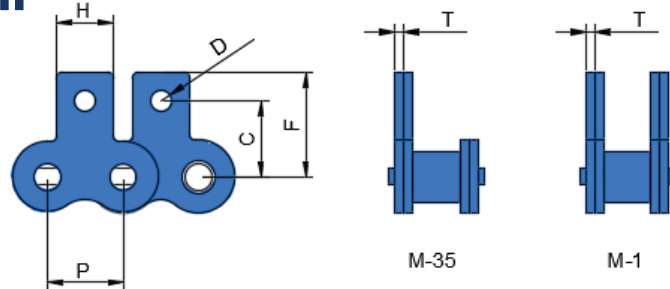


Single Extension
Bent, Two Sides
WK-1, One Hole
WK-2, Two Holes (Shown)
Page 26

Straight, Single Extension

M-35, One Hole
One Side

M-1, One Hole
Two Sides



Dimensions in inches								
							M-35	M-1
							Average Weight Per Foot †	
ANSI Chain		From Hole C.L. To Pin C.L.	Hole Dia.	From Top to Pin C.L.	Extension Width	Thickness		
No	Pitch	C	H	F	E	T	lbs.	lbs.
35**	3/8	.375	.102	.531	.312	.050	.3	.4
40	1/2	.500	.140	.687	.375	.060	.5	.6
50	5/8	.625	.200	.968	.562	.080	.8	1.0
60	3/4	.718	.200	1.062	.625	.094	1.3	1.5
80	1	1.000	.261	1.500	.937	.125	2.1	2.6
100	1 1/4	1.250	.323	1.906	1.156	.156	3.3	4.0
120	1 1/2	1.437	.386	2.031	1.125	.187	4.5	5.5
140	1 3/4	1.750	.448	2.437	1.375	.218	6.4	7.8
160	2	2.000	.516	2.750	1.500	.250	8.8	10.6
** Rollerless						† Attachment at each link		

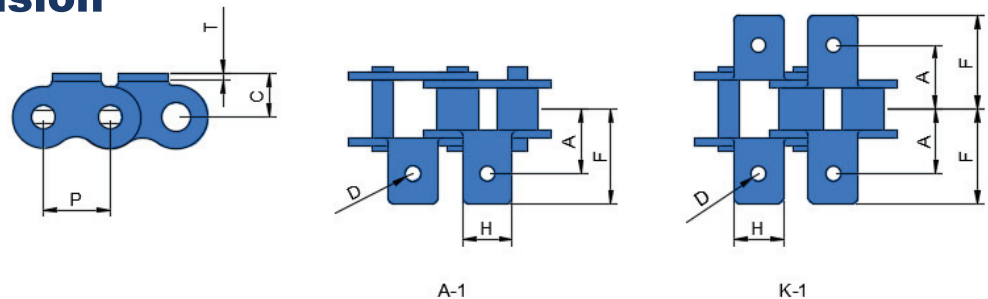
** Rollerless

† Attachment at each link

Bent, Single Extension

A-1, One Hole
One Side

K-1, One Hole
Two Sides



Dimensions in inches											
ANSI Chain No Pitch		A-1		K-1						A-1	K-1
		From Hole	From End	From Hole	From End			Extension		Average Weight Per	
		C.L. to Chain C.L.	to Chain C.L.	C.L. to Chain C.L.	to Chain C.L.	From Top to Pin C.L.	Hole Dia.	Width	Thickness	Foot †	lbs.
		A	F*	A	F*	C	D	H	T	lbs.	
35**	3/8	.375	.515	.375	.515	.250	.102	.312	.050	.3	.4
40	1/2	.500	.687	.500	.687	.312	.140	.375	.060	.6	.7
50	5/8	.625	.968	.625	.968	.406	.200	.562	.080	.9	1.0
60	3/4	.718	1.093	.718	1.093	.468	.200	.625	.094	1.3	1.6
80	1	1.000	1.546	1.000	1.546	.625	.261	.937	.125	2.2	2.6
100	1 1/4	1.250	1.906	1.250	1.906	.781	.323	1.156	.156	3.4	4.0
120	1 1/2	1.437	2.171	1.437	2.171	.906	.386	1.125	.187	4.8	5.9
140	1 3/4	1.750	2.437	1.750	2.437	1.125	.448	1.375	.218	6.5	7.9
160	2	2.000	2.812	2.000	2.812	1.250	.516	1.500	.250	8.9	10.8
**Rollerless			*Extensions are staggered on chains 100 through 160						† Attachment at each link		

** Rollerless

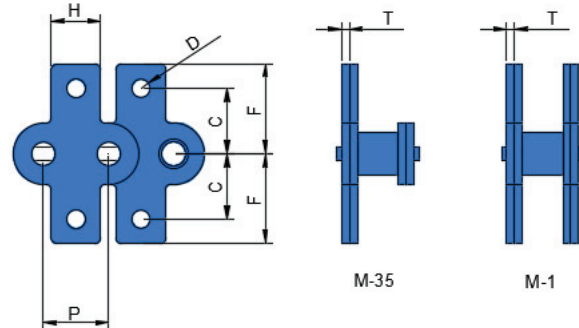
*Extensions are staggered on chains 100 through 160

