FINERPOWER
TRANSMISSIONS

Roller Chain & Sprockets

SUGIYAMA

Book 1 Main Content

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FINERPOWER TRANSMISSIONS

SUGIYAMA

SY Roller Chain

SY ROLLER CHAIN

The highest quality roller chain in the world just got stronger PREMIUM SBR ROLLER CHAIN

Patented in: USA, Europe, Australia, Canada.

The Strongest Maximum Allowable Load

* Astounding Maximum Allowable Loads
* World's First Chain With 30% Higher Fatigue Strength
* Higher safety factor is gained.
* Downsizing to smaller chain is possible in some applications.
* Cost Savings

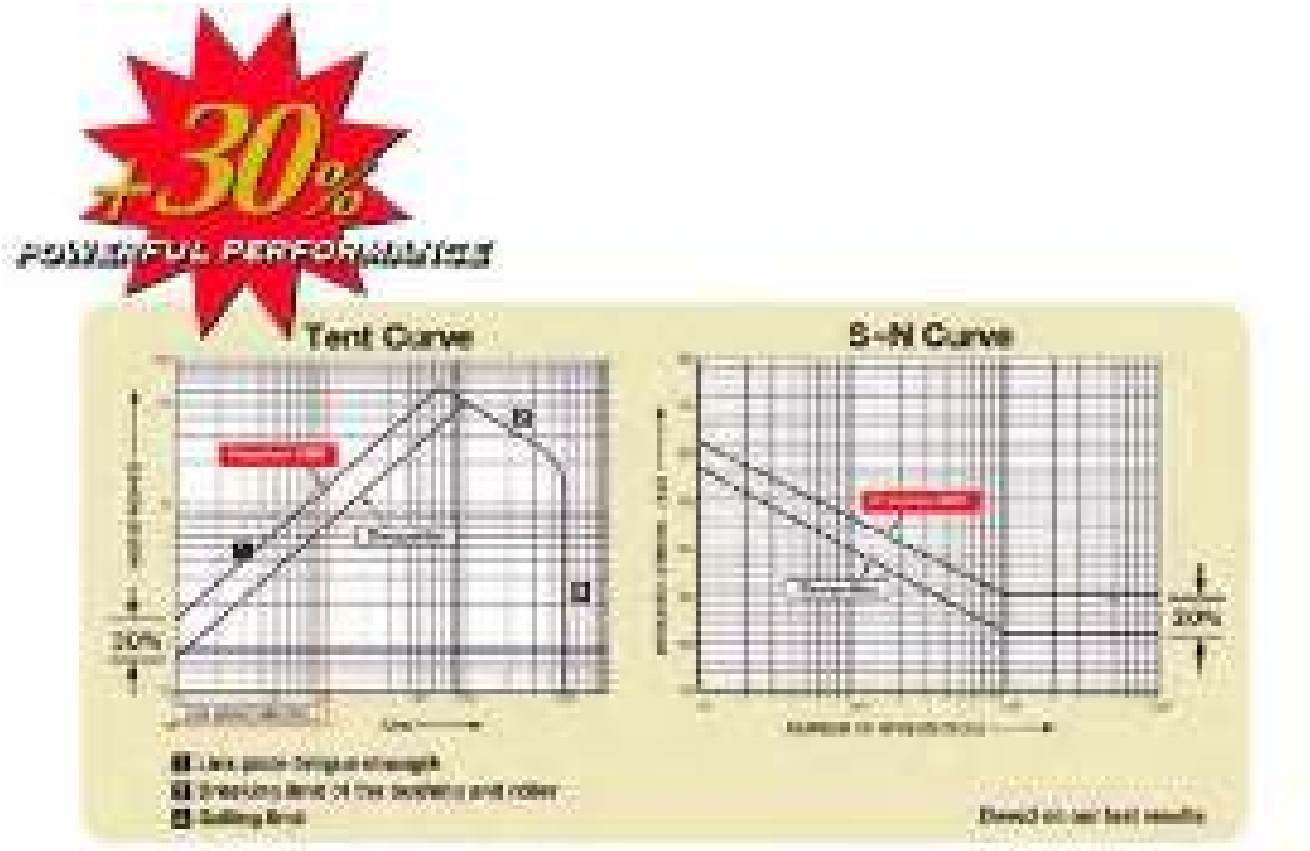
BS Standard Maximum Allowable Loads

Chain No.	Competitor (kN)		Premium SBR (kN)
SY16B	12.8	30% UP	16.4
SY20B	19.6		25.5
SY24B	27.5		35.7
SY28B	34.3		44.5
SY32B	39.2		51.0

Sizes of Premium SBR Chain:16B – 32B Single Strand
80 – 240 Single Strand

ANSI Standard Maximum Allowable Loads

Chain No.	Competitor (kN)		Premium SBR (kN)
SY 80	14.7	30% UP	19.1
SY100	22.6		29.4
SY120	30.4		39.5
SY140	40.2		52.3
SY160	53.0		69.0
SY180	60.8		79.0
SY200	71.6		93.0
SY240	99.0		129.0



RUN BETTER WITH SY SPECIFY YOUR REQUIREMENTS

HOW TO ORDER

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STANDARD PACKING

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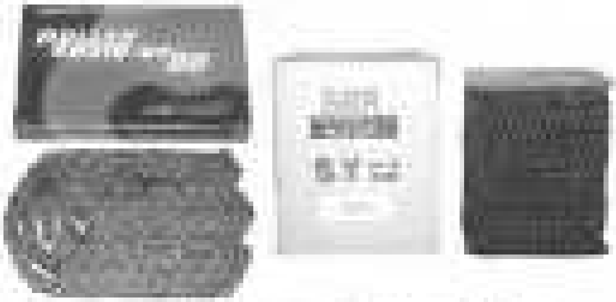

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NOMENCLATURE

SY120-2(R) 2L A-2

- SY chain No.
- Strand
- Type of pin link
- Space of att. (L=Pitch)
- Type of att.

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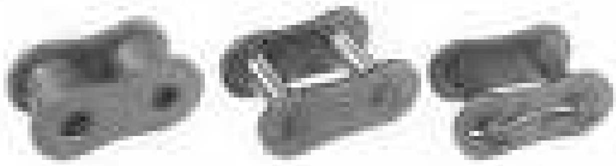
CHAIN PARTS



Roller Link (Type RL)

Pin Link Riveted (Type R)

Pin Link Cottered (Type C)

CHAIN CONNECTION PARTS

Spring Clip (Type S/CL)

Cottered (Type C)

Offset (Type OL)

'S' Pin (Type S)

Through 'S' Pin (Type TS)

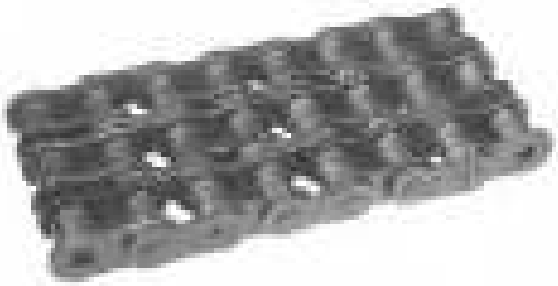
Soft Pin

CHAIN CONSTRUCTION

RIVETED

COTTERED

SINGLE AND MULTIPLE



Roller chain with connecting link (CA)

Roller chain with offset link (OA)

Roller chain with connecting links (CA's) on both ends.

Roller chain endless

It is important to select the most suitable roller chains and sprockets for the job by careful study of power transmission requirements.

The following basic factors should be considered when selecting roller chains for transmission work; though there may be other factors.

ATMOSPHERIC CONSIDERATION

Input power ratings have been worked out under the following conditions:

1) To be driven in normal atmosphere of -10°F to 60°C free from ill effect of abrasive dust, corrosive gas, high humidity etc.
2) Sprockets should be aligned and mounted on parallel horizontal shafts.
3) Recommended method of lubrication and recommended kind of lubricant should be used.
4) Should be driven at even load or small load variations.

Power rating of multiple strand chain is not simply calculable by multiplying the power rating of one strand by the number of strand because of uneven load distribution onto each strand. So, multiple strand factor should be used for expected service life.

A service life of 15,000 hrs. can be expected when chain length is 100 pitches and the above conditions are met.

POINT IN SELECTION ROLLER CHAIN AND SPROCKET

The following factors must be taken into consideration in selecting proper chain drive, depending on chain speed-normal or low speed. Also correction factors should be used, fully grasping the conditions of use.

a) Driven machine
b) Type of load: smooth light or heavy shock
c) Source of power
d) kW to be transmitted [kW=kW]
e) RPM and diameter of high speed shaft[rpm]
f) RPM and diameter of low speed shaft[rpm]
g) Center distance of shaft [m]
h) Chain driving speed [S=m/min]

SELECTION PROCEDURE ACCORDING TO CHAIN SPEED

IN CASE OF NORMAL SPEED

S=50~250m/min

To obtain corrected power kW1 multiply kW0 by corrected factor f1 applied according to condition of use

kW1=kW0·f1
=kW0·f1·f2

To obtain chain and high-speed sprocket teeth fit the roller chain quick selection chart and power rating chart according to RPM of high speed shaft and corrected power kW1

N1

Determine low speed sprocket teeth N2 from speed ratio R

R=n1/n2
N2=R·N1

See if such sprocket shaft diameter and mounting space satisfy specifications of machine

•Check

Make special sprocket

Obtain corrected power kW1 of single strand by referring to multiple strand factor f2

OK

Finally determined

Economical sprockets for general industrial use are recommended except when special sprockets are made necessary by unusual circumstances.

IN CASE OF LOW SPEED

S=Less than 50m/min.

Divided into two cases depending on chain driving conditions

1) For low speed drive with few stops and starts, make the chain selection in a way to satisfy the following formula:
T×n×f3≦Max. allowable chain load.
2) For low speed drive with frequent stops and starts.
T×n×f3×f4≦Ave. ultimate strength.

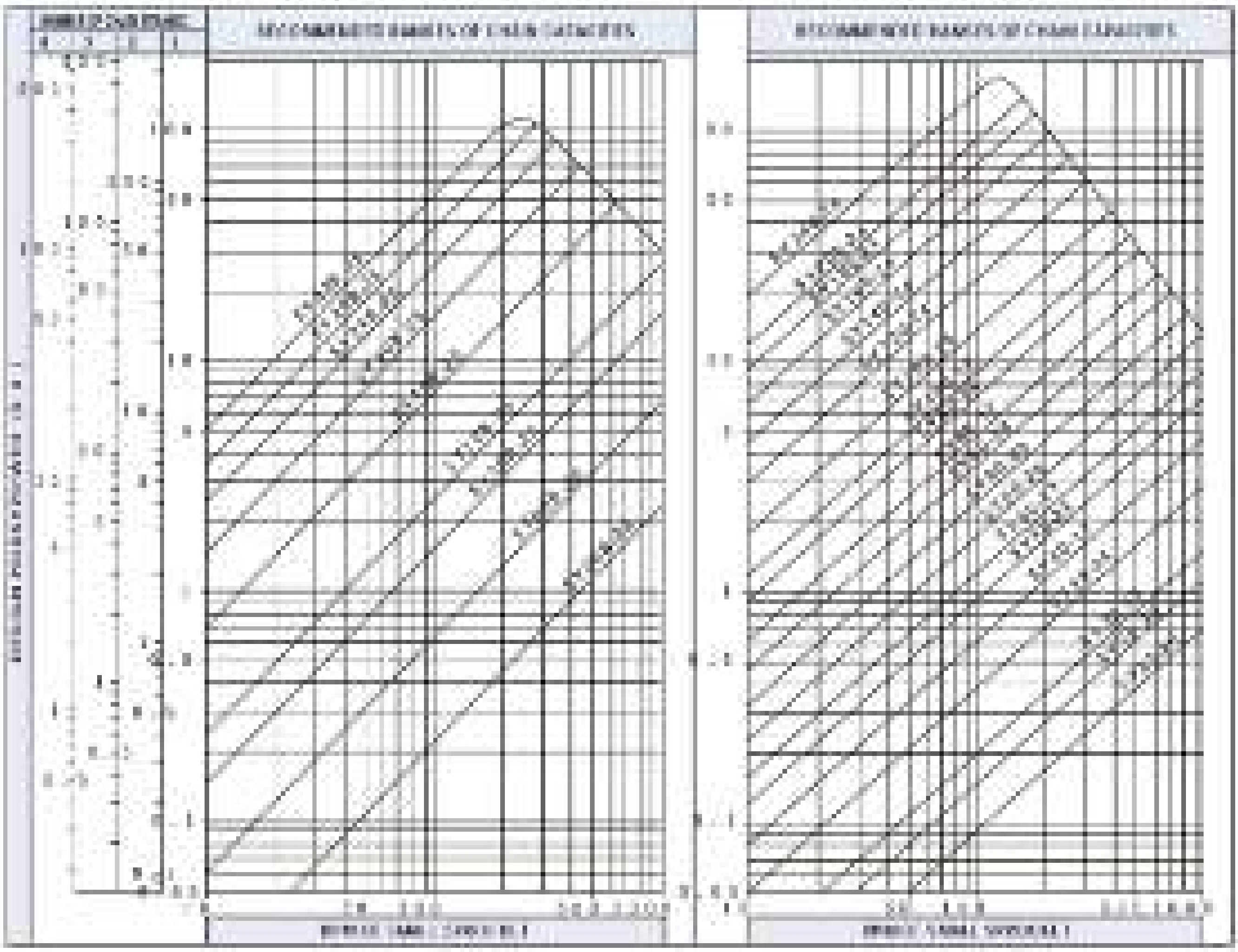
Select the chain by substituting the values of chain speed and max. working load into formulas (1)&(2), after chain selected tentatively in the general way.

N1[–] : =Number of teeth on small sprocket.
N2[–] : =Number of teeth on large sprocket.
P [mm] =Chain pitch
S [m/min] =Chain speed

=N1·P·n1/1000
T [kN] =Max. working load
=kg

f2 : MULTI-STRAND FACTOR

Number of roller chain strands	f2
2	1.7
3	2.5
4	3.3
5	3.9
6	4.6
8	6.2
10	7.8



CONCISE SELECTION DATA

SY Chain No.	SY Standard (ANSI)		Each Series				
	Max. Allowable Load	Ave. Ultimate Strength	Ave. Ultimate Strength (kN)				
			C	B	H	HE	HU
35	2.45	13.8					
40	6.13	18.5					
50	7.22	31.9					
60	10.1	43.5	47.1		54.9	53.9	
80	18.1	78.5	73.4	84.4	80.2	91.2	98.1
100	28.4	118	118	127	137	142	145
120	36.3	167	174	186	186	191	198
140	52.3	218	227	246	247	243	264
160	68.0	275	284	314	306	319	328
180	76.0	363		412	373		
200	92.0	457		490	520		
240	120.0	617		726	726		

f1: SERVICE FACTOR

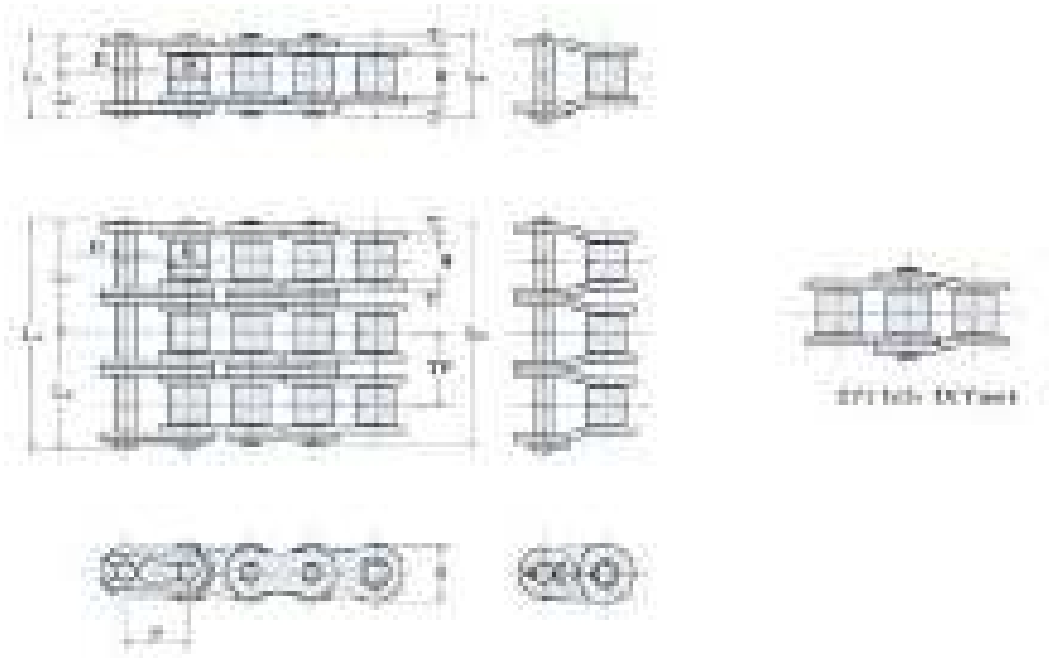
Driven Load Condition	Internal Combustion Engine		Motor or Turbine
	Hydraulic Drive	Mechanical Drive	
Uniform Smooth	1.1	1.0	1.0
Moderate Shock	1.5	1.3	1.2
Heavy Shock	1.4	2.1	1.8

f2: SPEED COEFFICIENT

Chain Speed	f2
Under 15	1.0
15~30	1.2
30~50	1.4

f3: SAFETY FACTOR

Chain Speed	f3
Under 25	1.0
25~50	0.8



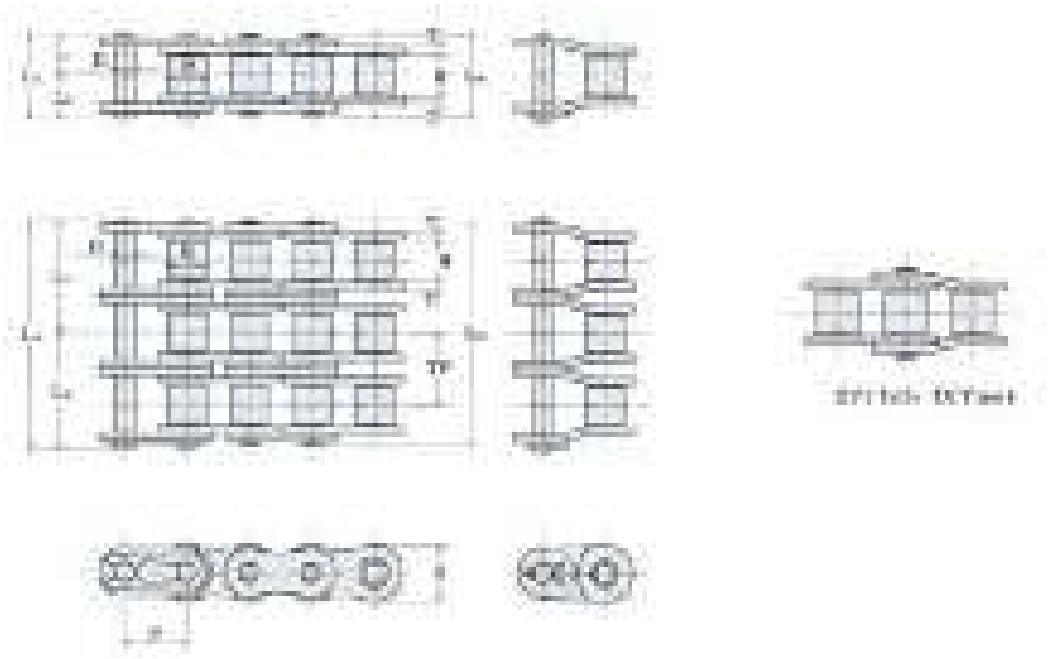
25 & 35 (Bushed Chain)

SY Chain No. (ANSI)	Dimensions - mm											Average Ultimate Strength	Maximum Allowable Load	Average Chain Weight
	Pitch	Bushing		Pin					Plate		Trans. Pitch			
		Width	Dia.	Dia	Length				Height	Thick.				
	P	W	R	D	LR	LC	L1	L2	H	T	TP	Kn	kN	kg/m
25	6.35	3.18	3.30	2.31	-	-	-	-	-	-	-	-	-	-
35	9.53	4.78	5.08	3.58	12	12.90	6.0	6.9	9.0	1.25	-	10.80	2.48	0.34
35-2					22.1	23.00	11.1	11.9			10.1	21.60	3.67	0.63
35-3					32.2	33.10	16.1	17.0				32.40	5.40	0.92
35-4					42.3	43.2	21.2	22.0				43.2	7.13	1.22
35-5					52.4	53.2	26.2	27.0				54.00	8.42	1.56
35-6					62.5	63.5	31.3	32.2				64.80	9.94	1.89

40 & 41

SY Chain No. (ANSI)	Dimensions - mm											Average Ultimate Strength	Maximum Allowable Load	Average Chain Weight
	Pitch	Bushing		Pin					Plate		Trans. Pitch			
		Width	Dia.	Dia	Length				Height	Thick.				
	P	W	R	D	LR	LC	L1	L2	H	T	TP	Kn	kN	kg/m
40*	12.7	7.95	7.92	3.96	16.5	17.9	8.3	9.6	11.7	1.5	-	19.1	4.17	0.60
40-2					30.8	32.2	15.4	16.8			14.4	38.2	6.17	1.22
40-3					45.0	46.6	22.5	24.1				57.3	9.08	1.85
40-4					60.0	60.8	30.0	30.8				76.4	12.0	2.46
40-5					74.6	75.6	37.3	38.3				95.5	14.2	3.14
40-6					89	89.9	44.5	45.4				115.0	16.7	3.31
41	12.7	6.38	7.77	3.59	-	-	-	-	-	-	-	-	-	-

* Also stocked in 100ft and 50ft reels.



50

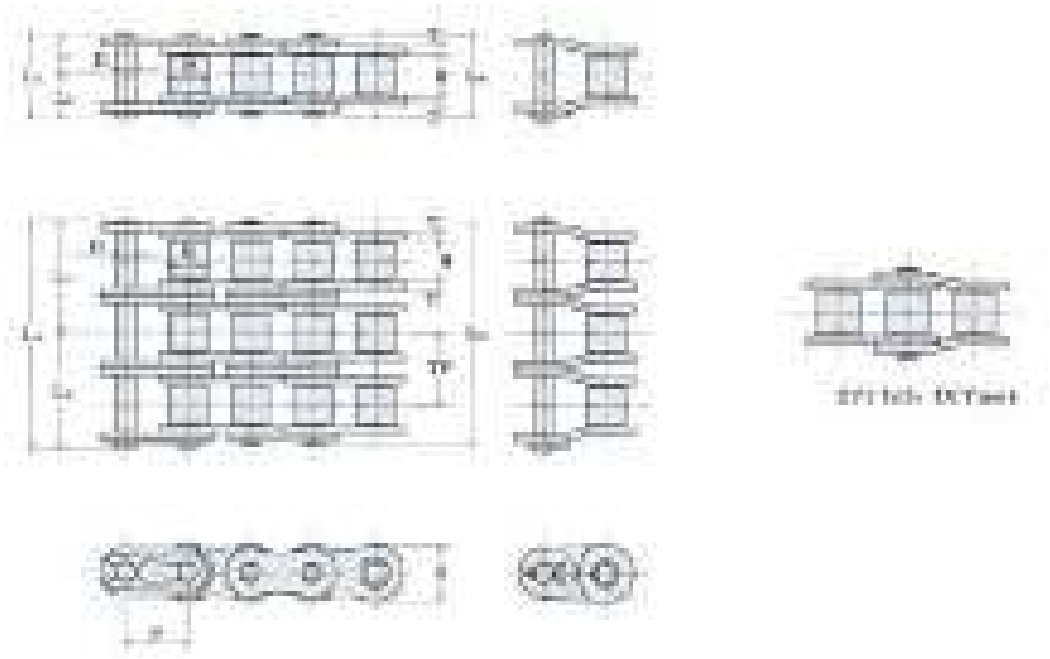
SY Chain No. (ANSI)	Dimensions - mm											Average Ultimate Strength	Maximum Allowable Load	Average Chain Weight
	Pitch	Bushing		Pin					Plate		Trans. Pitch			
		Width	Dia.	Dia	Length				Height	Thick.				
	P	W	R	D	LR	LC	L1	L2	H	T	TP	Kn	kN	kg/m
50*	15.875	9.53	10.16	5.08	20.4	22.0	10.2	11.8	14.6	2.0	-	31.9	7.22	0.98
50-2					38.4	40.0	19.2	20.8			18.1	63.8	10.7	2.00
50-3					56.7	58.2	28.4	29.8				95.7	15.7	3.07
50-4					75.0	75.7	37.5	38.2				128	20.7	3.97
50-5					93.2	94.1	46.6	47.5				160	24.5	5.02
50-6					111.4	112.5	55.7	56.8				191	28.9	6.01

*** Also stocked in 100ft and 50ft reels**

60

SY Chain No. (ANSI)	Dimensions - mm											Average Ultimate Strength	Maximum Allowable Load	Average Chain Weight
	Pitch	Bushing		Pin					Plate		Trans. Pitch			
		Width	Dia.	Dia	Length				Height	Thick.				
	P	W	R	D	LR	LC	L1	L2	H	T	TP	Kn	kN	kg/m
60*	19.05	12.70	11.91	5.95	25.5	26.9	12.8	14.1	17.5	2.4	-	43.1	10.7	1.46
60-2					48.2	49.7	24	25.7			22.8	86.2	14.7	2.95
60-3					71.2	72.6	35.2	37.4				129	21.6	4.43
60-4					94.4	95.4	47.2	48.2				172	28.5	5.92
60-5					117	118.2	58.5	59.7				216	33.7	7.41
60-6					140	140.9	70.1	70.8				259	39.7	8.90
60-8					185	186.6	92.5	94.1				345	53.5	13.36
60-10					230.8	232.2	115.4	116.8				431	64.7	16.34

* Also stocked in 100ft and 50ft reels



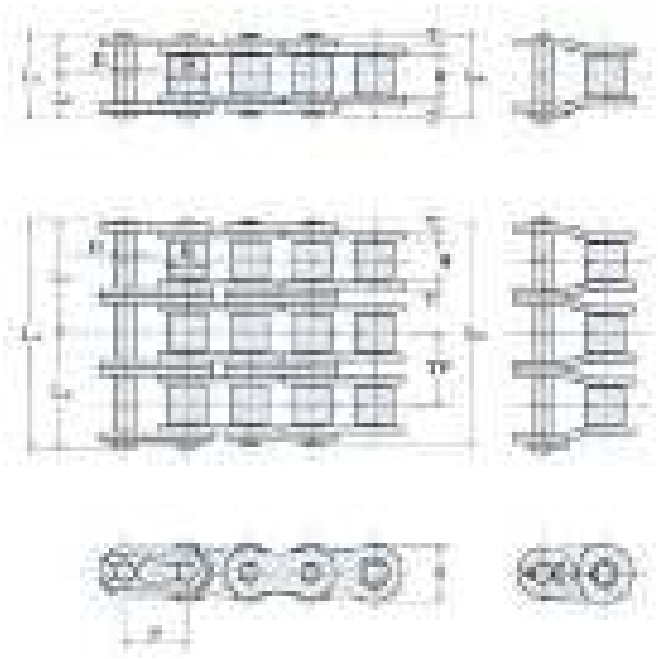
80

SY Chain No. (ANSI)	Dimensions - mm											Average Ultimate Strength	Maximum Allowable Load	Average Chain Weight
	Pitch	Bushing		Pin					Plate		Trans. Pitch			
		Width	Dia.	Dia	Length				Height	Thick.				
	P	W	R	D	LR	LC	L1	L2	H	T	TP	Kn	kN	kg/m
80*	25.4	15.88	15.88	7.93	32.8	35.5	16.4	19.1	23.4	3.2	-	78.5	19.1	2.52
80-2					61.6	64.5	30.8	33.7			29.3	157	25	5.1
80-3					90.9	94.1	45.5	48.6				236	36.8	7.68
80-4					120.4	123.5	60.2	63.3				314	48.5	10.25
80-5					149.8	152.8	74.9	77.9				393	57.3	12.84
80-6					179.1	182.1	89.6	92.5				471	67.6	15.42
80-8					237.6	240.6	118.8	121.8				628	91.1	20.58
80-10					296.2	299.2	148.1	151.1				785	110	25.81

* Also stocked in 100ft and 50ft reels

100

SY Chain No. (ANSI)	Dimensions - mm											Average Ultimate Strength	Maximum Allowable Load	Average Chain Weight
	Pitch	Bushing		Pin					Plate		Trans. Pitch			
		Width	Dia.	Dia	Length				Height	Thick.				
	P	W	R	D	LR	LC	L1	L2	H	T	TP	Kn	kN	kg/m
100	31.75	19.05	19.05	9.53	39.4	43.0	19.7	23.3	29.3	4	-	118	29.4	3.91
100-2					75.1	78.8	37.6	41.2			35.8	236	29.4	7.74
100-3					110.9	114.6	55.5	59.1				354	56.5	11.58
100-4					147.4	150.8	73.7	77.1				472	74.6	15.4
100-5					183	186.6	91.5	95.1				590	88.1	19.26
100-6					218.8	222.4	109.4	113				708	104	23.1
100-8					290.4	294.1	145.2	148.9				944	140	30.81
100-10					362	365.7	181	184.7				1180	170	38.54

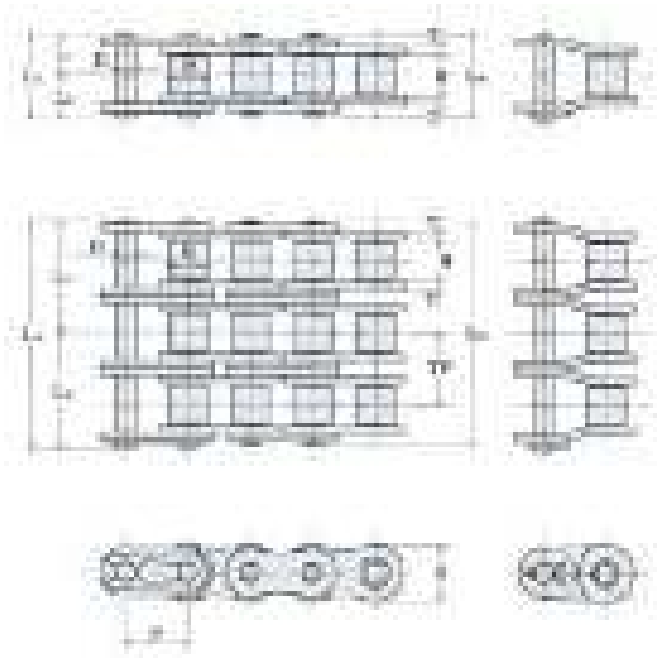


120

SY Chain No. (ANSI)	Dimensions - mm											Average Ultimate Strength	Maximum Allowable Load	Average Chain Weight
	Pitch	Bushing		Pin					Plate		Trans. Pitch			
		Width	Dia.	Dia	Length				Height	Thick.				
	P	W	R	D	LR	LC	L1	L2	H	T	TP	Kn	kN	kg/m
120	38.10	25.40	22.23	11.10	49.5	53.4	24.8	28.6	35.10	4.80	-	167.00	39.5	5.76
120-2					94.9	98.8	47.5	51.3			45.4	334	51.7	11.49
120-3					140.3	144.2	70.2	74				501	76	17.2
120-4					186.1	190	93.1	96.9				668	100	22.92
120-5					231.5	235.4	115.8	119.6				835	119	28.65
120-6					276.9	280.8	138.5	142.3				1002	140	34.36
120-8					367.5	371.7	183.8	187.9				1336	188	45.81
120-10					458.3	462.5	229.2	233.3				1670	228	57.38

