CONNEXUS

INDUSTRIES INC

Chain & Industrial Manufactured Solutions

Roller Chain

INTRODUCTION

Connexus Industries Inc... Chain & Industrial Manufactured Solutions

Connexus Industries is a manufacturer and wholesaler of industrial steel chain and related products. A dynamic integration of four industry companies, Lacey Harmer, Viking Chains,l'Anco and Rens-Metal Shark has Connexus Industries positioned as one of the leading suppliers in our field.

Connexus Industries has 4 strategic stocking locations in North America, and distribution partners world wide. We can service any of our customer's needs.

Connexus Industries has a diverse customer base that includes the wood, food packaging, cement, sugar, waste water and agricultural industries. By bringing our products to market through multiple channels We remain connected to our customers through contact with end users.

As a manufacturer of specialty chains, attachments, sprockets and shaft asse mblies, our sales and engineering staff are able to recommend and assist our customers in their most difficult and arduous applications.

By displaying the registered CXS brand on all our products, and committed to the high standards of ISO quality management we assure our customers of our commitment and dedication to continuous product quality.

Cliff Lane
President
CONNEXUS INDUSTRIES

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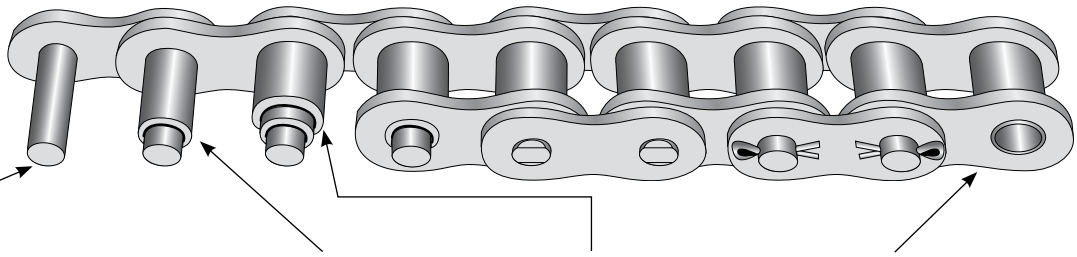
CHAIN CONSTRUCTION & COMPONENTS

Roller Chain consists of pins, bushings, rollers and link plates as illustrated below



Pin requires high wear resistance and shearing strength to support the entire load acting on the chain

Bushing receives massive forces from other components of the chain and must provide wear resistance and fatigue strength

Roller requires high shock strength, collapse strength and wear resistance to protect the chain from heavy shock of the sprocket and also in order to articulate the chains smoothly when engaged with the sprocket

Link plate receives direct tension of the chain with occasional large shock on power transmission, therefore requires high tensile strength, shock resistance, and fatigue strength

Connecting Link
(Spring Clip type)

Connecting Link
(Cotter Pin type)

Connecting Link
(Duplex)

Offset Link

Offset Link
(Duplex)

Two Pitch Offset Link

Connecting Link allows easy installation or removal of a roller chain with an even number of pitches. Spring Clips or Cotter Pins are used to retain the connecting pins.

Offset Link are used to adjust the lengths of the chain with an odd number of pitches. It is not recommended to use Offset Links. Whenever possible, use chain with an even number of pitches.

Two Pitch Offset Link is a combination of an inner link and offset link, which is stronger than One Pitch Offset Link.

STANDARD PACKAGING

Number of Links (Pitches) in Package					
Chain Size	Chain Pitch	Standard 10′ Box	Standard Reels		
			25′ Reel	50′ Reel	100′ Reel
25	0.250	480	1200	2400	4800
35	0.375	320	800	1600	3200
40	0.500	240	600	1200	2400
41	0.500	240	600	1200	2400
50	0.625	192	480	960	1920
60	0.750	160	400	800	1600
80	1.000	120	300	600	
100	1.250	96	240	480	
120	1.500	80			
140	1.750	68			
160	2.000	60			
180	2.250	54			
200	2.500	48			
240	3.000	40			

10′ Box
Normal stocking of roller chain will be in 10′ Box with proper product identification.

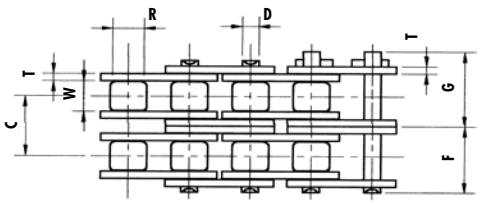
Reel or Coil
Available in coils or reels, coiled around wooden or wire spool, normally 25′, 50′ or 100′ depending on size of chain and weight.

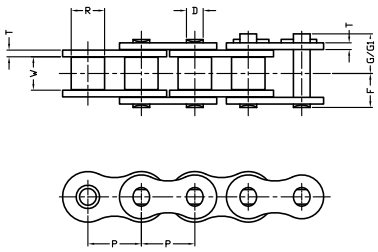
Ordering Cut to Length Strands: If length in pitches required is known. Please call our service personnel for aid in ordering if only length in inches, feet, or metric length is known

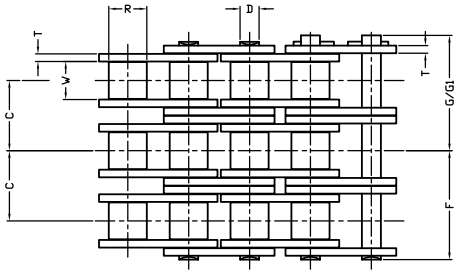
Advise Configuration

Terms	Description of Assembly
RLEE Odd No. of Pitches	**Roller Link each end** exact amount of links (pitches) will end with roller link each end of strand, no connecting link or offset link will be supplied
Inc Conn Link (Master Link) Even No. of Pitches	**Pitches including connecting link** exact amount of links (pitches) will include a loose connecting link (master link) at the end of strand
Inc Conn Link (Master Link) Each End Even No. of Pitches	**Pitches including connecting link each end** exact amount of links (pitches) will include a loose connecting link (master link) at both ends of strand
Inc Conn Link (Master Link) Assembled Endless Even No. of Pitches	**Pitches including connecting link (master link) assembled endless** exact amount of links (pitches) will include conn link assembled into endless loop
Riveted Endless Even No. of Pitches	**Pitches riveted endless** exact amount of links (pitches) will be supplied with no connecting or offset link but will be riveted into endless loop using riveted pin link and roller link within the chain
Inc C/L & O/L Odd No. of Pitches	**Pitches including connecting link (master link) and offset link** exact amount of pitches ordered will include an offset link assembled onto chain and a loose connecting link (master link) will be supplied

STANDARD ROLLER CHAINS



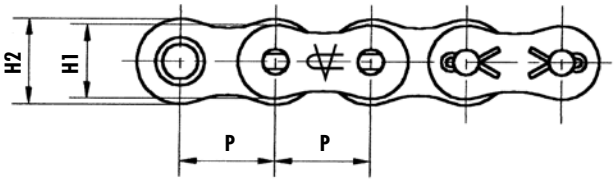


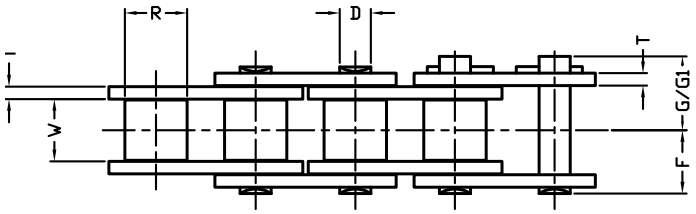


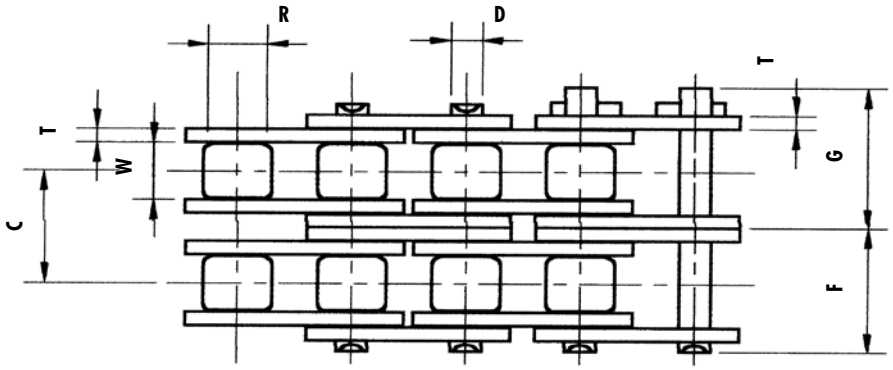
CONNEXUS ANSI #	Pitch	Roller Width	Roller Dia	Link Plates			Pin				Transverse PITCH	Avg Ult Strength	Approx Weight
				Height		Thickness	Dia		Lengths				
	P	W	R	H1	H2	T	D	F	G	G1	C	Lbs/Ft	Lbs/Ft
25	0.250	0.125	0.130	0.197	0.228	0.03	0.091	0.150	0.189			990	0.094
25-2								0.277	0.316		0.252	1,980	0.175
25-3								0.402	0.441		0.252	2,970	0.269
35	0.375	0.188	0.200	0.299	0.354	0.047	0.141	0.228	0.276	0.299		2,310	0.222
35-2								0.425	0.472	0.500	0.398	4,620	0.464
35-3								0.626	0.730	0.685	0.398	6,930	0.704
41	0.500	0.250	0.306	0.335	0.382	0.047	0.141	0.260	0.313	0.335		2,640	0.275
40	0.500	0.312	0.312	0.402	0.465	0.06	0.156	0.323	0.368	0.394		4,070	0.456
40-2								0.602	0.669	0.693	0.567	8,140	0.799
40-3								0.892	0.937	0.967	0.567	12,120	1.189
50	0.625	0.375	0.400	0.512	0.583	0.079	0.190	0.398	0.459	0.496		6,820	0.678
50-2								0.756	0.815	0.831	0.713	13,640	1.370
50-3								1.114	1.167	1.189	0.713	20,460	2.049
60	0.750	0.500	0.469	0.610	0.689	0.094	0.234	0.492	0.557	0.606		9,680	0.967
60-2								0.945	1.004	1.059	0.898	19,360	2.035
60-3								1.392	1.455	1.482	0.898	29,040	3.073
80	1.000	0.625	0.625	0.803	0.941	0.122	0.313	0.634	0.699	0.740		17,160	1.612
80-2								1.205	1.268	1.323	1.154	34,320	3.533
80-3								1.783	1.850	1.890	1.154	51,480	5.240
100	1.250	0.750	0.750	0.976	1.185	0.154	0.375	0.791		0.909		26,007	2.512
100-2								1.496		1.614	1.409	52,015	5.038
100-3								2.200		2.319	1.409	78,020	7.524
120	1.500	1.000	0.875	1.181	1.378	0.185	0.437	0.992		1.126		34,100	4.150
120-2								1.886		2.020	1.787	68,200	8.230
120-3								2.780		2.913	1.787	102,300	12.290
140	1.750	1.000	1.000	1.425	1.654	0.220	0.500	1.075				47,300	5.032
140-2								2.037			1.925	94,600	9.962
140-3											1.925	141,900	14.752
160	2.000	1.250	1.125	1.630	1.890	0.252	0.562	1.281		1.467		60,500	6.770
160-2								2.430		2.618	2.303	121,000	13.430
160-3								3.585		3.770	2.303	181,500	20.130
180	2.250	1.406	1.406	1.842	2.134	0.280	0.687	1.402		1.642		81,610	9.220
180-2								2.697		2.937	2.591	163,200	18.326
180-3								3.992		4.232	2.591	244,800	27.426
200	2.500	1.562	1.562	2.047	2.374	0.315	0.781	1.531		1.811		105,900	11.312
200-2								2.941		3.22	2.819	211,500	22.470
200-3								4.35		4.63	2.819	317,400	33.622
240	3.000	1.875	1.875	2.457	2.850	0.374	0.937	1.858		2.157		152,200	16.509
240-2								3.587		3.886	3.457	304,200	32.817
240-3								5.315		5.614	3.457	456,400	49.125

Additional Multiple Strand Chains (-4 thru -6) are available from our factories or for special stocking arrangements.

CONNEXUS INDUSTRIES INC





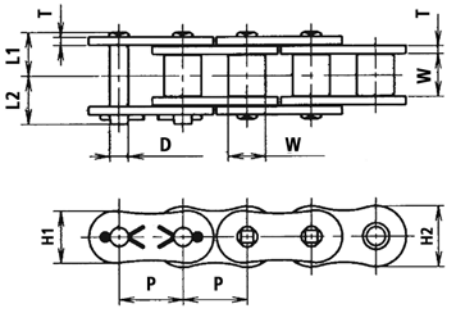


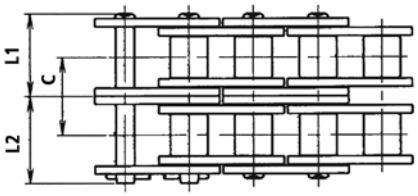
- ANSI **Heavy Series Chains** differ from standard roller chains in the extra thickness of link plates
- The thicker plates provide greater shock load resistance and fatigue strength

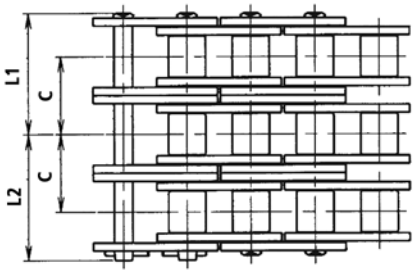
▼ These chains are used in heavy duty applications

CONNEXUS ANSI #	Pitch	Roller Width	Roller Dia	Link Plates			Pin				Transverse PITCH	Avg Ult Strength	Approx Weight
				Height		Thickness	Dia	Lengths					
	P	W	R	H1	H2	T	D	F	G	G1	C	Lbs/Ft	Lbs/Ft
25-H **415-H**	0.250 0.500	0.125 0.188	0.130 0.306	0.197 0.402	0.228 0.465	0.039 0.059	0.090 0.156	0.177 0.252	0.200 0.307			1,232 4,070	0.11 0.34
50H	0.625	0.375	0.400	0.512	0.583	0.094	0.199	0.429	0.488	0.508		6,820	0.75
60H **60H-2**	0.750	0.500	0.469	0.610	0.689	0.122	0.234	0.555 1.070	0.618 1.134	0.654 1.169	1.028	9,680 19,360	1.21 2.39
80H **80H-2**	1.000	0.625	0.625	0.819	0.945	0.154	0.313	0.705 1.346		0.819 1.461	1.283	17,600 35,200	1.98 3.92
100H **100H-2**	1.250	0.750	0.750	0.976	1.185	0.185	0.375	0.854 1.624		0.980 1.750	1.539	26,400 52,800	2.98 5.59
120H **120H-2**	1.500	1.000	0.875	1.180	1.378	0.220	0.437	1.062 2.024		1.204 2.167	1.925	35,200 70,400	4.55 9.02
140H **140H-2**	1.750	1.000	1.000	1.430	1.654	0.252	0.500	1.138 2.171		1.303 2.325	2.055	47,300 94,600	5.44 10.80
160H **160H-2**	2.000	1.250	1.125	1.630	1.890	0.283	0.562	1.344 2.563		1.530 2.748	2.437	60,500 121,000	7.29 13.98

HEAVY DUTY CHAINS SH SERIES

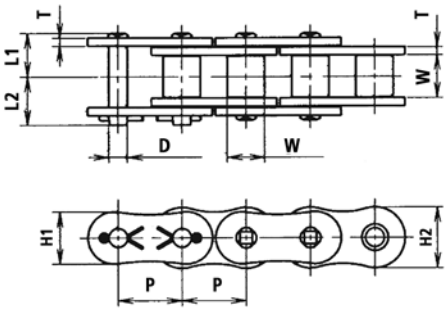


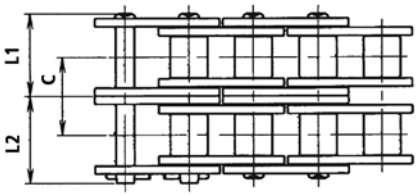


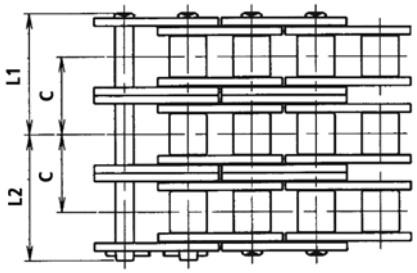


- **SH Series Roller Chains** have a greater ultimate tensile strength and shock load resistance
- Chains specifications include hardened pins, square (quad) riveting and link plates feature thickness of the next size chain
- SH chains are suitable for heavy duty transmission at low speeds up to 160 ft / minute.

CONNEXUS ANSI #	Pitch	Roller Width	Roller Dia	Link Plates			Pin			Transverse Pitch	Max Allow Load	Avg Ult Strength	Approx Weight
				Height		Thickness	Dia	Lengths					
	P	W	R	H1	H2	T	D	L1	L2	C	Lbs/Ft	Lbs/Ft	Lbs/Ft
80SH	1.00	0.63	0.625	0.819	0.949	0.157	0.313	0.699	0.821		3,980	22,050	2.11
80SH-2								1.341	1.463	1.283	6,750	44,060	4.20
80SH-3								1.982	2.104		9,900	66,090	6.28
100-SH	1.25	0.75	0.750	1.024	1.185	0.189	0.376	0.839	0.969		5,750	32,600	3.10
100SH-2								1.608	1.738	1.539	9,730	65,200	6.17
100SH-3								2.378	2.508		14,300	97,800	9.23
120SH	1.50	0.88	0.875	1.228	1.425	0.220	0.437	1.039	1.177		7,500	44,060	4.47
120SH-2								2.002	2.140	1.925	12,750	88,100	8.90
120SH-3								2.965	3.102		18,750	132,200	13.32
140SH	1.75	1.00	1.000	1.433	1.661	0.252	0.500	1.106	1.299		9,700	57,300	5.69
140SH-2								2.134	2.327	2.055	16,500	115,000	11.32
140SH-3								3.161	3.354		24,300	172,000	16.95
160SH	2.00	1.25	1.125	1.638	1.898	0.280	0.563	1.303	1.500		12,300	72,900	7.40
160SH-2								2.522	2.719	2.437	21,000	145,500	14.73
160SH-3								3.740	3.937		30,800	218,300	22.06
200SH	2.50	1.50	1.562	2.047	2.374	0.374	0.781	1.663	1.943		17,850	130,200	11.90
200SH-2								3.205	3.484	3.083	30,400	260,100	25.33
200SH-3								4.746	5.026		44,800	390,300	37.92





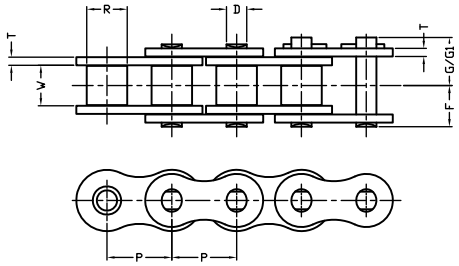


- The dimensions of **EX Series Chains** are identical to those of ANSI Standard Roller Chains
- Using special enlarged link plates and hardened quad staked pins enhancing the fatigue strength and shock load resistance of EX Chains. In addition, the ball drifting of the chains creates cylindrical holes
- EX Chains are suitable for transmission at a medium speed up to 490 ft/ minute