† Attachment at each link

Straight, Double Extension

MM-35, One Hole
One Side

MM-1, One Hole
Two Sides

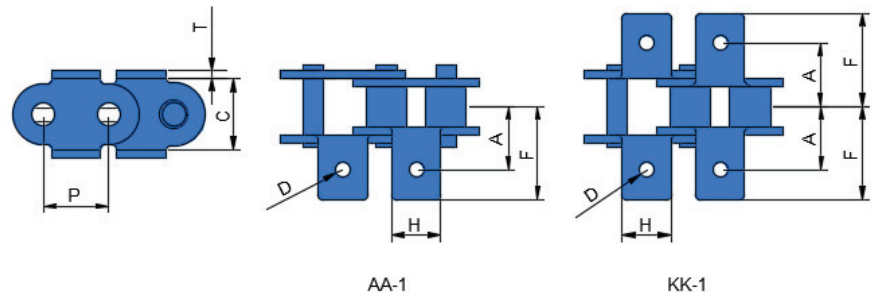


Dimensions in inches							
ANSI Chain No.	Pitch	From Hole C.L. To Pin C.L.	Hole Dia.	From Top/Bottom to Pin C.L.	Extension Width	Thickness	
		C	D	F	H	T	
40	1/2	.500	.140	.750	.375	.060	
50	5/8	.625	.200	.968	.500	.080	
60	3/4	.718	.200	1.062	.625	.094	
80	1	.968	.261	1.500	.750	.125	
100	1 1/4	1.250	.323	2.109	1.000	.156	

Bent, Double Extension

AA-1, One Hole
One Side

KK-1, One Hole
Two Sides

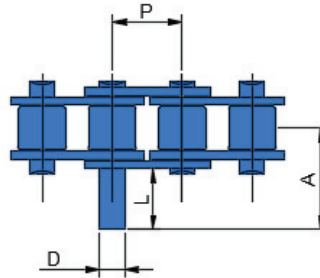


Dimensions in inches							
ANSI Chain No.	Pitch	From Hole C.L. To Pin C.L.	Height Between Extensions	Hole Dia.	From End to Chain C.L.	Extension Width	Thickness
		A	C	D	F*	H	T
40	1/2	.500	.515	.140	.750	.375	.060
50	5/8	.625	.640	.200	.940	.500	.080
60	3/4	.718	.765	.200	1.090	.625	.094
80	1	.968	1.015	.261	1.500	.750	.125
100	1 1/4	1.250	1.265	.323	1.870	1.000	.156

*All extensions are staggered.

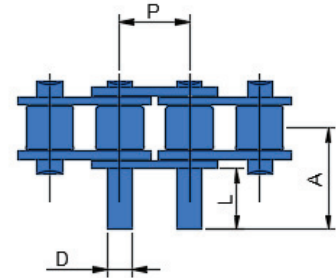
Extended Pin

D-1, Single Pin
One Side



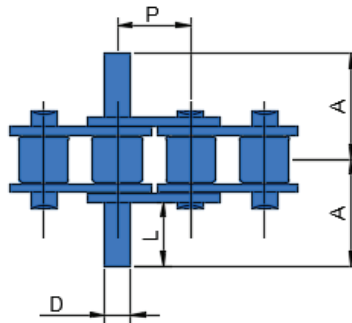
D-1

D-3, Double Pin
One Side



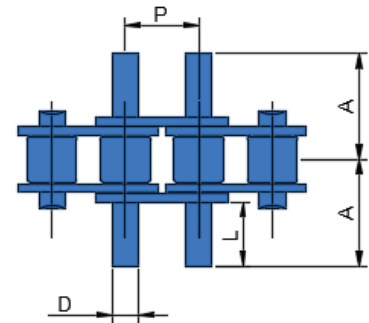
D-3

DD-1, Single Pin
Two Sides



DD-1

DD-3, Double Pin
Two Sides



DD-3

Dimensions in inches				
ANSI Chain No.	Pitch	From Pin End to C.L.	Pin Dia.	Pin Projection
		A	D	L
35**	3/8	.576	.141	.375
41	1/2	.607	.141	.375
40	1/2	.660	.156	.375
50	5/8	.828	.200	.468
60	3/4	1.009	.234	.562
80	1	1.323	.312	.750
100	1 1/4	1.637	.375	.937
120	1 1/2	2.020	.437	1.125
140	1 3/4	2.268	.500	1.312
160	2	2.648	.562	1.500
200	2 1/2	3.284	.781	1.875

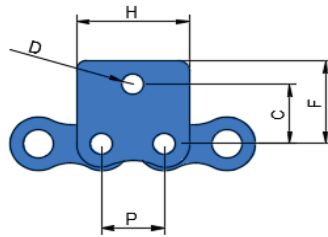
** Rollerless

Wide Contour attachments are furnished on either pin links or roller links. Bent attachments, WA-1, -2 and WK-1, -2, cannot be supplied on adjacent links. Backbending of chains with adjacent wide contour attachments is limited because of the restricted clearance between extensions.