140

SY Chain No. (ANSI)	Dimensions - mm											Average Ultimate Strength	Maximum Allowable Load	Average Chain Weight
	Pitch	Bushing		Pin					Plate		Trans. Pitch			
		Width	Dia.	Dia	Length				Height	Thick.				
	P	W	R	D	LR	LC	L1	L2	H	T	TP	Kn	kN	kg/m
140	44.45	25.4	25.4	12.7	54.0	58.3	27.0	31.3	40.9	5.6	-	216	52.3	7.41
140-2					102.9	107.2	51.5	55.7			48.9	432	68.3	14.63
140-3					151.7	156.3	75.9	80.4				648	101	21.91
140-4					201.2	205.5	100.6	104.9				864	133	29.17
140-5					250.1	254.4	125.1	129.3				1080	157	36.45
140-6					299	303.3	149.5	153.8				1296	185	43.72
140-8					396.5	401.1	198.3	202.8				1728	249	58.28
140-10					494.3	498.9	247.2	251.7				2160	302	72.82

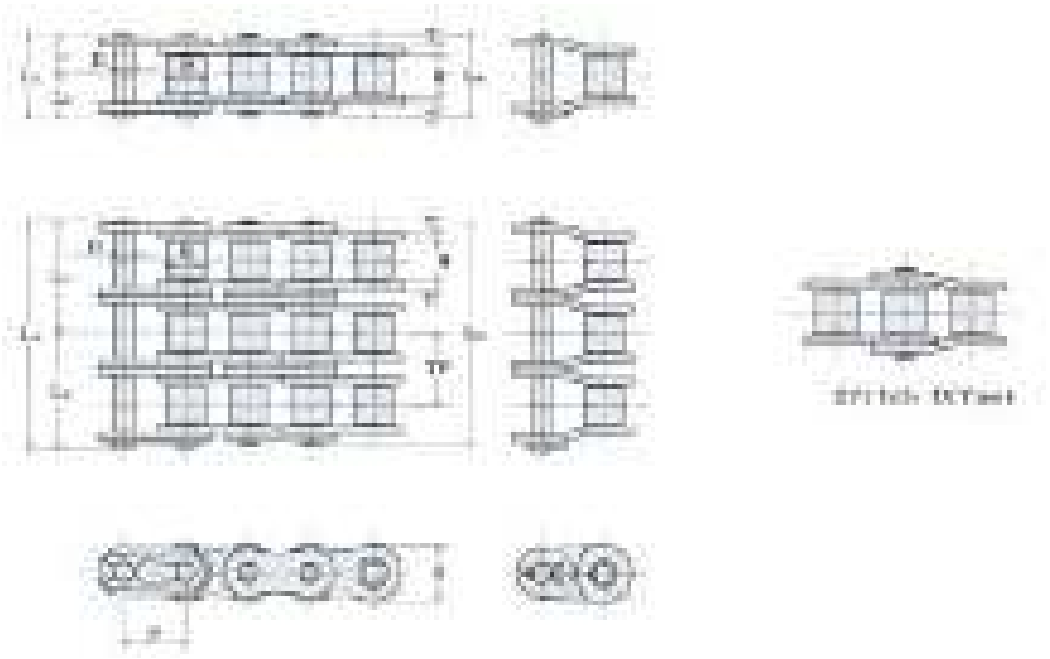


160

SY Chain No. (ANSI)	Dimensions - mm											Average Ultimate Strength	Maximum Allowable Load	Average Chain Weight
	Pitch	Bushing		Pin					Plate		Trans. Pitch			
		Width	Dia.	Dia	Length				Height	Thick.				
	P	W	R	D	LR	LC	L1	L2	H	T	TP	Kn	kN	kg/m
160	50.8	31.75	28.58	14.28	64.3	68.7	32.2	36.5	46.7	6.4	-	275	69.0	9.79
160-2					122.8	127.2	61.4	65.8			58.5	550	90.1	19.45
160-3					181.3	185.7	90.7	95				825	133	29.17
160-4					240.3	244.7	120.2	124.5				1100	175	38.77
160-5					298.8	303.3	149.4	153.9				1375	207	48.43
160-6					357.4	361.7	178.7	183				1650	244	58.08
160-8					474.4	478.8	237.2	241.6				2200	329	77.39
160-10					591.4	595.8	295.7	300.1				2750	398	102.86

180

SY Chain No. (ANSI)	Dimensions - mm											Average Ultimate Strength	Maximum Allowable Load	Average Chain Weight
	Pitch	Bushing		Pin					Plate		Trans. Pitch			
		Width	Dia.	Dia	Length				Height	Thick.				
	P	W	R	D	LR	LC	L1	L2	H	T	TP	Kn	kN	kg/m
180	57.15	35.7	35.7	17.45	72.5	78.4	36.3	42.1	52.5	7.2	-	353	79.0	13.39
180-2					138.2	144.0	69.1	74.9			65.8	706	98.4	26.62
180-3					204.5	210.2	102.3	107.9				1059	145	39.85
180-4					270.2	275.9	135.1	140.8				1412	191	53.08
180-5					336	341.6	173.6	173.7				1765	226	66.31
180-6					401.8	407.3	200.9	206.4				2118	266	79.54



200

SY Chain No. (ANSI)	Dimensions - mm											Average Ultimate Strength	Maximum Allowable Load	Average Chain Weight
	Pitch	Bushing		Pin					Plate		Trans. Pitch			
		Width	Dia.	Dia	Length				Height	Thick.				
	P	W	R	D	LR	LC	L1	L2	H	T	TP	Kn	kN	kg/m
200	63.5	38.1	39.67	19.83	78.5	87.0	39.3	47.7	59.8	8.0	-	451	93	16.93
200-2					150.2	158.7	75.1	83.6			71.6	902	122	33.73
200-3					221.7	230.2	110.9	119.3				1353	179	50.53
200-4					293.3	302.4	146.7	155.7				1804	236	67.34
200-5					365.5	374	182.8	191.2				2255	279	84.14
200-6					437.1	445.6	218.6	227				2706	329	100.94

240

SY Chain No. (ANSI)	Dimensions - mm											Average Ultimate Strength	Maximum Allowable Load	Average Chain Weight
	Pitch	Bushing		Pin					Plate		Trans. Pitch			
		Width	Dia.	Dia	Length				Height	Thick.				
	P	W	R	D	LR	LC	L1	L2	H	T	TP	Kn	kN	kg/m
240	76.2	47.63	47.63	23.78	96.4	104.1	48.2	55.9	70.3	9.5	-	677	129	23.64
240-2					184.2	191.8	92.1	99.7			87.8	1354	167	47.13
240-3					272	279.6	136.0	143.6				2031	245	70.61
240-4					359.8	367.4	179.9	187.5				2708	324	94.09
240-5					447.6	455.2	223.8	231.4				3385	383	117.56
240-6					535.5	543	267.8	275.2				4062	451	141.06

Feature

Excellent corrosion resistance without plating same strength and working load values as standard chain No hydrogen embrittlement by surface treatment

Results of corrosion resistance test

Salt spray test

EXHIBIT	[illegible]
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[illegible]	[illegible]

Salt spray test

EXHIBIT	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]

Applications

Outdoor service
Sea water applications
Stacking crane, Car parking

Applicable Chains

#40~#240
Attachment chain is available

Purpose of Special surface treatment

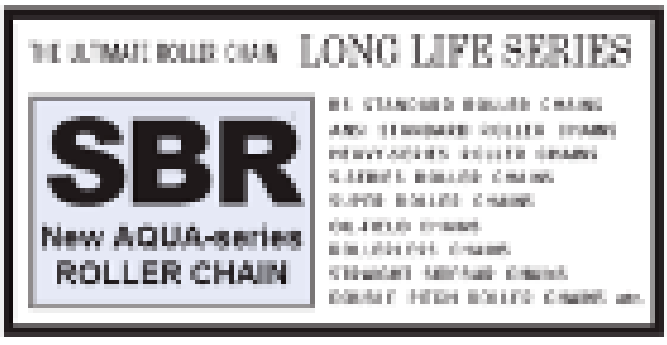
Link plate : for anticorrosion
Other parts : for anticorrosion and to reduce friction

Caution

For the food products industry where the chain may be exposed to direct food contact, stainless steel chain is recommended

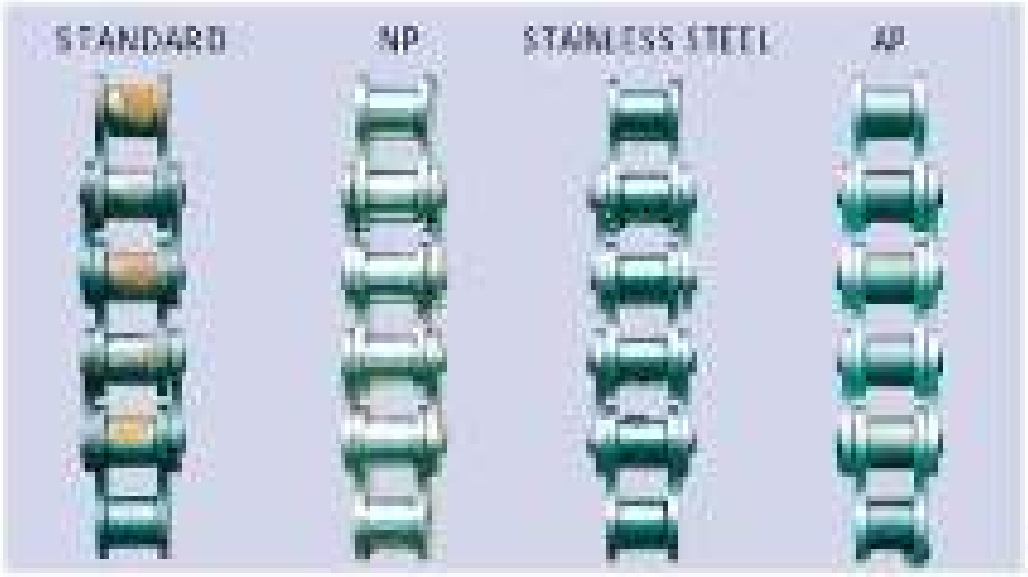
Applicable Chains

SY40AP~SY240AP
Attachment chain is available
For identification, a suffix is added to the chain numbers



Stocking:

BS Simplex	BS-Duplex	AS-Simplex	AS-Duplex	Double Pitch
08B-1AQUA	08B-2AQUA	40-1AQUA	40-2AQUA	C2040-AQUA
100-1AQUA	10B-2AQUA	50-1AQUA	50-2AQUA	-
10B-1AQUA	12B-2AQUA	60-1AQUA	60-2AQUA	C2060H-AQUA
12B-1AQUA	16B-2AQUA	80-1AQUA	-	-
16B-1AQUA	-	-	-	-
20B-1AQUA	-	-	-	-

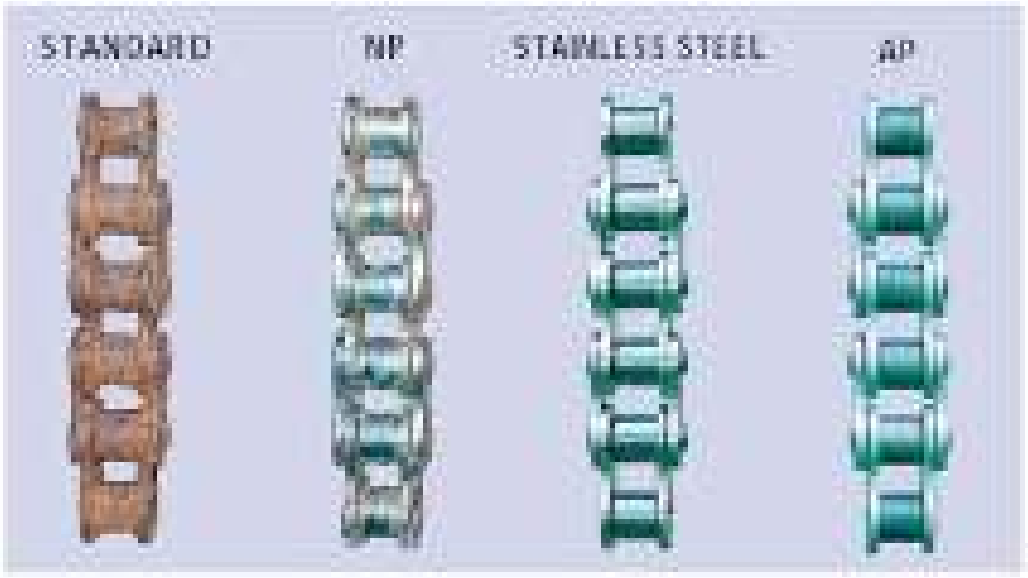


Open air,
splashed water
morning&evening

3days after

Open air,
splashed water
morning&evening

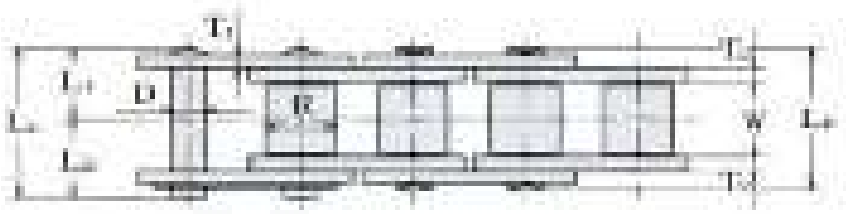
15days after

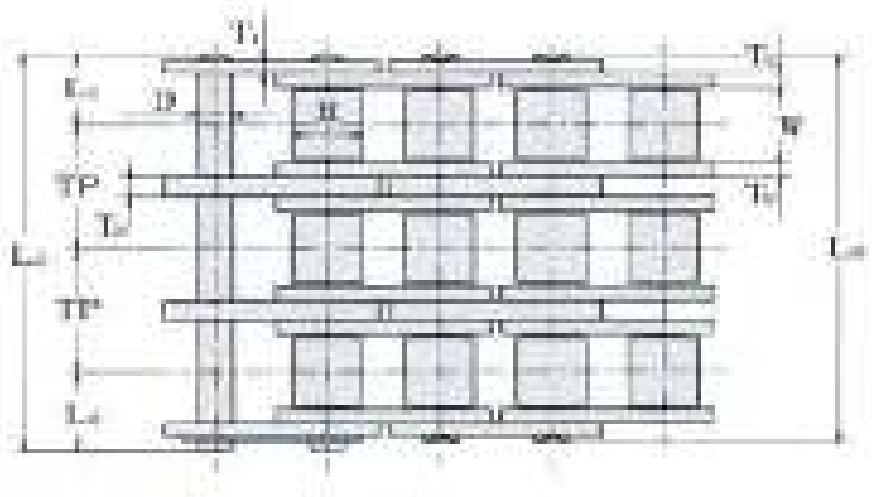


Indoors,
splashed
5%salty water
morning&evening

15days after

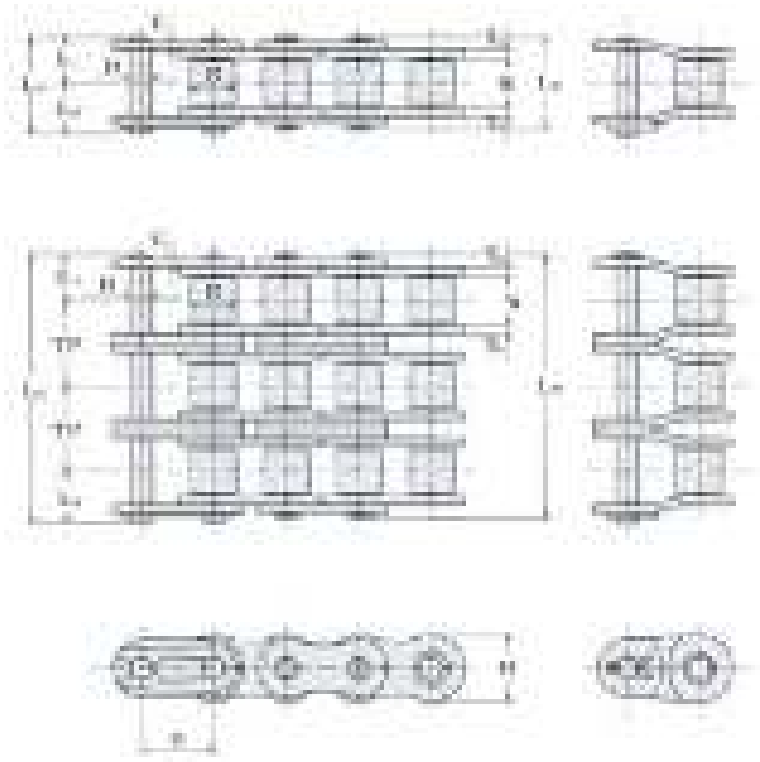
SY BS standard roller chains are standardized in accordance with ISO 606 B and fully inter-changeable with chains manufactured according to BS 228 and DIN 8187.
Supplied, in first type, to European countries as well as replacement on machinery employing BS standard chains.





04, 05B & 06B

SY Chain No. (BS)	Dimensions - mm													Average Ultimate Strength	Maximum Allowable Load	Average Chain Weight
	Pitch	Bushing		Pin					Plate				Trans. Pitch			
		Width	Dia.	Dia	Length				Height	Thick.						
	P	W	R	D	LR	LC	L1	L2	H	T1	T2	T3	TP	Kn	kN	kg/m
04	6	2.8	4	1.85	-	-	-	-	-	-	-	-	-	-	-	-
05B	8	3	5	2.31	-	-	-	-	-	-	-	-	-	-	-	-
05B-2					-	-	-	-	-	-	-	-	-	-	-	-
0 6 B	9.525	5.72	6.35	3.28	12.6	13.4	6.3	7.1	8.2	1.0	1.25	1.6	10.24	8.92	1.7	0.41
0 6 B-2					22.9	23.7								16.9	2.9	0.78
0 6 B-3					33.2	33.7								24.9	4,2	1.18



08B

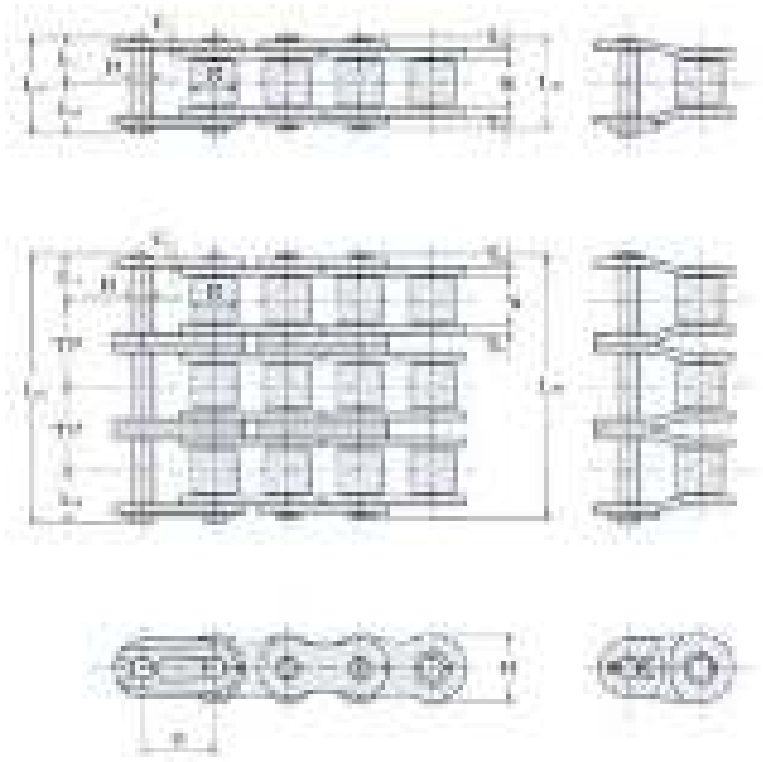
SY Chain No. (BS)	Dimensions - mm												Average Ultimate Strength	Maximum Allowable Load	Average Chain Weight
	Pitch	Bushing		Pin					Plate			Trans. Pitch			
		Width	Dia.	Dia	Length				Height	Thick.					
	P	W	R	D	LR	LC	L1	L2	H	T1	T2	T3	TP	Kn	kN	kg/m
08B*	12.7	7.75	8.51	4.45	16.7	18.2	8.4	9.8	11.8	1.5	-	13.92	17.8	3.14	0.61	0.41
08B-2					30.6	31.9					-		31.1	5.35	1.26	0.78
08B-3					44.5	45.8					-		44.5	7.85	1.88	1.18

* Also stocked in 100ft and 50ft reels.

10B

SY Chain No. (BS)	Dimensions - mm												Average Ultimate Strength	Maximum Allowable Load	Average Chain Weight
	Pitch	Bushing		Pin					Plate			Trans. Pitch			
		Width	Dia.	Dia	Length				Height	Thick.					
	P	W	R	D	LR	LC	L1	L2	H	T1	T2	T3	TP	Kn	kN	kg/m
10B*	15.875	9.65	10.16	5.08	19	20.7	9.5	11.2	14.7	1.65	-	16.59	22.2	4.9	0.89	0.41
10B-2					35.6	37.3					-		44.5	8.33	1.79	0.78
10B-3					52.4	54.4					-		66.7	12.2	2.66	1.18

* Also stocked in 100ft and 50ft reels.



12B

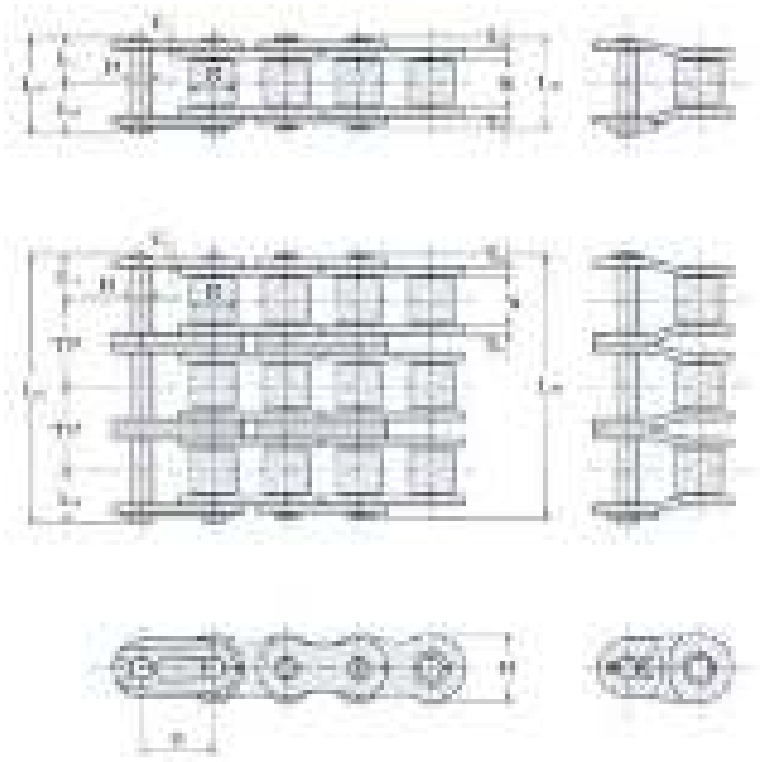
SY Chain No. (BS)	Dimensions - mm												Average Ultimate Strength	Maximum Allowable Load	Average Chain Weight
	Pitch	Bushing		Pin					Plate			Trans. Pitch			
		Width	Dia.	Dia	Length				Height	Thick.					
	P	W	R	D	LR	LC	L1	L2	H	T1	T2	T3	TP	Kn	kN	kg/m
1 2 B*	19.05	11.68	12.07	5.72	22	23.6	11.0	12.6	16.1	1.8	-	19.46	28.9	7.06	1.14	0.41
1 2 B-2					41.6	43.1					-		57.8	12..0	2.28	0.78
1 2 B-3					61.1	62.7					-		86.7	17.6	3.36	1.18

* Also stocked in 100ft and 50ft reels.

16B

SY Chain No. (BS)	Dimensions - mm												Average Ultimate Strength	Maximum Allowable Load	Average Chain Weight
	Pitch	Bushing		Pin					Plate			Trans. Pitch			
		Width	Dia.	Dia	Length				Height	Thick.					
	P	W	R	D	LR	LC	L1	L2	H	T1	T2	T3	TP	Kn	kN	kg/m
1 6 B*	25.4	17.02	15.88	8.26	35.1	38.2	17.6	20.6	21.0	3.2	4.0	31.88	60	16.4	2.59	0.41
1 6 B-2					67.2	70.1							106	21.4	5.13	0.78
1 6 B-3					99.2	102.5							160	31.5	7.68	1.18

*** Also stocked in 100ft and 50ft reels.**

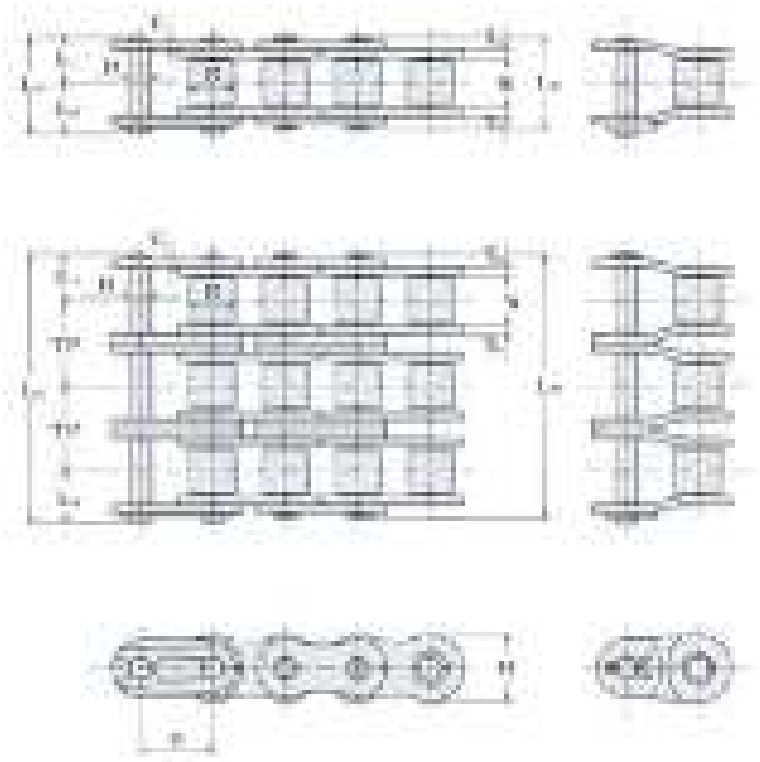


20B

SY Chain No. (BS)	Dimensions - mm												Average Ultimate Strength	Maximum Allowable Load	Average Chain Weight
	Pitch	Bushing		Pin					Plate			Trans. Pitch			
		Width	Dia.	Dia	Length				Height	Thick.					
	P	W	R	D	LR	LC	L1	L2	H	T1	T2	T3	TP	Kn	kN	kg/m
20B	31.75	19.56	19.05	10.16	40.2	44	20.1	23.9	26.4	3.5	4.5	36.45	95	25.5	3.76	0.41
20B-2					76.8	80.6							170	33.3	7.26	0.78
20B-3					113.3	117.2							250	49.0	10.86	1.18

24B

SY Chain No. (BS)	Dimensions - mm												Average Ultimate Strength	Maximum Allowable Load	Average Chain Weight
	Pitch	Bushing		Pin					Plate			Trans. Pitch			
		Width	Dia.	Dia	Length				Height	Thick.					
	P	W	R	D	LR	LC	L1	L2	H	T1	T2	T3	TP	Kn	kN	kg/m
24B	38.1	25.4	25.4	14.63	53.4	58.1	26.7	31.4	33.4	4.8	5.9	48.36	160	35.7	7.29	0.41
24B-2					101.8	106.5							280	46.8	14.53	0.78
24B-3					150.2	154.9							425	68.8	21.76	1.18



28B

SY Chain No. (BS)	Dimensions - mm												Average Ultimate Strength	Maximum Allowable Load	Average Chain Weight
	Pitch	Bushing		Pin					Plate			Trans. Pitch			
		Width	Dia.	Dia	Length				Height	Thick.					
	P	W	R	D	LR	LC	L1	L2	H	T1	T2	T3	TP	Kn	kN	kg/m
28B	44.45	31	27.94	15.88	65.1	70.5	32.6	37.9	37.0	6.3	7.4	59.56	200	44.5	9.26	0.41
28B-2					124.7	130							360	58.3	18.45	0.78
28B-3					184.2	189.6							530	85.8	27.65	1.18

32B

SY Chain No. (BS)	Dimensions - mm												Average Ultimate Strength	Maximum Allowable Load	Average Chain Weight
	Pitch	Bushing		Pin					Plate			Trans. Pitch			
		Width	Dia.	Dia	Length				Height	Thick.					
	P	W	R	D	LR	LC	L1	L2	H	T1	T2	T3	TP	Kn	kN	kg/m
32B	50.8	31.00	29.21	17.81	65.0	71.1	32.5	38.6	42.2	6.3	6.9	58.55	250	51	9.92	0.41
32B-2					123.4	129.7							450	66.6	19.76	0.78
32B-3					182	188.3							670	98	29.61	1.18

SY Double Capacity roller chains possess

Twice the number of link plates and provide almost twice the ultimate strength of standard single strand roller chains. They are primarily designed for high load hoist, pull down, or other tension linkage applications, and operate on standard ASME/ANSI single strand sprockets with hardened teeth.

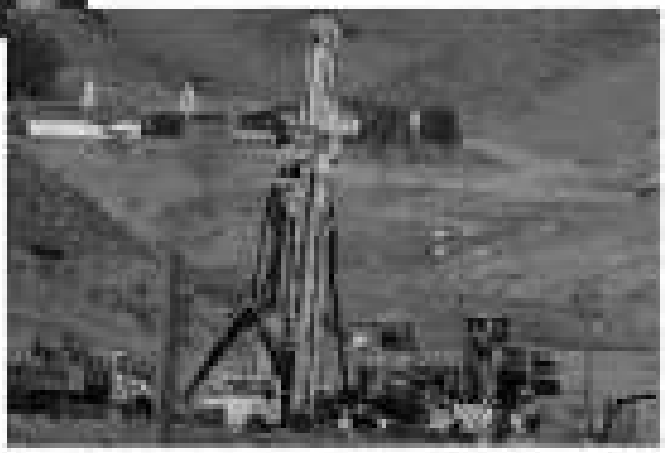
Good for ecology: Lesser number of component parts
Operates in smaller space
Lighter weight
(in comparison with double strand roller chain)

Available for

ANSI / BS Type & Double Pitch Roller Chain

	Double Capacity	Double Strand
Pitch	Same	
Sprocket	Single	Double
Space	Small	Large
Weight	Light	Heavy

All 33 men trapped 2,060 ft below ground were winched to the surface by the rescue capsule.