CONNEXUS ANSI #	Pitch	Roller Width	Roller Dia	Link Plates			Pin			Transverse Pitch	Maximum Allowable Load	Avg Ult Strength Lbs/Ft	Approx Weight Lbs/Ft
				Height		Thickness	Dia	Lengths					
	P	W	R	H1	H2	T	D	L1	L2	C			
80EX	1.00	0.625	0.625	0.819	0.949	0.126	0.313	0.640	0.762		4,400	19,850	1.88
80EX-2								1.217	1.339	1.154	7,500	39,800	3.69
80EX-3								1.793	1.915		11,000	52,800	5.57
100EX	1.25	0.750	0.750	1.024	1.185	0.157	0.376	0.776	0.906		6,400	28,500	2.82
100EX-2								1.480	1.610	1.409	10,700	57,300	5.61
100EX-3								2.185	2.315		16,000	85,800	8.38
120EX	1.50	0.875	0.875	1.228	1.425	0.189	0.437	0.972	1.118		9,300	41,800	4.16
120EX-2								1.866	2.004	1.787	15,700	83,800	8.27
120EX-3								2.760	2.898		23,100	125,700	12.37
140EX	1.75	1.000	1.000	1.433	1.661	0.220	0.500	1.041	1.234		11,700	55,000	5.35
140EX-2								2.004	2.197	1.925	19,800	110,200	10.65
140EX-3								2.967	3.159		29,200	165,200	15.94
160EX	2.00	1.250	1.125	1.638	1.898	0.252	0.563	1.238	1.435		15,200	70,500	7.11
160EX-2								2.390	2.587	2.303	25,900	141,200	14.15
160EX-3								3.541	3.738		38,000	211,500	21.19
200EX	2.50	1.500	1.562	2.047	2.374	0.280	0.781	1.531	1.811		21,800	113,500	11.71
200EX-2								2.941	3.220	2.819	37,100	227,100	23.27
200EX-3								4.350	4.630		54,600	340,600	34.83
240EX	3.00	1.875	1.875	2.457	02.850	.374	0.937	1.858	2.157		29,600	163,200	17.06
240EX-2								3.587	3.886	3.457	50,600	326,200	33.91
240EX-3								5.315	5.614		74,400	489,400	50.76

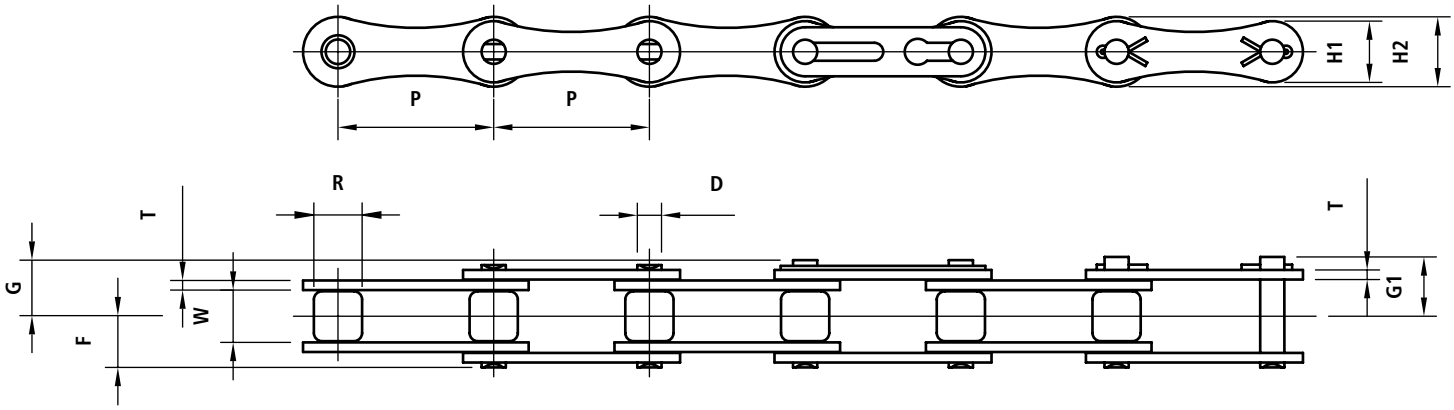
DURALink

PLATINUM SERIES ROLLER CHAIN



- **Wide waist designed side plates for greater fatigue resistance**
- **Manufactured with Solid Bushings, Solid Rollers and Through Hardened Pins**
- **Greater maximum allowable load than standard roller chain**
- **For applications that have high speed and high shock loads**

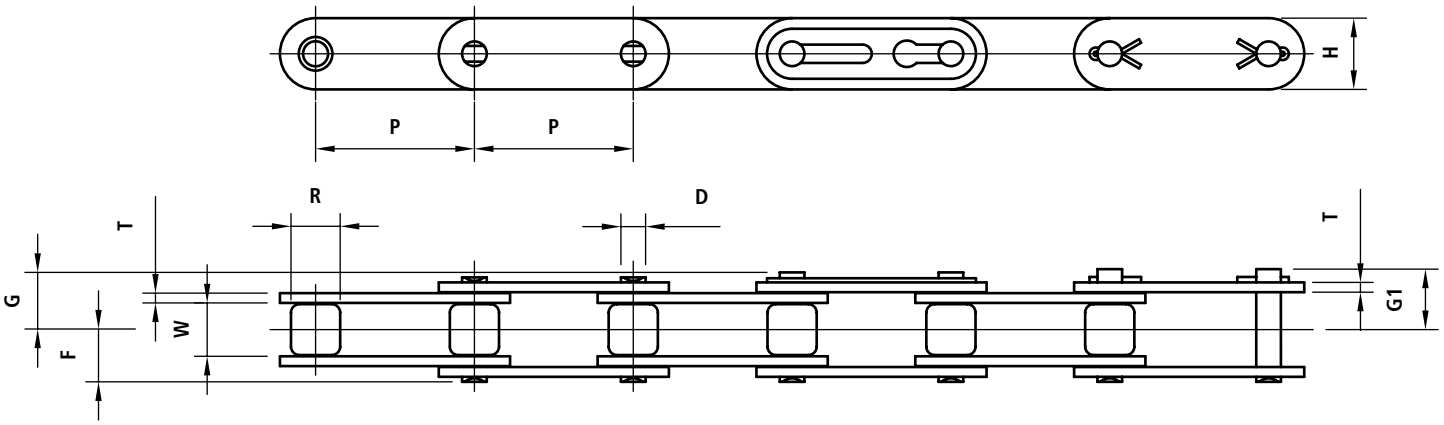
CONNEXUS ANSI #	Pitch	Roller Width	Roller Dia	Link Plates			Pin				Transverse PITCH	Avg Ult Strength	Approx Weight
				Height		Thickness	Dia		Lengths				
	P	W	R	H1	H2	T	D	F	G	G1	C	Lbs/Ft	Lbs/Ft
60	0.750	0.500	0.469	0.610	0.689	0.094	0.234	0.492	0.557	0.606		10,648	0.967
60-2								0.945	1.004	1.059	0.898	21,296	2.035
80	1.000	0.625	0.625	0.803	0.941	0.122	0.313	0.634	0.699	0.740		18,876	1.612
80-2								1.205	1.268	1.323	1.154	37,620	3.533
100	1.250	0.750	0.750	0.976	1.185	0.154	0.375	0.791		0.909		28,607	2.512
100-2								1.496		1.614	1.409	57,216	5.038
120	1.500	1.000	0.875	1.181	1.378	0.185	0.437	0.992		1.126		37,510	4.150
120-2								1.886		2.020	1.787	75,020	8.230
140	1.750	1.000	1.000	1.425	1.654	0.220	0.500	1.075				52,030	5.032
140-2								2.037			1.925	104,060	9.962
160	2.000	1.250	1.125	1.630	1.890	0.252	0.562	1.281		1.467		66,500	6.770
160-2								2.430		2.618	2.303	133,100	13.430
160-3								3.585		3.770	2.303	199,650	20.130
180	2.250	1.406	1.406	1.842	2.134	0.280	0.687	1.402		1.642		89,771	9.220
180-2								2.697		2.937	2.591	179,520	18.326
180-3								3.992		4.232	2.591	269,280	27.426
200	2.500	1.562	1.562	2.047	2.374	0.315	0.781	1.531		1.811		116,490	11.312
200-2								2.941		3.22	2.819	232,650	22.470
200-3								4.35		4.63	2.819	349,140	33.622
240	3.000	1.875	1.875	2.457	2.850	0.374	0.937	1.858		2.157		167,420	16.509
240-2								3.587		3.886	3.457	334,620	32.817
240-3								5.315		5.614	3.457	502,040	49.125



- **RS Double Pitch**, an economical conveyor chain, feature figure 8 side plates
- These chains are used in slow speed, low load, and/or where the center distance is long

CONNEXUS ANSI #	Pitch	Roller Width	Roller Dia	Link Plates			Pin				Avg Ult Strength	Approx Weight
				Height		Thickness	Dia	Lengths				
	P	W	R	H1	H2	T	D	F	G	G1	Lbs/Ft	Lbs/Ft
A2040	1.00	0.313	0.312	0.398	0.460	0.059	0.156	0.323	0.366	0.394	4,070	0.27
A2050	1.25	0.375	0.400	0.496	0.575	0.079	0.199	0.398	0.459	0.496	6,820	0.44
A2060	1.50	0.500	0.469	0.590	0.673	0.094	0.234	0.492	0.557	0.606	9,680	0.66

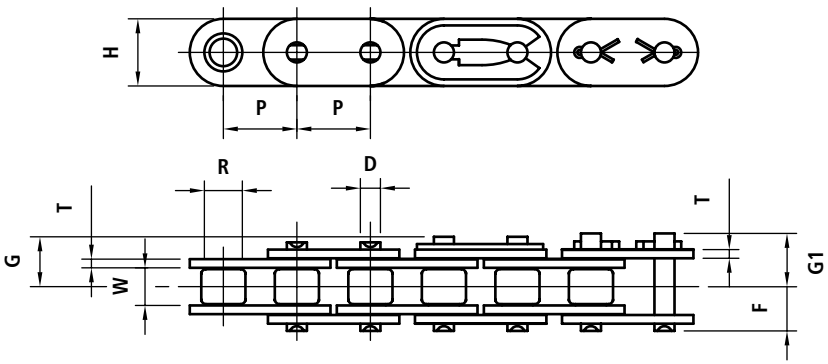
DOUBLE PITCH CONVEYOR CHAIN



- **Double Pitch Roller Chains** feature straight side bar plates and are widely used for light to medium duty conveyors, bucket elevators, and in material handling/processing equipment
- Available in mild steel, nickel plated, stainless steel
- Standard Roller designation is indicated as chain ending with # 0
- Oversize Roller is indicated with # 2
- Heavy Side Plates are featured on C2060(2) chains and higher

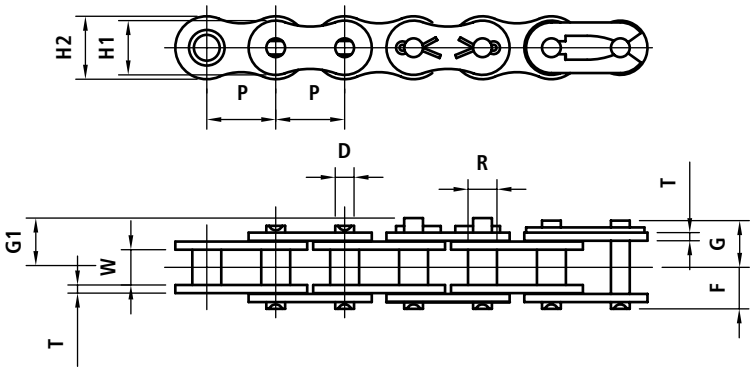
CONNEXUS ANSI #	Pitch	Roller Width	Roller Dia	Link Plates		Pin				Max Allow Load	Avg Ult Strength	Approx Weight
				Height	Thickness	Dia	Lengths					
	P	W	R	H	T	D	F	G	G1	Lbs/Ft	Lbs/Ft	Lbs/Ft
C2040	1.00	0.312	0.312	0.461	0.059	0.156	0.323	0.366	0.394	616	4,077	0.34
C2050	1.25	0.375	0.400	0.575	0.079	0.199	0.398	0.459	0.496	1014	6,832	0.58
C2060H	1.50	0.500	0.469	0.673	0.122	0.234	0.555	0.618	0.654	1410	11,681	1.01
C2080H	2.00	0.625	0.625	0.906	0.154	0.313	0.705	0.764	0.819	2423	20,277	1.58
C2100H	2.50	0.750	0.750	1.138	0.185	0.375	0.854		0.980	3855	29,754	2.37
C2120H	3.00	1.000	0.875	1.378	0.220	0.437	1.062		1.204	5398	34,150	3.45
C2160H	4.00	1.250	1.130	1.890	0.283	0.563	1.344		1.530	9253	57,280	5.92
C2042	1.00	0.312	0.625	0.461	0.059	0.156	0.323	0.366	0.394	616	4,077	0.58
C2052	1.25	0.375	0.750	0.575	0.079	0.199	0.398	0.459	0.496	1014	6,832	0.91
C2062H	1.50	0.500	0.875	0.673	0.122	0.234	0.555	0.618	0.654	1410	11,681	1.47
C2082H	2.00	0.625	1.125	0.906	0.154	0.313	0.705	0.764	0.819	2423	20,277	2.29
C2102H	2.50	0.750	1.562	1.138	0.185	0.375	0.854		0.980	3855	29,754	3.82
C2122H	3.00	1.000	1.750	1.378	0.220	0.437	1.062		1.204	5398	34,150	5.44
C2162H	4.00	1.250	2.250	1.890	0.283	0.563	1.344		1.530	9253	57,280	9.03

- **Straight Sidebar Roller Chains**



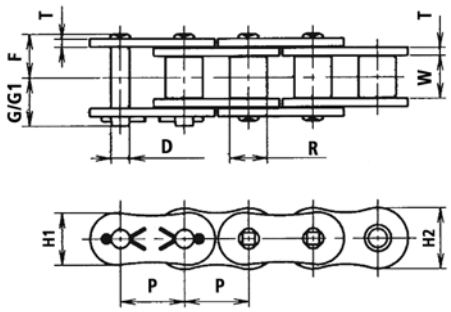
CONNEXUS ANSI #	Pitch	Roller Width	Roller Dia	Link Plates		Pin				Avg Ult Strength	Approx Weight
				Height	Thickness	Dia	Lengths				
	P	W	R	H	T	D	F	G	G1	Lbs/Ft	Lbs/Ft
40-F	0.500	0.313	0.312	0.472	0.059	0.156	0.323	0.368	0.394	4,100	0.44
50-F	0.625	0.375	0.400	0.591	0.079	0.199	0.398	0.459	0.496	6,800	0.69
60-F	0.750	0.500	0.469	0.713	0.094	0.234	0.492	0.557	0.606	9,700	0.98
80-F	1.000	0.625	0.625	0.945	0.122	0.313	0.634	0.699	0.740	17,160	1.64
100-F	1.250	0.750	0.750	1.138	0.154	0.375	0.791	0.864	0.909	28,600	2.88
120-F	1.500	1.000	0.875	1.425	0.189	0.437	0.972	1.110	1.126	34,200	4.01

- **Rollerless Chains**, having the same tensile strength and working loads as ANSI standard chains, are used in lift or hoist applications
- They require special sprockets and off-set links are not recommended in these applications



CONNEXUS ANSI #	Pitch	Roller Width	Bushing Dia	Link Plates			Pin				Avg Ult Strength	Approx Weight
				Height		Thickness	Dia	Lengths				
	P	W	R	H1	H2	T	D	F	G	G1	Lbs/Ft	Lbs/Ft
55	0.625	0.375	0.276	0.512	0.583	0.079	0.199	0.398	0.459	0.496	6,820	0.56
65	0.750	0.500	0.319	0.610	0.689	0.094	0.234	0.492	0.557	0.606	9,680	0.80
85	1.000	0.625	0.445	0.803	0.941	0.122	0.313	0.634	0.699	0.740	17,160	1.48
105	1.250	0.750	0.530	0.976	1.185	0.154	0.375	0.791	0.864	0.909	25,960	2.21
125	1.500	1.000	0.624	1.181	1.378	0.185	0.437	0.972	1.110	1.126	34,100	3.23

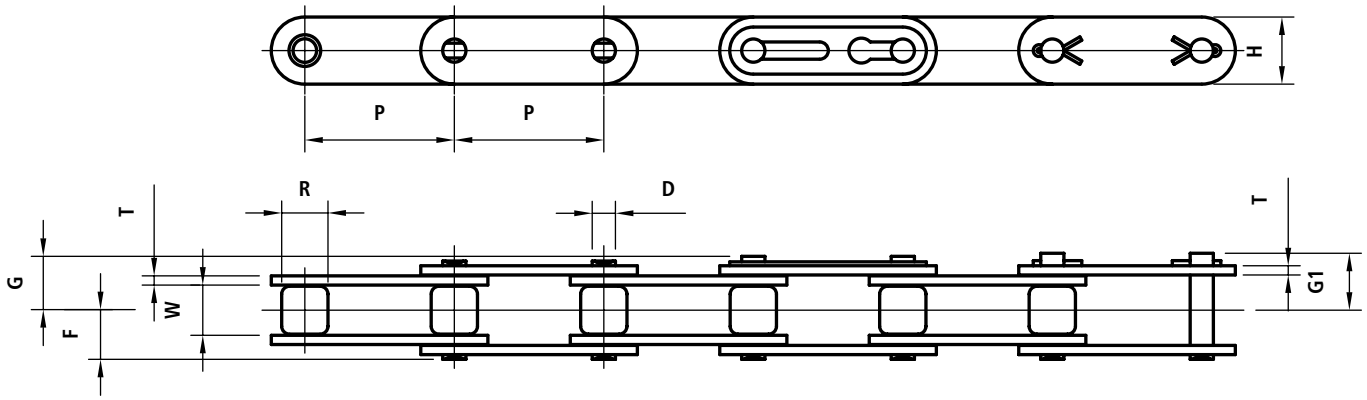
NICKEL PLATED STANDARD CHAIN



- **Nickel Plated Chains** are resistant to corrosion and are suitable for outdoor operations or in a mildly corrosive atmosphere
- Not acceptable in FDA requirements
- All parts are treated to nickel plating process prior to assembly for consistency
- Also available from factory are zinc plated chains used in ice house applications
- Additional Multiple Strand Chains (-2 thru -4) are available from our factories or for special stocking arrangements

Consult your Connexus Service Center for special handling

CONNEXUS ANSI #	Pitch	Roller Width	Roller Dia	Link Plates			Pin				Avg Ult Strength	Approx Weight
				Height		Thickness	Dia	Lengths				
	P	W	R	H1	H2	T	D	F	G	G1	Lbs/Ft	Lbs/Ft
25 NP	0.250	0.125	0.130	0.197	0.228	0.030	0.091	0.150	0.189		990	0.09
35 NP	0.375	0.188	0.200	0.299	0.354	0.047	0.141	0.228	0.276	0.299	2,310	0.22
41 NP	0.500	0.250	0.306	0.335	0.382	0.047	0.141	0.260	0.313	0.335	2,640	0.28
40 NP	0.500	0.312	0.312	0.402	0.465	0.060	0.156	0.323	0.368	0.394	4,070	0.46
50 NP	0.625	0.375	0.400	0.512	0.583	0.079	0.199	0.398	0.459	0.496	6,820	0.68
60 NP	0.750	0.500	0.469	0.610	0.689	0.094	0.234	0.492	0.557	0.606	9,680	0.97
80 NP	1.000	0.625	0.625	0.803	0.941	0.122	0.313	0.634	0.699	0.740	17,160	1.61
100 NP	1.250	0.750	0.750	0.976	1.185	0.154	0.375	0.791	0.864	0.909	25,960	2.51
120 NP	1.500	1.000	0.875	1.181	1.378	0.185	0.437	0.972	1.110	1.126	34,100	4.15
140 NP	1.750	1.000	1.000	1.425	1.654	0.220	0.500	1.075			47,300	5.03
160 NP	2.000	1.250	1.125	1.630	1.890	0.252	0.562	1.281		1.467	60,500	6.77