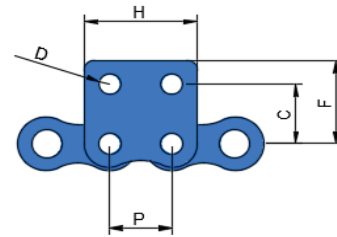
Wide Contour, Straight, Single Extension

WM-35, One Hole
One Side

WM-35-2, Two Holes
One Side



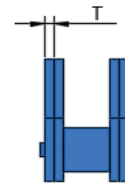
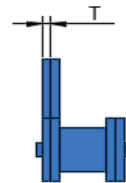
WM-35
WM-1



WM-35-2
WM-2

WM-1, One Hole
Two Sides

WM-2, Two Holes
Two Sides



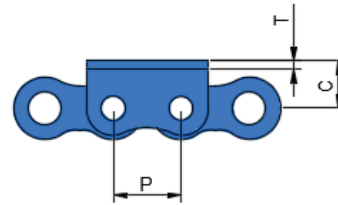
WM-35 WM-1
WM-35-2 WM-2

Dimensions in inches						
ANSI Chain No	Pitch	From Hole C.L. To Pin		From Top to Pin C.L. F	Extension Width H	Thickness T
		C.L. C	Hole Dia. D			
35**	3/8	.375	.102	.578	.73	.050
40	1/2	.500	.140	.688	.95	.060
50	5/8	.625	.200	.890	1.20	.080
60	3/4	.718	.200	1.031	1.43	.094
80	1	1.000	.261	1.343	1.87	.125
100	1 1/4	1.250	.323	1.906	2.41	.156
120	1 1/2	1.437	.386	2.031	2.88	.187

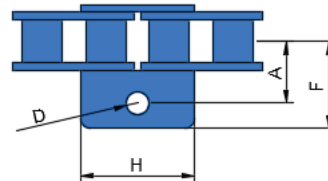
** Rollerless

Wide Contour, Bent, Single Extension

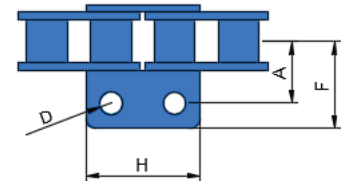
WA-1, One Hole
One Side



WA-2, Two Holes
One Side

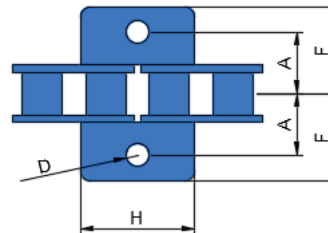


WA-1

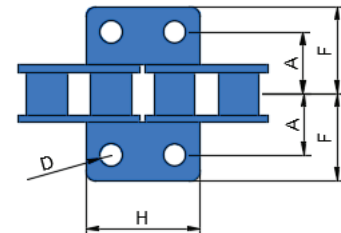


WA-2

WK-1, One Hole
Two Sides



WK-1



WK-2

WK-2, Two Holes
Two Sides

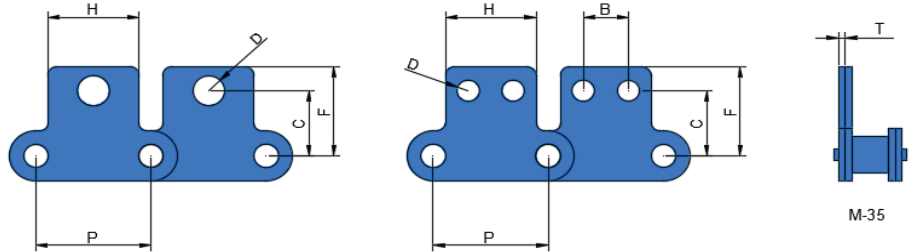
Dimensions in inches							
ANSI Chain No	Pitch	From Hole C.L. To Chain C.L.	From Top to Pin C.L.	Hole Dia.	From Top to Pin C.L.	Extension Width	Thickness
		A	C	D	F	H	T
35**	3/8	.375	.250	.102	.578	.73	.050
40	1/2	.500	.312	.140	.688	.95	.060
50	5/8	.625	.406	.200	.890	1.20	.080
60	3/4	.718	.468	.200	1.031	1.43	.094
80	1	1.000	.625	.261	1.343	1.87	.125
100	1 1/4	1.250	.781	.323	1.906	2.41	.156
120	1 1/2	1.437	.906	.386	2.031	2.88	.187