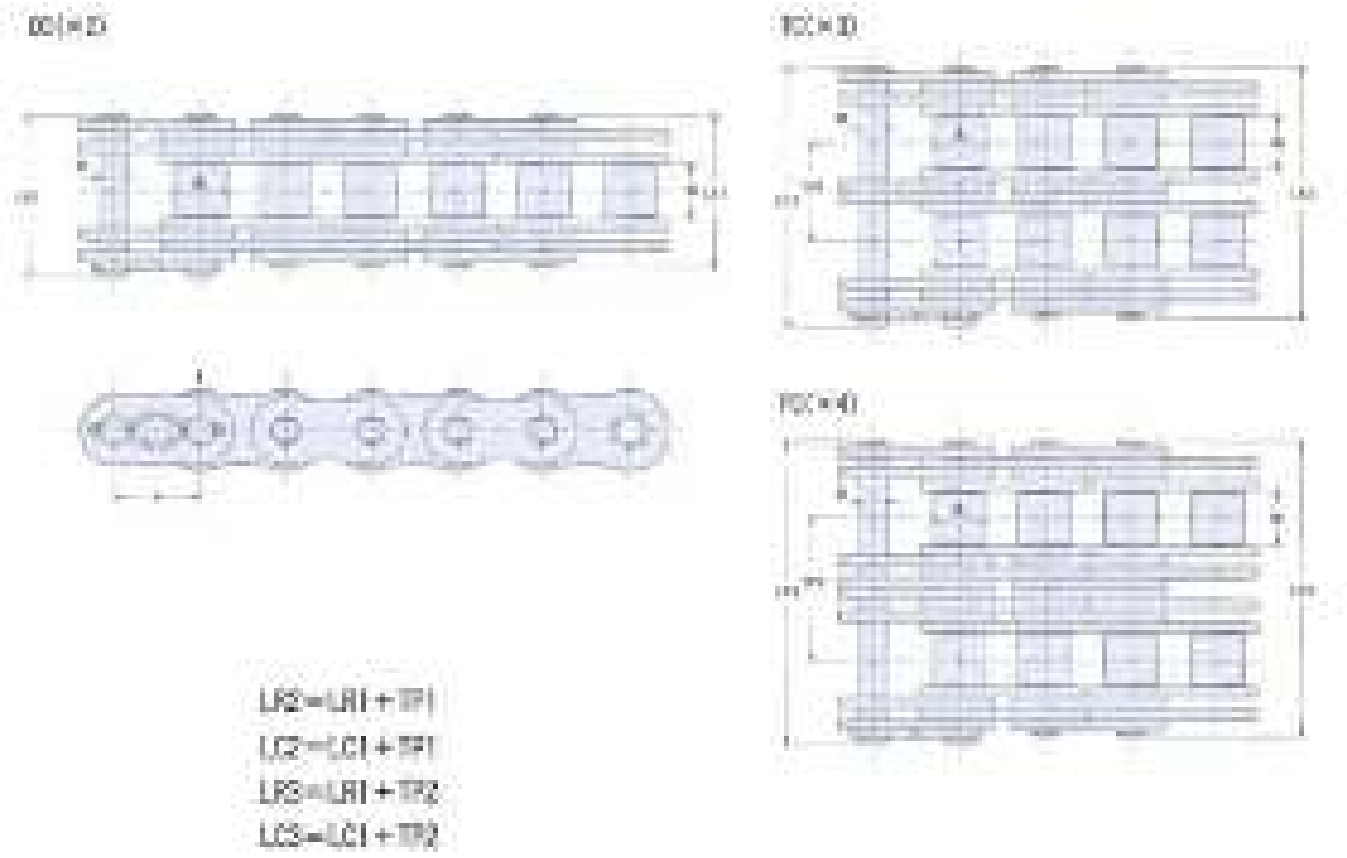


Drilled hole 2,060 ft down to rescue the miners.

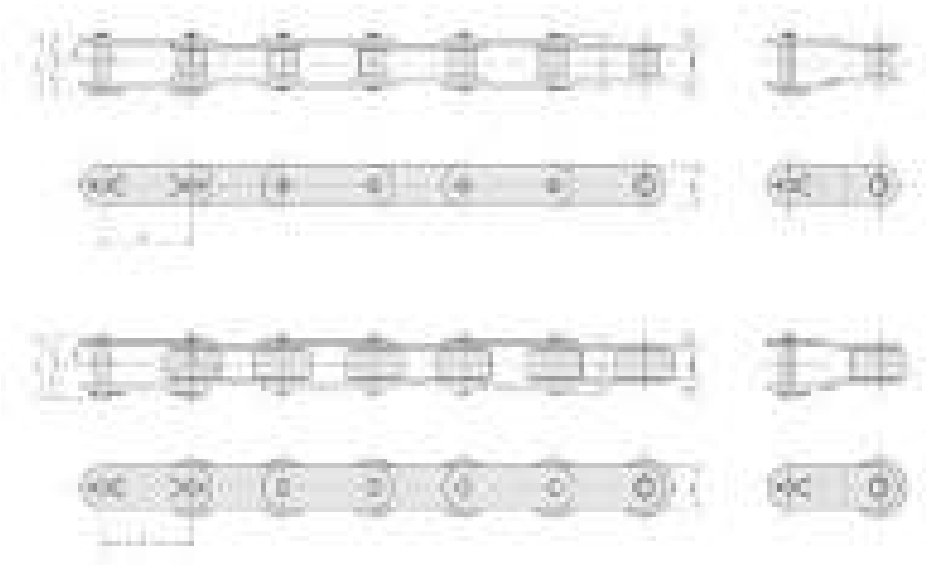
A driving machine installed with SY 180 Double Capacity chain was utilized to drill 8" holes as the 2,060 ft. or so down that found the 33 miners in Chile.

SY Double Capacity Roller Chain(# 180)

Double Capacity Chain is a single strand chain that offers the same ultimate tensile strength as a double strand chain with a saving of 50%.
Double Capacity Chain consists of twice the amount of side plates as single strand chain.



SY Chain No. (ANSI)	Dimensions - mm								Average Ultimate Strength (KN)			Maximum Allowable Load (kN)
	Pitch	Roller		Pin			Transverse Pitch					
		Width	Dia.	Dia	Length							
	P	W	R	D	LR1	LC1	TP1	TP2	DC	TC	FC	DC
100 DC.TC.FC	31.75	19.05	19.05	9.53	55.8	59.5	35.8	51.8	235	352	470	33.5
120 DC.TC.FC	38.1	25.40	22.23	11.10	69.0	73.3	45.4	64.2	343	514	685	49
140 DC.TC.FC	44.45	25.40	25.40	12.70	76.4	81.1	48.9	71.3	451	676	902	64.4
160 DC.TC.FC	50.8	31.70	28.58	14.28	90.0	95.1	58.5	84.1	559	838	1118	79.8
180 DC.TC.FC	57.15	35.70	35.70	17.45	101.6	107.7	65.8	94.6	726	1089	1452	103

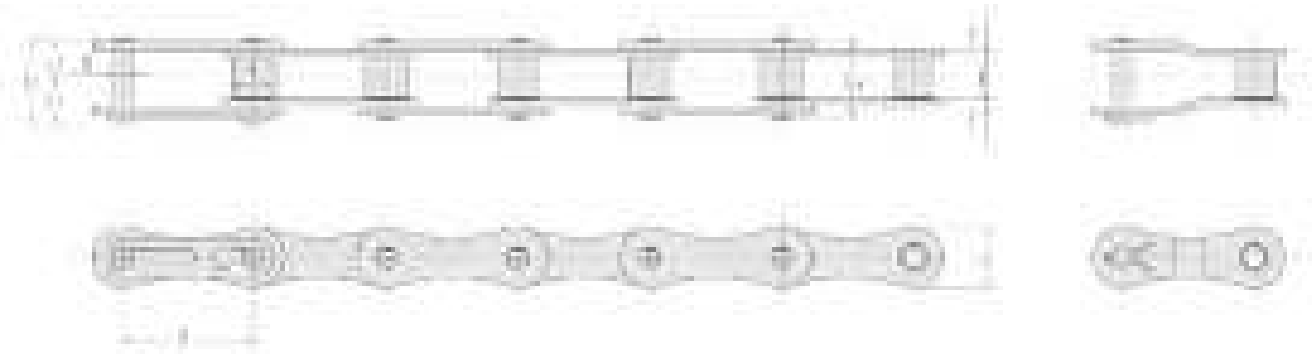


Standard Roller Type

SY Chain No. (ANSI)	Dimensions - mm										Average Ultimate Strength	Maximum Allowable Load	Average Chain Weight
	Pitch	Bushing		Pin					Plate				
		Width	Dia.	Dia	Length				Height	Thick.			
	P	W	R	D	LR	LC	L1	L2	H	T1	Kn	kN	kg/m
C 2 0 4 0	25.40	7.95	7.92	3.96	16.5	18.5	8.2	10.3	11.4	1.5	16.9	3.63	0.48
C 2 0 5 0	31.75	9.53	10.16	5.08	20.4	22.0	10.2	11.8	15.0	2.0	27.5	6.28	0.82
C 2 0 6 0H	38.10	12.70	11.91	5.95	28.7	31.0	14.4	16.6	17.0	3.2	40.2	8.63	1.38
C 2 0 8 0H	50.80	15.88	15.88	7.93	35.5	38.8	17.8	21.0	22.6	4.0	68.6	14.7	2.32
C 2 1 0 0H	63.50	19.05	19.05	9.53	42.2	45.7	21.1	24.6	28.6	4.8	107.9	22.6	3.46
C 2 1 2 0H	76.20	25.40	22.23	11.1	52.6	57.0	26.3	30.7	34.9	5.6	151	30.4	4.92

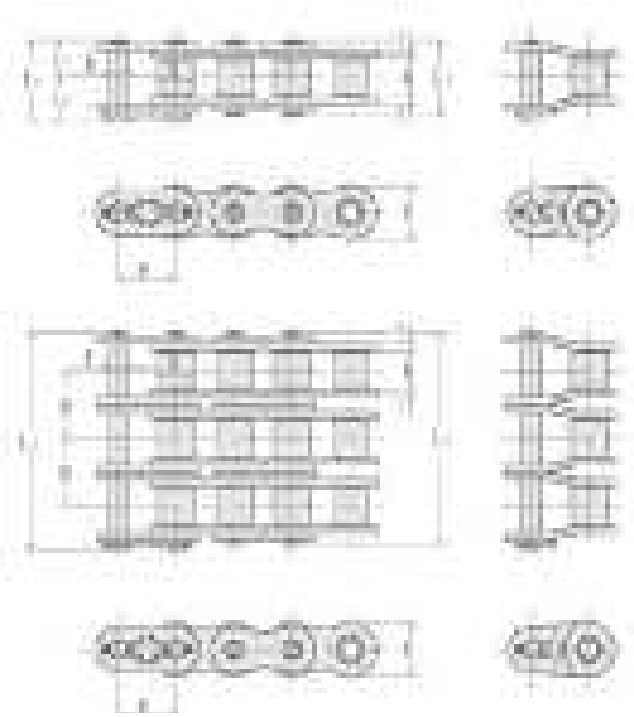
Carrier Roller Type

SY Chain No. (ANSI)	Dimensions - mm										Average Ultimate Strength	Maximum Allowable Load	Average Chain Weight
	Pitch	Bushing		Pin					Plate				
		Width	Dia.	Dia	Length				Height	Thick.			
	P	W	R	D	LR	LC	L1	L2	H	T1	Kn	kN	kg/m
C 2 0 4 2	25.4	7.95	15.88	3.96	16.5	18.5	8.2	10.3	11.4	1.5	16.9	3.63	0.82
C 2 0 5 2	31.75	9.53	19.05	5.08	20.4	22.0	10.2	11.8	15.0	2.0	27.5	6.28	1.26
C 2 0 6 2H	38.1	12.7	22.23	5.95	28.7	31	14.4	16.6	17.0	3.2	40.2	8.63	2.08
C 2 0 8 2H	50.8	15.88	28.58	7.93	35.5	38.8	17.8	21	22.6	4.0	68.6	14.7	3.36
C 2 1 0 2H	63.5	19.05	39.67	9.53	42.2	45.7	21.1	24.6	28.6	4.8	107.9	22.6	5.64
C 2 1 2 2H	76.2	25.4	44.45	11.1	52.6	57	26.3	30.7	34.9	5.6	151	30.4	7.87



Drive Series

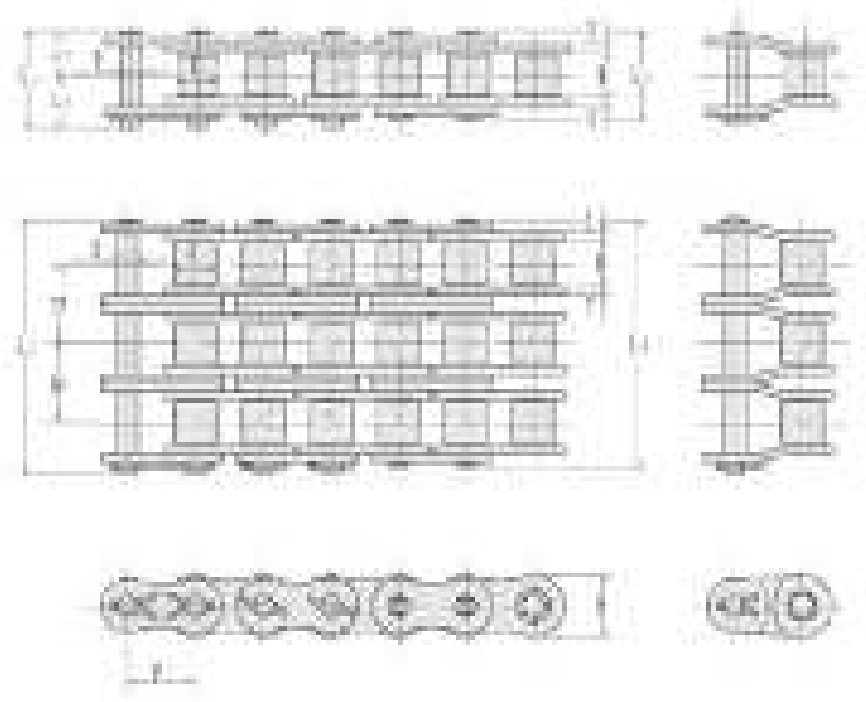
SY Chain No. (ANSI)	Dimensions - mm										Average Ultimate Strength	Maximum Allowable Load	Average Chain Weight
	Pitch	Bushing		Pin					Plate				
		Width	Dia.	Dia	Length				Height	Thick.			
	P	W	R	D	LR	LC	L1	L2	H	T1	Kn	kN	kg/m
A 2040	25.4	7.95	7.92	3.96	16.5	17.9	8.3	9.6	11.4	1.5	16.9	3.63	0.43
A 2050	31.75	9.53	10.16	5.08	20.4	22	10.2	11.8	15.0	2.0	27.5	6.28	0.73
A 2060	38.1	12.7	11.91	5.95	25.5	26.9	12.8	14.1	17.0	2.4	40.2	8.63	1.03



SY Heavy series roller chains are designed with thicker side plates to insure greater capacity for absorbing shock loads without fatigue failure of side plates. Also manufactured to close tolerances in accordance with ANSI specifications and are mainly used for applications where space and design limitations prohibit the use of a large size roller chain and yet greater load carrying capacities are needed in oil field drilling operations.

SY Chain No. (ANSI)	Dimensions - mm											Average Tensile Strength	Maximum Allowable Load	Average Chain Weight
	Pitch	Bushing		Pin					Plate		Trans. Pitch			
		Width	Dia.	Dia	Length				Height	Thick.				
	P	W	R	D	LR	LC	L1	L2	H	T	TP	Kn	kN	kg/m
60HE	19.05	12.7	11.91	5.95	-	-	-	-	17.5	3.2	26.1	50.0	10.7-	-
80HE	25.4	15.88	15.88	7.93	36.4	38.8	17.8	21.0	23.4	4	32.6	93.2	18.4	2.80
100HE	31.75	19.05	19.05	9.53	42.4	45.9	21.2	24.7	29.3	4.8	39.1	142	28.3	4.14
120HE	38.10	25.40	22.23	11.1	52.8	57.2	26.4	30.8	35.1	5.6	48.9	191	38	5.83
140HE	44.45	"25.40	"25.40	12.70	57.2	61.8	28.6	33.2	40.9	6.4	52.2	252	50.30	7.41
160HE	50.80	31.75	28.58	14.28	67.9	73.0	34.0	39.0	46.7	7.2	61.9	319	66.30	10.86

SY H-series roller chains are provided with greater shock and wear resistance and high breaking strength for general purpose applications. The side plate thickness is equal to the next larger ANSI roller chains and through-hardened high-tensile structural steel pins realize strong power transmission in limited equipment space, showing excellent shock absorption and fatigue strength and high ultimate strength of as much as 110-120 percent.
Single roller chains of this series run on standard single roller chain sprockets.



Single Strands

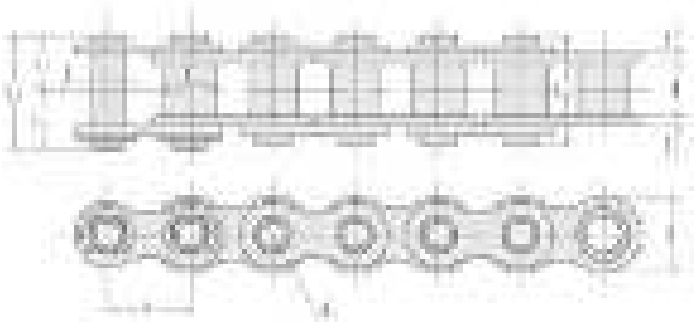
SY Chain No. (ANSI)	Dimensions - mm											Average Ultimate Strength	Maximum Allowable Load	Average Chain Weight
	Pitch	Bushing		Pin					Plate		Trans. Pitch			
		Width	Dia.	Dia	Length				Height	Thick.				
	P	W	R	D	LR	LC	L1	L2	H	T	TP	Kn	kN	kg/m
50H*	15.875	9.53	10.16	5.09	-	-	-	-	-	-	-	-	-	-
60H*	19.05	12.7	11.91	5.95	28.8	30.8	14.4	16.4	17.5	3.2	54.9	10.7	1.8	
80H*	25.4	15.88	15.88	7.93	35.7	38.7	17.9	20.8	23.4	4	90.2	18.4	2.81	
100H	31.75	19.05	19.05	9.53	42.4	45.9	21.2	24.7	29.3	4.8	137	28.3	4.14	
120H	38.1	25.4	22.23	11.1	52.8	57.2	26.4	30.8	35.1	5.6	186	38	5.83	
140H	44.45	25.4	25.4	12.7	57.2	61.8	28.6	33.2	40.9	6.4	241	50.3	8.41	
160H	50.8	31.75	28.58	14.28	67.9	73	34	39	46.7	7.2	306	66.3	10.86	
180H	57.15	35.7	35.7	17.45	75.6	81.5	37.8	43.7	52.5	8	373	70.6	15.18	

*Also stocked in 100ft and 50ft reels

Multiple Strands

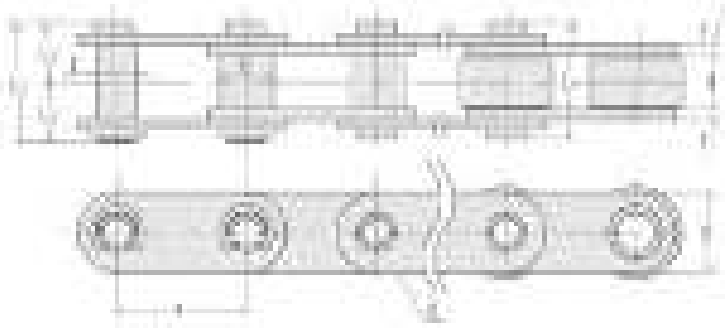
SY Chain No. (ANSI)	Dimensions - mm											Average Ultimate Strength	Maximum Allowable Load	Average Chain Weight
	Pitch	Bushing		Pin					Plate		Trans. Pitch			
		Width	Dia.	Dia	Length				Height	Thick.				
	P	W	R	D	LR	LC	L1	L2	H	T	TP	Kn	kN	kg/m
100H -2	31.75	19.05	19.05	9.53	81.6	85.0	40.8	44.2	29.3	4.8	39.1	274	39.1	8.20
120H-2	38.10	25.40	22.23	11.1	102.0	106.1	51.0	55.1	35.1	5.6	48.9	372	53.4	11.56
140H -2	44.45	25.40	25.40	12.70	109.4	114.0	54.7	59.3	40.9	6.4	52.2	482	70.0	16.59

SY Hollow pin chains are identical to ANSI roller chains, and run on standard ANSI sprockets. The unique hollow pin feature provides unlimited conveyor versatility, allowing easy insertion of cross rods or attachments to pre-assembled chain at desired spacing.
For identification, the suffix HP is added to the chain numbers.



SY Chain No. (ANSI)	Dimensions - mm										Transverse Pitch	Average Ultimate Strength	Maximum Allowable Load	Average Chain Weight
	Pitch	Bushing		Pin					Plate					
		Width	Dia.	Dia	Length				Height	Thick.				
	P	W	R	D	LR	LC	L1	L2	H	T1	TP	Kn	kN	kg/m
40-HP	12.70	7.95	7.92	6.63	4.03	16.7	17.6	8.4	9.2	12	1.5	12.7	1.77	58
50-HP	15.875	9.53	10.16	7.09	5.13	20.1	21.3	10.1	11.2	15	2	19.6	3.14	0.97
60-HP	19.05	12.7	11.91	8.29	6.04	26	27.2	13	14.2	18.1	2.4	28.4	4.22	1.46
80-HP	25.40	15.88	15.88	11.34	8.08	32.4	34.3	16.2	18.1	24.1	3.2	51	7.65	2.47

SY Hollow pin chains with roll link parts are quality chains functioning rationally, combining both advantages of hollow pin chains and self-lube chains. Available on the same sprockets as double-pitch roller chains.



SY Chain No. (ANSI)	Dimensions - mm										Transverse Pitch	Average Ultimate Strength	Maximum Allowable Load	Average Chain Weight
	Pitch	Bushing		Pin					Plate					
		Width	Dia.	Dia	Length				Height	Thick.				
	P	W	R	D	LR	LC	L1	L2	H	T1	TP	Kn	kN	kg/m
C 2040 -HP	25.40	7.95	7.92	5.63	4.03	16.7	17.6	8.4	9.2	12.0	1.5	12.7	1.77	0.46
C 2050 -HP	31.75	9.53	10.16	7.09	5.13	20.1	21.3	10.1	11.2	15	2.0	19.6	3.14	0.76
C 2060 - HP	38.1	12.7	11.91	8.29	6.04	26	27.2	13	14.2	18.1	2.4	28.4	4.22	1.12
C 2080 -HP	50.8	15.88	15.88	11.34	8.08	32.4	34.3	16.2	18.1	24.1	3.2	51.0	7.65	1.98
C 2042 -HP	25.40	7.95	15.88	5.63	4.03	16.7	17.6	8.4	9.2	12.0	1.5	12.7	1.77	0.81
C 2052 -HP	31.75	9.53	19.05	7.09	5.13	20.1	21.3	10.1	11.2	15.0	2.0	19.6	3.14	1.25
C 2062 -HP	38.10	12.70	22.23	8.29	6.04	26.0	27.2	13	14.2	18.1	2.4	28.4	4.22	1.79
C 2082 -HP	50.80	15.88	28.58	11.34	8.08	32.4	34.3	16.2	18.1	24.1	3.2	51.0	7.65	3.17
C 2082H -HP	50.80	15.88	28.58	11.34	8.08	35.8	37.7	17.9	19.8	24.1	4.0	58.0	7.65	3.22

SY Leaf chains are well suited for any application requiring flexible, high strength linkage for reciprocating motion or lift at relatively low speed. For their low cost and long life, widely used for lift trucks, mass and other lifting as construction and mining machines and excellent as balance and counterweights of machine tools and so forth.

CONSTRUCTION AND LACING COMBINATIONS

Built of interlaced plates held together by riveted pins. The chain nomenclature indicates the lacing combinations.

AL SERIES (LIGHT DUTY)

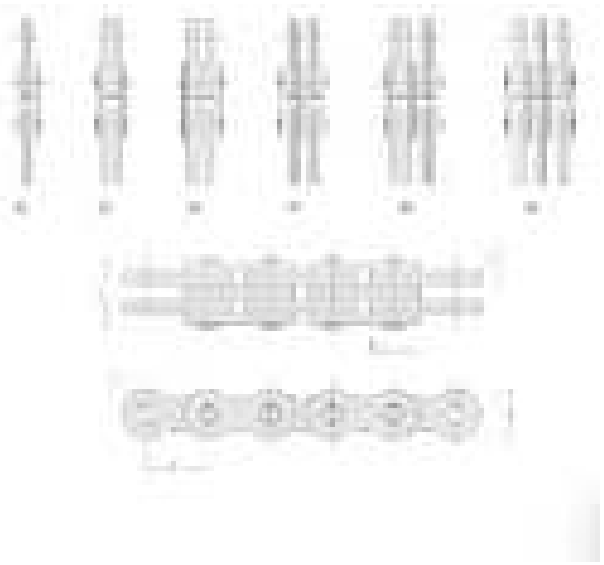
Consisting of link plates of the same contour and thickness as the pin link plates of ANSI roller chains in same pitch. Mainly used for relatively constant, low, medium load with less shock.

BL SERIES (HEAVY DUTY)

Consisting of link plates with most large size pitch chain of ANSI roller chains. Chiefly used for medium load with greater shock.

LL SERIES (ISO 606)

Consisting of link plates of the same contour and thickness as the pin link plates of BS roller chain, in same pitch.



SY Chain No. (ANSI)	Lacing	Dimensions - mm						Average Ultimate Strength	Maximum Allowable Load	Average Chain Weight
		Pitch	Pin				Hole Dia			
			Dia.	Length	Height	Thickness				
		P	D	L	H	T	S	kN	kN	kg/m
AL 644	4×4	19.05	5.95	22.2	15.2	2.4	6.04	86.3	7.45	1.68
AL 844	4×4 6×6	25.4	7.93	29.4 43.0	20.2	3.2	8	145 218	13.2 15.4	2.88 4.23
AL 866										
AL 1066	6×6	31.75	9.53	53.5	24.5	4	9.59	324	24.0	7.24
AL 1244	4×4	38.1	11.1	43.7	29.2	4.8	11.22	304	29.1	6.58
AL 1666	6×6	50.8	14.28	84.8	40.3	6.4	14.47	809	58.8	18.87

BL Series Leaf Chain

SY Chain No. (ANSI)	Lacing	Dimensions - mm						Average Ultimate Strength	Maximum Allow-able Load	Average Chain Weight
		Pitch	Pin				Hole Dia			
			Dia.	Length	Height	Thickness				
		P	D	L	H	T	S	kN	kN	kg/m
BL 466	6×6	12.7	5.08	27.5	11.7	2.0	5.15	82.5	9.81	1.89
BL 534	3 x 4	15.875	5.95	20.0	14.6	2.4	6.04	64.0	8.33	1.61
BL 544	4 x 4			22.2				85.3	9.41	1.80
BL 566	6 x 6			32.4				127	15.7	2.65
BL 623	2×3	19.05	7.93	19.5	17.5	3.2	8.00	70.6	9.81	1.89
BL 634	3×4			26.2				106	12.3	2.68
BL 644	4×4			29.2				141	13.7	3.04
BL 646	4×6			36.5				141	13.7	4.15
BL 666	6×6			43.0				212	24.5	4.58
BL 822	2×2	25.4	9.53	19.6	24.1	4	9.59	114	17.0	2.57
BL 823	2×3			23.8				114	17.0	3.17
BL 834	3×4			32.5				172	20.6	4.37
BL 844	4×4			36.2				228	23.5	4.95
BL 846	4×6			45.0				228	23.5	6.23
BL 866	6×6			53.5				342	40.2	7.44
BL 1034	3×4	31.75	11.1	38.7	29.3	4.8	11.2	245	31.4	6.50
BL 1044	4×4			43.7				314	36.3	7.41
BL 1046	4×6			53.4				314	36.3	9.21
BL 1066	6×6			63.4				471	58.8	11.07
BL 1234	3×4	38.1	12.7	45.5	35.1	5.6	12.82	332	44.1	9.05
BL 1244	4×4			51.2				414	50.5	10.27
BL 1246	4×6			62.6				414	50.5	11.86
BL 1266	6×6			73.6				621	73.1	14.40
BL 1466	6×6	44.45	14.28	84.8	40.9	6.4	14.39	810	95.1	22.33
BL 1644	4×4	50.8	17.45	65.9	46.7	7.2	17.62	785	80.4	18.85
BL 1666	6×6			96.2				1176	137.3	28.54
BL 1688	8 x 8			-				-	-	-

Side Bow Chain

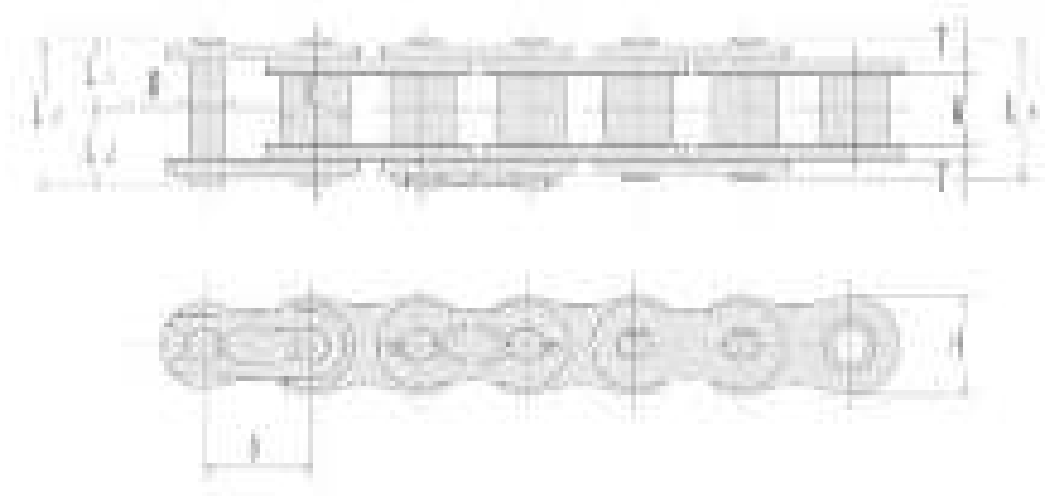
SY Side Bow chains provide extra clearance between pins, bushings, and link plates to allow freedom of operation around a curve or twist. The basic dimensions and quality are the same as those of ANSI standard roller chains. Side bow chain is widely used for live roll conveyors, and with attachments to convey material around curves. For identification, the suffix SB is added the number.

SY Chain No. (ANSI)	Pitch	Dimensions - mm										Min. Curve Radius	Average Ultimate Strength	Maximum Allowable Load	Average Chain Weight
		Bushing		Pin					Plate						
		Width	Dia.	Dia	Length				Height	Thick.					
	P	W	R	D	LR	LC	L1	L2	H	T1	T2	r	Kn	kN	kg/m
SY 40SB	12.70	7.95	7.92	3.58	16.9	18.9	8.5	10.4	11.7	1.5	350	14.9	1.77	0.63	0.7

SLR SERIES

Sintered Steel Bushing

Maintenance Free - Self Lubricating Chain



Reduced maintenance costs through oil impregnated sintered steel bush providing self lubrication.
Ideal for chain drives in industries such as food processing, printing, packaging and textile and materials

SY Chain No. (BS)	Dimensions - mm													Average Ultimate Strength	Maximum Allowable Load	Average Chain Weight
	Pitch	Bushing		Pin					Plate				Trans. Pitch			
		Width	Dia.	Dia	Length				Height	Thick.						
	P	W	R	D	LR	LC	L1	L2	H	T1	T2	T3	TP	Kn	kN	kg/m
08B-SLR	12.70	7.75	8.51	4.45	16.7	18.0	8.4	9.6	11.8	1.5	1.5	-	-	16.8	2.9	0.6
10B-SLR	15.875	9.65	10.16	5.08	19.4	20.7	9.7	11.0	14.5	1.65	1.65	-	-	24.6	4.4	0.9
12B-SLR	19.05	11.68	12.07	5.72	22.0	23.6	11.0	12.6	17.4	1.8	1.8	-	-	32.4	6.3	1.1
16B-SLR	25.40	17.02	15.87	8.26	35.2	38.2	17.6	20.6	21.0	3.1	3.9	-	-	74.6	12.2	2.6

SY Chain No. (ANSI)	Dimensions - mm												Average Ultimate Strength	Maximum Allowable Load	Average Chain Weight
	Pitch	Bushing		Pin					Plate			Trans. Pitch			
		Width	Dia.	Dia	Length				Height	Thick.					
	P	W	R	D	LR	LC	L1	L2	H	T1	T2	TP	Kn	kN	kg/m
40-SLR	2.70	7.95	7.92	3.96	17.5	19.0	8.6	10.2	11.7	1.5	2.0	-	19.1	3.65	0.7
50-SLR	15.875	9.53	10.16	5.08	21.3	23.2	10.7	12.6	14.6	2.0	2.4	-	31.9	6.28	1.1
60-SLR	9.05	12.70	11.91	5.95	27.4	29.8	13.7	16.1	17.5	2.4	3.2	-	43.1	8.63	1.7
80-SLR	25.40	15.88	15.88	7.03	34.1	37.4	17.1	20.3	23.4	3.2	4.0	-	78.5	14.7	2.7

SS series stainless steel roller chains provide excellent corrosion protection against low or high temperature, acid, alkali, moisture, scale, oil and magnetism.