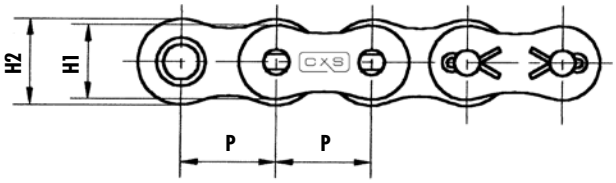


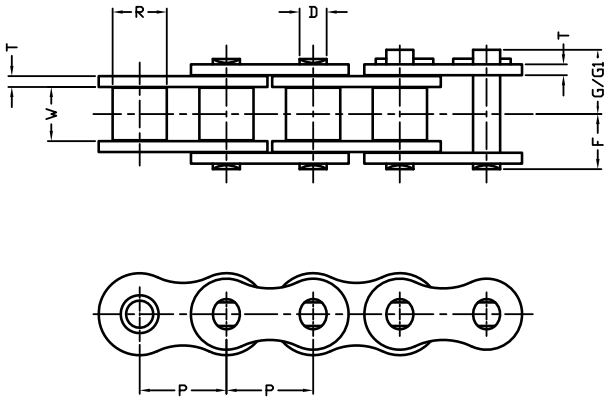
- **Double Pitch Nickel Plated Chains**
- Oversize Roller Nickel Plated chains also available

Consult your Connexus Service Center for special handling

CONNEXUS ANSI #	Pitch	Roller Width	Roller Dia	Link Plates		Pin				Avg Ult Strength	Approx Weight
				Height	Thickness	Dia	Lengths				
	P	W	R	H	T	D	F	G	G1	Lbs/Ft	Lbs/Ft
C2040 NP	1.00	0.312	0.312	0.461	0.059	0.156	0.323	0.366	0.394	4,077	0.34
C2050 NP	1.25	0.375	0.400	0.575	0.079	0.199	0.398	0.459	0.496	6,832	0.58
C2060H-NP	1.50	0.500	0.469	0.673	0.122	0.234	0.555	0.618	0.654	11,681	1.01
C2080H-NP	2.00	0.625	0.625	0.906	0.154	0.313	0.705	0.764	0.819	20,277	1.58
C2100H-NP	2.50	0.750	0.750	1.138	0.185	0.375	0.854		0.980	29,754	2.37
C2120H-NP	3.00	1.000	0.875	1.378	0.220	0.437				34,150	3.45
C2160H-NP	4.00	1.250	1.130	1.890	0.283	0.563				57,280	5.92

STAINLESS STEEL STANDARD CHAIN



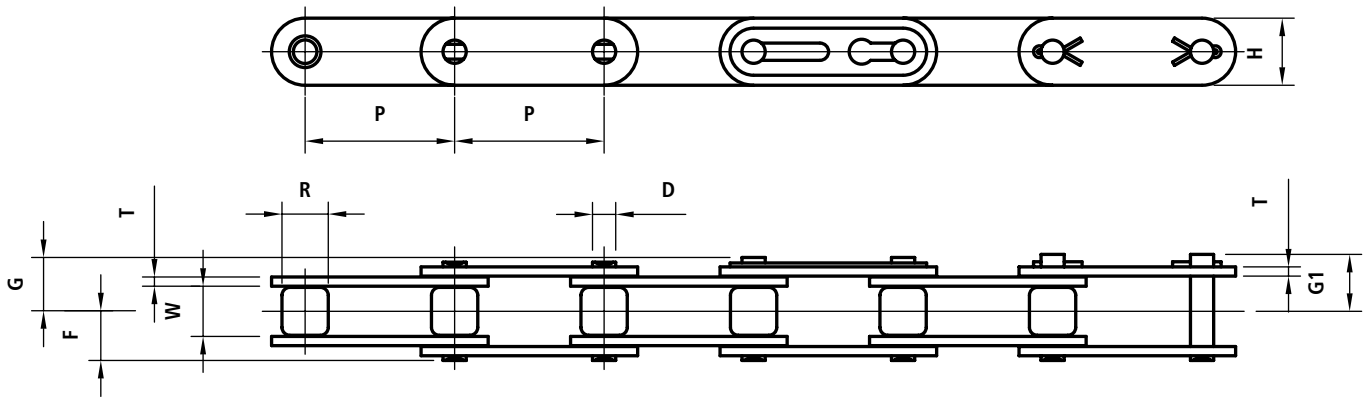


	304SS	316S (NS)
Corrosion Resistance	Good	Superior
Temperature Range	(-40F - +750F)	(-40F - +750F)
Magnetism	Slight	No
Speed	230'/min	230'/min
Max Allowable Bearing Pressure	1420 psi	1420 psi

- **Stainless Steel Chains** are manufactured from AISI type 304SS steel
- These chains are ideal for acidic or alkaline environments or chains are exposed to water
- Chains feature excellent resistance to corrosion and extreme temperature ranges (Temperature Range : -40 F ~ +750 F)
- Also available from factory are 316SS (NS) for non magnetic and/or superior wear resistance is a requirement

** Rollerless Chains*

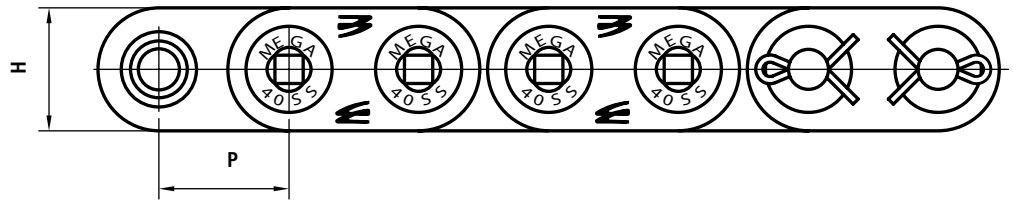
Connexus ANSI #	Pitch	Roller Width	Roller Dia	Link Plates			Pin				Max Allow Load	Approx Weight
				Height		Thickness	Dia	Lengths				
	P	W	R	H1	H2	T	D	F	G	G1	Lbs/Ft	Lbs/Ft
25-SS *	0.250	0.125	0.130	0.197	0.228	0.030	0.091	0.150	0.189	-	26	0.09
35-SS *	0.375	0.188	0.200	0.299	0.354	0.047	0.141	0.228	0.276	0.299	60	0.22
40-SS	0.500	0.313	0.312	0.402	0.465	0.059	0.156	0.325	0.366	0.394	100	0.42
50-SS	0.625	0.375	0.400	0.512	0.583	0.079	0.199	0.398	0.459	0.496	154	0.68
60-SS	0.750	0.500	0.469	0.610	0.689	0.094	0.234	0.492	0.557	0.606	230	0.98
80-SS	1.000	0.625	0.625	0.803	0.941	0.122	0.313	0.634	0.699	0.740	396	1.69
100-SS	1.250	0.750	0.750	0.976	1.185	0.154	0.375	0.791		0.909	572	2.51
120-SS	1.500	1.000	0.875	1.181	1.378	0.185	0.437	0.992		1.126	858	4.08

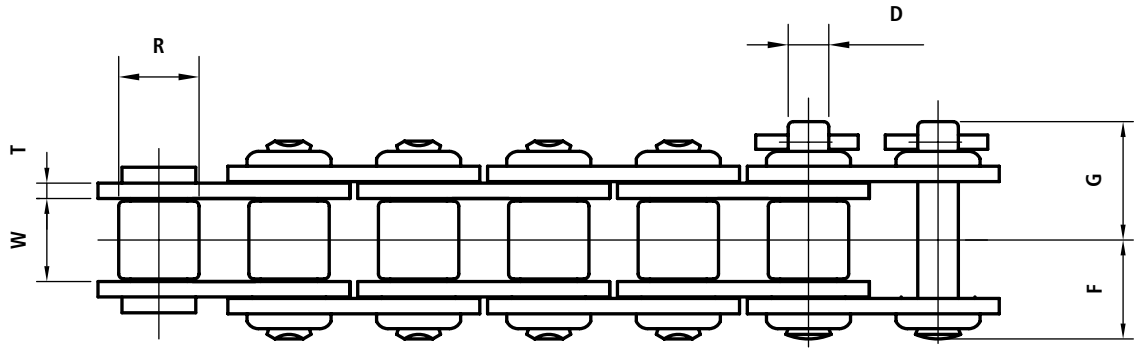


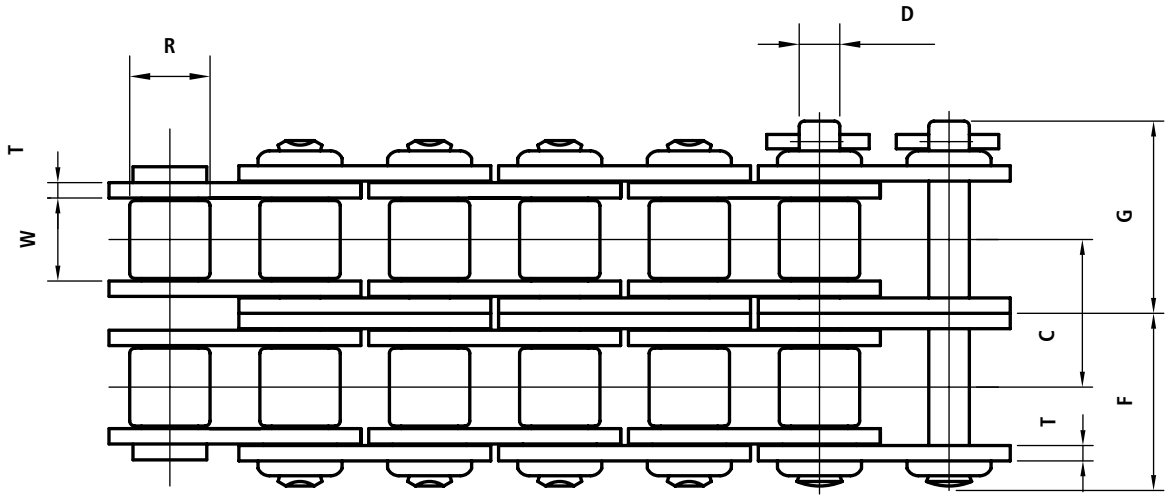
	304SS	316S (NS)
Corrosion Resistance	Good	Superior
Temperature Range	(-40F - +750F)	(-40F - +750F)
Magnetism	Slight	No
Speed	230'/min	230'/min
Max Allowable Bearing Pressure	1420 psi	1420 psi

CONNEXUS ANSI #	Pitch	Roller Width	Roller Dia	Link Plates		Pin				Avg Ult Strength	Approx Weight
				Height	Thickness	Dia	Lengths				
	P	W	R	H	T	D	F	G	G1	Lbs/Ft	Lbs/Ft
C2040 SS	1.00	0.312	0.312	0.461	0.059	0.156	0.323	0.366	0.394	4,077	0.34
C2050 SS	1.25	0.375	0.400	0.575	0.079	0.199	0.398	0.459	0.496	6,832	0.58
C2060H-SS	1.50	0.500	0.469	0.673	0.122	0.234	0.555	0.618	0.654	11,681	1.01
C2080H-SS	2.00	0.625	0.625	0.906	0.154	0.313	0.705	0.764	0.819	20,277	1.58
C2100H-SS	2.50	0.750	0.750	1.138	0.185	0.375	0.854		0.980	29,754	2.37
C2120H-SS	3.00	1.000	0.875	1.378	0.220	0.437				34,150	3.45
C2160H-SS	4.00	1.250	1.130	1.890	0.283	0.563				57,280	5.92

MEGA SS STANDARD CHAIN

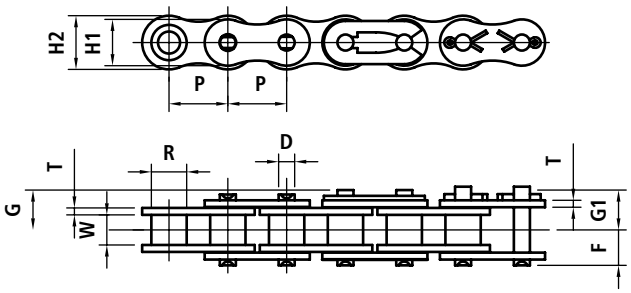






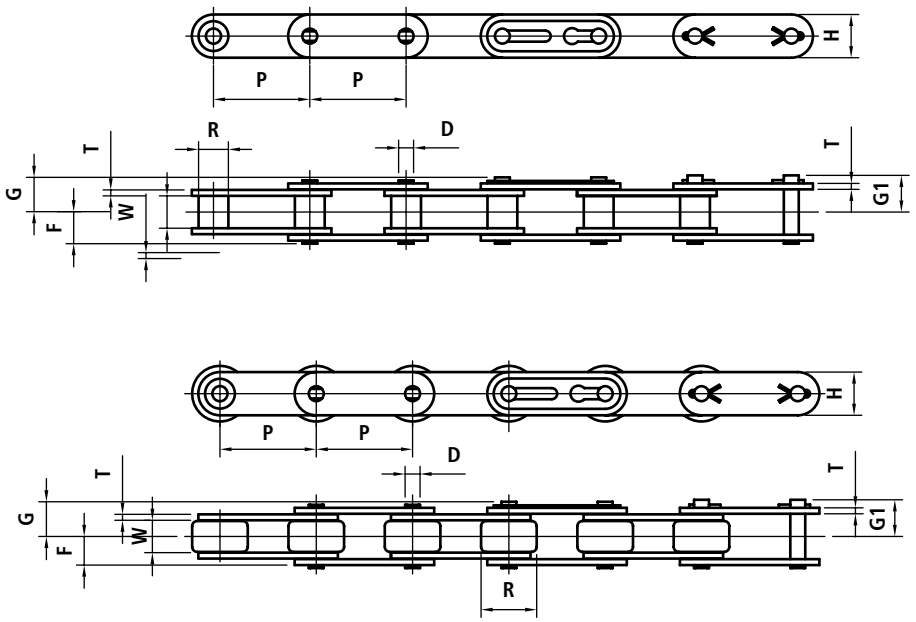
- Standard Roller Chain Sprockets can be used
- Material: AISI 304 (SS)

CONNEXUS MEGA Chain #	Pitch	Roller Width	Roller Dia	Link Plates		Pin			Transverse Pitch	Max Allow Load	Avg Tensile Strength
				Height	Thickness	Dia	Lengths				
	P	W	R	H	T	D	F	G	C	Lbs/Ft	Lbs/Ft
40 SS	0.500	0.313	0.312	0.472	0.059	0.156	0.380	0.455		154	3,960
40-2 SS							0.663	0.738	0.567	242	6,600
50 SS	0.625	0.375	0.400	0.591	0.079	0.199	0.478	0.561		264	7,040
50-2 SS						0.835	0.917	0.713	.418	10,560	
60 SS	0.750	0.500	0.469	0.713	0.093	0.234	0.596	0.687		363	9,680
60-2 SS							1.045	1.136	0.898	616	14,960
80 SS	1.000	0.625	0.625	0.945	0.118	0.313	0.760	0.870		638	15,840
80-2 SS							1.343	1.447	1.154	1078	23,760



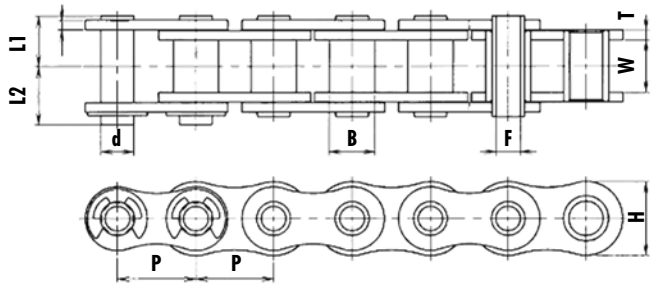
Connexus ANSI #	Pitch	Roller Width	Roller Dia	Link Plates			Pin				Avg Ult Strength	Approx Weight
				Height		Thickness	Dia	Lengths				
	P	W	R	H1	H2	T	D	F	G	G1	Lbs/Ft	Lbs/Ft
40-SL	0.500	0.313	0.312	0.402	0.465	0.059	0.156	0.325	0.366	0.394	2,860	0.39
50-SL	0.625	0.375	0.400	0.512	0.583	0.079	0.199	0.398	0.459	0.496	4,400	0.65
60-SL	0.750	0.500	0.469	0.610	0.689	0.094	0.234	0.492	0.557	0.606	6,710	0.95
80-SL	1.000	0.625	0.625	0.803	0.941	0.122	0.313	0.634		0.740	12,760	1.61

- **Lube Free Chains** feature a lubrication impregnated oversized sintered bushing for maintenance free applications
- These chains operate on standard sprockets and are dimensionally interchangeable with ANSI standard roller chains



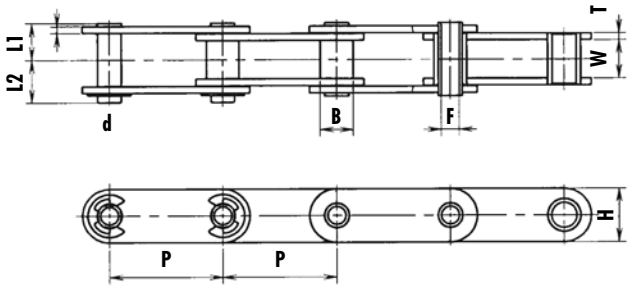
CONNEXUS ANSI #	Pitch	Roller Width	Roller Dia	Link Plates			Pin				Avg Ult Strength	Approx Weight
				Height		Thickness	Dia	Lengths				
	P	W	R	H1	H2	T	D	F	G	G1	Lbs/Ft	Lbs/Ft
C2040-SL	1.000	0.313	0.312	0.460		0.059	0.156	0.325	0.366	0.394	2,860	0.33
C2050-SL	1.250	0.375	0.400	0.575		0.079	0.199	0.398	0.459	0.496	4,400	0.54
C2060-SL	1.500	0.500	0.469	0.673		0.094	0.234	0.492	0.557	0.606	6,710	0.79
C2080-SL	2.000	0.625	0.625	0.906		0.122	0.313	0.634		0.740	12,760	1.34
C2042-SL	1.000	0.313	0.625	0.460		0.059	0.156	0.325	0.366	0.394	2,860	0.52
C2052-SL	1.250	0.375	0.750	0.575		0.079	0.199	0.398	0.459	0.496	4,400	0.81
C2062-SL	1.500	0.500	0.875	0.673		0.094	0.234	0.492	0.557	0.606	6,710	1.18
C2082-SL	2.000	0.625	1.125	0.906		0.122	0.313	0.634		0.740	12,760	2.04

HOLLOW PIN CHAIN

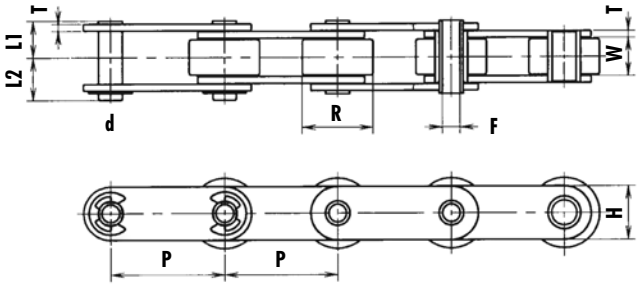


CONNEXUS Chain #	Pitch	Width Btwn Plates	Bushing Dia	Link Plates Height	Link Plates Thickness	Dia	Bore Dia	Pin Lengths		Max Allow Load	Avg Tensile Strength	Approx Weight
	P	W	B	H	T	d	F	L1	L2	Lbs/Ft	Lbs/Ft	Lbs/Ft
40-HP	0.500	0.313	0.312	0.472	0.059	0.222	0.157	0.315	0.374	400	2,500	0.34
50-HP	0.625	0.376	0.400	0.591	0.079	0.284	0.202	0.400	0.451	700	4,400	0.56
60-HP	0.750	0.500	0.469	0.709	0.094	0.327	0.236	0.500	0.563	950	6,050	0.82
80-HP	1.000	0.625	0.625	0.949	0.126	0.444	0.316	0.640	0.701	1700	11,000	1.45