** Rollerless

Straight, Single Extension

M-35, One Hole
One Side

M-35-2, Two Holes
One Sides



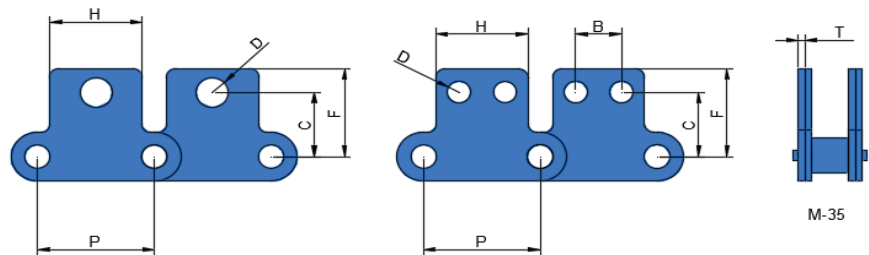
M-35

M-35-2

Dimensions in inches										
ANSI Chain No.			M-35		M-35-2					
Standard Roller	Large Size Roller	Pitch	From Hole C.L. To Pin C.L.	From Hole C.L. To Pin C.L.	From Hole C.L. To Pin C.L.	From Hole C.L. To Pin C.L.	From Hole C.L. To Pin C.L.	From Top to Pin C.L.	Extension Width	Thickness
			C	Hole Dia.	B	C	Hole Dia.	F	H	T
			C	D	B	C	D	F	H	T
C-2040	C-2042	1	.437	.200	.375	.531	.140	.766	.750	.060
C-2050	C-2052	1 1/4	.562	.261	.468	.625	.200	1.031	1.000	.080
C-2060H	C-2062H	1 1/2	.688	.323	.562	.750	.200	1.203	1.125	.125
C-2080H	C-2082H	2	.875	.386	.750	1.000	.261	1.500	1.500	.156
C-2100H	C-2102H	2 1/2	1.125	.516	.938	1.250	.323	1.984	1.875	.187
C-2120H	C-2122H	3	1.312	.578	1.125	1.468	.386	2.361	2.250	.218
C-2160H	C-2162H	4	1.750	.771	1.500	2.000	.516	3.093	3.000	.281

M-1, One Hole
Two Sides

M-2, Two Holes
Two Sides



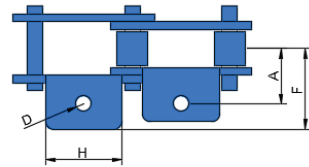
M-1

M-2

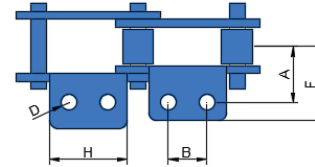
Dimensions in inches										
ANSI Chain No.			M-1		M-2					
Standard Roller	Large Size Roller	Pitch	From Hole C.L. To Pin C.L.	From Hole C.L. To Pin C.L.	From Hole C.L. To Pin C.L.	From Hole C.L. To Pin C.L.	From Hole C.L. To Pin C.L.	From Top to Pin C.L.	Extension Width	Thickness
			C	Hole Dia.	B	C	Hole Dia.	F	H	T
			C	D	B	C	D	F	H	T
C-2040	C-2042	1	.437	.200	.375	.531	.140	.766	.750	.060
C-2050	C-2052	1 1/4	.562	.261	.468	.625	.200	1.031	1.000	.080
C-2060H	C-2062H	1 1/2	.688	.323	.562	.750	.200	1.203	1.125	.125
C-2080H	C-2082H	2	.875	.386	.750	1.000	.261	1.500	1.500	.156
C-2100H	C-2102H	2 1/2	1.125	.516	.938	1.250	.323	1.984	1.875	.187
C-2120H	C-2122H	3	1.312	.578	1.125	1.468	.386	2.361	2.250	.218
C-2160H	C-2162H	4	1.750	.771	1.500	2.000	.516	3.093	3.000	.281