SS series stainless steel roller chains are manufactured in accordance with the dimensions ANSI standards.

INTRODUCTION OF SY NEW HIGH POWER NEW SSS SERIES PRODUCTS

SSS series stainless steel roller chains with solid rollers.

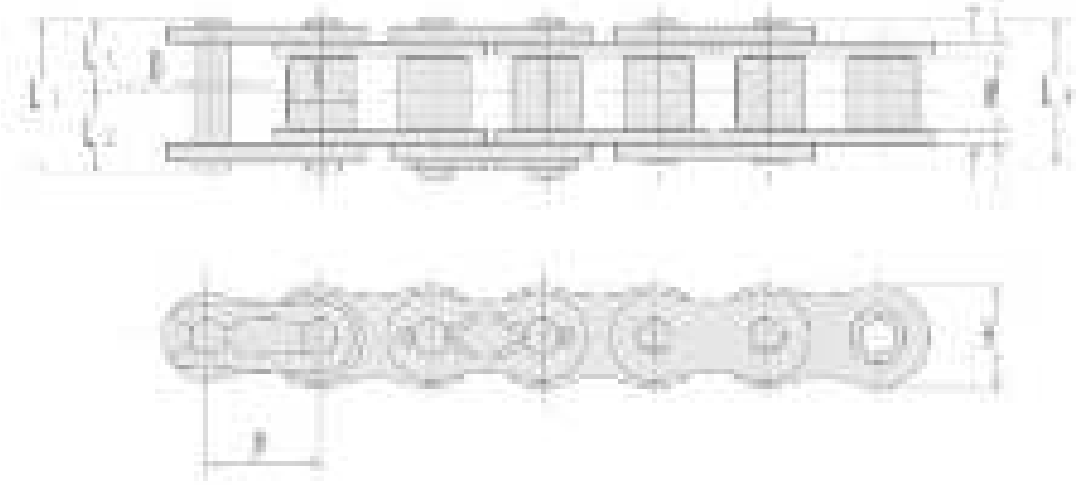
Anti-magnetic of solid roller has superior permeability than the common curled roller.

High Power New SSS Chain use a specially treated pin and roller.

Extremely long life is engaged by this surface treatment.

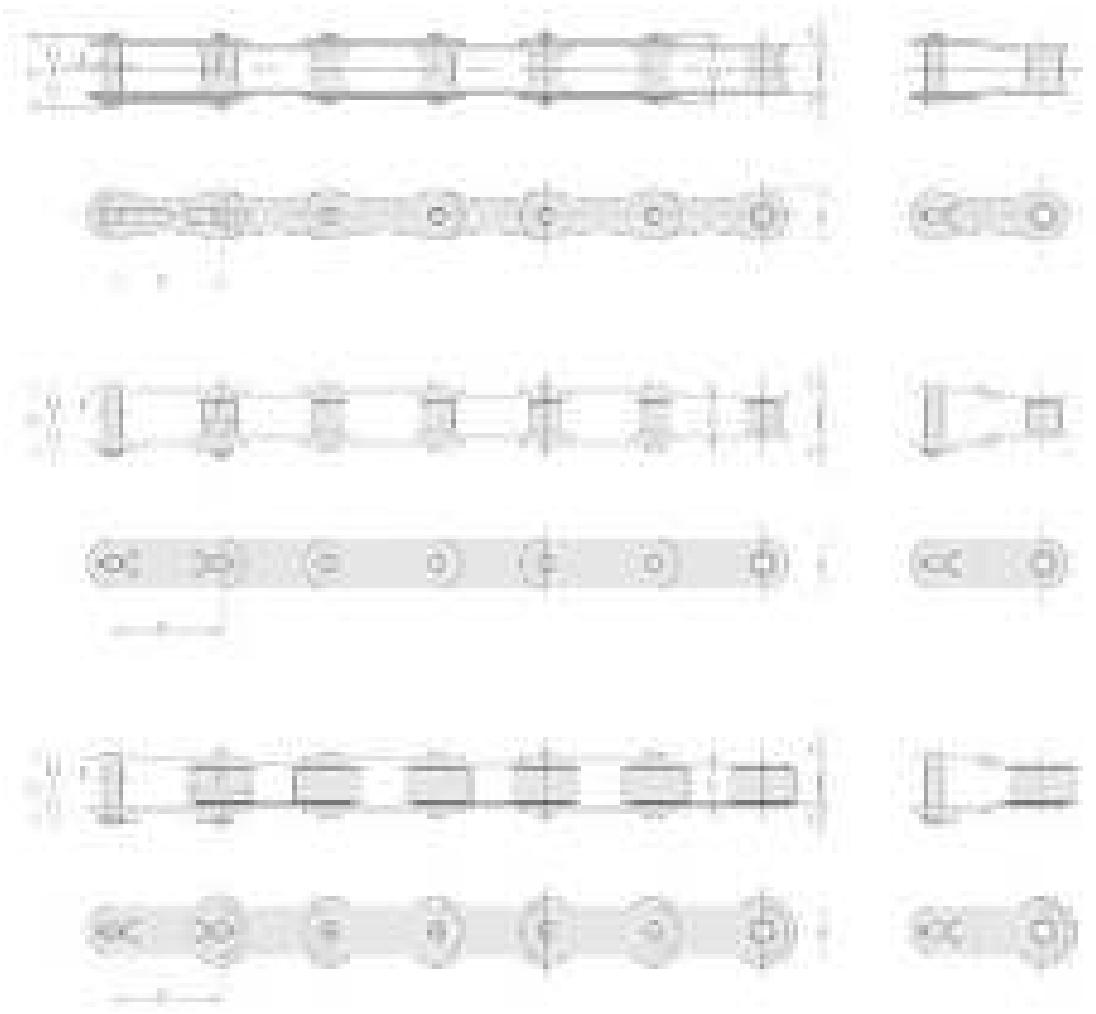
SSS series chain life is more than 2 times longer than that of normal SS series Chain.

50% Higher Allowable Loads



BS AND ANSI STAINLESS STEEL CHAIN

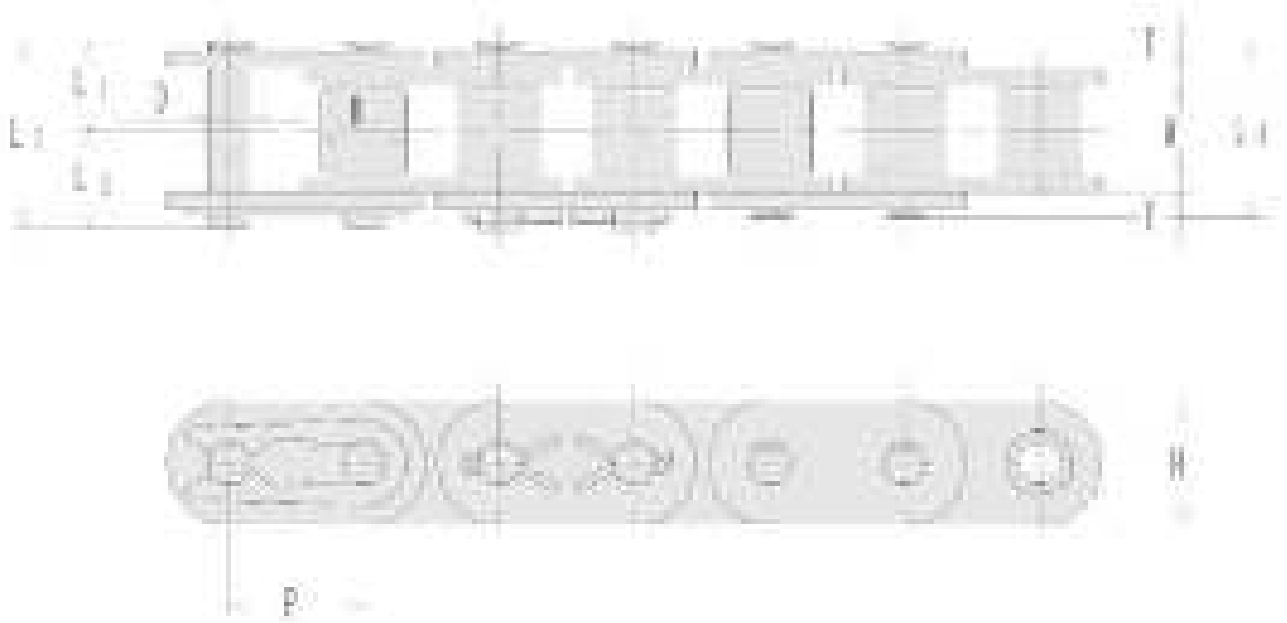
SY Chain No. (BS)	Dimensions - mm										Minimum Ultimate Strength	Maximum Allowable Load	Average Chain Weight
	Pitch	Roller		Pin					Plate				
		Width	Dia.	Dia	Length				Height	Thick.			
	P	W	R	D	LR	LC	L1	L2	H	T1	Kn	kN	kg/m
06 B -SS	9.525	5.72	6.35	3.28	12.6	13.4	6.3	7.1	8.2	1.0/1.25	6.18	0.27	0.43
08 B -SS	12.7	7.75	8.51	4.45	16.7	18	8.4	9.6	11.8	1.5	10.3	0.52	0.61
10 B -SS	15.875	9.65	10.16	5.08	19	20.7	9.5	11.2	14.7	1.65	15.7	0.68	0.89
12 B -SS	19.05	11.68	12.07	5.72	22	23.6	11	12.6	16.1	1.8	18.1	0.88	1.14
16 B -SS	25.4	17.02	15.88	8.26	35.1	38.2	17.6	20.6	20.3	3.2/4.0	42.2	2.06	2.59
ANSI	P	W	R	D	LR	LC	L1	L2	H	T1 / T2	kN	Kn	kg/m
35 -SS	9.525	4.78	5.08	3.58	12.2	13.7	6.1	7.6	9.0	1.25	5.68	0.26	0.34
40 -SS	12.70	7.95	7.92	3.96	16.9	18.5	8.5	10	11.7	1.5	11.1	0.44	0.60
50 -SS	15.875	9.53	10.16	5.08	20.8	22.3	10.4	11.9	14.6	2.0	17.6	0.68	0.98
60 -SS	19.05	12.7	11.91	5.95	26	27.9	13	14.9	17.5	2.4	24.5	1.03	1.46
80 -SS	25.40	15.88	15.88	7.93	32.8	35.5	16.4	19.1	23.4	3.2	42.3	1.77	2.52



DOUBLE PITCH STAINLESS STEEL CHAIN

SY Chain No. (ANSI)	Dimensions - mm										Minimum Ultimate Strength	Maximum Allowable Load	Average Chain Weight
	Pitch	Roller		Pin					Plate				
		Width	Dia.	Dia	Length				Height	Thick.			
	P	W	R	D	LR	LC	L1	L2	H	T1	Kn	kN	kg/m
C 2040 -S S	25.4	7.95	7.92	3.96	16.9	18.5	8.5	10	11.4	1.5	12.4	0.44	0.48
C 2050 -S S	31.75	9.53	10.16	5.08	20.8	22.3	10.4	11.9	15	2	20.3	0.68	0.82
C 2060H -S S	38.1	12.7	11.91	5.95	28.8	30.9	14.4	16.5	17	3.2	27.4	1.03	1.38
C 2080H -S S	50.8	15.88	15.88	7.93	35.7	38.8	17.9	20.9	22.6	4	47.1	1.77	2.32
C 2042 -S S	25.4	7.95	15.88	3.96	16.9	18.5	8.5	10	11.4	1.5	12.4	0.44	0.82
C 2052 -S S	31.75	9.53	19.05	5.08	20.8	22.3	10.4	11.9	15.0	2.0	20.3	0.68	1.26
C 2062H -S S	38.10	12.70	22.23	5.95	28.8	30.9	14.4	16.5	17.0	3.2	27.4	1.03	2.08

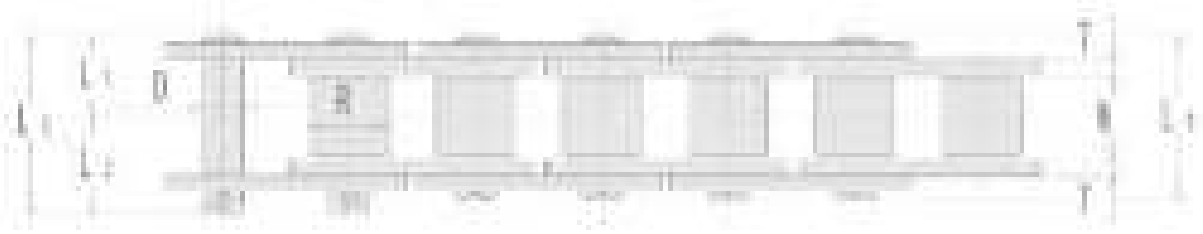
SY ANSI straight sidebar chains are identical with ANSI standard chains except for the straight side plates. Provided with higher fatigue resistance than the standard chains.
Sprockets for ANSI standard chains may be used for these chains. For identification, a suffix of F is added to the standard chain numbers as listed below.

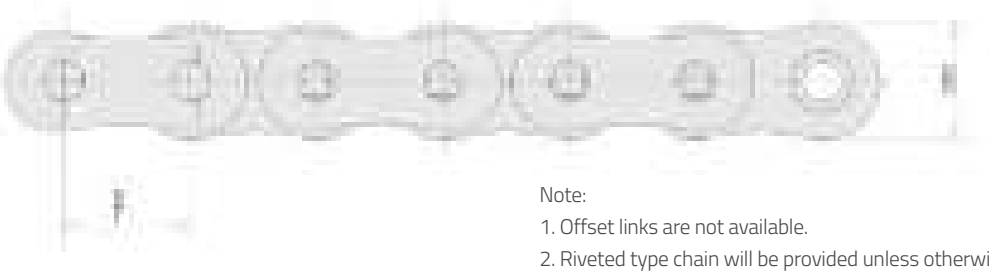


SY Chain No. (ANSI)	Dimensions - mm										Minimum Ultimate Strength	Maximum Allowable Load	Average Chain Weight	Type of Conn link
	Pitch	Roller		Pin					Plate					
		Width	Dia.	Dia	Length				Height	Thick.				
	P	W	R	D	LR	LC	L1	L2	H	T1	Kn	kN	kg/m	spcl
35F	9.525	4.78	5.08	3.58	12.0	12.9	6.0	6.9	9.0	1.25	10.8	2.23	0.38	Spcl
40F	12.7	7.95	7.92	3.96	16.5	17.7	8.3	9.4	11.7	1.5	19.1	4.17	0.67	-
50F	15.875	9.53	10.16	5.08	20.4	21.9	10.2	11.7	14.6	2	31.9	7.22	1.1	-
60F	19.05	12.7	11.91	5.95	25.5	26.9	12.8	14.1	17.5	2.4	43.1	10.7	1.63	-
80F	25.4	15.88	15.88	7.93	32.8	35.0	16.4	18.6	23.4	3.2	78.5	18.4	2.82	C
100F	31.75	19.05	19.05	9.53	39.4	43.0	19.7	23.3	29.3	4.0	118	28.3	4.37	-
120F	38.1	25.4	22.23	11.1	49.5	53.4	24.8	28.6	35.1	4.8	167	38	6.45	-
140F	44.45	25.4	25.4	12.7	54.0	58.3	27.0	31.3	40.9	5.6	216	50.3	8.29	-
160F	50.8	31.75	28.58	14.28	65.3	68.7	32.2	36.5	46.7	6.4	275	66.3	103.96	-
200F	63.5	38.1	39.67	19.83	78.5	87.0	39.3	47.7	59.8	8.0	451	82.3	18.96	-
240F	76.2	47.63	47.63	23.78	96.4	104.1	48.2	55.9	70.3	9.5	677	112.8	26.47	-

SY Super standard series roller chains are developed to offer you longer service life , thus leading to labor-savings. Thorough consideration in fitting portions and the used high-grade special alloy steel components ensure the chain's greater resistance of fatigue and shock. Operative on standard roller chain sprockets.

SY super heavy series roller chains provided with link plates of next larger chain size promise you higher performance and superior quality.





Note:

1. Offset links are not available.
2. Riveted type chain will be provided unless otherwise specified. Cottered type chain will be provided upon request.
3. Press-fitted type connecting links will be supplied.

STRANDS

SY Chain No. (ANSI)	Dimensions - mm										Minimum Ultimate Strength	Maximum Allowable Load	Average Chain Weight
	Pitch	Roller		Pin					Plate				
		Width	Dia.	Dia	Length				Height	Thick.			
	P	W	R	D	LR	LC	L1	L2	H	T1	Kn	kN	kg/m
SUPER 80H*	25.4	15.88	15.88	7.93	35.9	38.9	18.0	20.9	24.1	4.0	98.1	20.6	3.33
SUPER 100H*	31.75	19.05	19.05	9.53	42.6	46.2	21.3	24.9	30.1	4.8	145	32.4	4.88
SUPER 120H	38.1	25.4	2223	11.1	52.8	57.3	26.4	30.9	36.2	5.6	196	42.2	6.94
SUPER 140H	44.45	25.4	25.4	12.7	57.2	61.9	28.6	33.3	42.2	6.4	255	56.9	8.87

* Also stocked in 100ft and 50ft reels.

LUBRICATION

Proper lubrication of roller chains is a very important factor in getting their best possible performance and longer lifetime. No matter how well a transmission system is designed, if it is not properly lubricated, its service life will be shortened.

Abrasion between the pin and bushing causes roller chains to stretch. Therefore, these parts should be well lubricated.

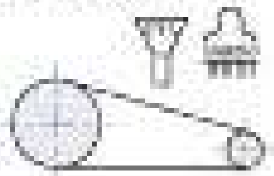
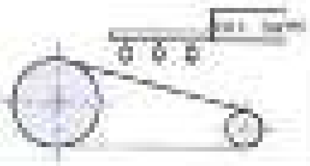
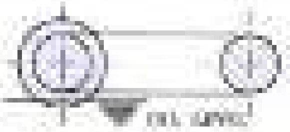
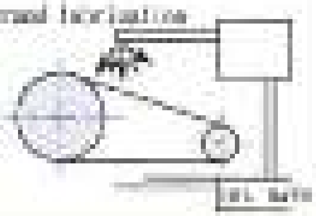
The gap between the pin-link plate and roller-link plate on the slack side of the chain should be filled with lubricant.

The oil forms a film which minimizes wear of the pin and bushing thus increasing the chain service life.

It also reduces noises and cools down the chain running at high speed.

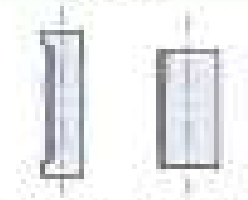
POINTS OF LUBRICATION

1) Fill and change oil periodically.
2) Generally, heavy oil and grease are not suitable as a lubricant.
3) Avoid mixing of oil with another kind or other maker's.
4) Adequate lubrication quantity is also essential for a chain's longer service life.

Type	Method	Amount
A	Manual lubrication 	●Periodically to keep chain joints from drying.
A	Drip lubrication 	●Usually 5-20 drops of oil per minute. ●Excess oil should be received in a simple case.
B	Oil bath lubrication 	●Effective at medium and low speeds. ●To be dipped 6~12 mm.
B	Lubrication by slinger disc For large speed ratio 	●Effective at rather high speeds. ●To be dipped 12~25mm at about 200 m/min circumferential speed of slinger disc.
B	Lubrication by slinger disc For small speed ratio 	●Case should be cleaned to remove impurities.
C	Forced lubrication 	●Effective for heavy load, high power and high speed. ●All systems should be filled without oil shortage or leaking up. ●Closed circulating lubrication system needs a clean tank or tank.

SY Chain No.	Temperature °C							
	-10 ~ 0	0 ~ 40	40 ~ 50	50 ~ 60	-10 ~ 0	0 ~ 40	40 ~ 50	50 ~ 60
Lubrication Type	TYPE A-B				TYPE C			
~SP60	SAE 10	SAE 20	SAE 30	SAE 30	SAE 10	SAE 20	SAE 30	SAE 40
SP80~SP100	20	30	40	50	10	20	30	40
SP120	20	30	40	50	20	30	40	50
SP140~	30	40	50	60	20	30	40	50

The below chart shows the most common chain failures and causes, but not necessarily the only ones.

Problem	Possible Cause of Problem	Suggested Remedy
 Pin or Bushing Galling	• Overload • Inadequate lubrication	• Proper lubrication • Replace chain when elongation exceeds functional limits
 Turned Pins	• Overload • Inadequate lubrication	• Replace chain as soon as possible
Excessive Noise	• Too little or too much slack • Chain obstruction • Loose chain guard or bracing	• Adjust proper tension • Inspect & remove obstruction • Tighten bolts and check bearings
Chain Vibration	• Excessive chain slack • Excessive distance between shafts • Misalignment	• Adjust chain tension • Install idler • Take up or replace chain
Wear on inside of link plate and side of sprocket teeth	• Misalignment	• Realign sprockets and shafts • Replace chain and sprockets if necessary
Chain stiffness	• Excessive load • Misalignment • Inadequate lubrication • Corrosion	• Replace chain with one of greater strength • Inspect alignment • Clean and establish correct lubrication • Replace with corrosion resistant chains
Chain Climbs Sprockets	• Excessive chain wear • Excessive chain slack • Inadequate lubrication • Sprocket tooth wear	• Replace chain • Install tensioner if necessary • Replace sprocket
 Fractured Pins	• Extreme overload	• Inspect the drive to determine the cause of high load • Redesign drive using a higher capacity chain

FINERPOWER TRANSMISSIONS

KCM

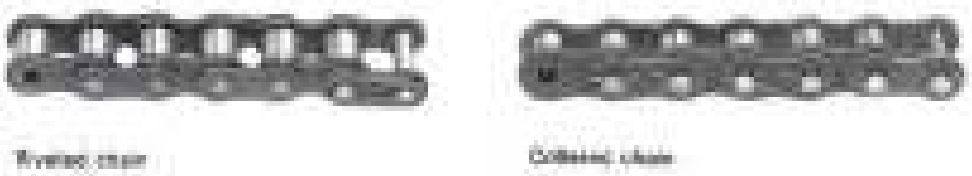
KCM Roller Chain

KCM ROLLER CHAIN

Roller Chains are indispensable drive and transfer components in modern industries, to meet diversified needs of the times.
Roller chains are composed of five component parts as shown below.

CHAIN PARTS

CHAIN

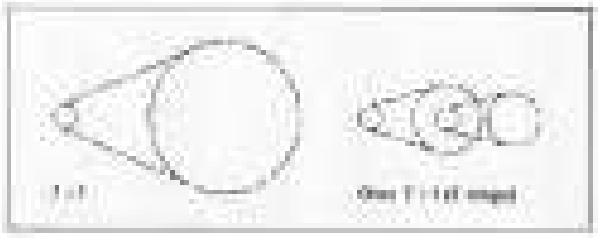


General Roller Chain Selection Method

1 Power to be transmitted

2 Speeds of drive and driven shafts

3 Speed ratio of both shafts



4 Shaft-to-shaft distance

Low Speed Roller Chain Selection Method

1 Chain Speed

2 Load acting on roller chain

3 Max. acting load and max. allowable load

Required Roller Chain Length

The required roller chain length number of pitches can be determined by the following equation, using data on the center distance between shafts and number of teeth on sprockets.

$$L_p = \frac{N_1 + N_2}{2} + 2C + \frac{\left(\frac{N_2 - N_1}{2\pi}\right)^2}{C}$$

L_p = Required chain length number of pitches
N_1 = Number of teeth on driver sprocket
N_2 = Number of teeth on larger sprocket
C = Center-to-center distance between shafts (to be specified)

$\left(\frac{N_2 - N_1}{2\pi}\right)^2$ can be found from the table below.

1	0.02	21	31.32	41	76.39
2	0.08	22	34.58	42	80.25
3	0.18	23	37.94	43	84.21
4	0.32	24	41.40	44	88.27
5	0.51	25	44.97	45	92.43
6	0.73	26	48.64	46	96.69
7	0.99	27	52.42	47	101.05
8	1.30	28	56.30	48	105.51
9	1.64	29	60.28	49	110.07
10	2.03	30	64.37	50	114.73
11	2.45	31	68.57	51	119.49
12	2.92	32	72.87	52	124.35
13	3.43	33	77.28	53	129.31
14	3.97	34	81.80	54	134.37
15	4.56	35	86.42	55	139.53
16	5.19	36	91.15	56	144.79
17	5.86	37	95.98	57	150.15
18	6.57	38	100.92	58	155.61
19	7.32	39	105.97	59	161.17
20	8.12	40	111.12	60	166.83
21	8.95	41	116.38	61	172.59
22	9.83	42	121.74	62	178.45
23	10.75	43	127.21	63	184.41
24	11.71	44	132.78	64	190.47
25	12.72	45	138.46	65	196.63
26	13.77	46	144.24	66	202.89
27	14.86	47	150.12	67	209.25
28	16.00	48	156.11	68	215.71
29	17.18	49	162.21	69	222.27
30	18.40	50	168.41	70	228.93
31	19.67	51	174.71	71	235.69
32	20.98	52	181.12	72	242.55
33	22.33	53	187.63	73	249.51
34	23.73	54	194.25	74	256.57
35	25.17	55	200.97	75	263.73
36	26.66	56	207.80	76	270.99
37	28.19	57	214.73	77	278.35
38	29.77	58	221.76	78	285.81
39	31.40	59	228.90	79	293.37
40	33.07	60	236.14	80	301.03

Center-to-center Distance between Drive and Driven Shafts

The required roller chain length number of pitches determined as per the equation above, which does not coincide with a desired center-to-center distance of drive and driven shafts. Therefore, it is required to obtain center-to-center distance of drive and driven shafts. Sometimes, it is required to make adjustable center-to-center distance of drive and driven shafts by moving them on the basis of the required roller chain length number.

$$C = \frac{1}{4}\left[L_p - \frac{N_2 + N_1}{2} + \sqrt{\left(L_p - \frac{N_2 + N_1}{2}\right)^2 - \frac{8}{\pi^2}\left(N_2 - N_1\right)^2}\right]$$

C = Center-to-center distance between drive and driven shafts (pitches)
L_p = Required chain length (pitches)
N_1 = No. of teeth of driver sprocket
N_2 = No. of teeth of larger sprocket

$\frac{1}{4\pi^2}(N_2 - N_1)^2$ can be found from the table below.