C2000 TYPE (C2040HP - C2080HP)



C2002 TYPE (C2042HP - C2082HP)

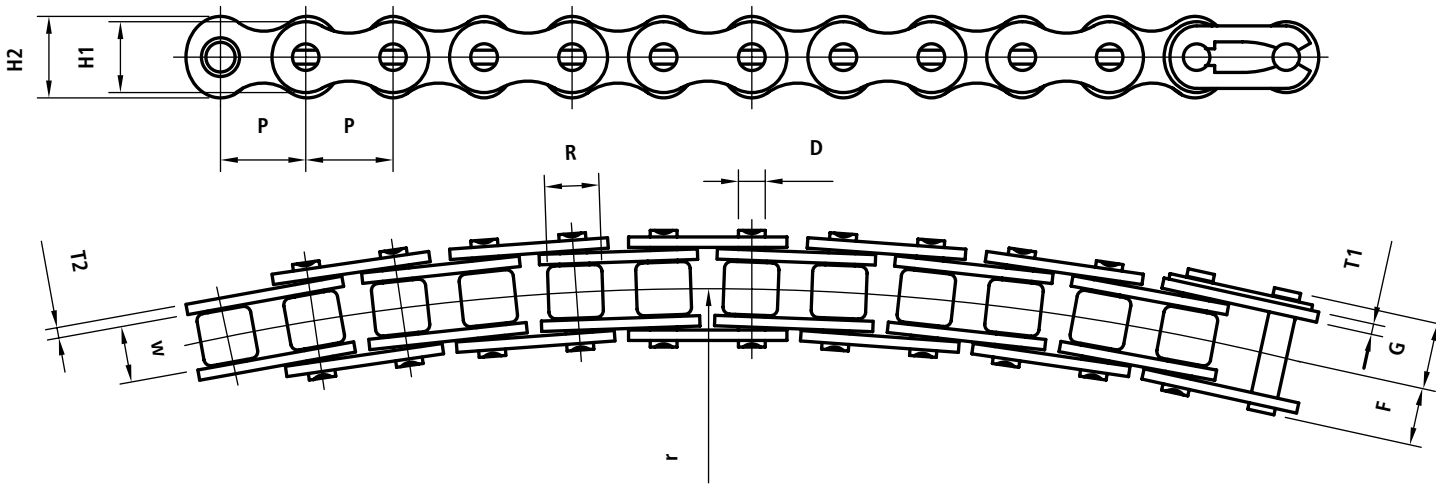


- **Hollow Pin Chains** are a versatile choice for insertion of attachments or cross-rods into any link of chains

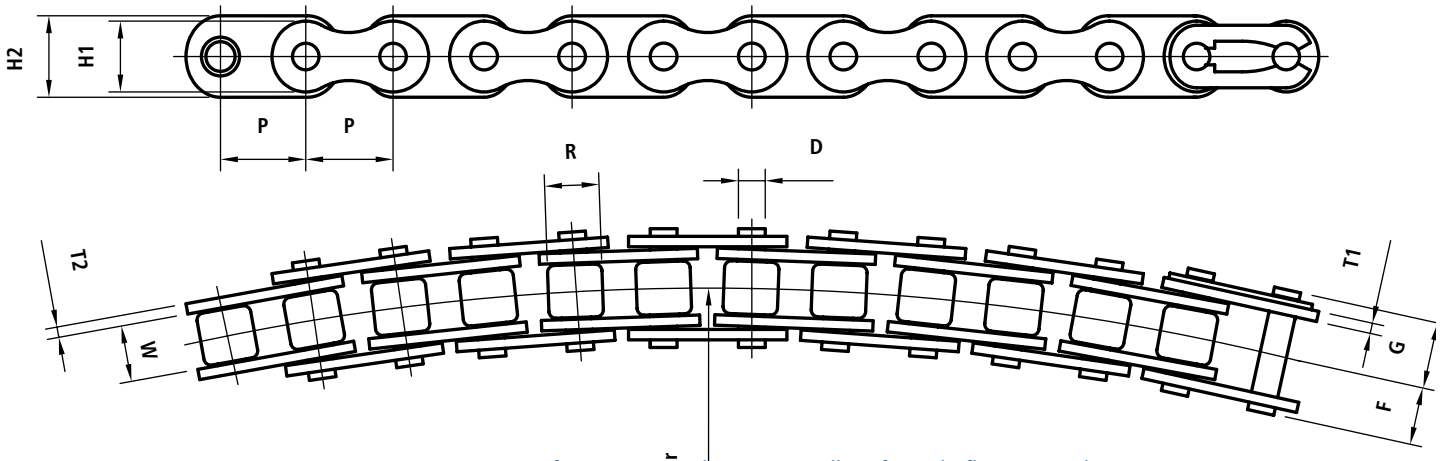
- Hollow Pin Chains are rollerless design (except for C2002 type) and are available in carbon steel, nickel plated and stainless steel

CONNEXUS Chain #	Pitch	Width Btwn Plates	Bushing Dia	Link Plates Height	Link Plates Thickness	Dia	Bore Dia	Pin Lengths		Max Allow Load	Avg Tensile Strength	Approx Weight
	P	W	B	H	T	d	F	L1	L2	Lbs/Ft	Lbs/Ft	Lbs/Ft
C2040-HP	1.000	0.313	0.312	0.472	0.059	0.222	0.157	0.315	0.374	400	2,500	0.30
C2050-HP	1.250	0.376	0.400	0.591	0.079	0.284	0.202	0.400	0.451	700	4,400	0.50
C2060-HP	1.500	0.500	0.469	0.709	0.094	0.327	0.236	0.500	0.563	950	6,050	0.68
C2080-HP	2.000	0.625	0.625	0.949	0.126	0.444	0.316	0.640	0.701	1700	11,000	1.25

CONNEXUS Chain #	Pitch	Width Btwn Plates	Roller Dia	Link Plates Height	Link Plates Thickness	Dia	Bore Dia	Pin Lengths		Max Allow Load	Avg Tensile Strength	Approx Weight
	P	W	R	H	T	d	F	L1	L2	Lbs/Ft	Lbs/Ft	Lbs/Ft
C2042-HP	1.000	0.313	0.625	0.472	0.059	0.222	0.157	0.315	0.374	400	2,500	0.53
C2052-HP	1.250	0.376	0.750	0.591	0.079	0.284	0.202	0.400	0.451	700	4,400	0.80
C2062-HP	1.500	0.500	0.875	0.709	0.094	0.327	0.236	0.500	0.563	950	6,050	1.15
C2082-HP	2.000	0.625	1.125	0.949	0.126	0.444	0.316	0.640	0.701	1700	11000	2.23



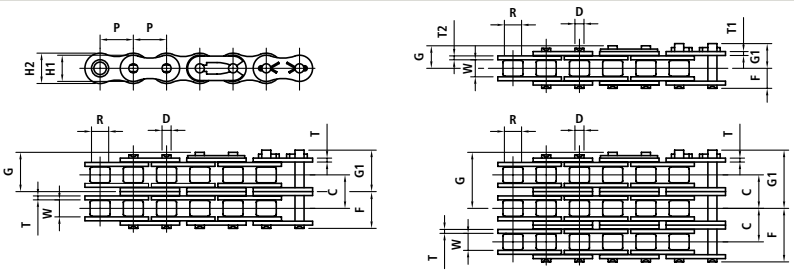
63SB



- **SIDEBOW CHAINS** feature extra clearances, allow for side flexing applications
- They have the same basic dimensions as standard roller chains
- Side flex is achieved using a tapered pin construction
- Also available in nickel plated and stainless steel
- 20" radius is available on 63SB, 603SB, and 60SB; standard radius on these sizes is 16"

CONNEXUS Chain #	Pitch	Width Btwn Plates	Roller Dia	Plate				Pin			Min Radius Curve-Inches	Avg Tensile Strength	Approx Weight
				Height		Thickness		Dia	Length				
	P	W	R	H1	H2	T1	T2	D	F	G	r	Lbs/Ft	Lbs/Ft
35-SB	0.375	0.188	0.200	0.299	0.354	0.047	0.047	0.129	0.228	0.276	10	1,980	0.21
40-SB	0.500	0.313	0.313	0.402	0.472	0.059	0.059	0.152	0.319	0.358	14	3,520	0.40
50-SB	0.625	0.375	0.400	0.417	0.583	0.079	0.079	0.175	0.411	0.469	16	4,840	0.66
63-SB	0.750	0.500	0.469	0.469	0.713	0.079	0.093	0.199	0.566	0.566	16	5,940	0.93
603-SB	0.750	0.500	0.469	0.610	0.713	0.093	0.093	0.199	0.507	0.570	16	5,940	0.98
60-SB	0.750	0.500	0.469	0.469	0.713	0.093	0.093	0.199	0.507	0.570	16	5,940	0.94

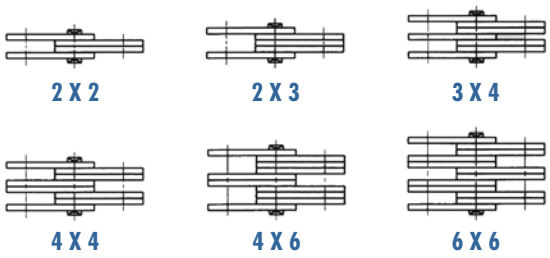
BRITISH STANDARD CHAIN



- **British Standard Chains** are slightly different in dimensions to standard roller chains and are also called metric chains.
- These chains are often seen in equipment manufactured in Europe or specified on machinery manufactured for European marketplace.

CONNEXUS Chain #	Pitch	Width Btwn Plates	Roller Dia	Link Plates			Pin				Transverse Pitch	Avg Tensile Strength	Approx Weight
				Height		Thick-ness	Dia	Length					
	P	W	R	H1	H2		D	F	G	G1		Lbs/Ft	Lbs/Ft
05B	0.315	0.118	0.197	0.276	0.276	0.030	0.091	0.152	0.189			1166	0.11
05B-2								0.262	0.301		0.222	2112	0.20
06B	0.375	0.225	0.250	0.319	0.319	0.039	0.129	0.240	0.291			2310	0.26
06B-2								0.441	0.484		0.403	4180	0.50
06B-3								0.642	0.685	0.701	0.403	5940	0.73
08B	0.500	0.305	0.335	0.402	0.465	0.059	0.173	0.323	0.374	0.374		4246	0.44
08B-2								0.602	0.657		0.548	7920	0.87
08B-3								0.874	0.925		0.548	11880	1.29
10B	0.625	0.380	0.400	0.512	0.575	0.065	0.199	0.378	0.437			5940	0.62
10B-2								0.705	0.764		0.653	11440	1.13
10B-3								1.031	1.083	1.110	0.653	17270	1.76
12B	0.750	0.460	0.475	0.630	0.630	0.071	0.225	0.437	0.496			7480	0.83
12B-2								0.819	0.882		0.766	14960	1.53
12B-3								1.205	1.256	1.280	0.766	22440	2.38
16B	1.000	0.670	0.625	0.819	0.819	0.157	0.326	0.697	0.758	0.795		17600	1.78
16B-2								1.324	1.384	1.424	1.255	35200	3.52
16B-3								1.952	2.013	2.052	1.255	52800	5.27
20B	1.250	0.770	0.750	1.024	1.024	0.173	0.401	0.807		0.925		26400	2.58
20B-2								1.525		1.643	1.435	52,800	5.13
20B-3								2.242		2.360	1.435	79,200	7.68
24B	1.500	1.000	1.000	1.299	1.299	0.236	0.576	1.049		1.274		39600	5.10
24B-2								2.001		2.226	1.904	77000	9.92
24B-3								2.953		3.178	1.904	115500	14.68
28B	1.750	1.220	1.100	1.457	1.457	0.291	0.626	1.279		1.495		46200	6.07
28B-2								2.451		2.667	2.345	90200	11.48
28B-3								3.624		3.840	2.345	132000	17.17
32B	2.000	1.220	1.150	1.654	1.654	0.279	0.701	1.287		1.503		58300	7.13
32B-2								2.439		2.656	2.305	111100	13.98
32B-3								3.592		3.808	2.305	167200	21.17
40B	2.500	1.500	1.550	2.083	2.083	0.315	0.901	1.583		1.862		87120	10.90
40B-2								3.006		3.285	2.846	167200	21.36
40B-3								4.429		4.709	2.846	246400	32.28
48B	3.000	1.800	1.900	2.500	2.500	0.390	1.151	1.945		2.224		136840	16.80
48B-2								3.740		4.020	3.591	259600	33.41
48B-3								5.535		5.815	3.591	389400	50.34

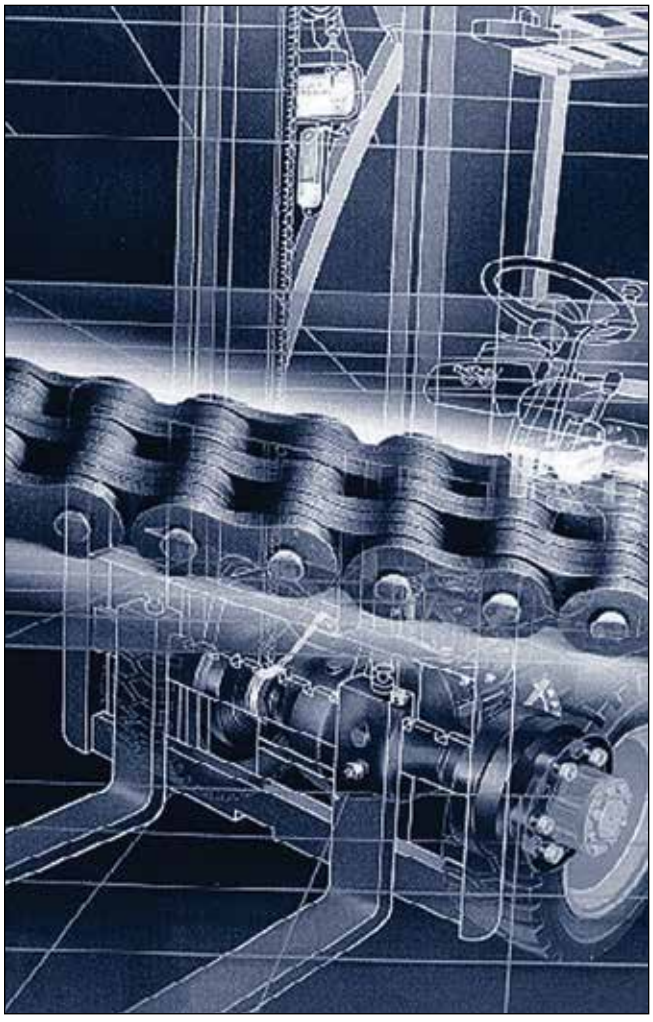
LACING COMBINATIONS



- Leaf Chains consist of interlacing plates and riveted pins. Typical lacing patterns are shown above

- Chains are usually supplied in strands and be supplied ending with inside ends (male ends) or outside ends (female ends). Strands ordered with even pitches will be supplied with one ending in inside links and one end with male ends

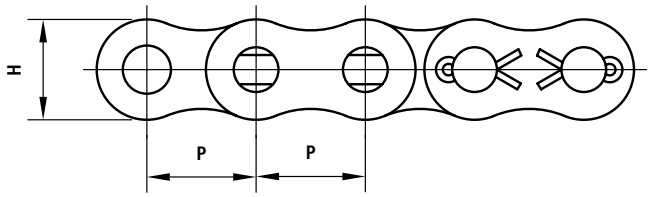
- The type of cleavis on machinery will determine the configuration of ends is required. When "female ends" are required, the clevis manufacturer should supply the connecting pins. When "male ends" are ordered, drive fit connecting pins, either riveted or cottered style, are recommended ordered at the same time

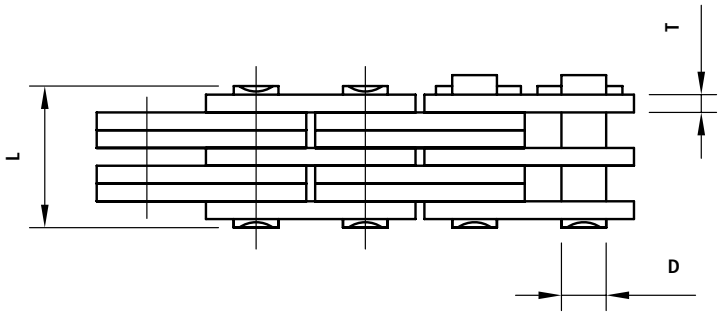


GENERAL PRECAUTIONS

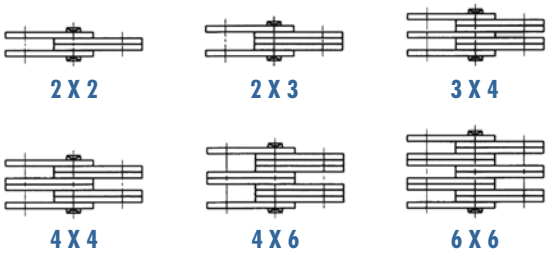
- Use factory supplied lengths - do not assemble chains from individual components
- Do not replace individual worn parts
- No leaf chain should be plated or painted
- No welding is allowed on any leaf chain or weld splatter allowed to come into contact with chains
- Leaf chains are used on sheaves not sprockets. These sheaves should be inspected on a regular basis for worn flanges
- In order to provide good service life, lubrication must be provided on a regular basis
- Whatever lubrication, SAE 30 is standard. The lubrication must penetrate the chain and reach the joints
- ANSI recommendation on lubrication, checking for wear, and installation guides are available from our service centers

LIGHT DUTY LEAF CHAINS



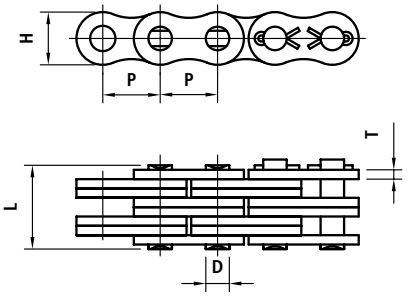


LACING COMBINATIONS



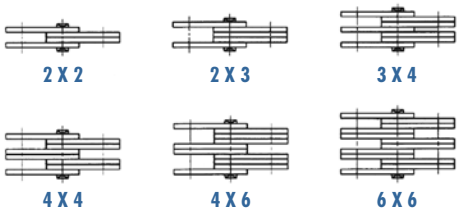
- **AL- Series Leaf Chains** are widely used in light duty applications and where chains receive only static loads
- These chains were removed from B29.8 ANSI STANDARDS
- BL Series Leaf Chains should be considered in any new applications
- See page 23 for special notes on Leaf Chain

CONNEXUS Chain #	Lacing	Pitch	Height	Thickness	Diameter	Length	Avg Ult Strength	Approx Weight
		P	H	T	D	L	Lbs/Ft	Lbs/Ft
AL422	2x2	0.500	0.402	0.059	0.156	0.317	3,960	0.24
AL444	4x4					0.565	7,920	0.46
AL466	6x6					0.815	11,880	0.71
AL522	2x2	0.625	0.512	0.079	0.200	0.417	6,820	0.40
AL544	4x4					0.748	13,640	0.77
AL566	6x6					1.079	20,460	1.14
AL588	8x8					1.409	27,280	1.52
AL622	2x2	0.750	0.610	0.093	0.234	0.488	9,900	0.53
AL644	4x4					0.878	19,800	1.01
AL666	6x6					1.270	27,000	1.55
AL688	8x8					1.661	39,600	2.07
AL822	2x2	1.000	0.803	0.122	0.313	0.616	17,160	0.91
AL844	4x4					1.120	34,320	2.69
AL866	6x6					1.624	51,480	3.60
AL888	8x8					2.128	68,640	4.50
AL1022	2x2	1.250	0.976	0.154	0.375	0.819	26,400	1.59
AL1044	4x4					1.465	52,800	3.11
AL1066	6x6					2.110	79,200	4.64
AL1088	8x8					2.756	105,600	6.28
AL1222	2x2	1.500	1.181	0.185	0.437	0.969	35,200	2.28
AL1244	4x4					1.740	70,400	4.47
AL1266	6x6					2.512	105,600	6.66

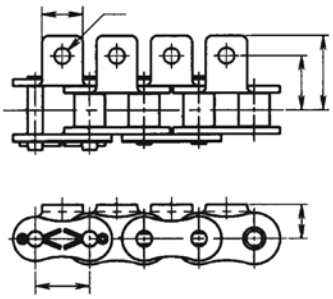


- **BL Series Leaf Chains** conform to ASME B29.8 Standards
- Feature links plates heavier than AL Series Chains of the same pitch.