Bent, Single Extension

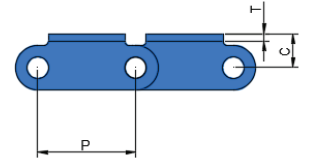
A-1, One Hole
One Side



A-1



A-2

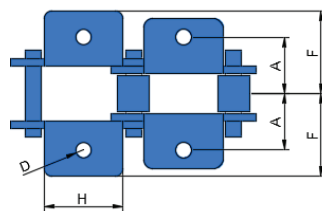


A-2, Two Holes
One Side

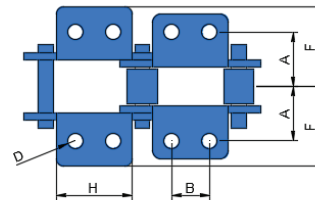
Dimensions in inches									
ANSI Chain No.		Pitch	From Hole	From Hole	From Top	Hole Dia.	From End	Extension	Thickness
Standard Roller	Large Size Roller		C.L. To Chain C.L.	C.L. To Hole C.L.	To Pin C.L.		to Chain C.L.	Width	
			A	B	C	D	F*	H	T
C-2040	C-2042	1	.500	.375	.359	.140	.75	.750	.060
C-2050	C-2052	1 1/4	.625	.468	.437	.200	1.00	1.000	.080
C-2060H	C-2062H	1 1/2	.844	.562	.578	.200	1.20	1.125	.125
C-2080H	C-2082H	2	1.093	.750	.750	.261	1.52	1.500	.156
C-2100H	C-2102H	2 1/2	1.312	.938	.922	.323	1.95	1.875	.187
C-2120H	C-2122H	3	1.562	1.125	1.093	.386	2.39	2.250	.218
C-2160H	C-2162H	4	2.062	1.500	1.437	.516	3.06	3.000	.281

*Extensions are staggered on chains C-2100H, C-2120H and C-2160H.

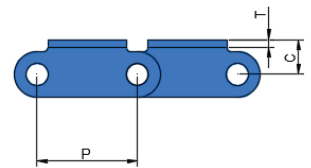
K-1, One Hole
Two Sides



K-1



K-2



K-2, Two Holes
Two Sides

Dimensions in inches									
ANSI Chain No.		Pitch	From Hole	From Hole	From Top	Hole Dia.	From End	Extension	Thickness
Standard Roller	Large Size Roller		C.L. To Chain C.L.	C.L. To Hole C.L.	To Pin C.L.		to Chain C.L.	Width	
			A	B	C	D	F*	H	T
C-2040	C-2042	1	.500	.375	.359	.140	.75	.750	.060
C-2050	C-2052	1 1/4	.625	.468	.437	.200	1.00	1.000	.080
C-2060H	C-2062H	1 1/2	.844	.562	.578	.200	1.20	1.125	.125
C-2080H	C-2082H	2	1.093	.750	.750	.261	1.52	1.500	.156
C-2100H	C-2102H	2 1/2	1.312	.938	.922	.323	1.95	1.875	.187
C-2120H	C-2122H	3	1.562	1.125	1.093	.386	2.39	2.250	.218
C-2160H	C-2162H	4	2.062	1.500	1.437	.516	3.06	3.000	.281

*Extensions are staggered on chains C-2100H, C-2120H and C-2160H.

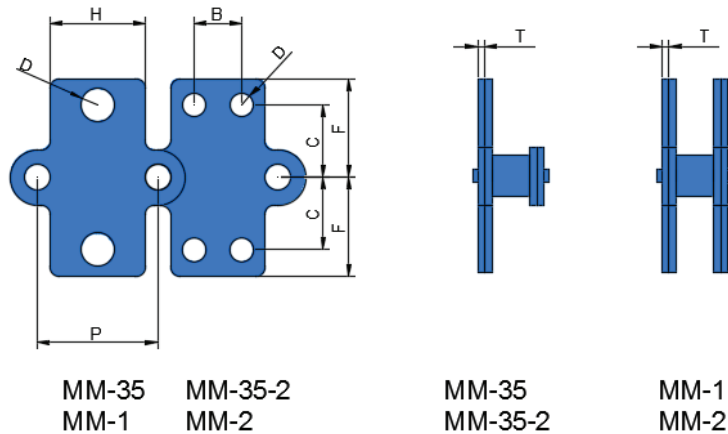
Straight, Double Extension

MM-35, One Hole
One Side

MM-35-2, Two Holes
One Side

MM-1, One Hole
Two Sides

MM-2, Two Holes
Two Sides

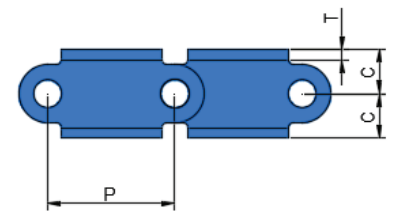
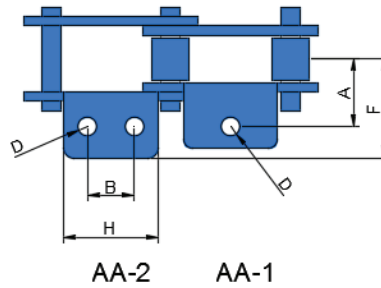


Dimensions in inches										
ANSI Chain No.			MM-35-2, MM-2			MM-35, MM-1			From Top/Bottom to Pin Extension	
Standard Roller	Large Size Roller	Pitch	From Hole C.L. To Hole C.L.	From Hole C.L. To Pin C.L.	Hole Dia.	From Hole C.L. To Pin C.L.	Hole Dia.	From Top/Bottom to Pin C.L.	Width	Thickness
B	C	D	C	D	F	H	T			
C-2040	C-2042	1	.375	.531	.140	.437	.200	.766	.750	.060
C-2050	C-2052	1 1/4	.468	.625	.200	.562	.261	1.031	1.000	.080
C-2060H	C-2062H	1 1/2	.562	.750	.200	.688	.323	1.203	1.125	.125
C-2080H	C-2082H	2	.750	1.000	.261	.875	.386	1.500	1.500	.156
C-2100H	C-2102H	2 1/2	.938	1.250	.323	1.125	.516	1.984	1.875	.187