1	0.03	36	232.39	71	894.76
2	0.10	37	243.49	72	918.36
3	0.23	38	254.69	73	942.06
4	0.41	39	265.99	74	965.86
5	0.63	40	277.39	75	989.76
6	0.91	41	288.89	76	1013.76
7	1.23	42	300.49	77	1037.86
8	1.60	43	312.19	78	1062.06
9	2.02	44	323.99	79	1086.36
10	2.49	45	335.89	80	1110.76
11	3.01	46	347.89	81	1135.26
12	3.58	47	359.99	82	1159.86
13	4.20	48	372.19	83	1184.56
14	4.87	49	384.49	84	1209.36
15	5.59	50	396.89	85	1234.26
16	6.36	51	409.39	86	1259.26
17	7.18	52	421.99	87	1284.36
18	8.05	53	434.69	88	1309.56
19	8.97	54	447.49	89	1334.86
20	9.94	55	460.39	90	1360.26
21	10.96	56	473.39	91	1385.76
22	12.03	57	486.49	92	1411.36
23	13.15	58	499.69	93	1437.06
24	14.32	59	512.99	94	1462.86
25	15.54	60	526.39	95	1488.76
26	16.81	61	539.89	96	1514.76
27	18.13	62	553.49	97	1540.86
28	19.50	63	567.19	98	1567.06
29	20.92	64	580.99	99	1593.36
30	22.39	65	594.89	100	1619.76
31	23.91	66	608.89		
32	25.48	67	622.99		
33	27.10	68	637.19		
34	28.77	69	651.49		
35	30.49	70	665.89		

Use in Severe Working Conditions

1. Application at High Temperature

[illegible]

[illegible]

[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]

2. [illegible]

[illegible]

Installation

(A) Arrangement of Shafts

[illegible]

[illegible]

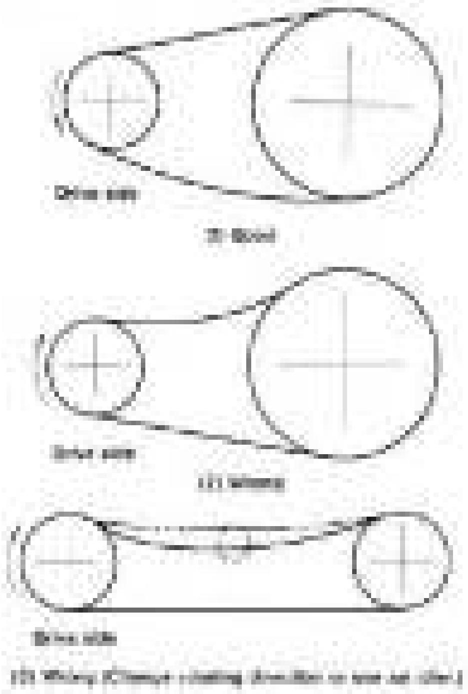
(B) Sag

[illegible]

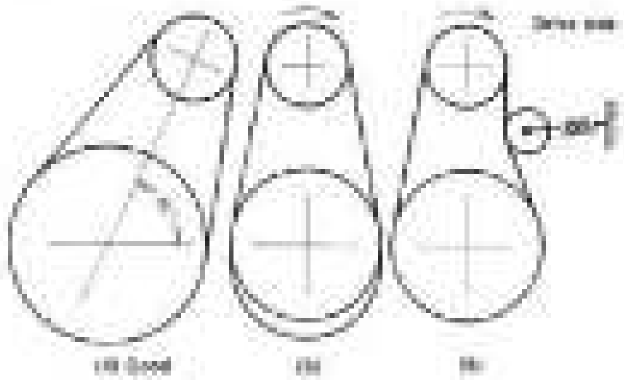
(C) Varying loads

[illegible]

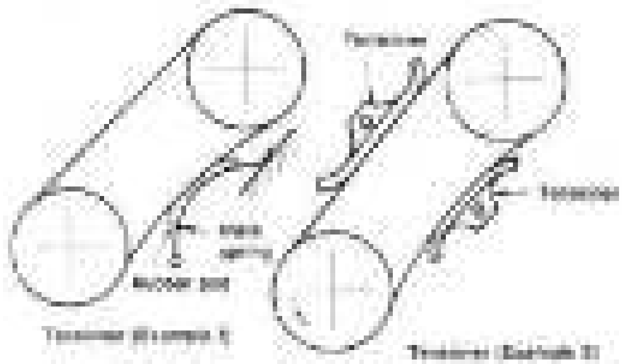
Horizontal arrangement



Vertical arrangement



Examples of Tensioners



Power Transmission Capacity Tables

[illegible]

Multiple strand factor (Table 1)

[illegible]

Service factor (Table 2)

[illegible]

Quick Selection Chart (Table 3)

How to Use

EXAMPLE [illegible]

[illegible]

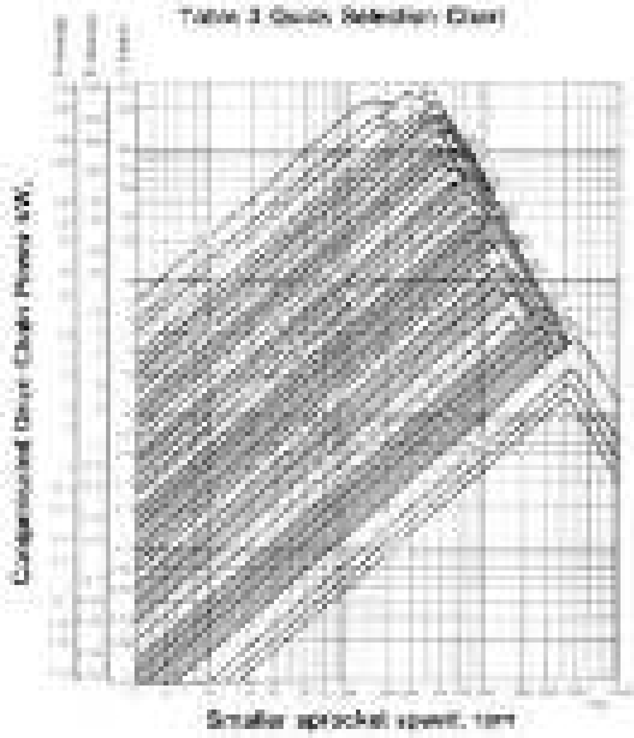
Table 1 [illegible]

[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]

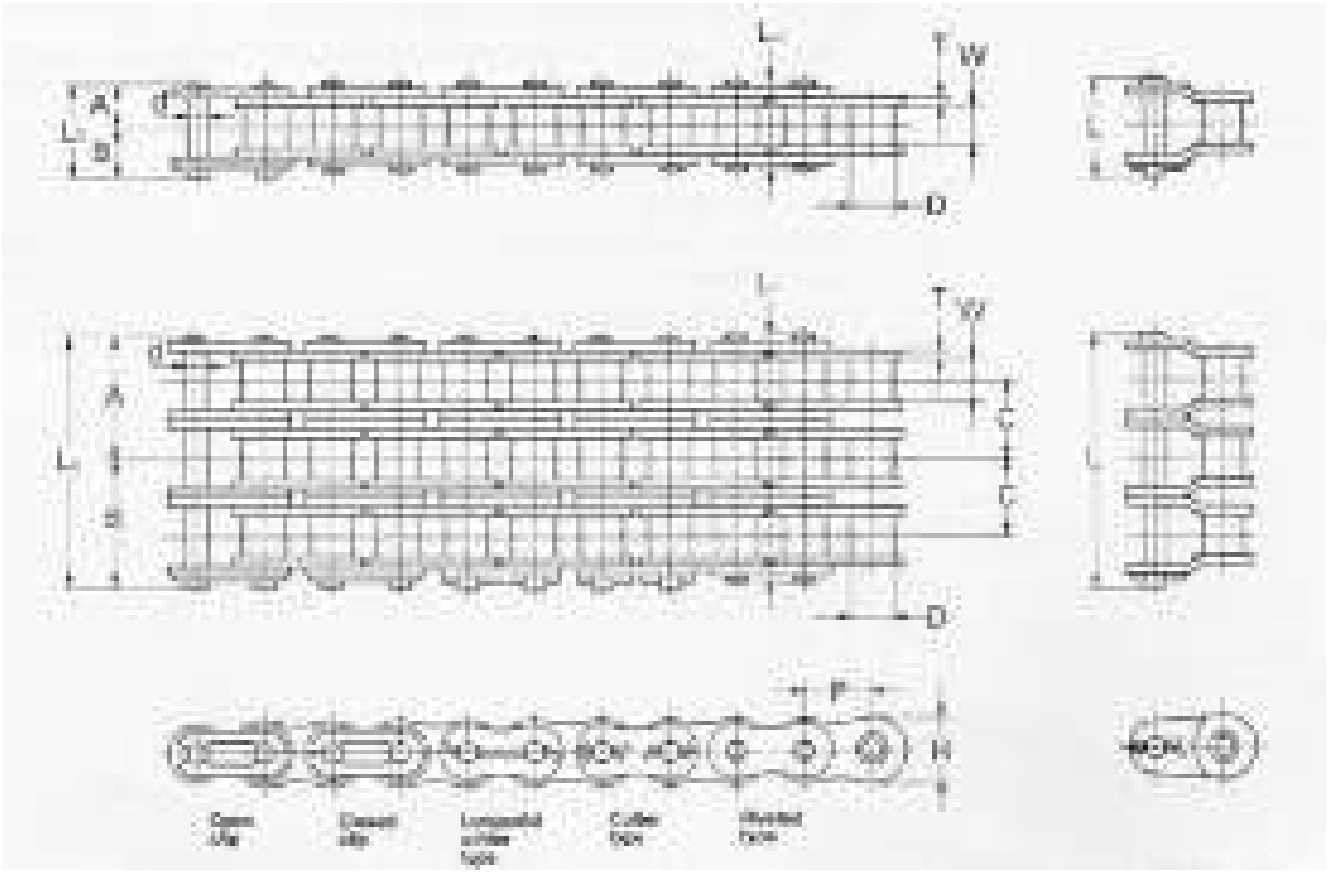
Table 2 [illegible]

[illegible]	[illegible]	[illegible]	[illegible]	
			[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]
[illegible]	[illegible]	[illegible]	[illegible]	[illegible]

Table 3 Quick Selection Chart



Twelve types of KCM standard rollers, conforming to JIS and ANSI standards chains are available.

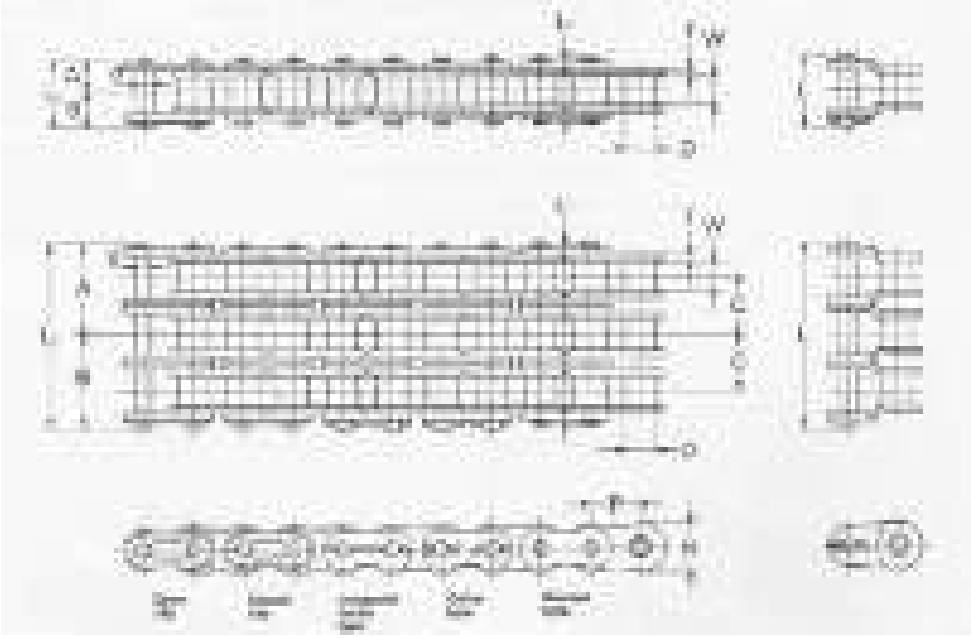


Chain No	Pitch	Width between inner pitch	Roller	PIN						Link Plate		JIS &ANSI Tensile strength	Average	Maximum	Approx weight	Links of
KCM	P	W	Diam-eter D	Diam-eter d	A	B	(A+A) L1	(A+B) L1	Offset L	Thick-ness T	Height H	kgf (kN)	Tensile strength kgf (kN)	Allowable Load kgf (Kn)	(kg/m)	1unit
25	6.35	3.18	*3.30	2.31	3.80	4.80	7.60	8.60	-	0.75	5.8	357(3.5)	450(4.4)	65(0.64)	0.13	480.00
35	9.525	4.78	*5.08	3.59	5.70	7.10	11.40	12.80	13.65	1.25	8.8	806(7.9)	1,100(10.8)	220(2.16)	0.33	320.00
41	12.70	6.38	7.77	3.59	6.52	7.93	13.05	14.45	14.95	1.25	9.5	683(6.7)	1,200(11.8)	230(2.25)	0.40	240.00
40*	12.70	7.95	7.95	3.91	8.02	9.53	16.05	17.55	18.95	1.5	11.7	1,407(13.8)	1,850(18.1)	370(3.63)	0.61	240.00
50*	15.875	9.53	10.16	5.09	10.15	11.60	20.30	21.75	23.00	2.0	14.6	2,223(21.8)	3.050(29.9)	650(6.3])	1.01	192.00
60*	19.05	12.70	11.91	5.96	12.65	14.15	26.30	26.80	29.45	2.4	17.5	3,172(31.1)	4,200(41.2)	900(8.83)	1.49	160.00
80*	25.4	15.88	15.88	7.94	16.07	19.18	32.15	35.25	36.90	3.2	23.0	5,670(55.6)	],400(72.6)	1,500(14.71)	2.50	130.00
100	31.75	19.05	19.05	9.54	20.10	23.05	40.20	43.15	45.05	4.0	28.9	8,841(85.1)	11,500(112.8)	2,300(22.56)	3.85	96.00
120	38.1	25.40	22.23	11.11	25.20	28.60	50.40	53.80	55.90	4.8	36.0	12,706(124.6)	16,000(156.9)	3,100(30.40)	5.66	80.00
140	44.45	25.40	25.4	12.31	27.30	31.30	54.60	58.60	60.50	5.6	40.7	17233(169.0)	21,500(210.8)	4,100(40.21)	7.19	68.00
160	50.80	31.75	28.58	14.29	32.45	37.15	64.90	69.60	71.85	6.4	46.7	22,678(222.4)	2],500(269.7)	5,400(52.96)	9.63	60.00
180	57.15	35.7	28.58	17.45	-	-	-	-	-	7.2	52.5	-	-	-	-	-
200	63.50	38.10	39.68	19.86	39.65	46.65	79.30	86.30	89.20	8.0	58.4	35,384(347.0)	46,000(470.7)	3.300(J1.59)	15.97	48.00

*Stocked in 100ft and 50ft reels.

Dimensions (Millimeters)

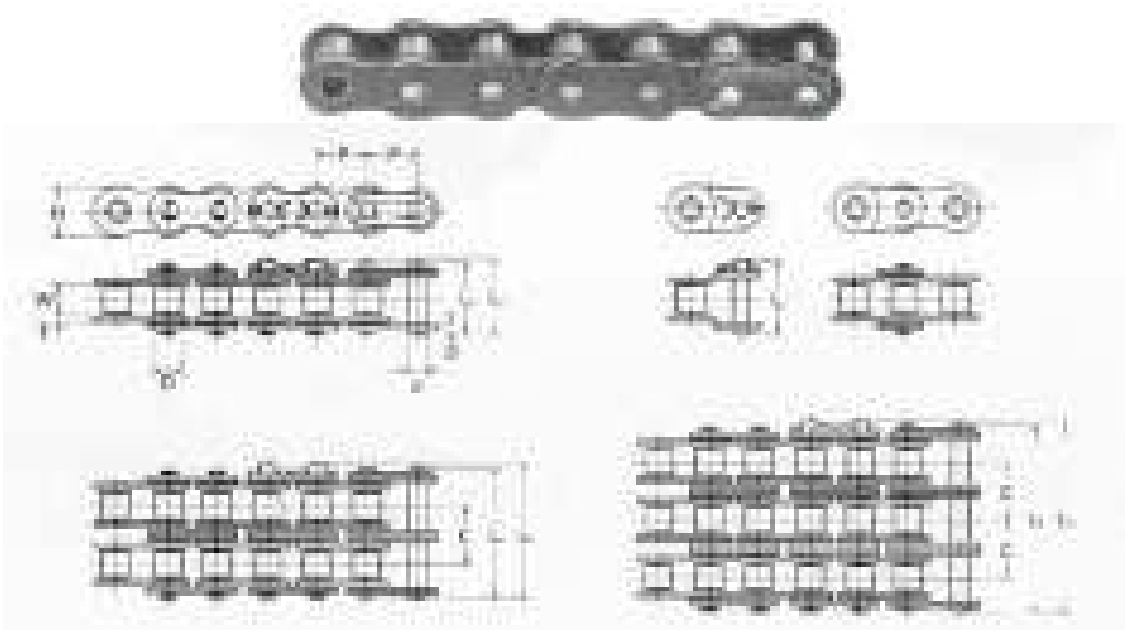
Nine sizes of multiple standard roller chains, conforming to JIS and ANSI standars are available.



Chain No	Pitch	Width between inner plates	Roller Diameter	PIN						Link Plate		Transverse pitch	JIS &ANSI Tensile strength kgf (kN)	Average Tensile strength kgf (kN)	Maximum Allowable Load kgf(Kn)	Approx weight (kg/m)	Links of 1unit
KCM	P	W	D	Diameter d	A	B	(A+A) L1	(A+B) L1	Offset L	Thickness T	Height H	C					
25-2	6.35	3.18	*3.30	2.31	7.00	8.0	14.0	15.	-	0.75	5.8	6.4	714 (1.0)	900 (8.8)	100	0.26	480
35-2	9.53	4.78	*5.08	3.59	10.75	12.15	21.50	22.90	23.75	1.25	8.8	10.1	1.612 (15.8)	2.200(21.6)	370 (3.63)	0.64	320
35-3					15.80	17.20	31.60	33.00	33.85				2.418 (23.7)	3.300(32.4)	550 (5.39)	0.95	
40-2	12.70	7.95	7.95	3.97	15.22	16.73	30.45	31.95	33.35	1.5	11.7	14.4	2.814 (21.6)	3.100 (36.3)	630(6.17)	1.19	240
40-3					22.42	23.53	44.85	46.35	47.75				4.221 (41.4)	5.550 (54.4)	930 (9.11)	1.79	
50-2	15.88	9.53	10.16	5.09	19.20	20.66	38.40	39.85	41.10	2.00	14.6	18.1	4,446 (43.6)	6,100 (59.8)	1,100) (10.79)	2.01	192
50-3					28.25	29.70	56.50	57.95	59.20				6,669 (65.4)	9,150(89.7)	1,620 (15.89)	2.99	
60-2	19.05	12.70	11.91	5.96	24.05	25.55	48.10	49.6	52.25	2.4	17.5	22.8	6,383 (62.6)	8,400 (82.4)	1,530 (15.00)	2.95	160
60-3					35.45	36.95	70.90	72.40	75.05				9,575 (93.9)	12,600 (123.5)	2,250 (22.06)	4.41	
80-2	25.40	15.88	15.88	7.94	30.72	33.83	61.45	64.55	66.20	3.2	23.00	29.3	11,339 (111.2)	14,800 (145.0)	2,550 (25.01)	4.96	120
80-3					45.37	48.48	90.75	93.85	95.50				17,009(166.8)	22,200 (217.7)	3,750 (36.77)	7.40	
100-2	31.75	19.05	19.05	9.54	38.00	40.95	76.00	78.95	80.85	4.00	28.9	35.8	17,743 (174.0)	23,000 (225.6)	3,900 (38.25)	7.62	96
100-3					55.90	58.85	111.80	114.75	116.50				26,615 (261.0)	34,500(338.3)	5,750(56.39)	11.38	
120-2	38.10	25.40	22.23	11.11	47.90	51.30	95.8	99.2	100.7	4.8	35.00	45.4	25,493 (250.0)	32,000 (313.8)	5,250 (51.48()	11.21	80
120-3					70.60	74.00	141.20	144.60	146.10				38,239 (375.0)	48,000 (470.7)	7,750(76.00)	16.74	
140-2	44.45	25.40	25.4	12.71	51.75	55.75	103.5	107.5	108.95	5.6	40.7	48.9	34,670 (340.0)	43,000 (421.7)	6,970 (68.31)	14.24	34
140-3					76.20	80.20	152.40	156.40	157.85				52,006 (510.0)	64,500(632.5)	10,250(100.52)	21.30	

Dimensions (Millimeters)

ISO-B Series roller chains, conforming to ISO 606-B, are available for Europe-built equipment.

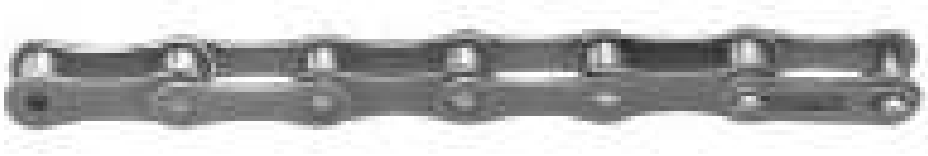


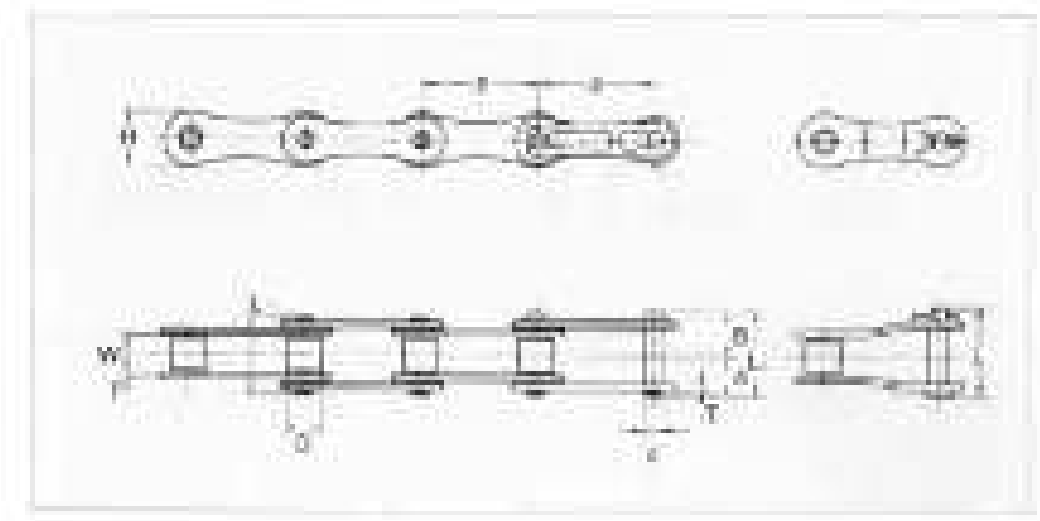
KCM Chain No.	Pitch P	Width between Inner Plates W	Roller Dia. D	PIN			Link Plate		Transver-sion pitch C	ISO 606 Min. Tensile Strength kN (kgf)	KCM Min. Tensile Strength kN (kgf)	Approx. Weight (kg/m)	Links of Dia. 1 unit
				Diameter d	L2	Offset L	Thickness T	Heights H					
04	6	2.8	4	1.85	7.35	–	0.6	4.9	–	–	3.2(330)	0.11	834
05B	8.00	3	5	2.31	8.60	–	0.75	7.1	5.64	4.4(449)	4.9(500)	0.18	626
05B-2					14.25	–				7.8(800)	8.5(870)	0.31	
06B*	9.525	5.72	6.35	3.28	13.60	15.15	1.3	8.1	10.24	8.9(910)	9.0(920)	0.39	320
06B-2					23.85	25.40	(1.0)			16.9(1,720)	17.0(1,730)	0.74	
06B-3					34.10	35.65				24.9(2,540)	24.9(2,540)	1.10	
08B*	12.7	7.75	8.51	4.45	18.05	19.2	1.6	11.7	13.92	17.8(1,820)	18.9(1,930)	0.65	240
08B-2					31.95	33.10				31.1(3,170)	32.0(3,260)	1.25	
08B-3					45.90	47.05				44.5(4,540)	47.5(4,840)	1.85	
10B*	15.875	9.65	10.16	5.08	20.15	21.5	1.5	14.6	16.59	22.2(2,260)	22.9(2,340)	0.91	192
10B-2					36.95	38.10				44.5(4,540)	44.5(4,540)	1.80	
10B-3					53.35	54.70				66.7(6,800)	66.8(6,810)	2.70	
12B*	19.05	11.68	12.07	5.72	23.60	26.30	1.8	16	19.46	28.9(2,950)	31.0(3,160)	1.24	160
12B-2					43.05	45.75				57.8(5,890)	61.0(6,220)	2.44	
12B-3					62.50	65.20				86.7(8,840)	92.2(9,400)	3.65	
16B	25.4	17.02	15.88	8.28	38.10	41.45	4.0	19.7	31.88	60 (6,120)	69.6(7,100)	2.62	120
16B-2					70.00	73.35	(3.2)			106 (10,810)	127.5(13,000)	5.18	
16B-3					101.90	105.25				160 (16,320)	192.2(19,600)	7.74	
20B*	31.75	19.56	19.05	10.19	43.95	47.25	4.5	26	36.45	95 (9,690)	98.1(10,000)	3.81	96
20B-2					80.40	83.70	(3.5)			170 (17,340)	197.1(20,100)	7.52	
20B-3					116.85	120.15				250 (25,490)	295.2(30,100)	11.24	
24B	38.1	25.4	25.4	14.63	58.70	4.20	6.0	33	48.36	160 (16,320)	166.7(17,000)	6.65	80
24B-2					107.05	112.55	(5.0)			280 (28,550)	334.4(34,100)	13.11	
24B-3					155.40	160.90				425 (42,340)	500.1(51,000)	19.57	40
28B	44.45	31	27.94	15.88	–	–	–	-	-	–	–	–	–
28B-2					–	–	–			–	–	–	–
32B	50.8	31.00	29.21	17.81	–	–	–	-	-	–	–	–	–
32B-2					–	–	–			–	–	–	–
32B-3					–	–	–			–	–	–	–

* Stocked in 100ft and 50ft reels.

Dimensions (Millimeters)

Double Pitch roller chain, whose pitch is doubled compared to standard roller chain, employs parts of standard roller chain except for the link plate. Therefore, the length and strength are the same, but the number of parts is reduced to a half, decreasing weight and improving economy. This roller chain is suited for relatively long power transmission at low speed.

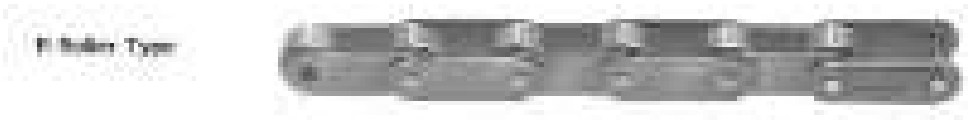


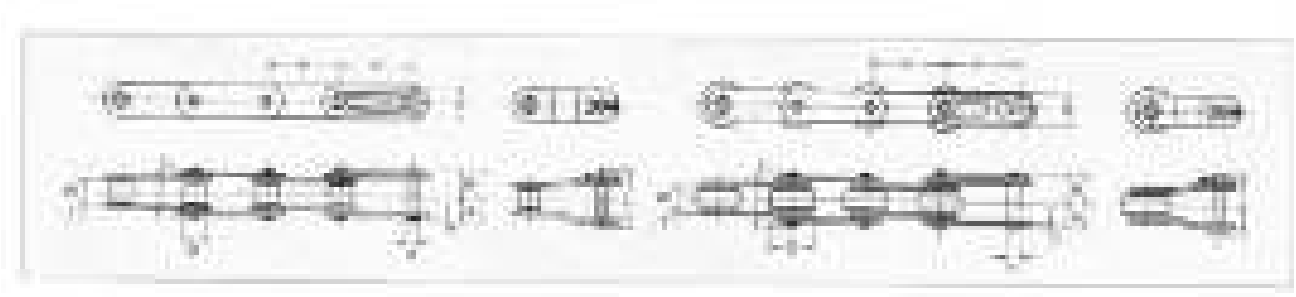


KCM Chain No.	Pitch P	Width between Inner Plates W	Roller Dia. D	PIN						Link Plate		Ave. Tensile Strength kN (kgf)	Max. Allowable Load kN (kgf)	Approx. Weight (kg/m)	Links of Dia. 1 unit
				Diameter d	A	B	(A+A) L1	(A+B) L1	Offset L	Thick-ness T	Height H				
A2040	25.4	7.95	7.92	3.97	8.02	9.53	16.05	17.55	18.95	1.5	11.7	17.2(1,750)	2.65(270)	0.4	120
A2050	31.75	9.53	10.16	5.09	10.15	11.6	20.3	21.75	23	2	14.6	27.9(2,850)	4.31(440)	0.65	96
A2060	38.1	12.7	11.91	5.96	12.65	14.15	25.3	26.8	29.45	2.4	17.5	39.5(4,000)	6.28(640)	0.95	80

Dimensions (Millimeters)

The double pitch roller chains for conveyors fall into two roller types: S type (KCM chain No. is suffixed with "0") and R type (KCM chain No. suffixed with "2") Using a variety of standard attachments, the double pitch roller chain can be used as a compact, high-precision conveyor. Nickel plated models as well as stainless steel models are also available.

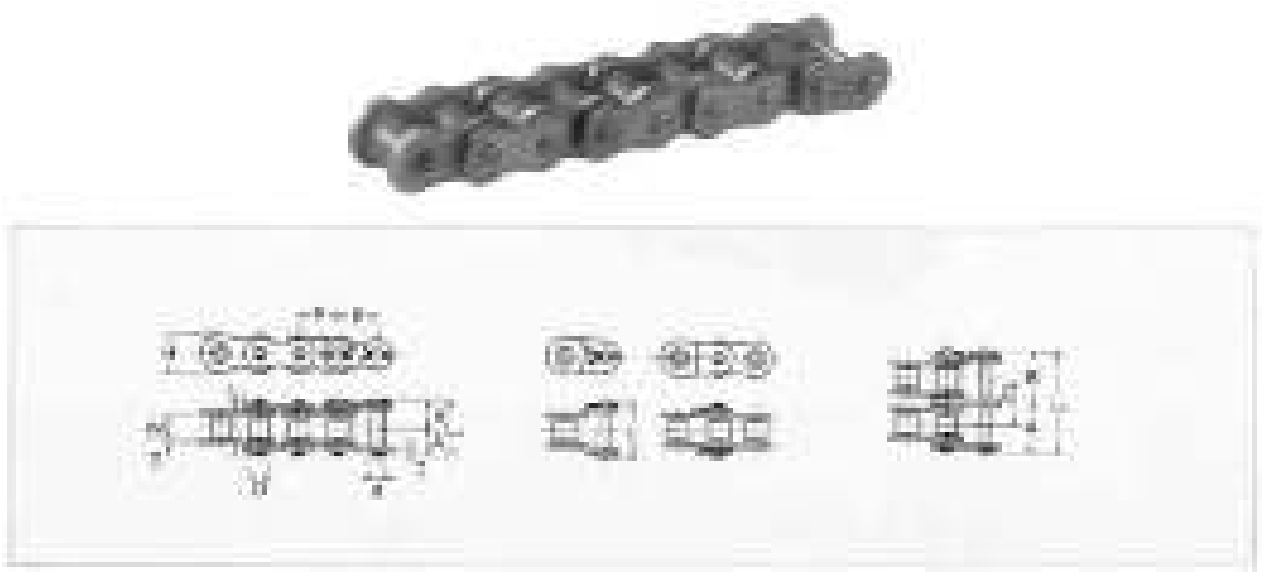




KCM Chain No.	Pitch P	Width between Inner Plates W	Roller Dia. D	PIN						Link Plate		Ave. Tensile Strength kN (kgf)	Max. Allow-able Load kN (kgf)	Approx. Weight (kg/m)	Links of Dia. 1 unit
				Diameter d	A	B	(A+A) L1	(A+B) L1	Offset L	Thick-ness T	Heights H				
C2040 C2042	25.40	7.95	7.92 15.88	3.97	8.02	9.53	16.05	17.55	18.95	1.5	11.7	17.2(1,750)	2.65(270)	0.48 0.82	120
C2050 C2052	31.75	9.53	10.16 19.05	5.09	10.15	11.60	20.30	21.75	23.00	2	14.6	27.9(2,850)	4.31(440)	0.79 1.25	96
C2060H C2062H	38.10	12.70	11.91 22.23	5.96	14.25	15.75	28.50	30.00	32.65	3.2	17.5	39.5(4,000)	6.28(640)	1.43 2.11	80
C2080H C2082H	50.8	15.88	15.88 28.58	7.94	17.70	20.80	35.40	38.50	40.15	4.0	23.0	68.6(7,000)	10.69(1,090)	2.37 3.41	60
C2100H C2102H	63.5	19.05	19.05 39.67	9.54	21.72	24.68	43.45	46.4	48.30	4.8	28.9	106.9(10,900)	17.06(1,740)	3.53 5.68	48
C2120H	76.20	25.40	22.23	11.11	26.85	30.25	53.70	57.10	59.30	5.6	35.0	149.1(15,200)	23.93(2,440)	4.75 7.40	40

Dimensions (Millimeters)

KCM H-Series roller chains are designed for heavy-duty operation thickening the link plate of standard roller chains and using high-strength pins.

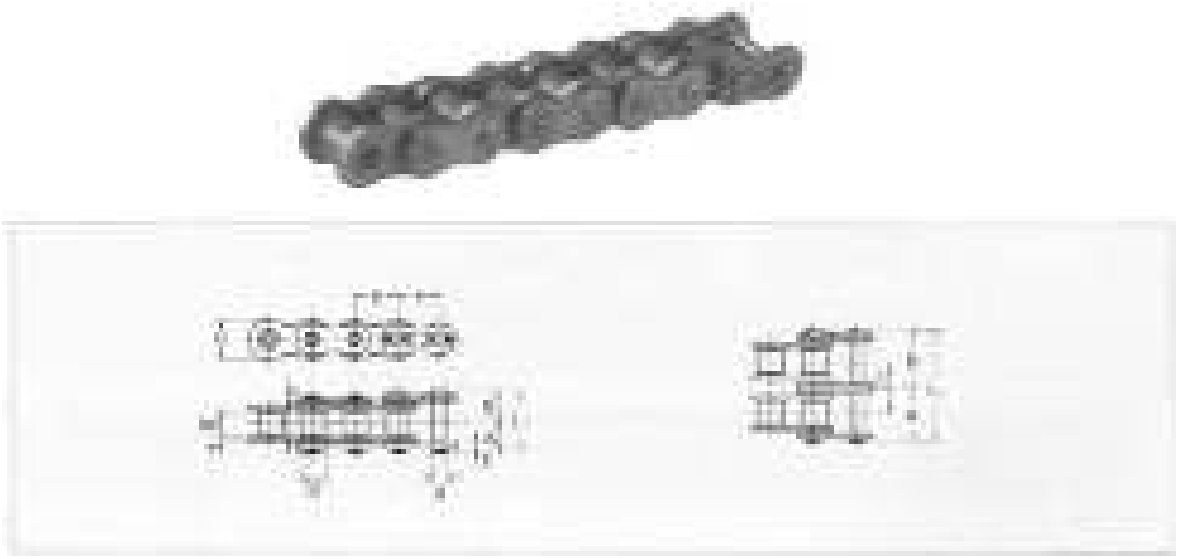


KCM Chain No.	Pitch P	Width between Inner Plates W	Roller Dia. D	PIN					Link Plate		Transversion Pitch C	Average Tensile strength kN (kgf)	Max. Allowable Load kN (kgf)	Approx. Weight (kg/m)	Links of Dia. 1 unit
				Diameter d	A	B	(A+A) L1	(A+B) L1	Thick-ness T	Height H					
40H	12.7	7.95	7.95	3.97	9.05	10.55	18.10	19.60	2.0	11.7	16.4	23.5(2,400)	3.92(400)	0.73	240
50H*	15.875	9.53	10.16	5.09	10.98	12.42	21.95	23.40	2.4	14.6	19.6	36.2(3,700)	6.67(680)	1.43	192
60H*	19.05	12.70	11.91	5.96	14.35	15.75	28.7	30.00	3.2	17.5	26.1	55.9(5,100)	9.81(1000)	1.77	160
60H-2					27.30	28.80	54.60	56.10				111.8(10,200)	16.27(1,700)	3.56	
80H*	25.4	15.88	15.88	7.94	17.8	20.7	35.6	38.5	4	23	32.6	93.2(9,500)	15.57(1.700)	2.96	120
80H-2					34.00	37.10	68.00	71.10				186.3(19,000)	28.34(2,890)	5.84	
100H	31.75	19.05	19.05	9.54	21.8	24.6	43.6	46.4	4.8	28.9	39.1	43.2(14,600)	25.99(2,650)	4.17	96
120H	38.10	25.40	22.23	11.11	26.95	30.15	53.9	57.1	5.6	35	48.9	191.2(19,500)	33.34(3,3400)	6.28	80
140H	44.45	25.40	25.40	12.71	28.95	32.95	57.90	61.90	6.4	40.7	52.2	250.1(25,000)	44.13(4,500)	7.83	68

* Stocked in 100ft and 50ft reels.