LACING COMBINATIONS

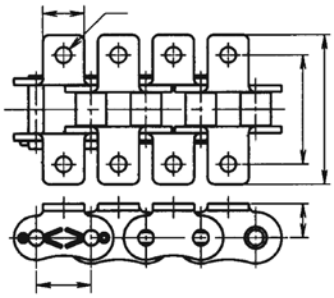


CONNEXUS Chain #	ISO/DIN	Lacing	Pitch	Height	Thickness	Diameter	Length	Avg Ult Strength Lbs/Ft	Approx Weight Lbs/Ft
			P	H	T	D	L		
BL423	LH0823	2 X 3	0.500	0.472	0.079	0.199	0.496	6,600	0.52
BL434	LH0834	3 X 4					0.661	9,900	0.72
BL444	LH0844	4 X 4					0.744	13,200	0.80
BL446	LH0846	4 X 6					0.909	13,200	0.99
BL466	LH0866	6 X 6					1.071	19,800	1.21
BL523	LH1023	2 X 3	0.625	0.585	0.095	0.234	0.598	9,900	0.76
BL534	LH1034	3 X 4					0.791	14,960	1.05
BL544	LH1044	4 X 4					0.892	19,800	1.19
BL546	LH1046	4 X 6					1.083	19,800	1.49
BL566	LH1066	6 X 6					1.280	29,700	1.84
BL623	LH1223	2 X 3	0.750	0.705	0.124	0.313	0.762	15,400	1.22
BL634	LH1234	3 X 4					1.022	23,100	1.69
BL644	LH1244	4 X 4					1.161	30,800	1.92
BL646	LH1246	4 X 6					1.417	30,800	2.39
BL666	LH1266	6 X 6					1.667	46,200	2.86
BL823	LH1623	2 X 3	1.000	0.944	0.154	0.375	0.994	26,400	2.11
BL834	LH1634	3 X 4					1.320	39,600	2.93
BL844	LH1644	4 X 4					1.483	52,800	3.34
BL846	LH1646	4 X 6					1.809	52,800	4.16
BL866	LH1666	6 X 6					2.135	79,200	5.03
BL1023	LH2023	2 X 3	1.250	1.185	0.185	0.437	1.169	35,200	2.58
BL1034	LH2034	3 X 4					1.555	52,800	3.92
BL1044	LH2044	4 X 4					1.748	70,400	4.83
BL1046	LH2046	4 X 6					2.134	70,400	5.53
BL1066	LH2066	6 X 6					2.520	105,600	7.13
BL1223	LH2423	2 X 3	1.500	1.378	0.220	0.500	1.372	45,100	4.39
BL1234	LH2434	3 X 4					1.831	67,650	6.10
BL1244	LH2444	4 X 4					2.059	90,200	6.97
BL1246	LH2446	4 X 6					2.518	90,200	8.05
BL1266	LH2466	6 X 6					2.976	135,300	9.78
BL1423	LH2823	2 X 3	1.750	1.66	0.252	0.563	1.496	52,700	5.87
BL1434	LH2834	3 X 4					2.031	94,800	8.19
BL1444	LH2844	4 X 4					2.283	105,400	9.35
BL1446	LH2846	4 X 6					2.803	105,400	11.66
BL1466	LH2866	6 X 6					3.346	158,000	13.99
BL1623	LH3223	2 X 3	2.000	1.90	0.283	0.687	1.693	78,710	7.50
BL1634	LH3234	3 X 4					2.291	124,300	10.45
BL1644	LH3244	4 X 4					2.575	157,400	11.92
BL1646	LH3246	4 X 6					3.157	157,400	14.86
BL1666	LH3266	6 X 6					3.764	236,100	17.81



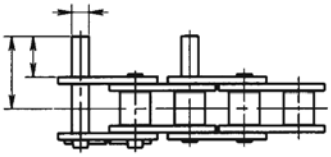
A-1

A-1 Attachment tab is bent on one side of the chain - one hole



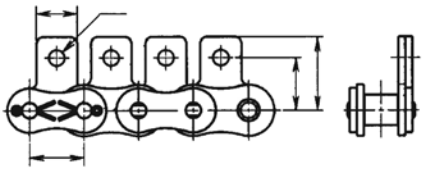
K-1

K-1 Attachment tab is bent both sides of chain - one hole



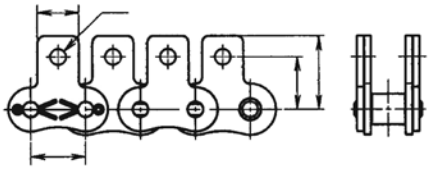
D-1

D-1 Attachment - extended pin on one side of pin link



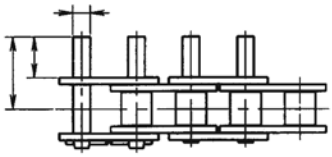
SA-1

SA-1 Attachment tab is straight up on one side of the chain - one hole



SK-1

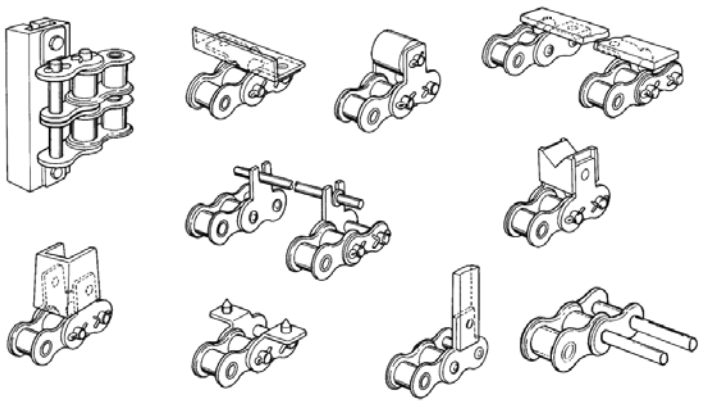
SK-1 Attachment tab is straight up on both sides of the chain - one hole



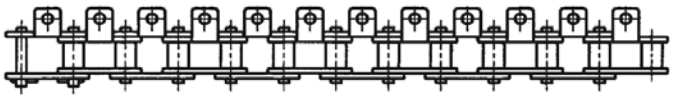
D-3

D-3 Attachment - extended pin on each side of pin link

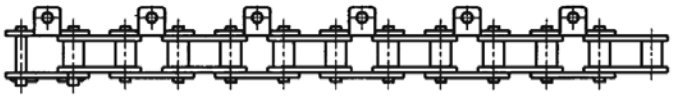
SOME APPLICATIONS



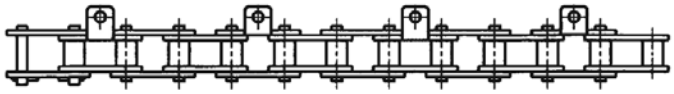
ATTACHMENT SPACING



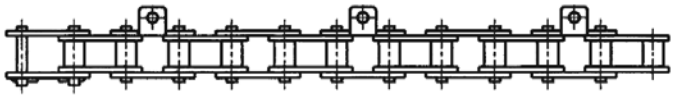
Attachment every pitch - every link on the chain will have an attachment



Attachment on 2nd pitch - either every pin link or every roller link - please specify

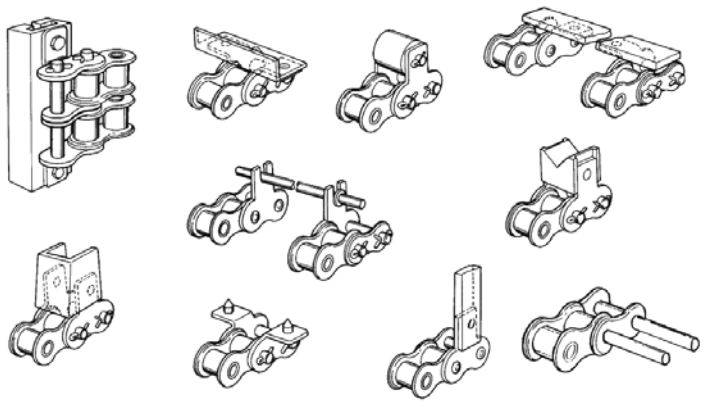


Attachment on 3rd pitch - attachment will alternate - one on pin link, next one on roller link, etc.

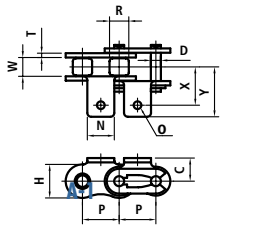


Attachment on 4th pitch - attachment will normally be placed on every other pin link or every 2nd roller link on the chain - please specify

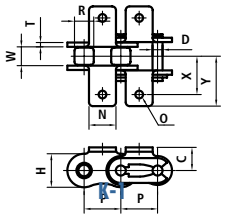
SOME APPLICATIONS



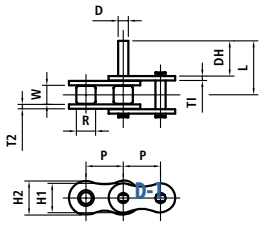
STANDARD ROLLER CHAIN ATTACHMENTS



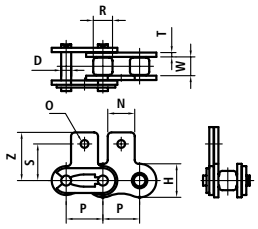
A-1



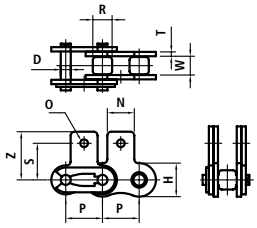
K-1



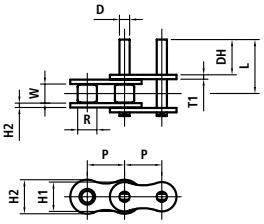
D-1



SA-1



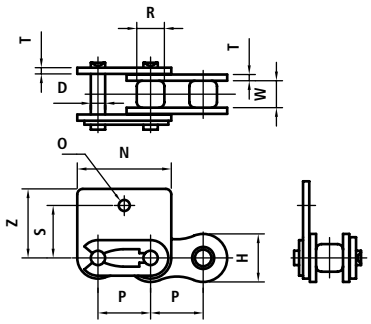
SK-1



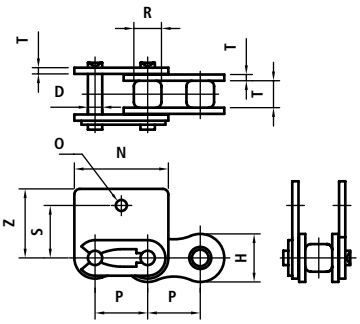
D-3

CXS ANSI #	Pitch	Roller		Plate		Pin	Standard Attachments							Average Ultimate Strength Lbs/Ft
		Width	Dia	Height	Thickness	Diameter	Width of Att Plt	Hole Dia	A-1 K-1			SA-1 SK-1		
	P	W	R	H	T	D	N	O	C	X	Y	S	Z	
35	0.375	0.188	0.200	0.354	0.047	0.141	0.311	.106 - .134	0.250	0.374	0.563	0.374	0.573	2,310
40	0.500	0.313	0.312	0.465	0.059	0.156	0.374	0.142	0.315	0.500	0.701	0.500	0.685	4,070
50	0.625	0.375	0.400	0.583	0.079	0.199	0.500	0.205	0.406	0.626	0.921	0.626	0.907	6,820
60	0.750	0.500	0.469	0.689	0.094	0.234	0.626	0.205	0.469	0.750	1.110	0.720	1.057	9,680
80	1.000	0.625	0.625	0.941	0.122	0.313	0.752	0.268	0.626	1.000	1.441	0.969	1.396	17,160
100	1.250	0.750	0.750	1.185	0.154	0.375	1.000	0.343	0.780	1.250	1.768	1.252	1.732	26,007
120	1.500	1.000	0.875	1.378	0.185	0.437	1.126	0.390	0.906	1.500	2.197	1.437	2.081	34,100
160	2.000	1.250	1.125	1.890	0.252	0.562	1.500	0.520	1.252	2.000	2.827	2.000	2.760	60,500

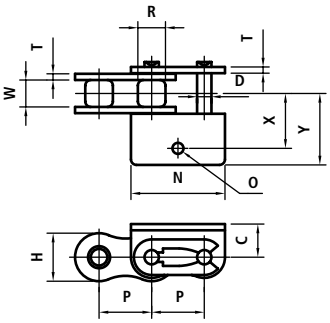
CXS ANSI #	Pitch	Roller		Plate				Extended Pitch Attachments			Average Ultimate Strength Lbs/Ft
		Width	Diameter	Height		Thickness		Pin Diameter	Ext Pin Lgth side plate to end of ext pin	Ext Pin Lgth mid chain to end of ext pin	
	P	W	R	H1	H2	T1	T2	D	DH	L	
35	0.375	0.188	0.200	0.299	0.354	0.047	0.047	0.141	0.375	0.572	2,310
40	0.500	0.313	0.312	0.402	0.465	0.059	0.059	0.156	0.375	0.658	4,070
50	0.625	0.375	0.400	0.512	0.583	0.079	0.079	0.199	0.469	0.825	6,820
60	0.750	0.500	0.469	0.610	0.689	0.094	0.094	0.234	0.562	1.004	9,680
80	1.000	0.625	0.625	0.803	0.941	0.122	0.122	0.313	0.750	1.318	17,160
100	1.250	0.750	0.750	0.976	1.185	0.154	0.154	0.375	0.938	1.647	26,007
120	1.500	1.000	0.875	1.181	1.378	0.185	0.185	0.437	1.126	2.018	34,100
160	2.000	1.250	1.125	1.630	1.890	0.252	0.252	0.562	1.500	2.652	60,500



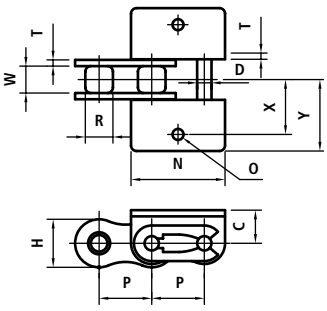
WA-1



WK-1

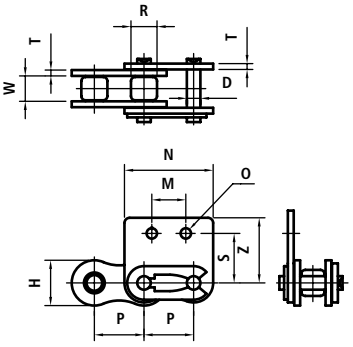


WSA-1

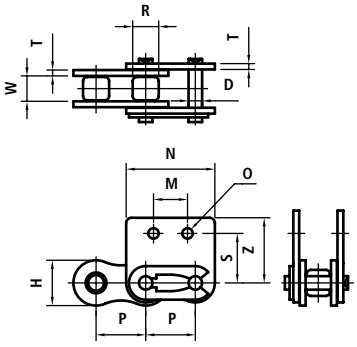


WSK-1

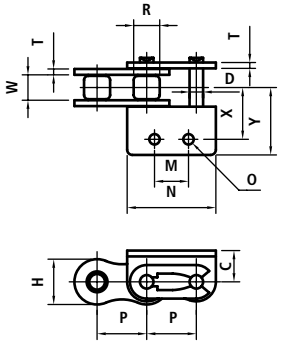
CXS Chain #	Pitch	Roller		Plate		Pin	Wide Contour Attachments - One Hole Attachments								Average Ultimate Strength Lbs/Ft
		Width	Dia	Height	Thickness	Diameter	Width of Att Plt	Hole Dia (WA WK)	Hole Dia (WSA WSK)	WA-1 WK-1			WSA-1	WSK-1	
	P	W	R	H	T	D	N	O	O	C	X	Y	S	Z	
35	0.375	0.188	0.200	0.354	0.047	0.141	0.673	0.130		0.250	0.374	0.563	0.374	0.543	2,310
40	0.500	0.313	0.312	0.465	0.059	0.156	0.902	0.130	0.177	0.315	0.500	0.701	0.500	0.685	4,070
50	0.625	0.375	0.400	0.583	0.079	0.199	1.130	0.201	0.217	0.406	0.626	0.921	0.626	0.907	6,820
60	0.750	0.500	0.469	0.689	0.094	0.234	1.362	0.202	0.260	0.469	0.750	1.110	0.720	1.057	9,680
80	1.000	0.625	0.625	0.941	0.122	0.313	1.799	0.268	0.354	0.626	1.000	1.441	0.969	1.396	17,160



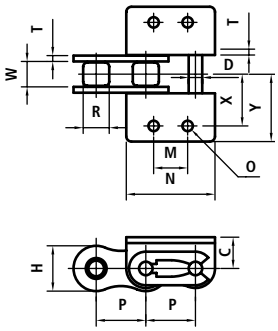
WA-2



WK-2



WSA-2

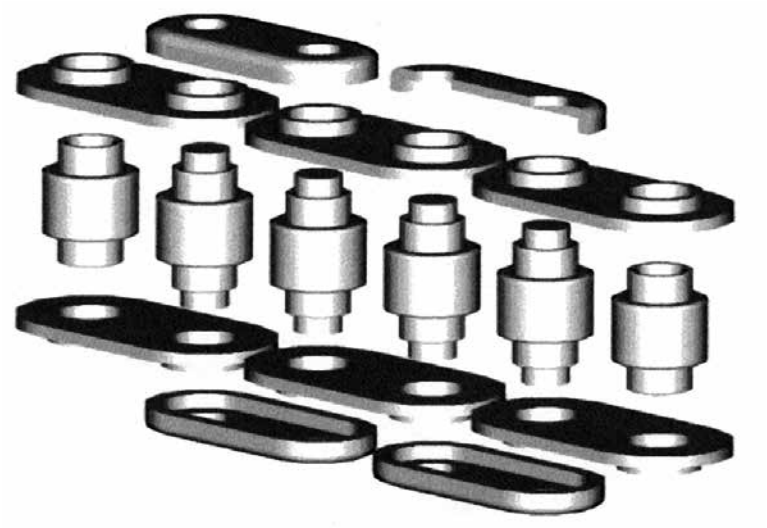


WSK-2

CXS Chain #	Pitch	Roller		Plate		Pin	Wide Contour Attachments - Two Hole Attachments										Average Ultimate Strength Lbs/Ft
		Width	Dia	Height	Thickness	Dia	Dist between holes in Att Plate	Width of Att Plt	HoleDia (WA WK)	HoleDia (WSA WSK)	WA-2 WK-2			WSA-2	WSK-2		
	P	W	R	H	T	D	M	N	O	O	C	X	Y	S	Z		
35	0.375	0.188	0.200	0.354	0.047	0.141	0.374	0.673	0.130		0.250	0.374	0.563	0.374	0.543		2,310
40	0.500	0.313	0.312	0.465	0.059	0.156	0.374	0.902	0.130	0.177	0.315	0.500	0.701	0.500	0.685		4,070
50	0.625	0.375	0.400	0.583	0.079	0.199	0.469	1.130	0.201	0.217	0.406	0.626	0.921	0.626	0.907		6,820
60	0.750	0.500	0.469	0.689	0.094	0.234	0.563	1.362	0.202	0.260	0.469	0.750	1.110	0.720	1.057		9,680
80	1.000	0.625	0.625	0.941	0.122	0.313	0.752	1.799	0.268	0.354	0.626	1.000	1.441	0.969	1.396		17,160