Bent, Double Extension

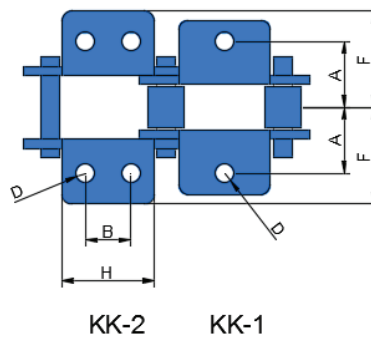
AA-1, One Hole
One Side

AA-2, Two Holes
One Side



KK-1, One Hole
Two Sides

KK-2, Two Holes
Two Sides



Dimensions in inches

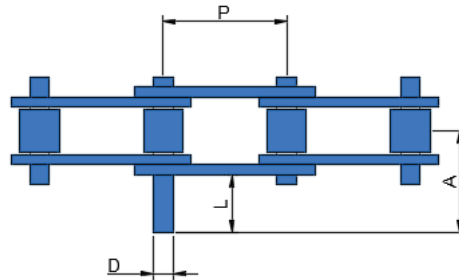
ANSI Chain No.

Standard Roller	Large Size Roller	Pitch	From Hole	From Hole	From	From End			
			C.L. To	C.L. To	Top/Bottom	to Chain	Extension	Thickness	
			Chain C.L.	Hole C.L.	to Pin C.L.	Hole Dia.	C.L.		Width
A	B	C	D	F*	H	T			
C-2040	C-2042	1	.500	.375	.359	.140	.750	.750	.060
C-2050	C-2052	1 1/4	.625	.468	.437	.200	1.000	1.000	.080
C-2060H	C-2062H	1 1/2	.844	.562	.578	.200	1.200	1.125	.125
C-2080H	C-2082H	2	1.093	.750	.750	.261	1.520	1.500	.156
C-2100H	C-2102H	2 1/2	1.312	.937	.921	.323	1.950	1.875	.187

*Extensions are staggered.

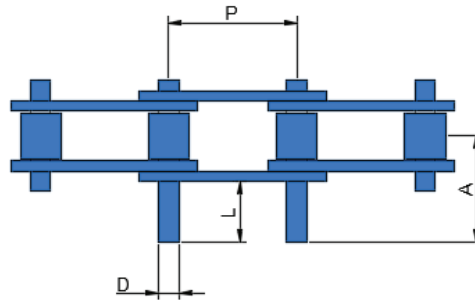
Extended Pin

D-1, Single Pin
One Side



D-1

D-3, Double Pin
One Side



D-3

Dimensions in inches					
ANSI Chain No.		Pitch	From Pin End to Chain C.L.	Pin Dia.	Pin Projection
Standard Roller	Large Size Roller		A	D	L
C-2040	C-2042	1	.656	.156	.375
C-2050	C-2052	1 1/4	.828	.200	.468
C-2060H	C-2062H	1 1/2	1.062	.234	.562
C-2080H	C-2082H	2	1.375	.312	.750
C-2100H	C-2102H	2 1/2	1.687	.375	.937
C-2120H	C-2122H	3	2.062	.437	1.125
C-2160H	C-2162H	4	2.718	.562	1.500

Wide Contour attachments are furnished on either pin links or roller links. Bent attachments, WA-1, -2 and WK-1, -2, cannot be supplied on adjacent links. Backbending of chains with adjacent wide contour attachments is limited because of the restricted clearance between extensions.

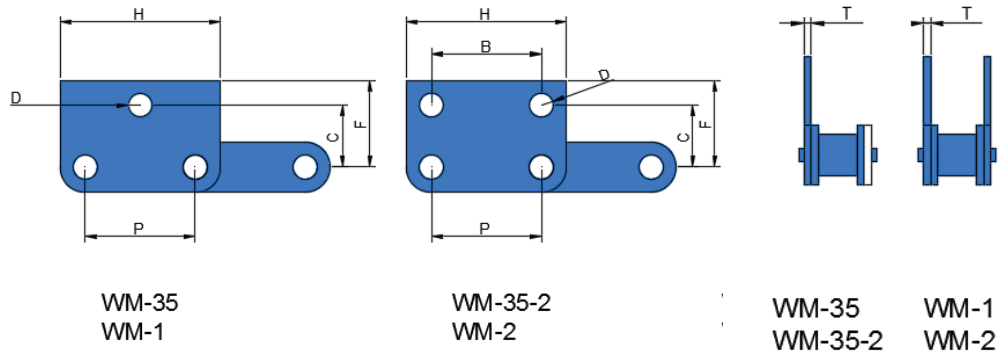
Wide Contour, Straight, Single Extension