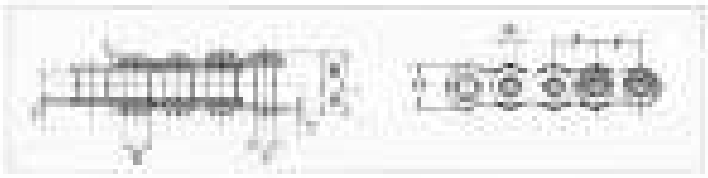
Dimensions (Millimeters)

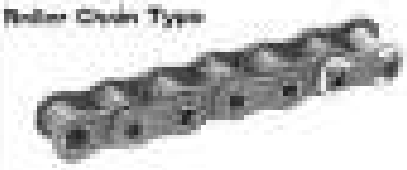
HE-Series high-strength roller chains are designed for extra strength and resistance to fatigue higher than those of H-Series.
The HE-Series is best suited for heavy-duty power transmission with significant loading variations.



KCM Chain No.	Pitch P	Width between Inner Plates W	Roller Dia. D	PIN					Link Plate		Ave. Tensile Strength kN (kgf)	Transversion Pitch C	Max. Allow-able Load kN (kgf)	Approx. Weight (kg/m)	Links of Dia. 1 unit
				Diameter d	A	B	(A+A) L1	(A+B) L1	Thick-ness T	Height H					
50HE	15.875	9.53	10.16	5.09	10.98	12.42	21.95	23.40	2.4	14.6	19.6	36.2(3,700)	6.67(680)	1.43	192
60HE	19.05	12.70	11.91	5.96	14.35	15.75	28.7	30.00	3.2	17.5	26.1	55.9(5,100)	9.81(1000)	1.77	160
80HE	25.4	15.88	15.88	7.94	17.8	20.7	35.6	38.5	4	23	32.6	93.2(9,500)	15.57(1.700)	2.96	120
100HE	31.75	19.05	19.05	9.54	21.8	24.6	43.6	46.4	4.8	28.9	39.1	43.2(14,600)	25.99(2,650)	4.17	96
120HE	38.10	25.40	22.23	11.11	26.95	30.15	53.9	57.1	5.6	35	48.9	191.2(19,500)	33.34(3,3400)	6.28	80

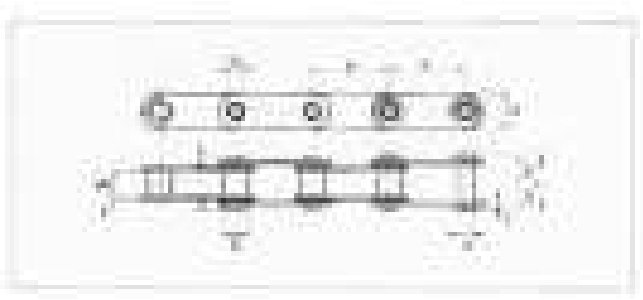
Dimensions (Millimeters)

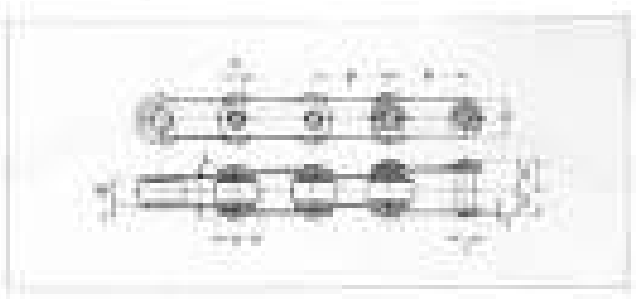




KCM Chain No.	Pitch P	Width between Inner Plates W	Bush Dia. D	PIN						Link Plate		Average tensile strength kgf KN (kgf)	Maximum Allowable Load KN (kgf)	Approx weight (kg/m)	Links of 1unit
				Outside diameter d	Outside diameter do (min)	A	B	(A+B) L1	(A+B) L2	Thickness T	Heights H				
40 HP	12.7	7.95	7.92	5.69	4.00	8.12	9.43	16.25	17.55	1.5	11.7	13.2(1,350)	1.77(180)	0.51	240
50 HP	15.875	9.53	10.16	7.24	5.12	10.3	11.7	20.6	22	2	14.6	20.6(2,100)	3.14(320)	0.83	192
60 HP	19.05	12.7	11.91	8.39	5.99	12.9	14.3	25.8	27.2	2.4	17.5	31.4(3,200)	4.22(430)	1.24	160

Dimensions (Millimeters)

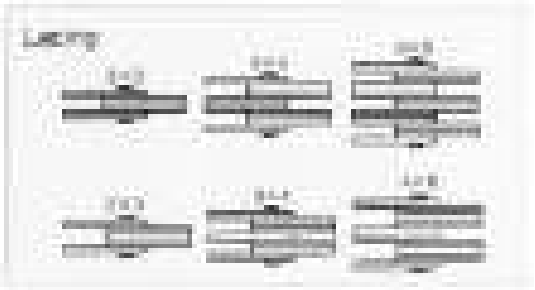




KCM Chain No.	Pitch P	Width between Inner Plates W	Bush Dia. D	PIN						Link Plate		Average tensile strength kgf KN (kgf)	Maximum Allowable Load KN (kgf)	Approx weight (kg/m)	Links of 1unit
				Outside diameter d	Outside diameter do (min)	A	B	(A+B) L1	(A+B) L2	Thickness T	Heights H				
C2040 HP C2042 HP	25.4	7.95	7.92 15.88	5.69	4.00	8.12	9.43	16.25	17.55	1.5	11.7	13.2(1,350)	1.77(180)	0.46 0.80	120
C2050 HP C2052 HP	31.75	9.53	10.16 19.05	7.24	5.12	10.3	11.7	20.6	22	2	14.6	20.6(2,100)	3.14(320)	0.76 1.25	96
C2060 HP C2062 HP	38.1	12.7	11.91 22.23	8.39	5.99	12.9	14.3	25.8	27.2	2.4	17.5	31.4(3,200)	4.22(430)	1.12 1.79	80

Dimensions (Millimeters)

Leaf chain, also called a balance chain, features a simple steel structure consisting of plates and pins.
This chain is used for load lifting and balancing. Application Example: Fork Lifts



Type

Selection

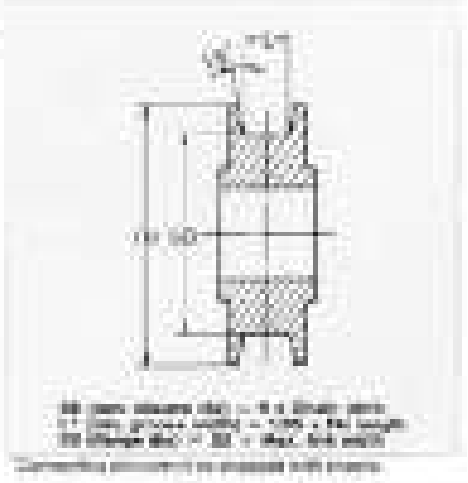
Table 1 Use Coefficient

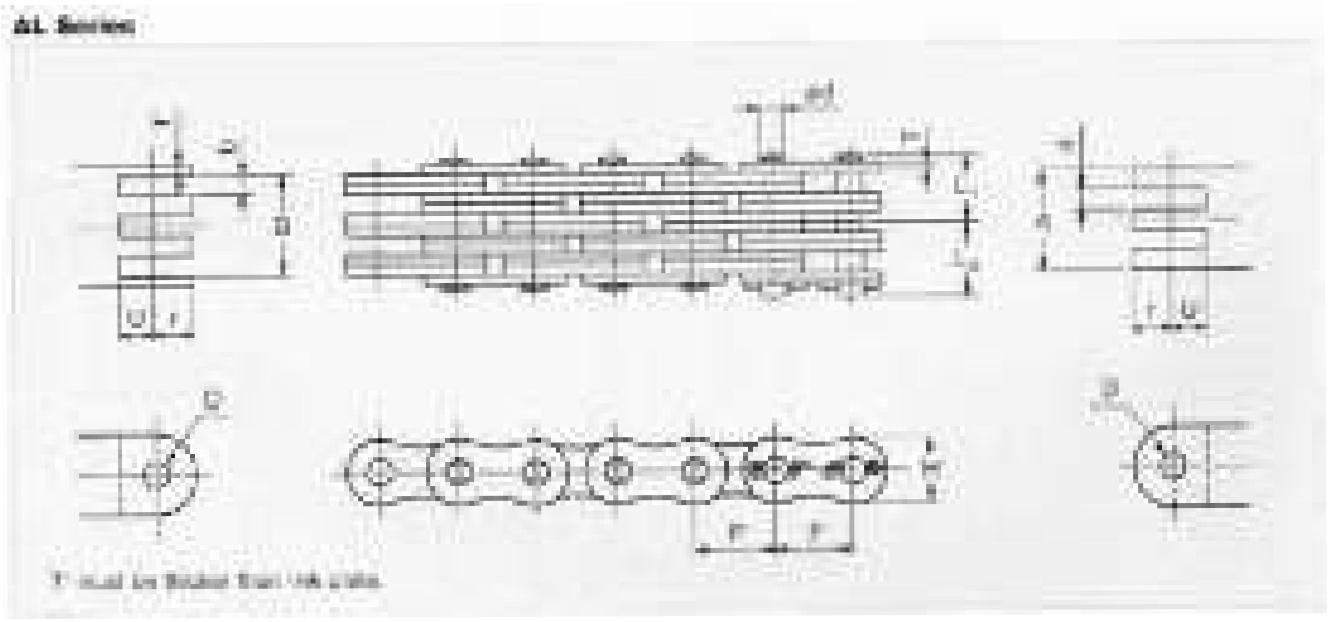
Table 2 Safety Factor

Notes in Selection

- Do not use a chain with the safety factor. Otherwise, the will fail, resulting in chain failure.
- Perform periodic lubrication. Even when safety factor is satisfactory, insufficient lubrication will result in pin rotation.
- Safety factor of chain is determined by the related regulations or by this bulletin, whichever is greater.

Attaching of Clevises and Clevises





KCM Chain No.	Pitch P	Plate			Pin			Min.Tensile Strength Kn(kgf)"	1-m chain weight (kg)	End Connector						
		Lacing	Thick-ness T	Height H	Outside diameter d	Caulked L1	Pinned L2			D Min.	r Max.	U Min.	A Max.	a Min.	B Min.	b Min.
AL544	15.875	4×4	2	12.6	5.09	9.3	11.25	54.9(5,600)	1.18	5.11	7.92	7.14	12.50	–	12.91	4.44
AL566		6×6				13.4	15.35	82.4(8,400)	1.76				20.97	4.44	21.38	
AL644	19.05	4×4	2.4	15	5.96	11.15	13.85	76.5(7,800)	1.70	5.98	9.53	8.56	14.69	5.23	15.19	5.23
AL666		6×6				16.13	18.83	114.7(11,700)	2.53				24.65		25.15	
AL688		8 x 8				-	-	-	-				-		-	
AL844	25.40	4×4	3.2	19.7	7.94	14.43	17.53	129.4(13,200)	2.92	7.96	12.7	11.43	19.80	7	20.40	7.00
AL866		6×6				20.93	24.35	194.2(19,800)	4.35				33.20		33.80	
AL1266	38.10	4×4 6×6	4.8	30	11.11	31.9	35.3	423.6(43,200)	9.99	11.14	19.05	17.14	49.10	10.3	49.90	10.3

Dimensions (Millimeters)

Leaf Chain Operating Notes

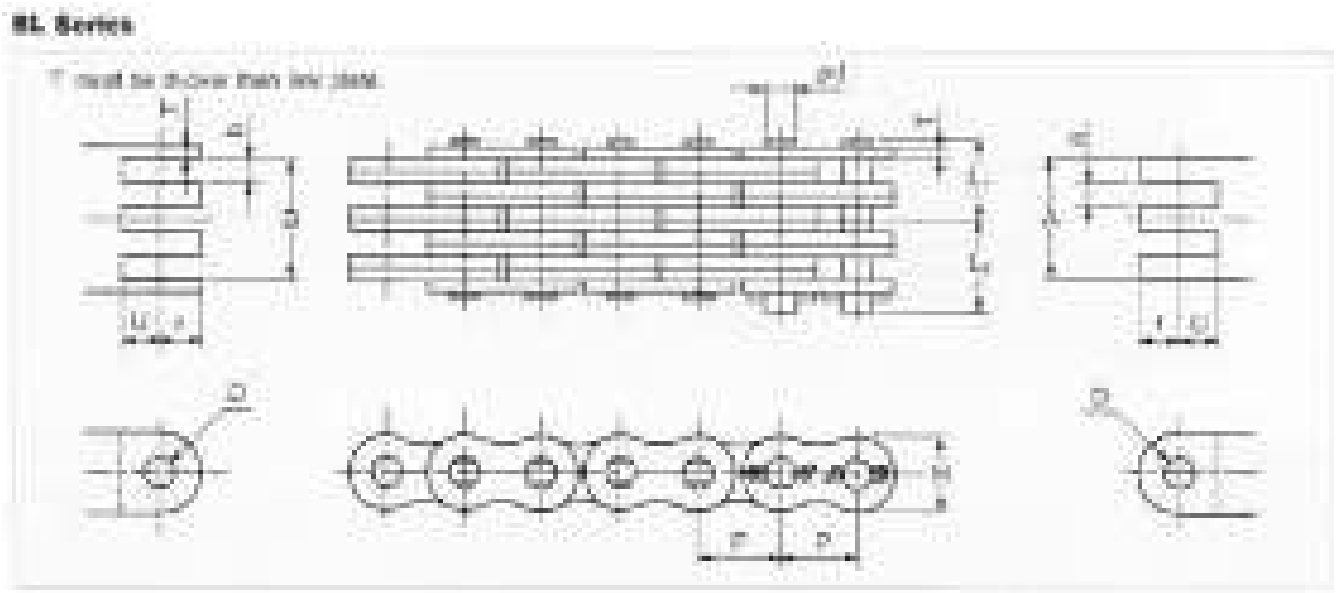
Lubricate leaf chain periodically to avoid rotation of pins and reduce wear for extended service life.

- Recommended oil: SAE30-SAE40
- Lubrication intervals: Determined to keep lubricant left between pin inner link plate.
- Lubrication method: Lubrication into keep space between link plates when chain is loosened.

Avoid use of chain in corrosive environment.

Measure chain length periodically to check for wear elongation.

- If elongation reaches its limit (3%), immediately replace chain.



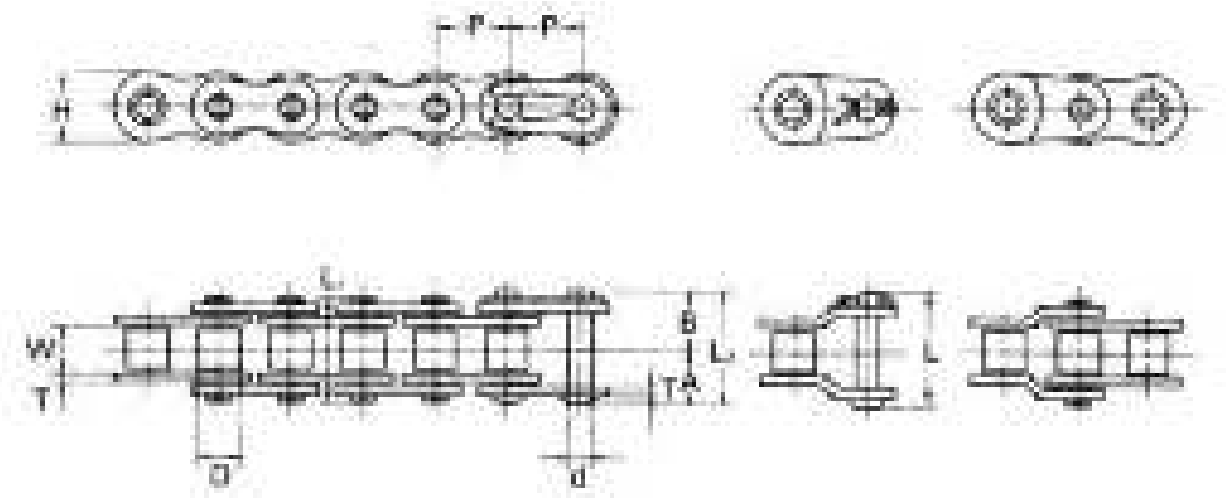
KCM Chain No.	Pitch P	Plate			Pin			Min.Tensile Strength Kn(kgf)"	1-m chain weight (kg)	End Connector						
		Lacing	Thick-ness T	Height H	Outside diameter d	Caulked L1	Pinned L2			D Min.	r Max.	U Min.	A Max.	a Min.	B Min.	b Min.
BL434	12.7	3×4	2.00	11.7	5.09	8.27	10.23	35.30(3,600)	1.02	5.12	6.35	6.35	10.41	2.29	10.67	4.32
BL466		6x6				13.40	15.35	70.60(7,200)	1.72				21.00	4.41	21.35	4.41
BL523	15.875	2×3	2.4	14.6	5.96	7.42	10.13	39.20(4,000)	1.13	5.98	7.92	7.92	7.13	–	–	7.76
BL532		3 x 2				-	-	-	-				-	-	-	-
BL534		3×4				9.92	12.60	58.80(6,000)	1.56				12.18	2.62	12.48	5.05
BL546*		4×6				13.62	16.33	78.50(8,000)	2.22				19.52	5.26	20.03	7.64
BL566		6x6				16.10	18.80	117.70(12,000)	2.66				24.57	5.16	24.98	5.16
BL623	19.05	2×3	3.2	17.5	7.94	9.55	12.65	63.70(6,500)	1.82	7.96	9.53	9.53	9.67	–	–	10.31
BL634		3×4				12.80	15.90	95.60(9,750)	2.52				16.50	3.60	16.88	6.83
BL644		4x4				14.42	17.53	127.50(13,000)	2.87				19.85	6.95	20.35	6.95
BL646		4×6				17.67	20.78	127.50(13,000)	3.57				26.43	7.09	27.07	10.31
BL823	25.4	2×3	4	23	9.54	12.45	15.40	103.00(10,500)	2.97	9.56	12.7	12.7	11.97	–	–	12.73
BL834		3×4				16.55	19.50	103.00(10,500)	4.11				20.40	4.44	20.85	8.43
BL844		4x4				18.60	21.55	154.90(15,800)	4.68				24.54	8.58	25.14	8.59
BL846		4×6				22.70	25.65	205.90(21,000)	5.82				32.68	8.74	33.44	12.73
BL866		6x6				26.80	29.75	308.50(31,500)	6.56				41.10	8.58	41.70	8.58
BL1034	31.75	3×4	4.8	28.9	11.11	19.65	23.05	215.70(22,000)	6.17	11.14	15.88	15.88	24.40	5.30	24.93	10.08
BL1046		4×6				27.00	30.40	282.40(28,800)	8.78				39.07	10.43	25.11	15.20
BL1066		6x6				31.90	35.30	423.60(43,200)	10.52				49.15	10.25"	39.96	10.25
BL1234	38.1	3×4	5.6	35	12.71	23.00	27.00	299.10(30,500)	8.71	12.74	19.05	19.05	28.35	6.22	29.30	11.87
BL1246		4×6				31.62	35.63	372.70(38,000)	12.37				45.96	12.26	46.98	17.87

* Stocked in 100ft reels.

Dimensions (Millimeters)

The KCM motorcycle chains are developed to improve fatigue strength and wear resistance, and manufactures under stringent quality control.

Semi-standard roller chain has a narrower width (L1 and L2), and smaller size than those of standard type.
The semi-standard size is suited for use in limited space.



KCM Chain No.	Pitch P	Width between Inner Plates W	Roller Dia. D	PIN				Link Plate		Average tensile strength kgf KN (kgf)	Maximum Allowable Load KN (kgf)	Approx weight (kg/m)
				diameter d	B	(A+A) L1	(A+B) L1	Thickness T	Heights H			
410	12.70	3.40	7.75	3.64	6.05	9.30	10.70	1.0	9.5	1 000 (9.81)	-	0.28
415	12.70	4.76	7.75	3.64	6.90	11.00	12.40	1.1	9.9	9.81(1,000)	2.16(220)	0.34
415 S	12.70	4.80	7.77	3.97	7.90	12.80	14.30	1.5	11.7	1,850(18.1)	380(3,73)	0.51
420	12.70	6.35	7.77	3.97	8.70	14.40	15.90	1.5	11.7	1,850(18.1)	380(3,73)	0.55
428	12.70	7.95	8.5	4.51	9.55	16.10	17.60	1.5	11.7	1,900(18.6)	400(3,92)	0.64
520	15.875	6.35	10.16	5.09	9.95	16.95	18.40	2.00	14.6	3,050(29.9)	650(6.37)	0.89
525	15.875	7.95	10.16	5.09	10.75	18.55	20.00	2.00	14.6	3,050(29.9)	650(6.37)	0.95
530	15.875	9.53	10.16	5.09	11.60	20.3	21.75	2.00	14.6	3,050(29.9)	650(6.37)	1.01
428 H	12.70	7.95	8.5	4.51	10.55	18.1	19.60	2.00	11.7	2,300(22.6)	450(4,41)	0.77
520 H	15.875	6.35	10.16	5.09	10.75	18.55	20.00	2.4	14.6	3,700(36.3)	740(7.26)	1.03
525 H	15.875	7.95	10.16	5.09	11.55	20.15	21.60	2.4	14.6	3,700(36.3)	740(7.26)	1.07
530 H	15.875	9.53	10.16	5.09	12.45	21.95	23.40	2.4	14.6	3,700(36.3)	740(7.26)	1.15
630H	19.05	9.53	11.91	5.96	12.65	22.30	23.80	2.4	17.5	4,200 (41.19)	900 (8.83)	1.37

Dimensions (Millimeters)

X-Ring Roller Chain

X describes the shape of the ring. Instead of having an O shape it now has an X shape. This means that when pressed between the chain plates, it no longer has a flattened O ring shape but instead has two smaller faces touching either plate in an X shape. This gives you the same great sealing and durability but now with very low friction.

KCM Chain No.	Pitch P	Width between Inner Plates W	Roller Dia. D	PIN			Link Plate		Transversion pitch C	Approx. Weight (kg/m)	Links of Dia. 1 unit
				Diameter d	L2	Offset L	Thickness T	Heights H			
08B-1XR	12.7	7.75	8.51	4.45	18.05	19.2	1.6	11.7	13.92	0.65	240
10B-1XR	15.875	9.65	10.16	5.08	20.15	21.5	1.5	14.6	16.59	0.91	192
12B-1XR	19.05 1	11.68	12.07	5.72	23.60	26.30	1.8	16	19.46	1.24	160
16B-1XR	25.4	17.02	15.88	8.28	38.10	41.45	4.0 (3.2)	19.7	31.88	2.62	120

Surface-treated Chains (N), (DC) and (BA)

These surface –treated chains have attractive appearance and increased corrosion resistance.
Select the optimum type from the surface-treated chains to suit your application .

Rustop: N — **All parts are plated with special nickel.**

- Attractive nickel-plated appearance and corrosion resistance
- Maximum allowable load: About 10 % lower than that of standard steel chain (see next page)
- Operating range: −10°C to 4-60°C
- Usable instead of most steel chains and chains with attachments
- When ordering, please put a suffix "N" to chain No.

DC Coat (DC) — **Special film is baked on surface. Matte silver white finish.**

- Corrosion resistance second to stainless steel chain
- Usable even when subject to seawater
- Maximum allowable load: About 25% lower than that of standard steel chain (see next page)
- Even if protective film is peeled off, corrosion resistance is almost unaffected.
- Ordinary operating temperature range of −10°C to +150°C corrosion resistance of protective film is not changed until about 250°C.
- Usable instead of most steel chains and chains with attachments
- When ordering, please put a suffix "DC" to chain No.

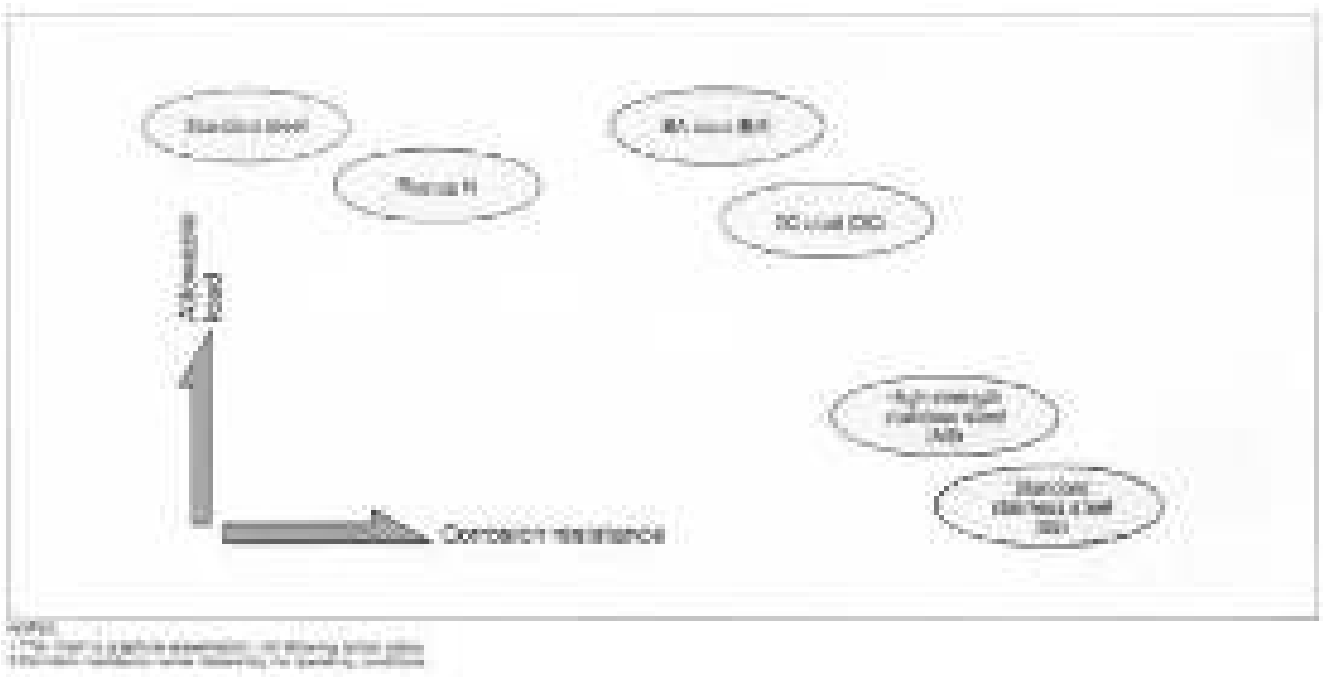
BA Coat (BA) — **Special mechanical surface treatment. Matte dark gray finish.**

- Corrosion resistance superior to rustop chain (N).
- Usable even when subject to seawater
- Maximum allowable load is the same as that of standard steel chain (see next page)
- Protective film has higher peeling resistance than that of DC coat chain
- Ordinary operating temperature range of −20°C to +150°C
- Usable instead of most steel chains and chains with attachments
- When ordering, please add suffix "BA" to chain No.

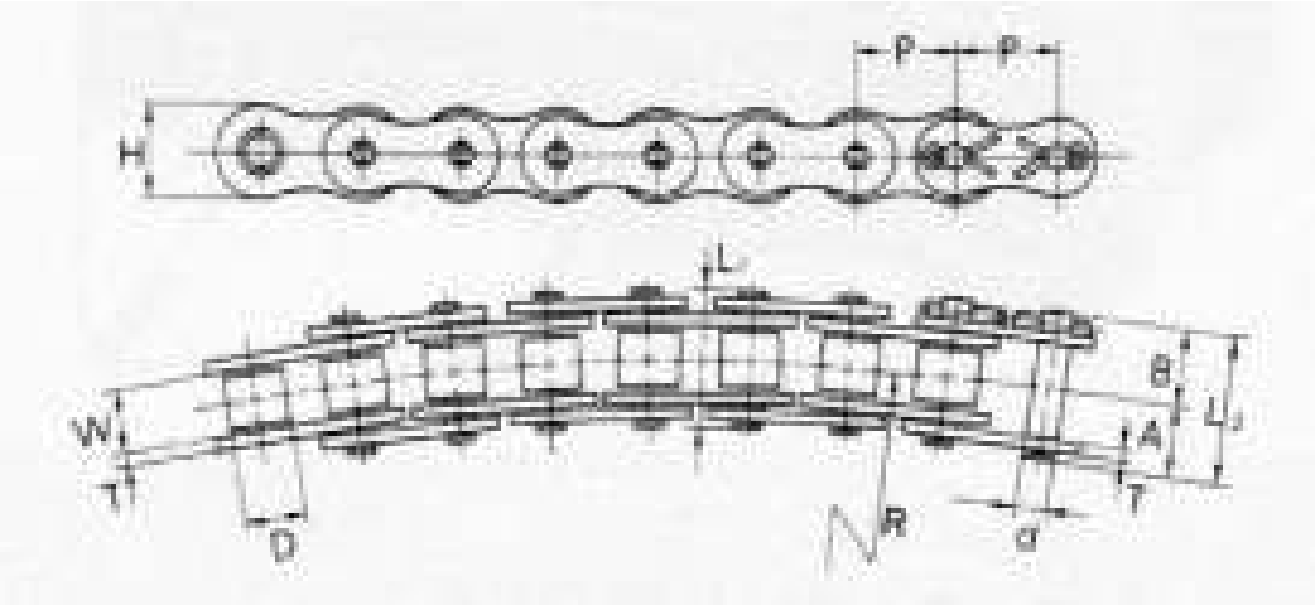
Safety Precautions: Do not use surface-treated chain if chain directly contacts food or abrasion particles are mixed into food.