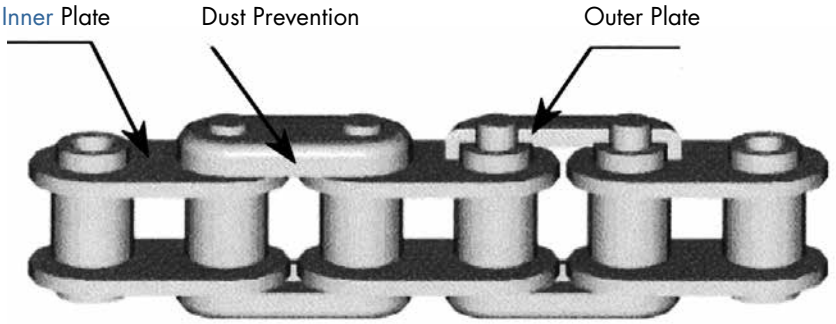
SS MEGA ATTACHMENT CHAIN SPECIFICATIONS

MEGA CHAIN DETAIL



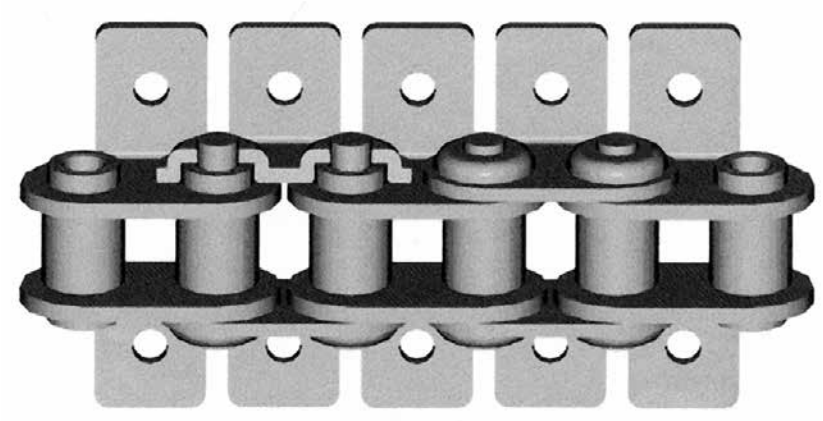
- **Roller chain sizes 40 through 80, single and double**
- **Double pitch chain C2040 through C2080**
- **All standard attachments**
- **Patented design provides twice the tensile strength of standard stainless steel chains**

MEGA CHAIN

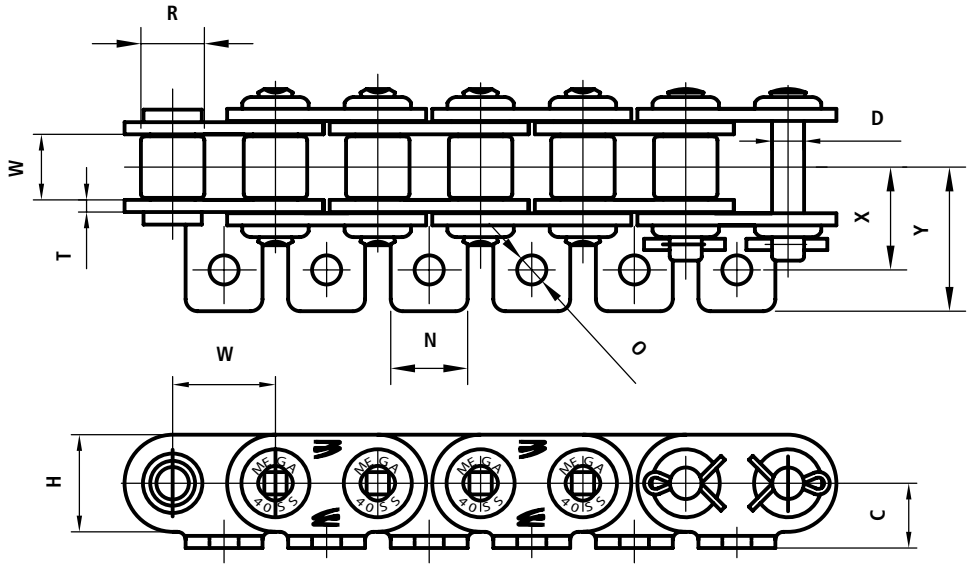


- **Patented design provides;**
  - twice the tensile strength of standard stainless steel chains
  - twice the allowable load
  - 50% better elongation results
  - pin protection from debris

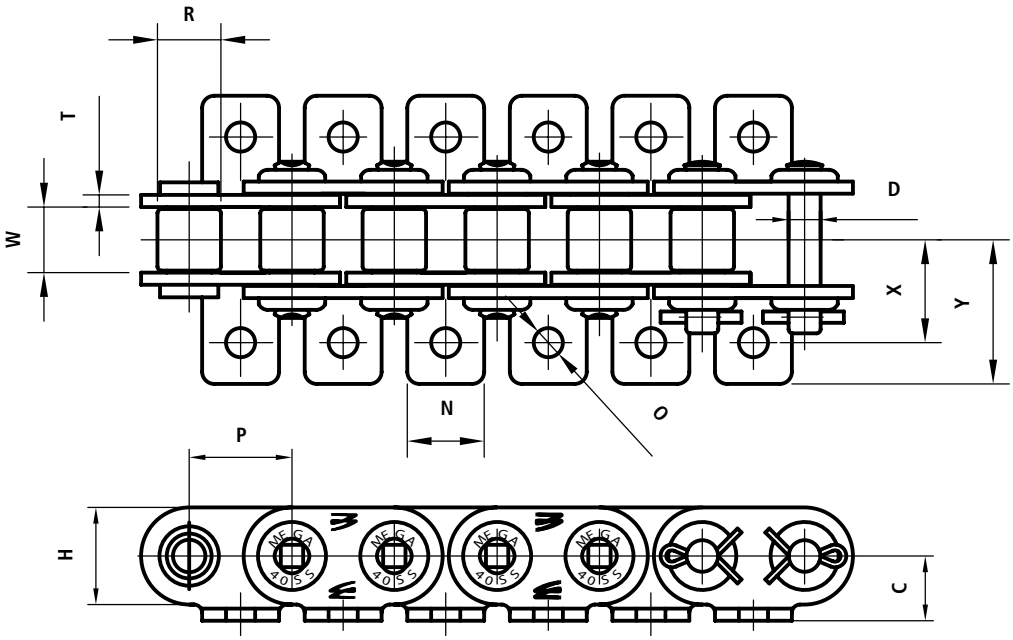
MEGA ATTACHMENT



- **Uses standard sprockets**
- **Reduces maintenance**



A-1

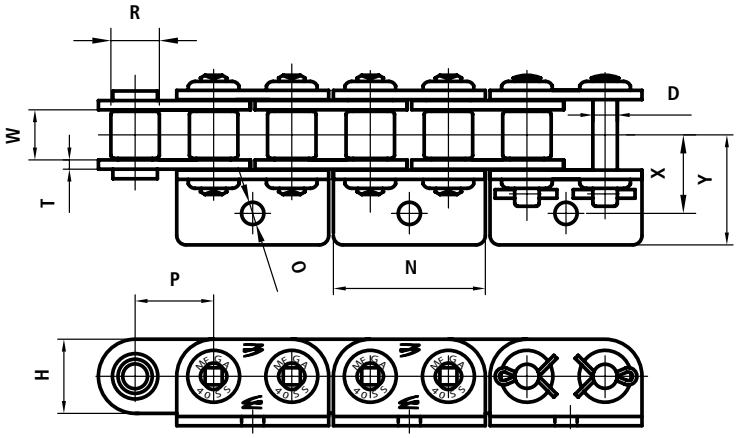


K-1

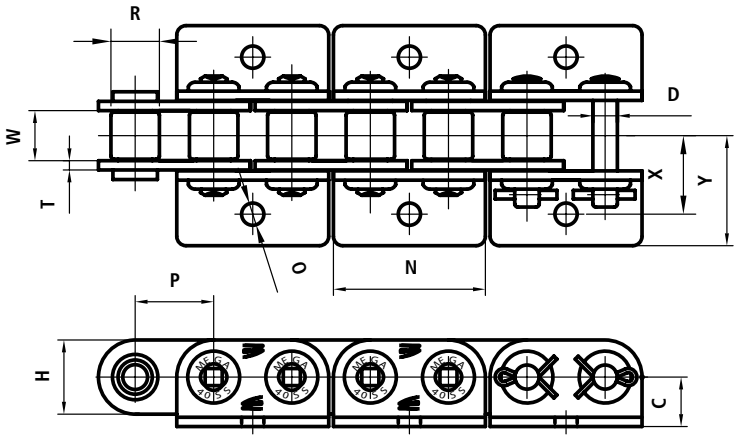
CXS Mega Chain #	Pitch	Roller		Plate		Pin	Standard Attachments							Max Allow Load Lbs/Ft	Average Ultimate Strength Lbs/Ft
		Width	Dia	Height	Thickness	Diameter	Width of Att Plt	Hole Dia	A-1 K-1			SA-1	SK-1		
	P	W	R	H	T	D	N	O	C	X	Y	S	Z		
40SS	0.500	0.313	0.312	0.472	0.059	0.156	0.374	0.142	0.315	0.500	0.701	0.500	0.685	154	3,960
50SS	0.625	0.375	0.400	0.591	0.079	0.199	0.500	0.205	0.406	0.626	0.921	0.626	0.907	264	7,040
60SS	0.750	0.500	0.469	0.713	0.093	0.234	0.625	0.205	0.469	0.750	1.110	0.720	1.057	363	9,680
80SS	1.000	0.625	0.625	0.945	0.118	0.313	0.752	0.268	0.626	1.000	1.441	0.969	1.396	638	15,840

SS MEGA WIDE COUNTOUR ATTACHMENTS

WA-1

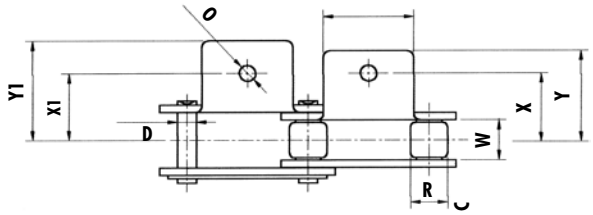


WK-1

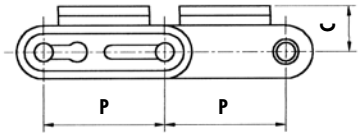


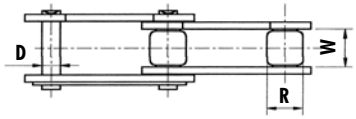
CXS Mega Chain #	Pitch	Roller		Plate		Pin	Wide Contour One Hole Attachments							Max Allow Load Lbs/Ft	Average Ultimate Strength Lbs/Ft
		Width	Dia	Height	Thickness	Diameter	Width of Att Plt	Hole Dia	WA-1 WK-1			WSA-1	WSK-1		
	P	W	R	H	T	D	N	O	C	X	Y	S	Z		
40SS	0.500	0.500	0.313	0.312	0.472	0.059	0.968	0.177	0.315	0.500	0.701	0.500	0.685	154	3,960
50SS	0.625	0.625	0.375	0.400	0.591	0.079	1.213	0.217	0.406	0.626	0.921	0.626	0.907	264	7,040
60SS	0.750	0.750	0.500	0.469	0.713	0.093	1.457	0.260	0.469	0.750	1.110	0.720	1.057	363	9,680
80SS	1.000	1.000	0.625	0.625	0.945	0.118	1.949	0.354	0.626	1.000	1.441	0.969	1.396	638	15,840

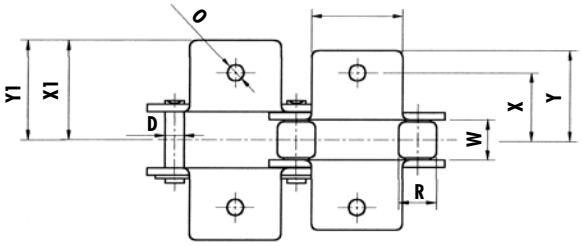
CXS Mega Chain #	Pitch	Roller		Plate		Pin	Wide Contour Two Hole Attachments								Max Allow Load Lbs/Ft	Average Ultimate Strength Lbs/Ft
		Width	Dia	Height	Thickness	Diameter	Width of Att Plt		Hole Dia	Wide Contour Plates WA-2 WK-2			Wide Contour Plates WSA-2 SK-2			
	P	W	R	H	T	D	N	M	O	C	X	Y	S	Z		
40SS	0.500	0.500	0.313	0.312	0.472	0.059	0.968	0.500	0.177	0.315	0.500	0.701	0.500	0.685	154	3,960
50SS	0.625	0.625	0.375	0.400	0.591	0.079	1.213	0.625	0.217	0.406	0.626	0.921	0.626	0.907	264	7,040
60SS	0.750	0.750	0.500	0.469	0.713	0.093	1.457	0.750	0.260	0.469	0.750	1.110	0.720	1.057	363	9,680
80SS	1.000	1.000	0.625	0.625	0.945	0.118	1.949	1.000	0.354	0.626	1.000	1.441	0.969	1.396	638	15,840



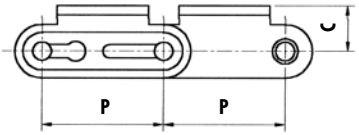
A-1

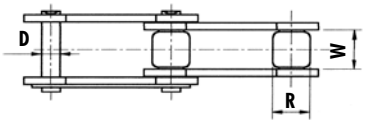




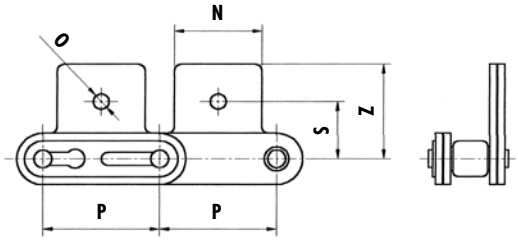


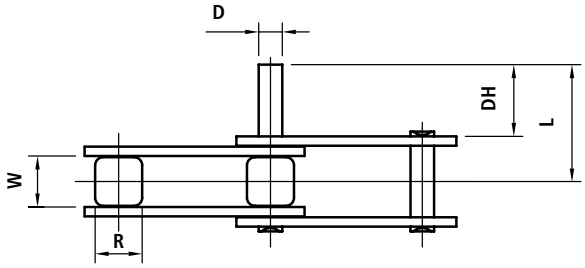
K-1

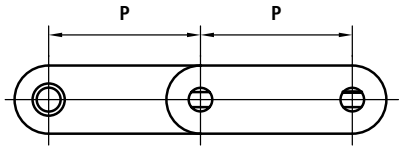




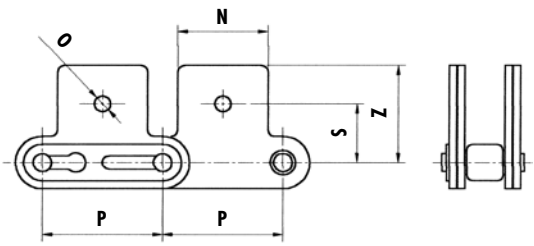
SA-1

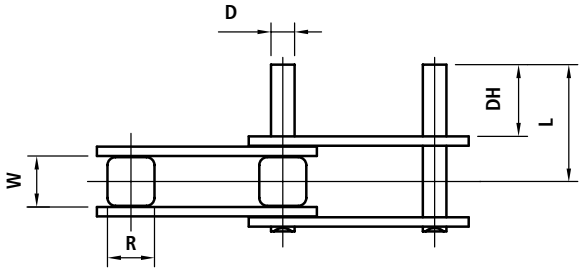


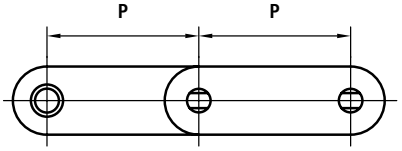




SK-1







D-1

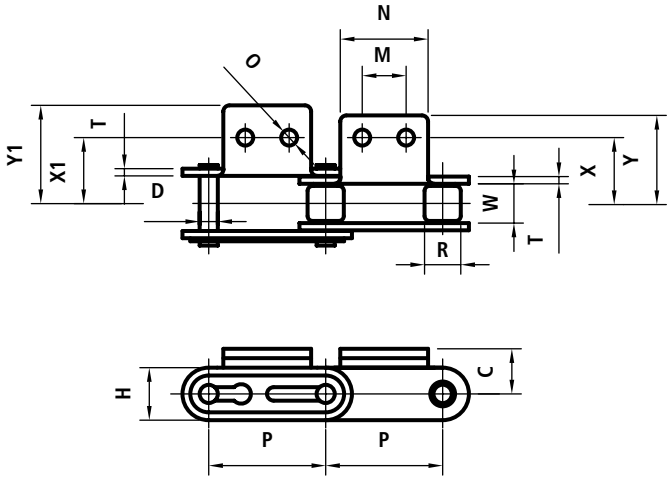
D-3

Refer to page 12 for H & T Link Plate Dimensions

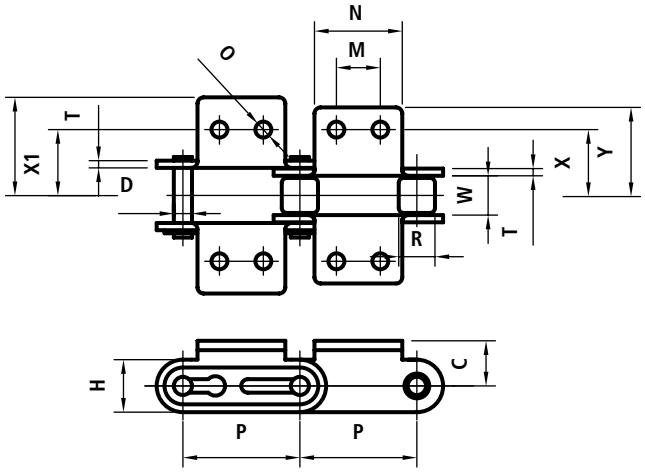
CXS Chain #	Pitch	Width	Roller Dia	Pin Dia	Att Plate Width	Att Hole Dia A-1 K-1	Att Hole Dia SA-1 SK-1	Attachments Specifications A-1 K-1					SA-1	SK-1	D Att Pin Dia	D-1	D-3	Average Ultimate Strength Lbs/Ft
	P	W	R	D	N	O	O	C	X	Y	X1	Y1	S	Z	D	DH	L	
C2040	1.00	0.313	0.312	0.156	0.752	0.142	0.201	0.358	0.500	0.695	0.500	0.760	0.437	0.780	0.156	0.375	0.658	4,100
C2050	1.25	0.375	0.400	0.200	0.937	0.201	0.268	0.437	0.626	0.864	0.626	0.951	0.561	0.949	0.200	0.469	0.825	6,800
C2060H	1.50	0.500	0.469	0.234	1.126	0.201	0.343	0.579	0.844	1.129	0.844	1.258	0.689	1.242	0.234	0.562	1.066	11,700
C2080H	2.00	0.625	0.625	0.312	1.500	0.268	0.406	0.752	1.094	1.438	1.094	1.602	0.874	1.594	0.312	0.750	1.385	20,300
C2042	1.00	0.313	0.625	0.156	0.752	0.142	0.201	0.358	0.500	0.695	0.500	0.760	0.437	0.780	0.156	0.375	0.658	4,100
C2052	1.25	0.375	0.750	0.200	0.937	0.201	0.268	0.437	0.626	0.864	0.626	0.951	0.561	0.949	0.200	0.469	0.825	6,800
C2062H	1.50	0.500	0.875	0.234	1.126	0.201	0.343	0.579	0.844	1.129	0.844	1.258	0.689	1.242	0.234	0.562	1.066	11,700
C2082H	2.00	0.625	1.125	0.312	1.500	0.268	0.406	0.752	1.094	1.438	1.094	1.602	0.874	1.594	0.312	0.750	1.385	20,300