WM-35, One Hole
One Side

WM-35-2, Two Holes
One Side

WM-1, One Hole
Two Sides

WM-2, Two Holes
Two Sides



Dimensions in inches										
ANSI Chain No.			WM-35-2, WM-2			WM-35, WM-1				
Standard Roller	Large Size Roller	Pitch	From Hole C.L. To Hole C.L.	From Hole C.L. To Pin C.L.	Hole Dia.	From Hole C.L. To Pin C.L.	Hole Dia.	From Top to Pin C.L.	Extension Width	Thickness
			B	C		C				
C-2040	C-2042	1	1.000	.531	.140	.438	.200	.766	1.45	.060
C-2060H	C-2062H	1 1/2	1.500	.750	.200	.688	.323	1.203	2.18	.125
C-2080H	C-2082H	2	2.000	1.000	.261	.875	.386	1.500	2.88	.156
C-2100H	C-2102H	2 1/2	2.500	1.250	.323	1.125	.516	1.984	3.66	.187

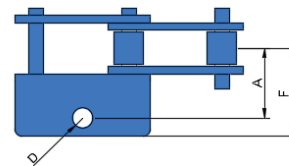
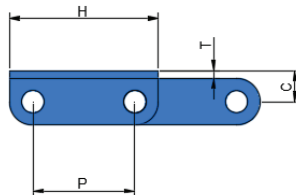
Wide Contour, Bent, Single Extension

WA-1, One Hole
One Side

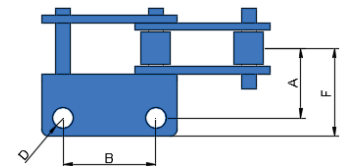
WA-2, Two Holes
One Side

WK-1, One Hole
Two Sides

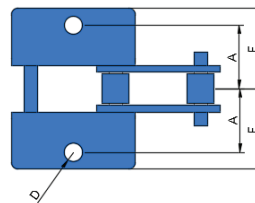
WK-2, Two Holes
Two Sides



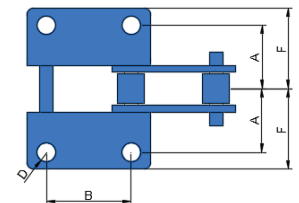
WA-1



WA-2



WK-1



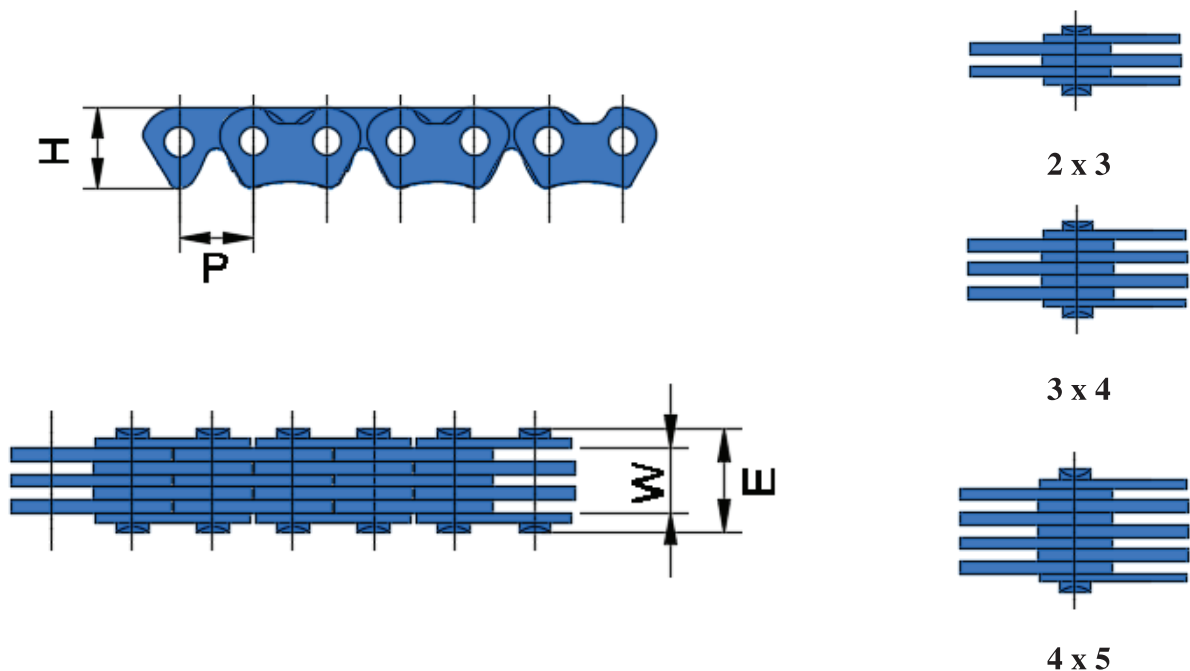
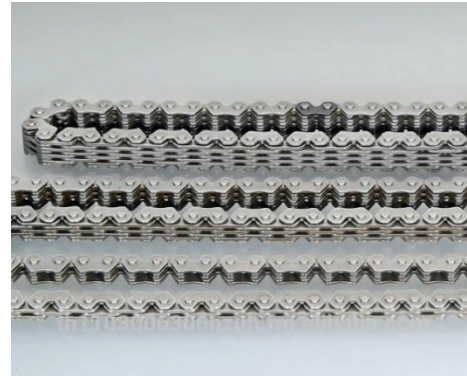
WK-2