KCM Chain No.	Max Allowable Load of Surface-Treated Chain			Max Allowable Load of SS Chains		Max. Allowable Load of std SS Chain kgf (N)
	Rustop 'N' kgf(N)	DC coat 'DC' kgf(N)	B coat 'BA' kgf(N)	Standard 'SS' kgf(N)	AS' kgf(N)	
35N	-	-	-	-	-	-
40N	310(3.04)	280(2.75)	370(3.63)	45(0.44)	70(0.69)	370(3.63)
50N	550(5.39)	450(4.41)	650(6.37)	70(0.65)	105(1.03)	650(6.37)
60N	740(7.26)	640(6.28)	900(8.83)	105(1.03)	160(1.57)	900(8.83)
80N	1,300(12.70)	1,090(10.69)	1,500(14.71)	180(1.77)	270(2.65)	1,500(14.71)
C2050N	640(6.28)	640(6.28)	640(6.28)	105(1.03)	160(1.57)	640(6.28)
C2060HN	640(6.28)	640(6.28)	640(6.28)	105(1.03)	160(1.57)	640(6.28)
C2080HN	1,090(10.69)	1,090(10.69)	1,090(10.69)	180(1.77)	270(2.65)	1,090(10.69)

Dimensions (Millimeters)



The side bow chain may be curved for curved movement, using standard sprockets. This chain can also be used with attachments to form a curved conveyor.

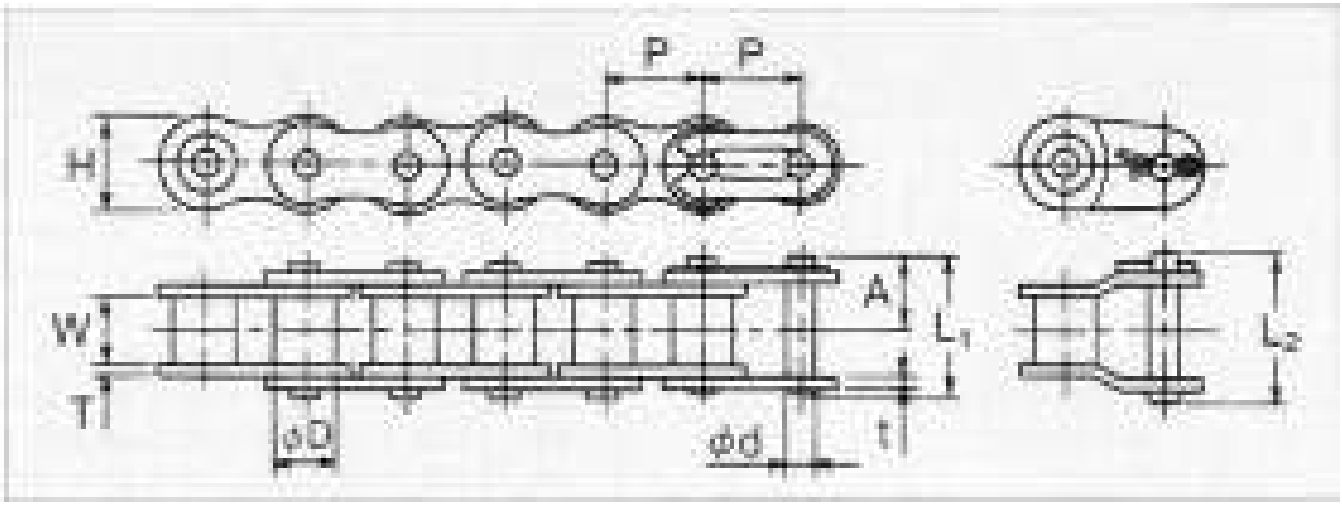


KCM Chain No.	Pitch P	Width between Inner Plates W	Roller Dia. D	PIN					Link Plate		Average tensile strength kgf KN (kgf)	Maximum allowable Load KN (kgf)	Approx weight (kg/m)	Links of 1 Unit
				diameter d	A	B	(A+A) L1	(A+B) L1	Thick-ness T	Heights H				
40 SB	12.70	7.95	7.95	3.97	8.02	9.53	16.06	17.55	1.5	12.0	1,800(18.1)	370(3.63)	0.72	240
50 SB	15.875	9.53	10.16	5.09	10.15	11.60	20.30	21.75	2.0	14.5	3,050(29.9)	650(6.37)	1.20	192
60 SB	19.05	12.70	11.91	5.96	12.65	14.15	25.30	26.80	2.4	17.5	4,200(40.7)	900(8.83)	1.78	160

Dimensions (Millimeters)

Operating Notes to NL and SL Chains

- In dusty environment, there is a possibility that premature wear can occur. If the chain is exposed to water, oil impregnated in bushing will come out, thus promoting wear.
- If oil comes out completely from bushing, rapid wear is caused, shortening service life.

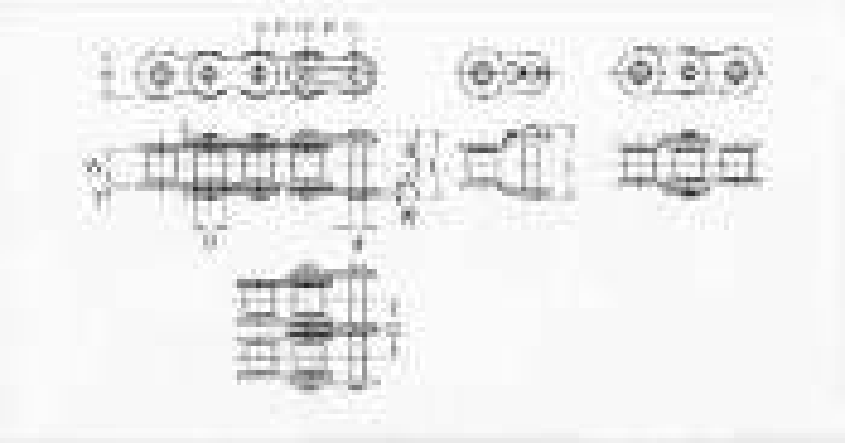


KCM Chain No.	Pitch P	Width between Inner Plates W	Roller Dia. D	PIN				Link Plate			Average tensile strength kgf KN (kgf)	Maximum allowable Load KN (kgf)	Approx weight (kg/m)	Links of 1 Unit
				diameter d	A	(A+A) L1	(A+B) L2	Thickness T	Thickness t	Width H				
40 SL	12.7	7.95	7.95	3.97	9.53	17.55	18.95	1.5	1.5	11.7	1,350(13.2)	230(2.25)	0.58	240
50 SL	15.875	9.53	10.16	5.09	11.60	21.75	23.00	2.0	2.0	14.6	2,100(20.6)	360(3.52)	0.97	192
60 SL	19.05	12.70	11.91	5.96	14.15	26.8	29.45	2.4	2.4	17.5	3,200(31.4)	540(5.28)	1.41	160

Dimensions (Millimeters)

All KCM stainless steel (SS) chains are made of SUS304
(18 CR/8 Nil) austenite steel for use in operating environments requiring high thermal resistance (-20°C to 400°C), corrosion resistance and cleanliness. They can also be fitted with attachments for conveying purposes.

The chains are made of martensite and precipitation hardened stainless steel are available too.
Note: SUS304 stainless steel is almost non-magnetic, which is almost nil magnetic property equivalent to that of the air. The KCM stainless steel roller chains have slight magnetic property as a result of cold manufacturing.



JIS B1801 Stainless Roller Chains

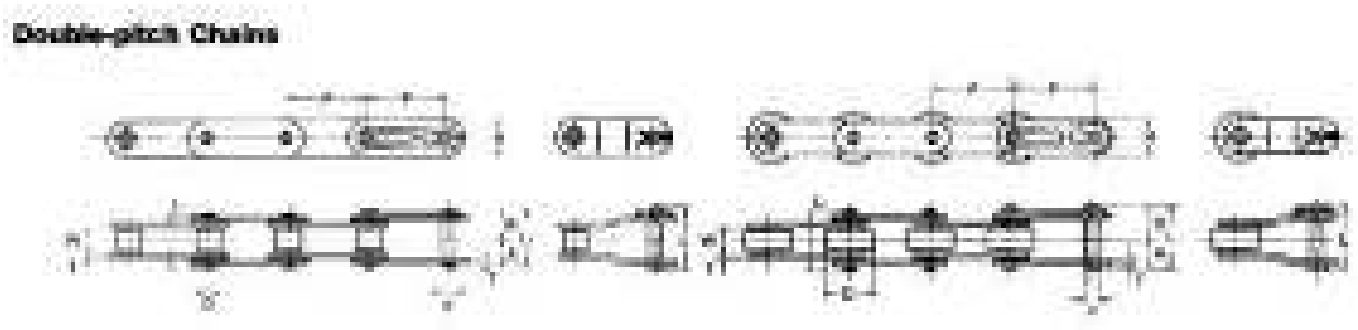
KCM Chain No.	Pitch P	Width between Inner Plates W	Roller Dia. D	PIN						Link Plate		Transversion pitch C	Maximum Allowable Load KN (kgf)	Approx weight (kg/m)	Links of 1 Unit
				diameter d	A	B	(A+A) L1	(A+B) L2	Offset L	Thick-ness T	Width H				
25 SS	6.35	3.18	3.30	2.31	3.82	4.83	7.65	8.65	–	0.75	5.8	6.4	0.12(12)	0.14	480
35 SS	9.525	4.78	5.08	3.59	5.77	7.13	11.55	12.9	13.85	1.25	8.8	10.1	0.26(27)	0.33	320
40 SS	12.70	7.95	7.92	3.97	8.07	9.58	16.15	17.65	19.05	1.5	11.7	14.4	0.44(45)	0.63	240
40-2					15.27	16.78	30.55	32.05	33.45				0.76(77)	1.19	
50 SS	15.875	9.53	10.16	5.09	10.20	11.6	20.4	21.8	23.05	2.0	14.6	18.1	0.69(70)	1.04	192
60 SS	19.05	12.70	11.91	5.96	12.70	14.2	25.4	26.9	29.55	2.4	17.5	22.8	1.03(105)	1.5	160
60-2 SS					24.10	25.60	48.20	49.70	52.35				1.76(179)	2.95	
80 SS	25.40	15.88	15.88	7.94	16.15	19.25	32.3	35.4	37.1	3.2	23	29.3	1.77(180)	2.62	120

Dimensions (Millimeters)

ISO-B Stainless Roller Chains

KCM Chain No.	Pitch P	Width between Inner Plates W	Roller Dia. D	PIN						Link Plate		Transver-sion pitch C	Maximum Allowable Load KN (kgf)	Approx weight (kg/m)	Links of 1 Unit
				diameter d	A	B	(A+A) L1	(A+B) L2	Offset L	Thickness T	Width H				
05B SS	8	3	5	2.31	3.82	4.83	7.65	8.65	-	0.75	7.1	5.64	12 (0.12)	0.18	626
06B SS	9.525	5.72	6.35	3.28	6.1	7.6	12.20	13.70	15.15	1.3(1.0)	8.1	10.24	27 (0.26)	0.39	320
06B SS-2					11.22	12.73	22.45	23.95	25.40				46 (0.45)	0.77	
08B SS	12.70	7.75	8.51	4.45	8.17	9.58	16.35	17.75	19.30	1.5	11.7	13.92	45 (0.44)	0.65	240
08B SS-2					15.12	16.53	30.25	31.65	33.20				77 (0.76)	1.25	
10B SS	15.875	9.65	10.16	5.08	9.58	11.02	19.15	20.60	21.95	1.65	14.6	16.59	70 (0.70)	0.94	192
10B SS-2					17.87	19.33	35.75	37.20	38.55				119 (1.17)	1.84	
12B SS	19.05	11.68	12.07	5.72	11.05	12.55	22.10	23.60	26.30	1.8	16.0	19.46	105 (1.00)	1.25	160
16B SS	25.40	17.02	15.58	8.28	17.6	20.7	35.20	38.30	41.65	4.0(3.2)	19.7	31.88	180 (1.77)	2.63	120

Dimensions (Millimeters)

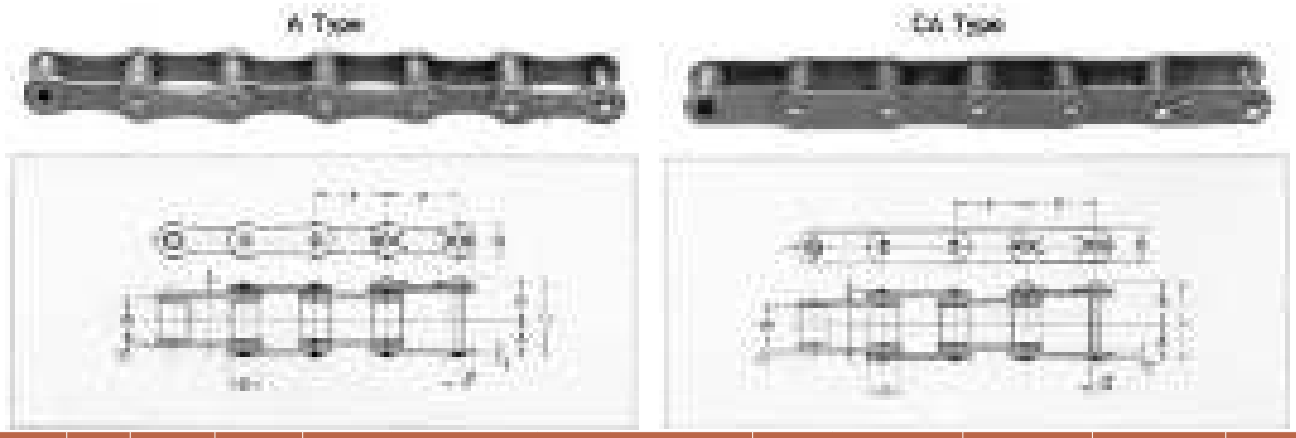


KCM Chain No.	Pitch P	Width between Inner Plates W	Roller Dia. D	PIN						Link Plate		Max. Allowable Load kN (kgf)	Approx. Weight (kg/m)	Links of Dia. 1 unit
				Diameter d	A	B	(A+A) L1	(A+B) L1	Offset L	Thick-ness T	Height H			
C2040 SS	25.40	7.95	7.92	3.97	8.07	10.28	16.15	18.35	19.05	1.5	11.7	45(0.44)	0.49	120
C2042 SS			15.88										0.83	
C2050 SS	31.75	9.53	10.16	5.09	10.17	12.13	20.35	22.30	23.05	2.0	14.6	70(0.69)	0.83	96
C2052 SS			19.05										1.28	
C2060H SS	38.10	12.70	11.91	5.96	14.35	17.05	28.76	31.40	32.85	3.2	17.5	105(1.03)	1.46	80
C2062H SS			22.23										2.14	
C2080H SS	50.8	15.88	15.88	7.94	17.80	20.90	35.60	38.70	40.40	4.0	23.0	180(1.77)	2.44	60
C2082H SS			28.58										3.50	

Dimensions (Millimeters)

CA Type Roller Chains

The KCM A and CA type roller chain are mainly employed for power transmission over relative long shaft to shaft distance and used with attachments, especially in large-sized farm machines.



KCM Chain No.	Pitch P	Width between Inner Plates W	Roller Dia. D	PIN						Link Plate		Max. Allowable Load kN (kgf)	Approx. Weight (kg/m)	Links of Dia. 1 unit
				Diameter d	A	B	(A+A) L1	(A+B) L1	Offset L	Thick-ness T	Height H			
CA550	41.40	20.40	16.66	7.13	17.0	20.55	34.0	37.55	2.6	19.0	4,350 (42.7)	620(6.08)	1.86	
CA557	41.40	20.40	17.78	8.00	18.7	21.55	37.4	40.25	3.1	22.0	6,200(60.8)	880(8.63)	2.41	240
CA620	42.01	25.20	17.68	7.13	20.5	24.05	41.0	44.55	3.1"	19.0	5,200(51.0)	740(7.26)	2.28	

Straight Side Bar Chain

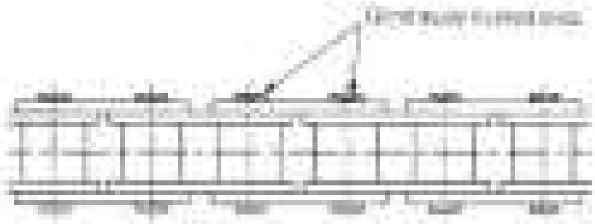
KCM Chain No.	Pitch P	Width between Inner Plates W	Roller Dia. D	PIN						Link Plate		Max. Allowable Load kN (kgf)	Approx. Weight (kg/m)	Links of Dia. 1 unit
				Diameter d	A	B	(A+A) L1	(A+B) L1	Offset L	Thick-ness T	Height H			
40 F	12.70	7.95	7.95	3.97	8.02	9.53	16.06	17.55	1.5	12.0	1,800(18.1)	370(3.63)	0.72	240
50 F	15.875	9.53	10.16	5.09	10.15	11.60	20.30	21.75	2.0	14.5	3,050(29.9)	650(6.37)	1.20	192
60 F	19.05	12.70	11.91	5.96	12.65	14.15	25.30	26.80	2.4	17.5	4,200(40.7)	900(8.83)	1.78	160
80 F	25.4	15.88	15.88	7.94	16.07	19.18	32.15	35.25	3.2	23.0	7,400(72.6)	1,500(4.71)	2.97	120
100 F	31.75	19.05	19.05	9.54	20.10	23.05	40.20	43.15	4.0	28.9	11,500(113.3)	2,300(22.56)	4.57	96
120 F	38.10	25.40	22.23	11.11	25.20	28.60	50.40	53.80	4.8	35.0	16,000(156.4)	3,100(30.40)	6.64	80

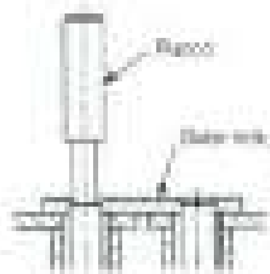
⚠ CAUTIONS (For Safe Operation)

- Always wear proper clothing and protective equipment (safety goggles and [illegible] shoes) appropriate to the job.
- Pay attention to safety of work area and surrounding workers.
- Follow the related labor safety regulations.
- Before starting the work, make sure to turn power off, and avoid accidental power-on. Also, be careful that clothing or part of body is not caught by a chain, sprocket, or peripheral equipment during work.
- Clean work area, and work in safe environment.
- Do not stand or walk under lifting equipment.
- Before transferring a chain, be sure to secure it firmly.

Adjusting Chain Length (Number of Links)

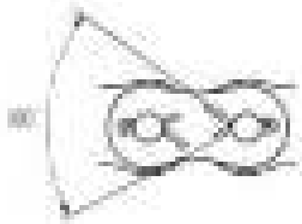
1. [illegible]
2. [illegible]
3. [illegible]
4. [illegible]
5. [illegible]

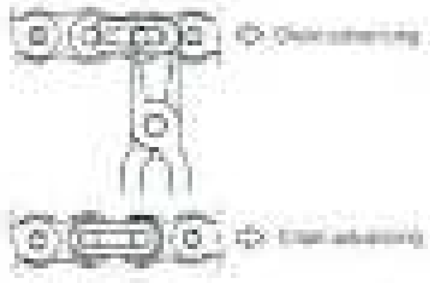




Connection (Installation to Equipment)

1. [illegible]
2. [illegible]
3. [illegible]
4. [illegible]





[illegible]

Proper slack 'S' is determined by the following equation:

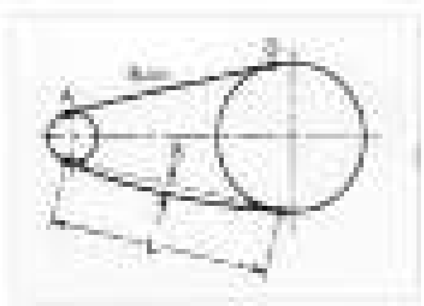
S = 0.02L

where L is span

Adjust shaft-to-shaft distance to set proper slack 'S'.

In the following cases, decrease slack 'S' by the equation of [illegible].

- Vertical arrangement
- Upper side of chain is [illegible]
- Shaft-to-shaft distance exceeds 60 times pitch
- Vibration or impact is present
- Chain starts and stops frequently
- Forward-reverse loads are supplied frequently
- Speed change ratio exceeds [illegible]



Proper shaft-to-shaft distance is 30 to 50 times pitch.

CAUTIONS (Remanufacturing and additional manufacturing are prohibited.)

Remanufacturing and additional manufacturing of chain and related parts are prohibited. Otherwise, this will lead to chain failure. If remanufacturing or additional manufacturing is necessary, contact us.

- Electric plating will lead to brittle breakage.
- Welding of heat-treated chain will cause cracks or sacrifice strength.
- Annealing of heat-treated chain will reduce strength of part
- Enlargement of connecting link hole and reduction in connecting pin diameter will reduce strength

2.Operation

Check Items Before Operation

• Before operation, check if the following items are correctly set and safety cover is installed.

• If abnormal noise is caused during operation, immediately stop operation and find cause of trouble and remedy.

Check Items	Description
Sprocket	Check if sprocket is engaged correctly and chain is proper.
Link connections	Check if links are connected correctly and parts are firmly seated.
Hindrance	Check if there is any part or equipment that interferes with chain or any part that will be disturbed.
Lubricant	Check if lubrication is proper.
Safety cover	Check if proper safety cover is installed.
Peripheral equipment	Check if peripheral equipment is installed.

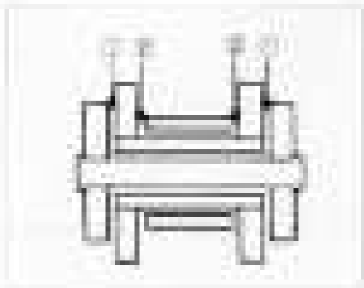
Lubrication

[illegible]

Lubricating Points

① Clearance between inner and outer links to avoid elongation of chain.

② Clearance between rollers and bushings to reduce wear of bushings and rollers, to avoid from breakage and to decrease noise.



3.Inspection and Maintenance

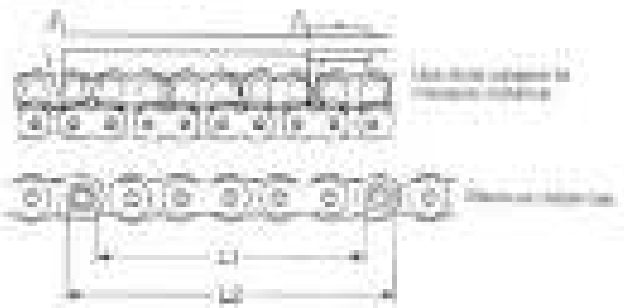
[illegible]

[illegible]

Inspection Items	Measures to Troubles
Harmful flaw or rust	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
Lubrication of chain	Lubricate by correct lubrication method.

Elongation Measuring Method and Chain Replacement Timing

1.Measuring Chain Elongation



- [illegible]
- [illegible]
- [illegible]

$$\text{Chain length} = \frac{L1 + L2}{2}$$

Reference chain length = Pitch × Number of links measured

$$\text{Elongation (\%)} = \frac{\text{Chain length} - \text{Reference chain length}}{\text{Reference length}} \times 100$$

2.Chain Replacement Timing

[illegible]

[illegible]	Elongation (%)
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]
[illegible]	[illegible]

[illegible]

NOTE [illegible]

⚠ CAUTIONS

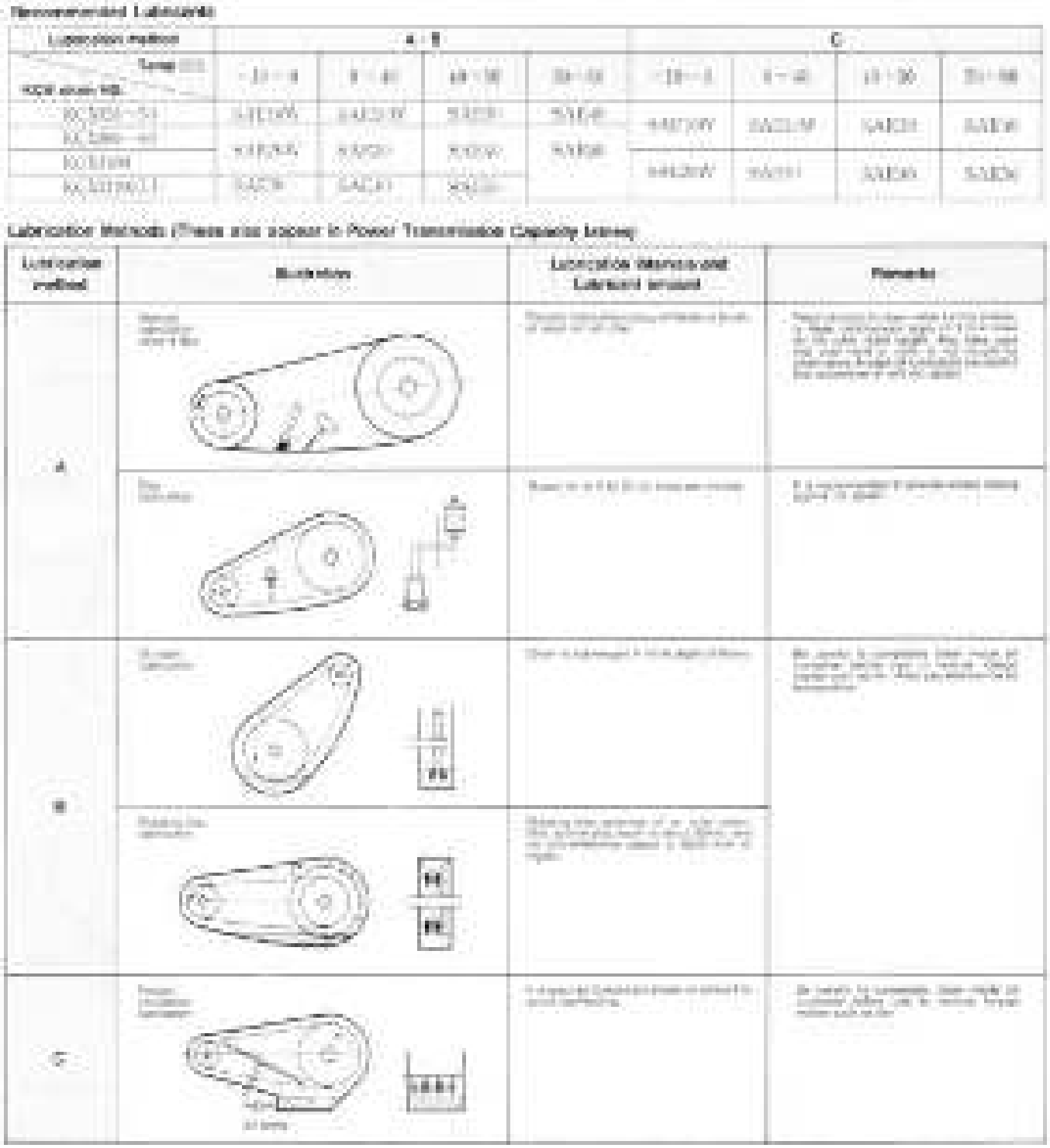
1.Do not replace the damaged parts of a chain with new ones. In this case, change the whole chain. Also do not install the used connecting link and parts to a new chain.

2.Do not adhere acid or alkaline liquid and highly volatile solvent to chain and sprockets, and do not use them for cleaning. If acid or alkaline liquid is accidentally adhered to chain, replace a chain with a new one. Adherence of acid or alkaline liquid will lead to brittle breakage.
Use kerosene for cleaning. After cleaning, dry kerosene and apply lubricant sufficiently.

Lubrication is of prime importance for roller chain because it greatly influences its service life, especially in modern high-speed chain drives. Therefore, the use of highly efficient lubrication is required.

When lubricant is applied to clearances among pin, bush and roller, oil film is formed to prevent wear on parts and serve as a cushion, and absorbs heat generated in chain.
Recommended lubricant is high-quality mineral oil.