DOUBLE PITCH CONVEYOR ATTACHMENTS

A-2



K-2



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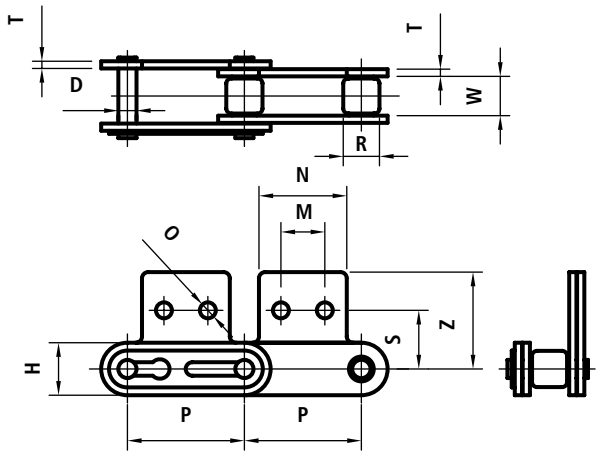

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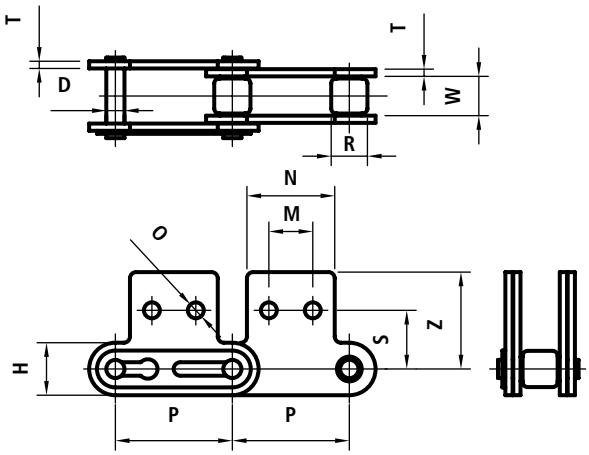
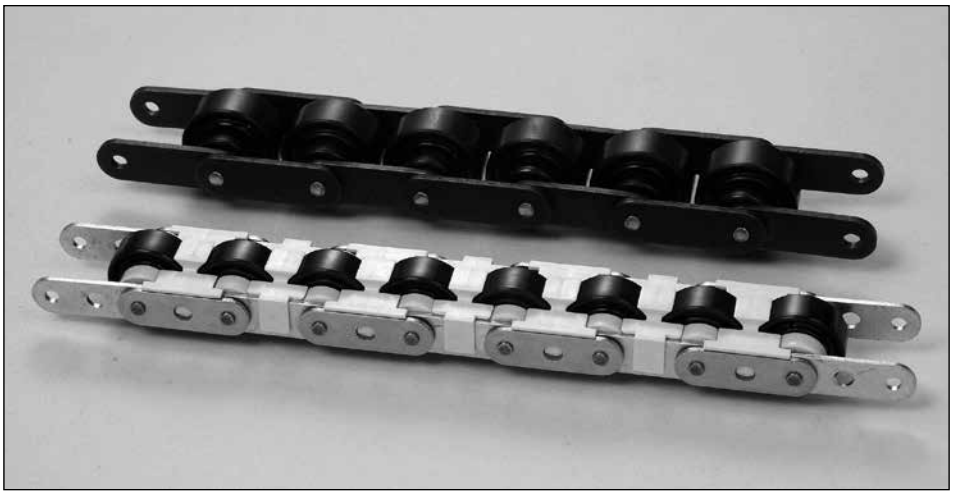


Refer to page 12 for H & T Link Plate Dimensions

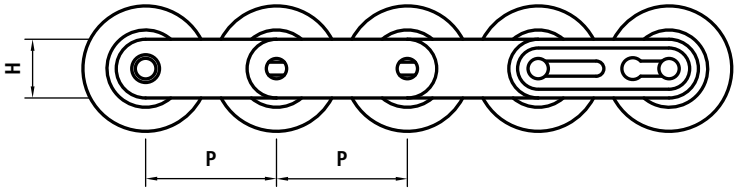
CXS Mega Chain #	Pitch	Width	Roller Dia	Pin Dia	Att Plate Width	Att Hole Dia	Dist Between Att Holes	Attachment Specifications							Average Ultimate Strength
								A-2 K-2					SA-2	SK-2	
	P	W	R	D	N	O	M	C	X	Y	X1	Y1	S	Z	Lbs/Ft
C2040	1.00	0.313	0.312	0.156	0.752	0.142	0.374	0.358	0.500	0.695	0.500	0.760	0.538	0.780	4,100
C2050	1.25	0.375	0.400	0.200	0.937	0.201	0.469	0.437	0.626	0.864	0.626	0.951	0.626	0.949	6,800
C2060H	1.50	0.500	0.469	0.234	1.126	0.201	0.563	0.579	0.844	1.129	0.844	1.258	0.752	1.242	11,700
C2080H	2.00	0.625	0.625	0.312	1.500	0.268	0.752	0.752	1.094	1.438	1.094	1.602	1.000	1.594	20,300
C2042	1.00	0.313	0.625	0.156	0.752	0.142	0.374	0.358	0.500	0.695	0.500	0.76	0.538	0.780	4,100
C2052	1.25	0.375	0.750	0.200	0.937	0.201	0.469	0.437	0.626	0.864	0.626	0.951	0.626	0.949	6,800
C2062H	1.50	0.500	0.875	0.234	1.126	0.201	0.563	0.579	0.844	1.129	0.844	1.258	0.752	1.242	11,700
C2082H	2.00	0.625	1.125	0.312	1.500	0.268	0.752	0.752	1.094	1.438	1.094	1.602	1.000	1.594	20,300

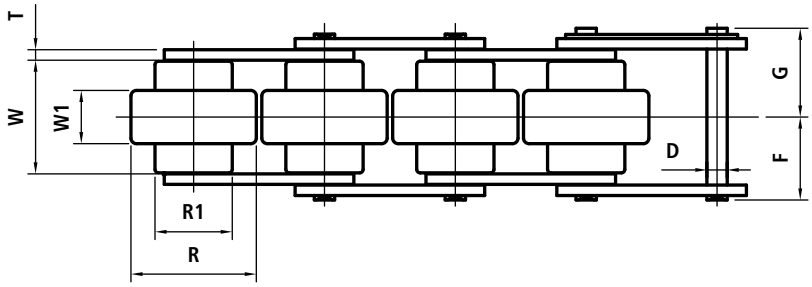
TRIPLE SPEED CHAINS

- **Conveyor Chains** with a black plastic (POM 90) large roller which inhibits static electricity, and small gray (nylon 66) material roller allows for material to be transported at 2.5 times the speed of the base chain
- Base chain available in carbon steel, coated with zinc plated inside plates and nickel plated outer plates, as well as stainless steel



Contact CONNEXUS service centers for special requirements

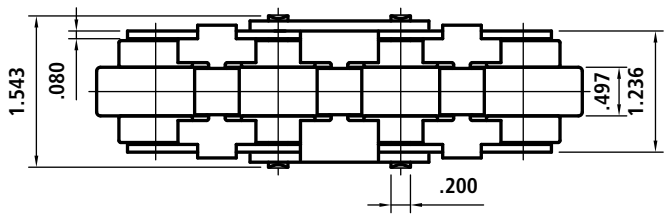


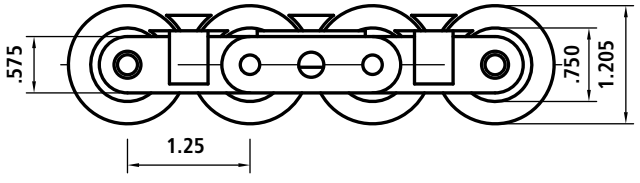


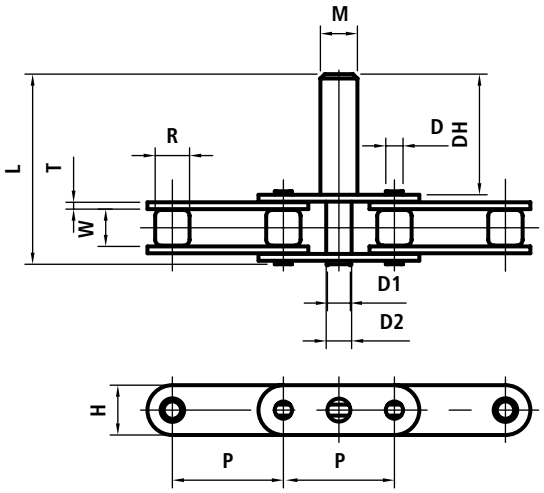
CONNEXUS Chain #	Pitch	Width	Roller			Plate		Pin			Avg Ult Strength	Approx Weight
			Height	Diameter		Height	Thickness	Diameter	Lengths			
	P	W	W1	R	R1	H	T	D	F	G	Lbs/Ft	Lbs/Ft
C2050-JDS	1.25	1.08	0.496	1.205	0.750	0.575	0.080	0.200	0.756	0.815	6600	0.94
C2060H-JDS	1.50	1.31	0.610	1.437	0.886	0.673	0.122	0.234	0.951	1.018	9240	1.34

▼ Snap covers drawn below, also available from the factory

C2050 - JDS - CVR





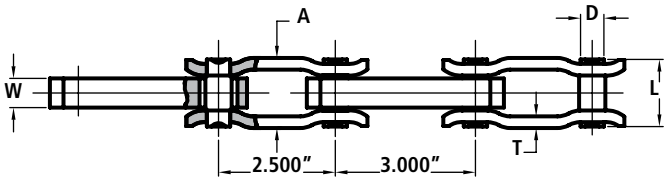


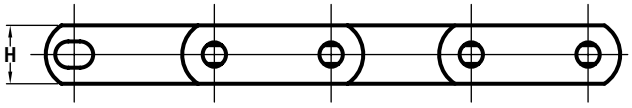
CITRUS / AGRICULTURAL CHAINS

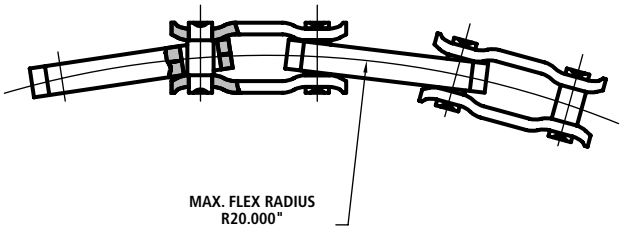
- **Connexus Citrus**, sometimes called agricultural chains, are used to convey product on bucket elevators
- They are available with same length of pin and two separate pin diameters, 1/2" and 916"
- Also available in plated and stainless stee

Consult Connexus service centers for special requirements

CXS Chain #	Type	Pitch	Roller Width	Roller Dia	Link Plates		Pin						Approx Weight	Avg Tensile Strength
					Height	Thickness	Dia			Length				
		P	W	R	H	T	D	D1	D2	M	DH	L	Lbs/Ft	Lbs/Ft
C2060H	1/2" 9/16"	1.500	0.500	0.469	0.670	0.125	0.234	0.310	0.343	0.500 0.563	1.625	2.720	1.20	9900



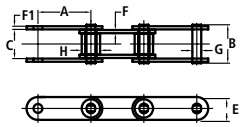




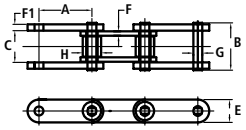
DOUBLE FLEX CHAINS

▼ Transfer conveyor chains used in many applications featuring induction hardened pins, thru hardened sidebars and inner links for extended wear life

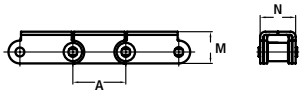
CXS Chain #	Pitch		Chain Width		Link Plate		Pin Diameter	Maximum Radius	Avg Ult Tensile Strength Lbs/Ft	Maximum Allowable Load Lbs	Average Weight Lbs/Ft
	Inner Link	Outer Link	Overall	Inside	Thickness	Height					
			L	W	T	H	D	R			
DF3500	3.000"	2.5000"	1.500	0.625	0.250	1.25	0.562	20"	3.3	4000	48000



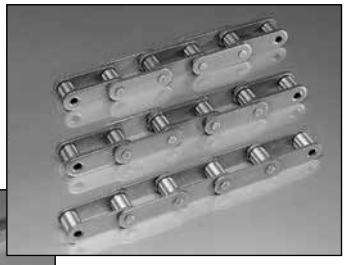
81X

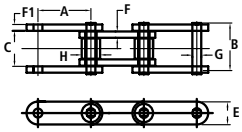


81XH

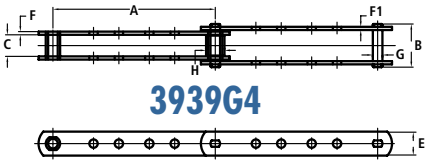


81X ROOFTOP





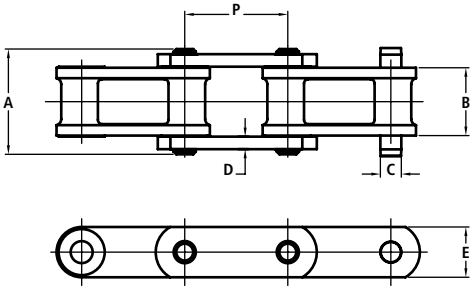
81X HH



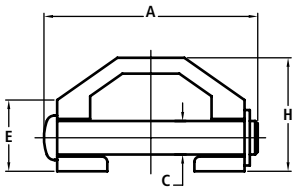
3939G4

CONNEXUS Chain #	Pitch A	Links/Ft	Approx Weight Lbs/Ft	Overall Width B	Inside Width C	Inner SB Thickness F	Outer SB Thickness F1	Pin Diameter G	Roller Diameter H	Sidebar Height E	Rooftop Height M	Rooftop Width N
81X	2.609	4.6	2.6	1.937	1.062	.156	.156	.4375	.9062	1.125		
81X H	2.609	4.6	3.9	2.325	1.062	.156	.218	.4375	.9062	1.250		
81X XHD	2.609	4.6	4.6	2.625	1.062	.156	.312	.4375	.9062	1.250		
81X ROOFTOP	2.609	4.6	6.0	2.000	1.062	.156	.156	.4375	.9062		1.500	1.8125
*3939G4	8.000	1.5	1.62	1.937	1.062	.156	.156	.4375	.9062	1.125		

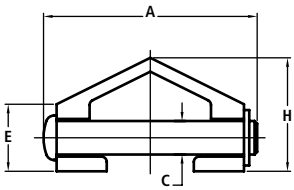
* 4 holes per side bar 9/32 diameter @ 1.5" and 4" centers - other configurations are also available



C55, C102B, C131, C188

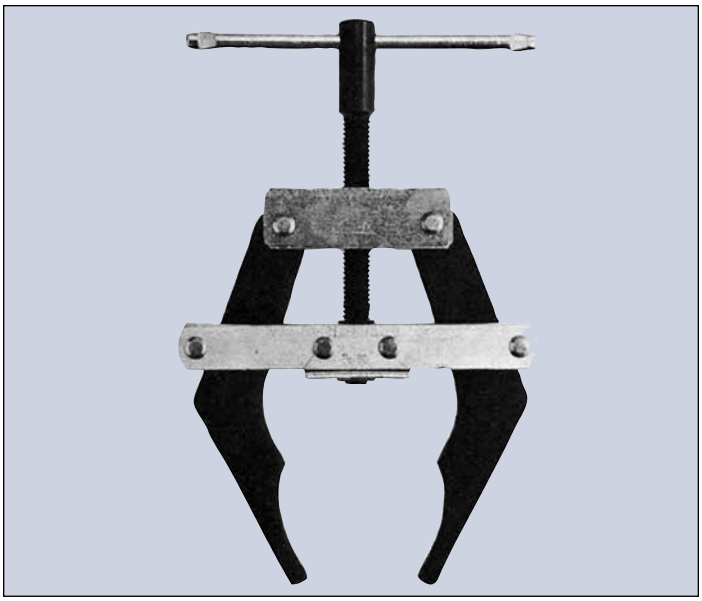


H78B
H138
C55B



H78A
H130
C55A

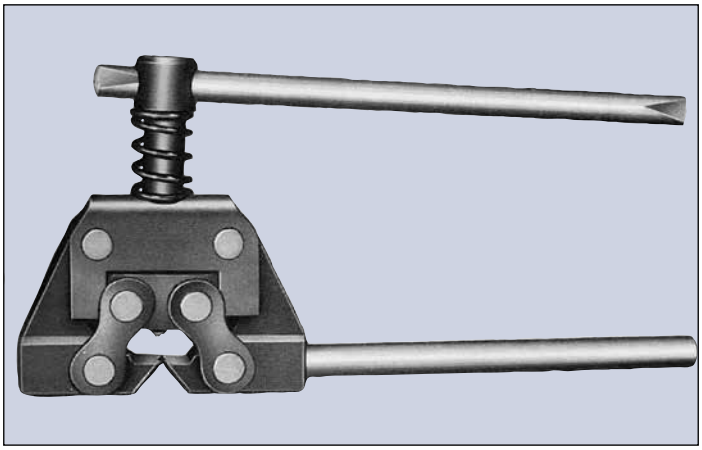
CONNEXUS Chain #	Pitch P	Links/Ft	Approx Weight Lbs/Ft	Width A	Inner Link Width B	Pin Diameter C	Thickness D	Height E	Rooftop Height H
H78	2.609	4.6	4.3	3.250		.500			
H78 A/B	2.609	4.6	5.6/6.2	3.250		.500			1.690
H130/138	4.000	3	5.3/5.9	3.250		.500			1.690
C55	1.630	7.4	2.0	2.000	1.250	.375	.218	.750	
C188	2.609	4.6	3.5	2.562	1.562	.500	.250	1.125	
C131	3.075	3.9	6.7	3.250	3.437	.625	.375	1.500	
C102B	4.000	3	6.4	4.312	2.875	.625	.375	1.500	
C55A/B	1.630	7.4	2.5	2.000	1.218	.375	.218	.718	1.625



CHAIN PULLER

The Chain Puller is an additional tool which provides a fast and easy method for endless chain assembly. The two jaws are hooked into the ends of the chain, and the hand screw is turned until the connecting link glides into position.