Dimensions in inches									
ANSI Chain No.			From Hole	From Hole	From Top		From End	Extension	
Standard	Large Size	Pitch	C.L. To	C.L. To Hole	to Pin	Hole Dia.	to Chain	Width	Thickness
Roller	Roller		Chain C.L.	C.L.	C.L.	D	F	H	T
A	B	C							
C-2040	C-2042	1	.500	1.000	.359	.140	.750	1.45	.060
C-2060H	C-2062H	1 1/2	.844	1.500	.578	.200	1.200	2.18	.125
C-2080H	C-2082H	2	1.093	2.000	.750	.261	1.520	2.88	.156
C-2100H	C-2102H	2 1/2	1.312	2.500	1.093	.323	1.980	3.66	.187

Silent Chain

CEYS SCR Silent Chain used specially-coated round pins and special plates to achieve an ideal engagement mechanism, and can keep a noise level remarkably lower than conventional roller chains. SCR type silent chains can be used for high speed and large tension transmission just like a toothed metallic belt since the plates directly engage with the sprockets for driving.

CEYS Silent Chains are designed with inner engaging structure for further reduced noise level.



Dimensions in millimetre (mm)						
Chain No.	Pitch	Plates Quantity	Overall Riveted W	Plate Height H	Average Ultimate Strength lbs.	Average Weight (kg/m)
SCR 2 x 3	6.35	2 x 3	3.20	6.85	1,550	0.172
SCR 3 x 4		3 x 4	5.10		2,250	0.255
SCR 4 x 5		4 x 5	7.15		2,975	0.322

Motorcycle Chains

CEYS Motorcycle Chains have been specifically designed to withstand the severe conditions under which these chains are subjected to. CEYS Motorcycle Chains are manufactured to the highest quality standards to resist wear, shock and fatigue.

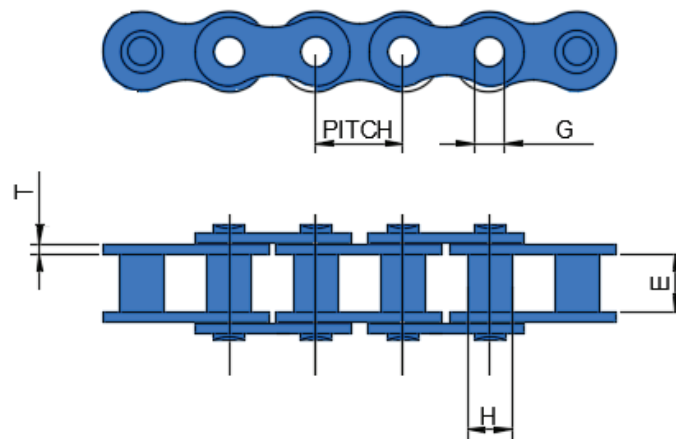
A complete range of standard series drive chains is available for small to big capacity motorcycles.

For easy maintenance, CEYS offers the HSL series Self Lubricating motorcycle chains. HSL Chain features precise

joint clearances to minimize chain snatch and noise; increased strength; added bushing length to provide greater wear and positive clearance to minimize friction and prevent frozen joints.

The special oil impregnated in the bushings expands during chain operation, automatically lubricating all bearing surfaces. When the chain stops, the oil is reabsorbed into the sintered steel bushings. This process continues throughout the life of the chain.

CEYS Endurgo Series ES Chains are especially good for off-road or motocross bikes. ES Chain features special compound rubber O-Rings on each link to seal the oil in but keep out the abrasive dirt and mud.



Dimensions in inches						
ANSI Chain No	Pitch	Inside Width E	Roller Dia. H	Pin Dia G	Plate Thickness T	Average Ultimate Strength lbs.
420	1/2	1/4	.306	.141	0.060	4150
428	1/2	5/16	.335	.175	0.060	4200
428H	1/2	5/16	.335	.177	0.080	4500
520	5/8	1/4	.400	.200	0.080	7000
525	5/8	5/16	.400	.200	0.080	7000
530	5/8	3/8	.400	.200	0.080	7000
520 HSL	5/8	1/4	.400	.200	0.094	5200
530 HSL	5/8	3/8	.400	.200	0.094	5200
520 ES	5/8	1/4	.400	.200	0.080	7050
530 ES	5/8	3/8	.400	.200	0.080	7050
530H ES	5/8	3/8	.400	.200	0.080	8400



 ***CEYS***
CHAINS