Model	Chain Size
No. 35	35 - 60
No. 60	60 - 100
No. 80	80 - 240



CHAIN DETACHER

The Chain Detacher is a lightweight hand tool that quickly disassembles roller chain without the need of a hammer, punch or vise. In short, "one tool does all the work". There are three models fro use with ANSI Standard Chains. sizes No. 35 through No. 100.

Model	Chain Size
No. 50	35 - 50
No. 60	35 - 60
No. 100	60 - 100

STRAIGHT PUNCH TYPE CHAIN CUTTER

The Straight punch type Chain Cutter provides higher efficiency for quick disassembly of chains compared with the conventional chain cutter.

Model	Chain Size
No. 25	25
No. 35 - 40	35 - 40
No. 50	50
No. 60	60
No. 80	80
No. 100	100

CHAIN DRIVE SELECTION

Chains can be selected by two methods;

1. General Selection
2. Slow-speed Selection

1: General Selection

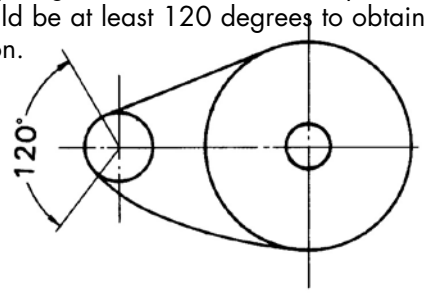
The following information is essential in order to select the appropriate chain and sprocket for roller chain transmission

Power to be transmitted = kW

Speed of driving shaft and driven shaft per minute

Speed ratio refers to the ratio of the speed of the driving shaft to the speed of the driven shaft.
The speed ratio of chains can range up to 7:1 under normal operating conditions.

The take up angle between the smaller sprocket and the chain should be at least 120 degrees to obtain smooth transmission.



Center distance between driving shaft and driven shaft Sprockets can be separated at any distance as long as the teeth do not touch. Optimum distance is 30 to 50 times the pitch of chain used.

1) Adjust power to be transmitted (kW)

The actual power to be transmitted is affected by the load of the machine and power source used. Adjustments must be made according to **Service Factor shown on Table 1**. The power to be transmitted (kW) is multiplied by the corresponding service factor to obtain the design kW value.

2) Determine roller chain and number of teeth of the smaller sprocket.

Use the Quick Selection Table (Table V) and select an appropriate chain and the number of teeth for the small sprocket by referring to the number of revolutions of the high speed shaft (i.e., the driving shaft when the speed is reduced; the driven shaft when the speed is increased) and the design kW.

If the capacity of simplex chain is insufficient, select a Multiplex chain. In this case, use the following table to determine the multi-strand factor.

Table II Multi-Strand Factor

No. of Roller Chain Strand	Multi-Strand Factor
2	1.7
3	2.5
4	3.3
5	3.9
6	4.6

3) Determine the number of teeth of the large sprocket

After the number of teeth of the small sprocket is determined, multiply it by the speed ratio to determine the number of teeth of the large sprocket. The recommended maximum number of teeth is 114 or less.

Table 1: Service Factor

Type of Impact	Examples of Machines	Type of Impact Power		
			Internal Combustion Engine	
		Electric motor or turbine	With hydraulic drive	Without hydraulic drive
Smooth	Agitators, Centrifugal Blowers, Textile machines, General machines with small load fluctuation	KTW1.ONMMXCNVN-VBCNMXZMXNCB,CMN-BRGNRE	1.0	1.2
Moderate	Centrifugal compressors, Conveyors with moderate load fluctuation, Dryers, General work machines	1.3	1.2	1.4
Heavy	Construction or Mining machines, Presses, Vibration machines, General machines with reverse or impact load	1.5	1.4	1.7

4) Calculate Chain Length

The number of pitches (length of chain) can be obtained by the following formula (Note: Raise the value to a unit to make it an integer.)

$$Lp = \frac{N1 + N2}{2} + 2\,Cp + \{ (N2 - N1) \} / 2 \}$$

L: Number of pitches chain
N 1: Number of teeth of small sprocket
N 2: Number of teeth of large sprocket
C: Center distance of two sprockets/Chain Pitch

If the number of pitches is already given, the center distance between the sprockets can be obtained by the following formula:

$$Cp = \frac{1}{4}\{ Lp - \frac{N1 + N2}{2} + \sqrt{(Lp - \frac{N1 + N2}{\prod 2})\,2 - \frac{2}{2}\,(N2 - N1)2\ \}}$$

2. Slow Speed Selection

This is one of the economical selection methods based on fatigue strength of chain for conditions where
(i) the operational speed of chain is 50 meters / minute or less, and
(ii) there is no concern of wear elongation and shock fracture of rollers and bushings. However, a chain selected by this method may be subject to severe conditions and, thus, special care should be taken on the chain selection. The slow speed selection is not applicable to the connecting and offset link.

1) Calculate Chain Tension

If the chain tension is unknown, it can be obtained by using the following formula with kW of the input power to be transmitted.

$$F = \frac{60 \times kW}{V} \quad (kN)$$

F: Chain Tension
V: Chain Speed (m/mm)

2) Determine Corrected Chain Tension

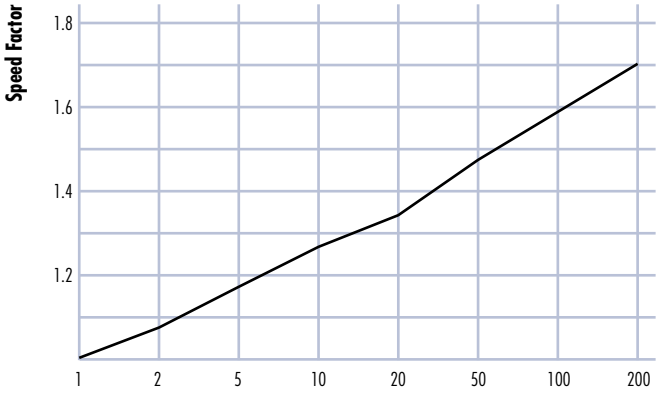
Chain tension needs to be corrected as per the conditions of use, in the same way as described in General Selection section. Use Service Factor (Table I) and then Sprocket Tooth Factor (Table III) and Speed Factor (Table IV) to take into consideration increase of tension caused by vibration, centrifugal force, inertia force, etc.

The corrected Chain Tension can be obtained using the following formula:
Corrected Chain Tension = Chain Tension x Service Factor x Sprocket Teeth Factor x Speed Factor

Table III: Sprocket Tooth Factor

Number of Teeth on Small Sprocket	Sprocket Tooth	Number of Teeth on Small Sprocket	Sprocket Tooth
9	1.085	19	1.022
11	1.068	21	1.014
13	1.054	23	1.007
15	1.042	25 or over	1.000
17	1.031		

Table IV: Speed Factor



3) Determine the Chain

If the maximum allowable tension stated in the table of each chain dimensions is larger than the corrected chain tension, the chain is selected correctly.

4) Check Chain Speed

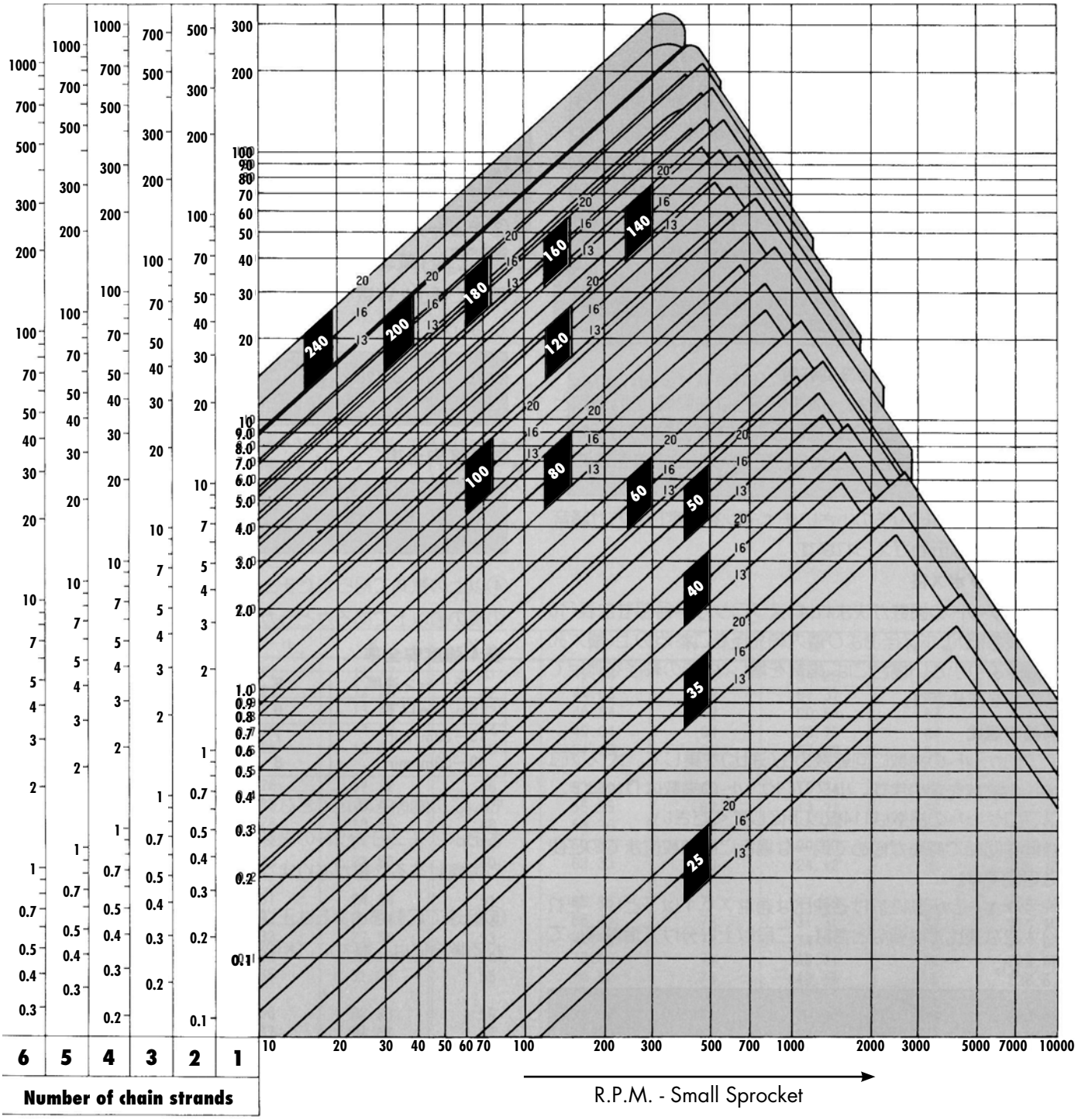
The chain speed can be calculated using the formula below. If the chain speed exceeds 50m/min., choose General Selection instead of Slow-speed Selection.

$$V = \frac{P \times N1 \times r1}{1000}$$

V : Chain Speed (m/min)
P : Chain Pitch (mm)
N1: Teeth of small sprocket
r1: Revolution of Small Sprocket (RPM)

The method for determining the number of teeth of large sprocket and calculation of chain length is the same as those described at General Selection section.

Consult with Connexus service center for chain for use on (i) transmission of frequent go & stop, and (2) inversion with impact load.



How to use this table:

For easy selection of chain and sprocket, check the intersection of revolution per minute (RPM) of design **kW (vertical axis)** and the small sprocket (horizontal axis).

Example:
Assume design kW is **5kW and the RPM of the small sprocket is 100**.
By taking the intersection point of this design kW value of 5kW and RPM value is 100, one can derive **# 80 ANSI chain and a sprocket of 16 Teeth** from the chart.

4) Calculate Chain Length

The number of pitches (length of chain) can be obtained by the following formula (Note: Raise the value to a unit to make it an integer.)

$$Lp = \frac{N1 + N2}{2} + 2\,Cp + \{ (N2 - N1) \} / 2 \}$$

L: Number of pitches chain
N 1: Number of teeth of small sprocket
N 2: Number of teeth of large sprocket
C: Center distance of two sprockets/Chain Pitch

If the number of pitches is already given, the center distance between the sprockets can be obtained by the following formula:

$$Cp = \frac{1}{4}\{ Lp - \frac{N1 + N2}{2} + \sqrt{(Lp - \frac{N1 + N2}{2})\,2 - \frac{2}{2}\,(N2 - N1)2\ \}}$$

2. Slow Speed Selection

This is one of the economical selection methods based on fatigue strength of chain for conditions where

(i) the operational speed of chain is 50 meters / minute or less, and

(ii) there is no concern of wear elongation and shock fracture of rollers and bushings. However, a chain selected by this method may be subject to severe conditions and, thus, special care should be taken on the chain selection. The slow speed selection is not applicable to the connecting and offset link.

1) Calculate Chain Tension

If the chain tension is unknown, it can be obtained by using the following formula with kW of the input power to be transmitted.

$$F = \frac{60 \times kW}{V} \quad (kN)$$

F: Chain Tension
V: Chain Speed (m/mm)

2) Determine Corrected Chain Tension

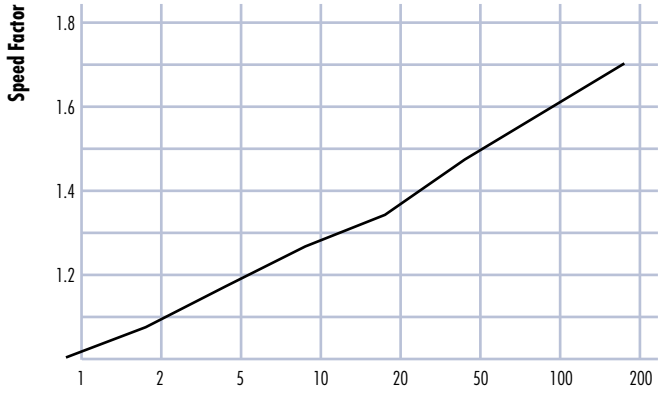
Chain tension needs to be corrected as per the conditions of use, in the same way as described in General Selection section. Use Service Factor (Table I) and then Sprocket Tooth Factor (Table III) and Speed Factor (Table IV) to take into consideration increase of tension caused by vibration, centrifugal force, inertia force, etc.

The corrected Chain Tension can be obtained using the following formula:
Corrected Chain Tension = Chain Tension x Service Factor x Sprocket Teeth Factor x Speed Factor

Table III: Sprocket Tooth Factor

Number of Teeth on Small Sprocket	Sprocket Tooth	Number of Teeth on Small Sprocket	Sprocket Tooth
9	1.085	19	1.022
11	1.068	21	1.014
13	1.054	23	1.007
15	1.042	25 or over	1.000
17	1.031		

Table IV: Speed Factor



3) Determine the Chain

If the maximum allowable tension stated in the table of each chain dimensions is larger than the corrected chain tension, the chain is selected correctly.

4) Check Chain Speed

The chain speed can be calculated using the formula below. If the chain speed exceeds 50m/min., choose General Selection instead of Slow-speed Selection.

$$V = \frac{P \times N1 \times r1}{1000}$$

V : Chain Speed (m/min)
P : Chain Pitch (mm)
N1: Teeth of small sprocket
r1: Revolution of Small Sprocket (RPM)

The method for determining the number of teeth of large sprocket and calculation of chain length is the same as those described at General Selection section.

Consult with CONNEXUS service center for chain for use on (i) transmission of frequent go & stop, and (2) inversion with impact load.

WARNING

Safety Precautions in installing, removing, lubricating or servicing a chain system:

- There should be guards provided on all chain and sprocket installations in accordance with existing applicable safety standards.
- Take care that power is turned off before installing, removing, lubricating or servicing a chain system.
- Always wear safety glasses to prevent injury to eyes.
- Wear appropriate protective clothing; i.e., hats, gloves and safety shoes.
- Always be sure to have properly working tools and follow directions for their proper use.
- Always loosen tensioning devices.
- Always support the chain to prevent uncontrolled movement of the chain and/or parts.
- Discard damaged chain or parts and do not attempt to re-use chain or parts or their individual components.
- Failure to use these safety instructions may result in serious injury or death.

Limited Warranty Disclaimer and Exclusions

The seller warrants that the Goods and/or Service will be free from defects in material workmanship for a period of three months from date of delivery, or an agreed upon established time period at time of order.

The sole obligation of CONNEXUS INDUSTRIES INC. or any associated companies here after called "The Company", under this Limited Warranty shall be to repair or replace or have it's Authorized Distributor repair or replace any defective products within 45 business days of a complaint communicated in writing to "The Company". Except as expressly provided herein, "The Company" shall not liable for the breach of any warranty, express or implied, including without liability arising out of merchantability of fitness for a particular purpose, or for any damages or other liability arising out of or in connection with customers' use of supplier products or "The Company" or the authorized distributor designing, manufacturing or selling supplied products. In no event shall " The Company" be liable for direct, special, incidental or consequential damages, including without limitation lost sales or profit, lost production or output, injury to property or reputation, or any other damages whether arising in contract or tort or otherwise (whether or not attributable to the fault or negligence of "The Company"). Under no circumstances shall any recovery of any kind against "The Company" be greater in amount than the price of the products and/or service to end user.

NOTE: Products that have been modified and/or altered from their original state without expressed written consent of "The Companies" Representative shall void this and any other warranty written or expressed. All returned materials shall be evaluated by "The Companies" engineering and sales staff prior to credit and rework. Product being returned for evaluation must include a valid "Returned Goods Authorization" number (RGA#) RGA Number added as a procedure with ISO 9001.2008 Certification Oct 19, 2015.

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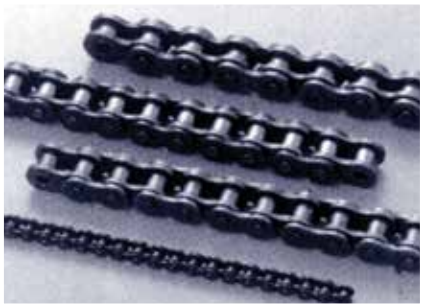


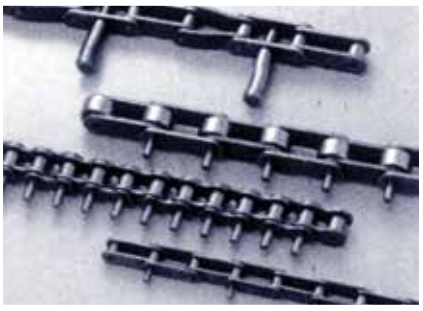
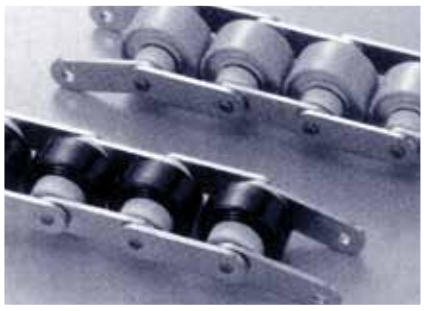
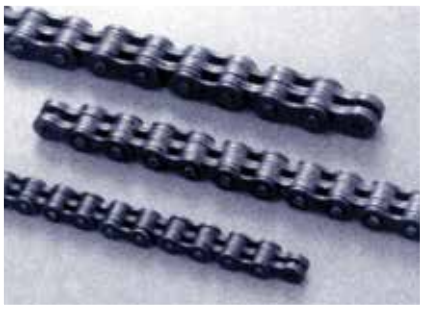

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