Effect of Lubrication



FINERPOWER TRANSMISSIONS

SSP CHAIN

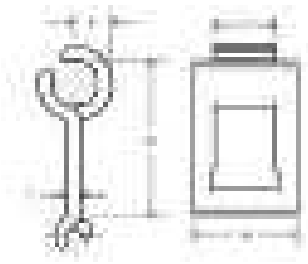
SSP - Agri-Power

Engineered Chains

SSP - AGRI-POWER ENGINEERED CHAINS

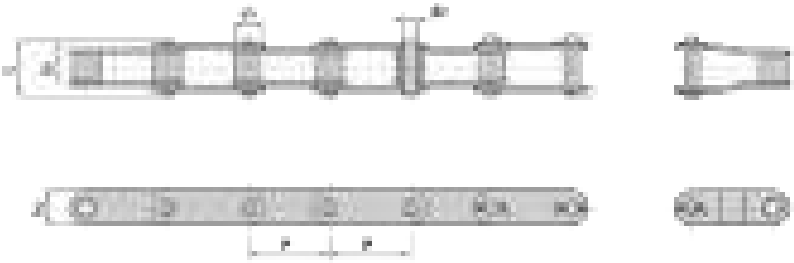
SSP CHAIN

Detachable Chain



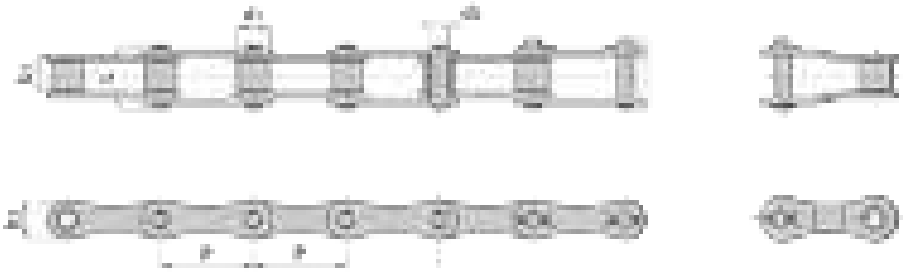
Chain No	Pitch	D	F	M	T	Tensile strength	Weight per meter
	(mm)					(KN)	(kg/m)
S25 DET	22.96	10.72	4.572	17.8	1.854	3.382	0.30
S32 DET	29.39	15.09	5.842	23.8	2.286	5.874	0.48
S42 DET	34.93	-	-	-	-	-	-
S51 DET	28.78	17.86	5.893	27.8	2.540	7.496	0.60
S52 DET	38.30	21.44	7.696	35.7	2.048	9.612	0.983
S55 DET	41.40	20.22	8.128	32.5	3.175	9.968	0.924
S62 DET	42.01	24.99	8.51	39.7	3.76	15.56	1.35

CA Series Roller Chain

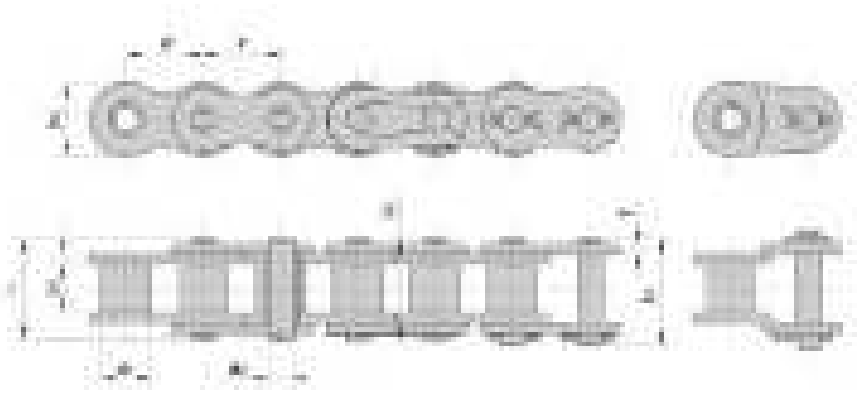


DIN ISO Chain No	Pitch	d1 max	b1 min	h2 max	d2 max	L max	Min. T.S	A.T.S	Weight
	mm	mm	mm	mm	mm	mm	kN	kN	kg/m
CA550	41.4	16.66	19.81	19.30	7.19	35.00	39.10	51.20	1.94
CA557	41.40	17.78	20.24	23.10	7.92	37.10	55.60	66.72	2.623

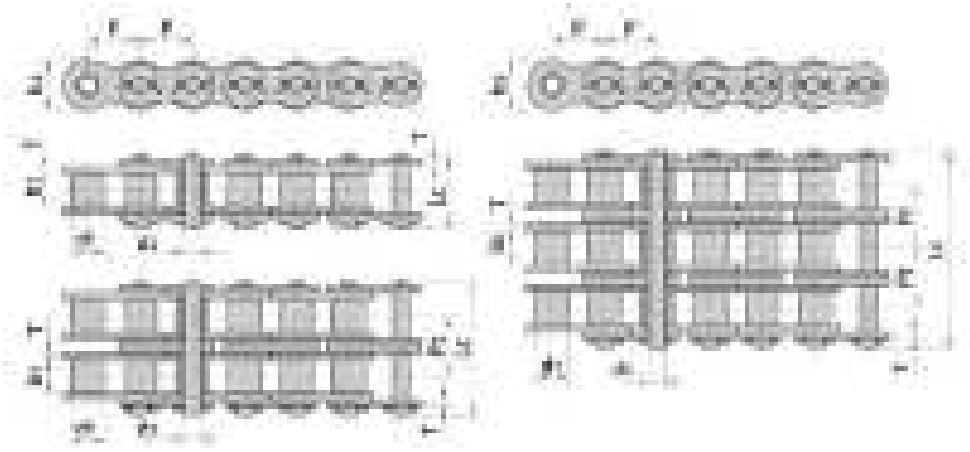
Pressed Steel Roller Chain



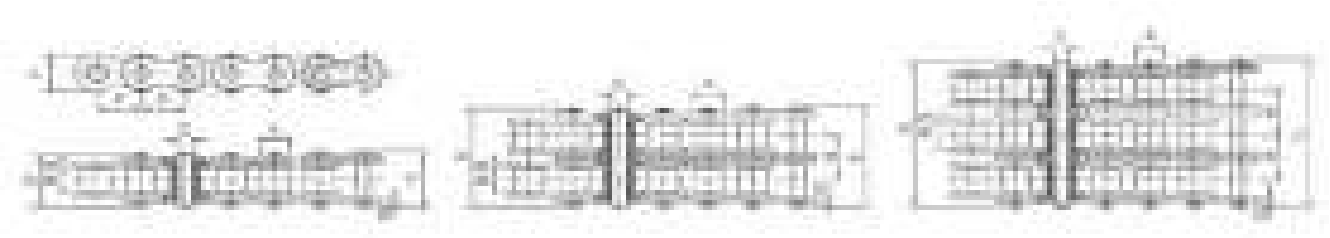
Chain	Pitch	d1	b1	h2	d2	L	U.T.S KN	A.T.S KN	KG/ft
S32	29.21	11.43	15.88	13.4	4.45	26.7	8	9.6	0.28
S42	34.96	14.27	19.05	-	-	-	-	-	-
S52	38.1	15.24	22.23	17.2	5.74	36.9	17.8	21.36	0.55
S55	41.4	17.78	22.23	17.2	5.74	36.9	17.8	21.36	0.57
S62	41.91	19.05	25.4	17.2	5.74	40	26.7	32.04	0.66
S77	58.34	18.26	22.23	-	-	-	-	-	-



Chain No.	Pitch	Roller diameter	Width between inner plates	Pin diameter	Pin length		Inner plate depth	Plate thickness	Ultimate tensile strength	Average tensile strength	Weight per meter
	p	d1 max	b1 min	d2 max	L max	Lc max	h2 max	T max			
	mm	mm	mm	mm	mm	mm	mm	mm	kN/LB	kN	kg/m
40-1	12.70	7.95	7.85	3.96	16.60	17.80	12.00	1.50	14.10/3205	17.5	0.62
50-1	15.875	10.16	9.40	5.08	20.70	22.20	15.09	2.03	22.20/5045	29.4	1.02
60-1	19.05	11.91	12.57	5.94	25.90	27.70	18.00	2.42	31.80/7227	41.5	1.50
80-1	25.40	15.88	15.75	7.92	32.70	35.00	24.00	3.25	56.70/12886	69.4	2.60
08B-1	12.700	8.51	7.75	4.45	16.70	18.20	11.80	1.60	18.00	19.40	0.69
10B-1	15.875	10.16	9.65	5.08	19.50	20.90	14.70	1.70	22.40	27.50	0.93
12B-1	19.050	12.07	11.68	5.72	22.50	24.20	16.00	1.85	29.00	32.20	1.15
16B-1	25.400	15.88	17.02	8.28	36.10	37.40	21.00	4.15/3.1	60.00	72.80	2.71



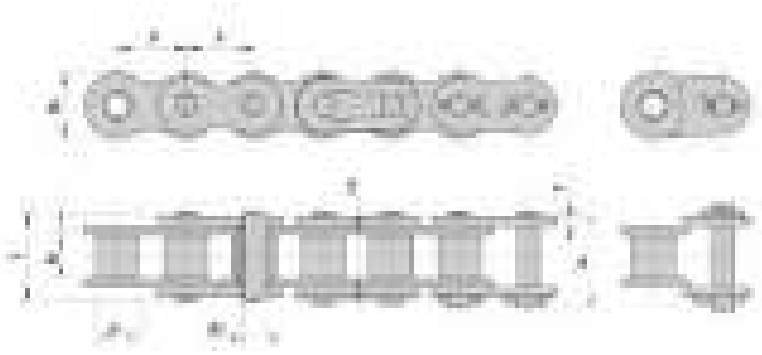
Chain No.	Pitch	Roller diameter	Width between inner plates	Pin diameter	Pin length	Inner plate depth	Plate thickness	Ultimate tensile strength	Average tensile strength	Weight per meter
	p	d1 max	b1 min	d2 max	L max	h2 max	T max			
	mm	mm	mm	mm	mm	mm	mm	kN/LB	kN	kg/m
50H	15.875	10.16	9.40	5.08	24.4	15.09	2.42	22.2/5045	30.2	1.25
60H	19.05	11.91	12.57	5.94	31.6	18.00	3.25	31.8/7227	42.7	1.87
80H	25.40	15.88	15.75	7.92	39.4	24.00	4.00	56.7/12886	71.4	3.10



ISO Chain No.	Pitch	Roller diameter	Width between inner plates	Pin diameter	Pin length		Inner plate height	Plate thickness	Transverse pitch	Minimum tensile strength	Average tensile strength	Weight per meter
	P	A	B	C	D	E	F	g/G	H			
	mm	mm	mm	mm	mm	mm	mm	mm	mm	kN	kN	kg/m
SIMPLEX												
25-1	6.350	3.30	3.18	2.31	7.90	8.40	6.00	0.80	-	3.5	4.6	0.15
35-1	9.525	5.08	4.77	3.58	12.40	13.17	9.00	1.30	-	7.9	10.8	0.33
41-1	12.700	7.77	6.25	3.58	13.75	15.00	9.91	1.30	-	6.87	12.6	0.41
40-1	12.700	7.95	7.85	3.96	16.60	17.80	12.00	1.50	-	14.1	17.5	0.62
50-1	15.875	10.16	9.40	5.08	20.70	22.20	15.09	2.03	-	22.2	29.4	1.02
60-1	19.050	11.91	12.57	5.94	25.90	27.70	18.00	2.42	-	31.8	41.5	1.50
80-1	25.400	15.88	15.75	7.92	32.70	35.00	24.00	3.25	-	56.7	69.4	2.60
100-1	31.750	19.05	18.90	9.53	40.40	44.70	30.00	4.00	-	88.5	109.2	3.91
120-1	38.100	22.23	25.22	11.10	50.30	54.30	35.70	4.80	-	127.0	156.3	5.62
140-1	44.450	25.40	25.22	12.70	54.40	59.00	41.00	5.60	-	172.4	212.0	7.50
160-1	50.800	28.58	31.55	14.27	64.80	69.60	47.80	6.40	-	226.8	278.9	10.10
200-1	63.500	39.68	37.85	19.85	80.30	87.20	60.00	8.00	-	353.8	431.6	16.15
DUPLEX												
35-2	9.525	5.08	4.77	3.58	22.50	23.30	9.00	1.30	10.13	15.8	19.7	0.63
40-2	12.700	7.95	7.85	3.96	31.00	32.20	12.00	1.50	14.38	28.2	35.9	1.12
50-2	15.875	10.16	9.40	5.08	38.90	40.40	15.09	2.03	18.11	44.4	58.1	2.00
60-2	19.050	11.91	12.57	5.94	48.80	50.50	18.00	2.42	22.78	63.6	82.1	2.92
80-2	25.400	15.88	15.75	7.92	62.70	64.30	24.00	3.25	29.29	113.4	141.8	5.15
100-2	31.750	19.05	18.90	9.53	76.40	80.50	30.00	4.00	35.76	177.0	219.4	7.80
120-2	38.100	22.23	25.22	11.10	95.80	99.70	35.70	4.80	45.44	254.0	314.9	11.70
140-2	44.450	25.40	25.22	12.70	103.30	107.90	41.00	5.60	48.87	344.8	427.5	15.14
160-2	50.800	28.58	31.55	14.27	123.30	128.10	47.80	6.40	58.55	453.6	562.4	20.14

ISO Chain No.	Pitch	Roller diameter	Width between inner plates	Pin diameter	Pin length		Inner plate height	Plate thickness	Transverse pitch	Minimum tensile strength	Average tensile strength	Weight per meter
	P	A	B	C	D	E	F	g/G	H			
	mm	mm	mm	mm	mm	mm	mm	6.35	mm	kN	kN	kg/m
25H-1	6.35	3.3	3.18	2.310	-	-	-	-	-	-	-	-
40H-1	12.7	7.925	7.925	-	-	-	-	-	-	-	-	-
50H-1	15.875	10.16	9.40	5.08	22.10	23.40	15.09	2.42	-	22.20	30.20	1.25
60H-1	19.050	11.91	12.57	5.94	29.20	31.00	18.00	3.25	-	31.80	42.70	1.87
80H-1	25.400	15.88	15.75	7.92	36.20	37.70	24.00	4.00	-	56.70	71.40	3.10
100H-1	31.750	19.05	18.90	9.53	43.60	46.90	30.00	4.80	-	88.50	112.40	4.52

Motorcycle Chain

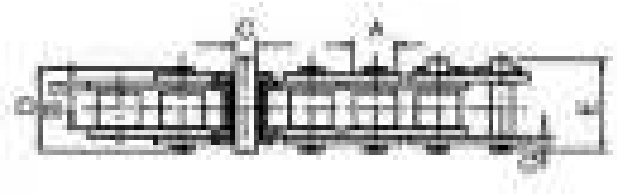


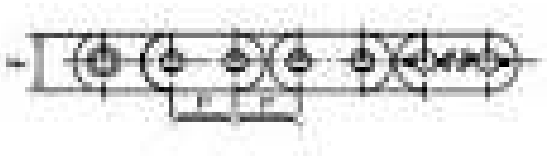
Chain No.	Pitch	Roller diameter	Width between inner plates	Pin diameter	Pin length		Inner plate depth	Plate thickness	Minimum tensile strength	Average tensile strength	Weight per meter
	p	d1 max	b1 min	d2 max	L max	Lc max	h2 max	T max			
415H	12.7	7.77	4.76	3.97	12.8	14.3	11.7	1.5	6.86	7.6	0.32

ISO Chain No.	Pitch	Roller diameter	Width between inner plates	Pin diameter	Pin length		Inner plate height	Plate thickness	Transverse pitch	Minimum tensile strength	Average tensile strength	Weight per meter
	P	A	B	C	D	E	F	g/G	H			
	mm	mm	mm	mm	mm	mm	mm	mm	mm	kN	kN	kg/m
SIMPLEX												
05B-1	8.000	5.00	3.00	2.31	8.20	8.90	7.10	0.8	-	5.00	5.90	0.20
06B-1	9.525	6.35	5.72	3.28	13.15	14.10	8.20	1.30	-	9.00	10.40	0.41
08B-1	12.700	8.51	7.75	4.45	16.70	18.20	11.80	1.60	-	18.00	19.40	0.69
10B-1	15.875	10.16	9.65	5.08	19.50	20.90	14.70	1.70	-	22.40	27.50	0.93
12B-1	19.050	12.07	11.68	5.72	22.50	24.20	16.00	1.85	-	29.00	32.20	1.15
16B-1	25.400	15.88	17.02	8.28	36.10	37.40	21.00	4.15/3.1	-	60.00	72.80	2.71
20B-1	31.750	19.05	19.56	10.19	41.30	45.00	26.40	4.5/3.5	-	95.00	1 06.70	3.70
24B-1	38.100	25.40	25.40	14.63	53.40	57.80	33.20	6.0/4.8	-	160.00	178.00	7.10
28B-1	44.450	27.94	30.99	15.90	65.10	69.50	36.70	7.5/6.0	-	200.00	222.00	8.50
32B-1	50.800	29.21	30.99	17.81	66.00	71.00	42.00	7.0/6.0	-	250.00	277.50	10.25
DUPLEX												
06B-2	9.525	6.35	5.72	3.28	23.40	24.40	8.20	1.30	10.24	16.90	18.70	0.77
08B-2	12.700	8.51	7.75	4.45	31.20	32.20	11.80	1.60	13.92	32.00	38.70	1.34
10B-2	15.875	10.16	9.65	5.08	36.10	37.50	14.70	1.70	16.59	44.50	56.20	1.84
12B-2	19.050	12.07	11.68	5.72	42.00	43.60	16.00	1.85	19.46	57.80	66.10	2.31
16B-2	25.400	15.88	17.02	8.28	68.00	69.30	21.00	4.15/3.1	31.88	106.00	133.00	5.42
20B-2	31.750	19.05	19.56	10.19	77.80	81.50	26.40	4.5/3.5	36.45	170.00	211.20	7.20
24B-2	38.100	25.40	25.40	14.63	101.70	106.20	33.20	6.0/4.8	48.36	280.00	319.20	13.40
28B-2	44.450	27.94	30.99	15.90	124.60	129.10	36.70	7.5/6.0	59.56	360.00	406.80	16.60
TRIPLEX												
08B-3	12.7	8.509	7.747	-	-	-	-	-	-	-	-	-
10B-3	15.875	10.16	9.65	5.08	53.8	55.15	14.70	1.70	16.59	66.80	84.50	2.71
12B-3	19.050	12.065	11.684	-	-	-	-	-	-	-	-	-
16B-3	25.400	15.88	17.02	8.28	101.9	105.25	21.00	4.15/3.1	31.88	126.80	203.70	7.75

Straight Side Plate Chain

Chain	Pitch	Roller diameter	Width between inner plates	Pin diameter	Pin length		Inner plate height	Plate thickness	Minimum tensile strength	Average tensile strength	Weight per meter
	P	A	B	C	D	E	F	g/G	kN	kN	kg/m
12B-1GL	19.050	12.07	11.68	5.72	22.50	24.20	16.00	1.85	29.00	32.2	1.32





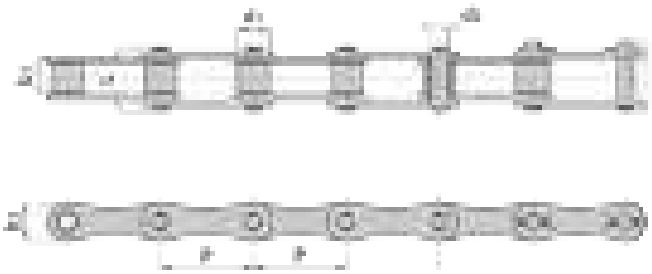
ANSI & BS Series Chain

Chain No.	Reel Length	Pitch	Roller diameter	Width between inner plates	Pin diameter	Pin length		Inner plate depth	Plate thickness	Minimum tensile strength	Average tensile strength	Weight per meter
		p	d1 max	b1 min	d2 max	L max	Lc max	h2 max	T max			
	ft	mm	mm	mm	mm	mm	mm	mm	mm	kN/LB	kN	kg/m
40-1	100	12.70	7.95	7.85	3.96	16.60	17.80	12.00	1.50	14.10/3205	17.5	0.62
50-1	100	15.875	10.16	9.40	5.08	20.70	22.20	15.09	2.03	22.20/5045	29.4	1.02
60-1	100	19.05	11.91	12.57	5.94	25.90	27.70	18.00	2.42	31.80/7227	41.5	1.50
80-1	50	25.40	15.88	15.75	7.92	32.70	35.00	24.00	3.25	56.70/12886	69.4	2.60
06B-1	100	9.525	6.35	5.72	3.28	13.15	14.10	8.20	1.30	9.00	10.40	0.41
08B-1	100	12.700	8.51	7.75	4.45	16.70	18.20	11.80	1.60	18.00	19.40	0.69
10B-1	100	15.875	10.16	9.65	5.08	19.50	20.90	14.70	1.70	22.40	27.50	0.93
12B-1	100	19.050	12.07	11.68	5.72	22.50	24.20	16.00	1.85	29.00	32.20	1.15

Heavy Duty Series Chain

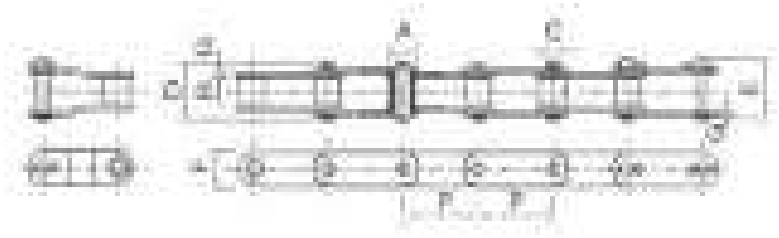
Chain No.	Reel Length	Pitch	Roller diameter	Width between inner plates	Pin diameter	Pin length		Inner plate height	Plate thickness	Minimum tensile strength	Average tensile strength	Weight per meter
		p	d1 max	b1 min	d2 max	L max	Lc max	h2 max	T max			
	ft	mm	mm	mm	mm	mm	mm	mm	kN/LB	kN	kN	kg/m
60H	50	19.050	11.91	12.57	5.94	29.20	31.00	18.00	3.25	31.80	42.70	1.87
80H	50	25.400	15.88	15.75	7.92	36.20	37.70	24.00	4.00	56.70	71.40	3.10

Agricultural Chain

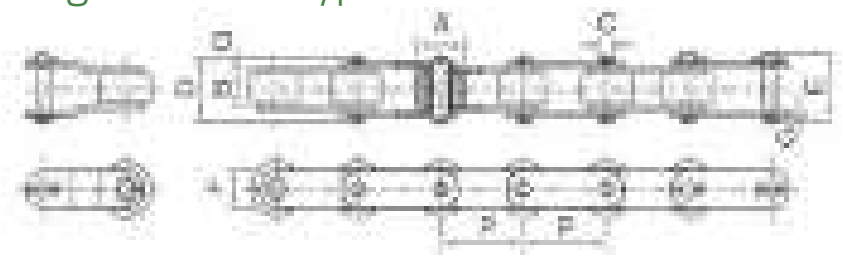


Chain No.	Reel Length	Pitch	d1	b1	h2	d2	L	U.T.S KN	A.T.S KN	KG/ft
S32	100	29.21	11.43	15.88	13.4	4.45	26.7	8	9.6	0.28

Small Roller S Type



Large Roller R Type

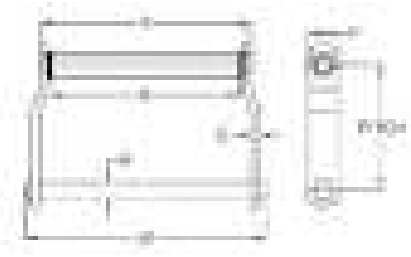


ANSI Chain No.	Pitch	Roller diameter	Width between inner plates	Pin diameter	Pin length		Inner plate height	Plate thickness	Minimum tensile strength	Average tensile strength	Weight per meter
	P	A	B	C	D	E	F	G			
	mm	mm	mm	mm	mm	mm	mm	mm	kN	kN	kg/m
C2040	25.40	7.95	7.85	3.96	16.60	17.80	12.00	1.50	14.10	16.70	0.50
C2042H		15.88			18.80	19.90		2.03		17.20	0.65
C2050	31.75	10.16	9.40	5.08	20.70	22.20	15.00	2.03	22.20	28.10	0.78
C2052		19.05									1.27
C2060H	38.10	11.91	12.57	5.94	29.20	31.60	18.00	3.25	31.80	41.60	1.44
C2062H		22.23									2.07
C2080H	50.80	15.88	15.75	7.92	36.20	39.40	24.40	4.00	56.70	70.00	2.54
C2082H		28.58									3.58
C2100H	63.5	-	18.9	-	-	-	-	-	-	-	-
C2160H	101.60	28.58	31.75	14.28	67.7	72.9	47.6	6.4	226.8	278.9	8.23
C2052HPX50FT	31.75	19.05	9.40	5.08	20.70	22.20	15.00	2.03	22.20	28.10	1.27

208B & 212B Chain

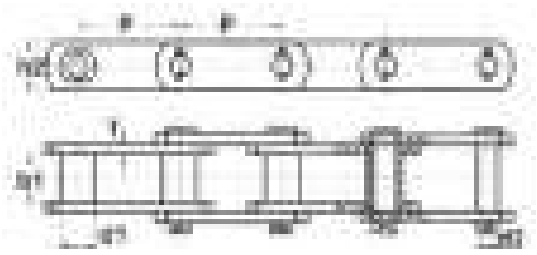
DIN ISO Chain No.	Pitch		d1 max	b1 min	d2 max	h2 max	L max	Lc max	Min.T.S	A.T.S	Weight
	mm	mm	mm	mm	mm	mm	mm	mm	KN	KN	kg/m
208B	25.4	1"	8.51	7.75	4.45	11.80	17.00	16.70	18.00	19.40	0.45
212B	38.10	1"1/2	12.07	11.68	5.72	16.10	22.45	23.40	29.00	32.20	0.78

Drag Chain



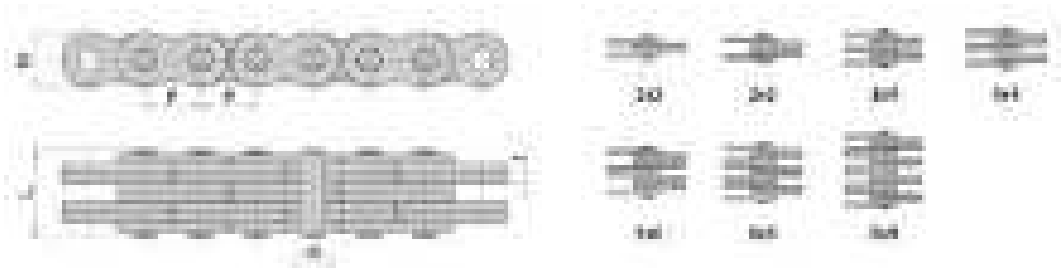
Chain	Pitch mm	Pitch inch	JK	X	A	E	D	F	Rated Working Load Lbs	A.T.S Lbs	App Kg/ft
WD110	152.40	6	301.62	263.52	19.05	9.52	228.60	38.10	8,500	51,000	5.46

Engineered Steel Bushing Chain



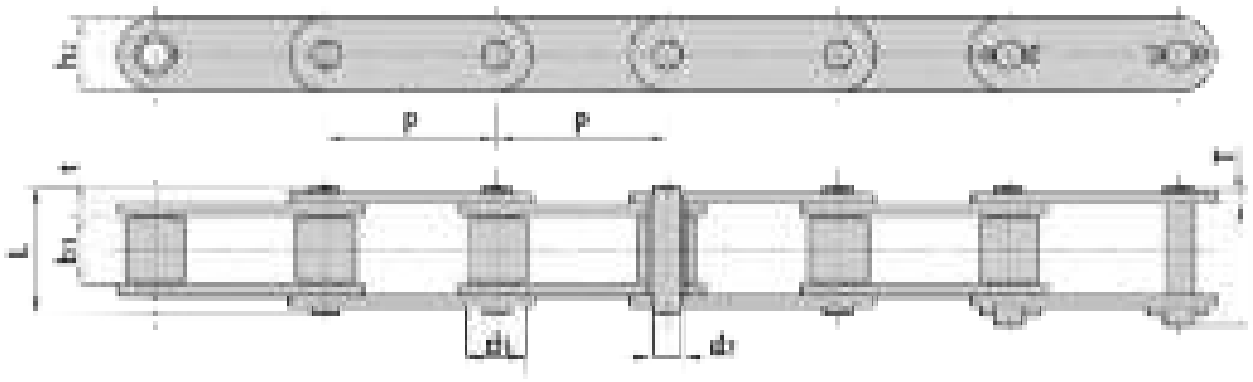
Chain	Pitch mm	Pitch inch	b1	d1	d2	h2	T	U.T.S KN	A.T.S KN
SS131	78.10	3	31.7	32.5	15.88	39.6	9.7	160	192.00
SS188	66.27	2.6	25.6	22.4	12.70	30.0	6.4	102	122.40
SS110	152.4	6	54	31.75	15.875	38.1	9.65	-	-
SS102B	101.60	4	50.80	25.4	15.88	38.1	9.53	-	-

BL Series Leaf Chain



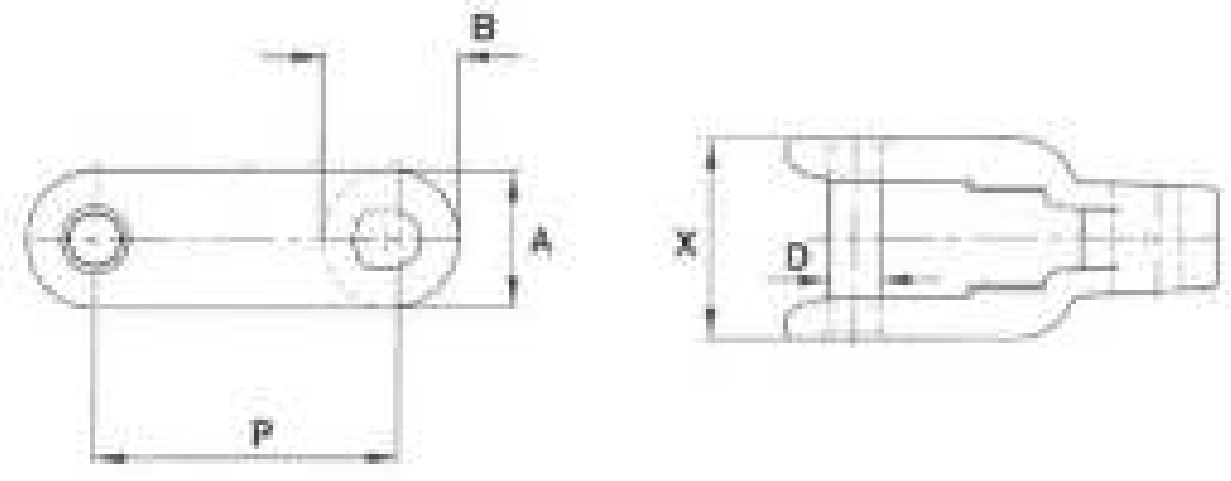
Chain	Pitch	Lacing	h2	T	d2	L	Min. TS KN	ATS KN	Kg/ft
BL523	15.88	2x3	15.09	2.44	5.96	17.42	33.4	43.10	0.36
BL534	15.88	3x4	15.09	2.44	5.96	20.20	48.9	63.6	0.49
BL623	19.05	2x3	18.11	3.3	7.94	22.2	48.9	63.6	0.60
BL634	19.05	3x4	18.11	3.30	7.94	27.43	75.6	102.6	0.76
BL646	19.05	4x6	18.11	3.3	7.94	37.67	97.9	120.9	1.20
BL822	25.40	2x2	24.13	4.09	9.54	23.41	84.5	108.2	0.74
BL823	25.4	2x3	24.13	4.09	9.54	25.48	84.5	108.2	0.90
BL834	25.40	3x4	24.13	4.09	9.54	33.76	129.0	143.6	1.15
BL846	25.40	4x6	24.13	4.09	9.54	48.35	169.0	214.6	1.80
BL866	25.41	6x6	24.13	-	-	-	-	-	-

Lumber Conveyor Chain



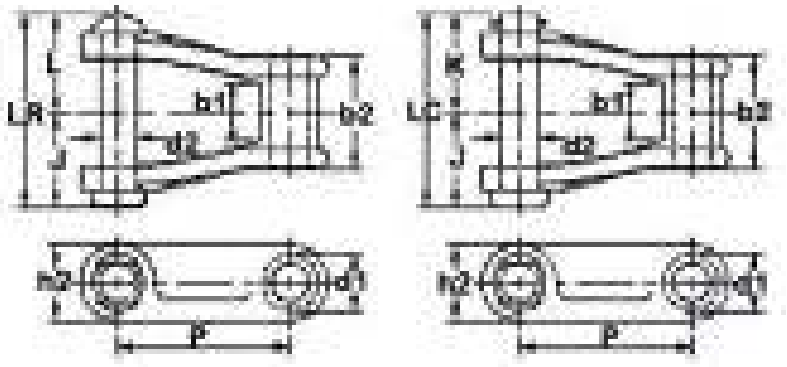
Chain	Pitch	b1	d1	h2	t	T	d2	L	U.T.S KN	A.T.S KN	Kg/ft
81X	66.27	26.99	23.02	28.6	4.0	4.0	11.1	49.0	106.70	128.04	1.11
81XH	66.27	26.99	23.02	31.4	7.5	5.6	11.1	59.2	152.00	182.40	1.70
81XHH	66.27	26.99	23.02	31.4	7.5	7.5	11.1	66.3	186.7	205	2.09

Milk Crate Chain



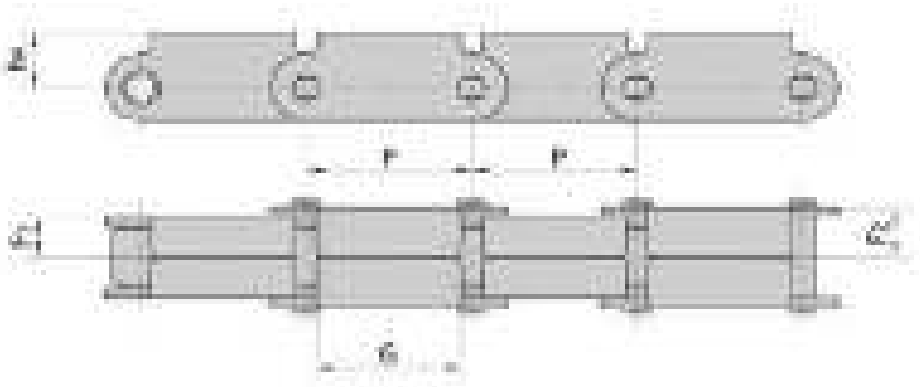
Chain	Pitch	X	D	B	A	Max. Load Lbs	U.T.S Lbs	App. Kg/ft
CC600	64	43	11	13	29	1,850	3,400	0. 6

Pintle Chain "H"



Chain	Pitch mm	Pitch inch	b1	Lr	Lc	h2	d1	J	K	L	b2	App. Kg/ft
H78	66.26	2.609	28.57	80.94	84.12	28.57	22.22	39.67	41.27	41.27	47.62	1.91

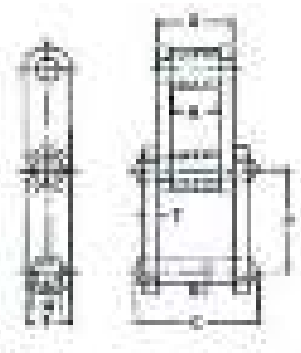
Roof Top Chain



Chain	Pitch	F1	F2	G	h4
81X RT	66.27	17.5	21.8	56.0	25.4

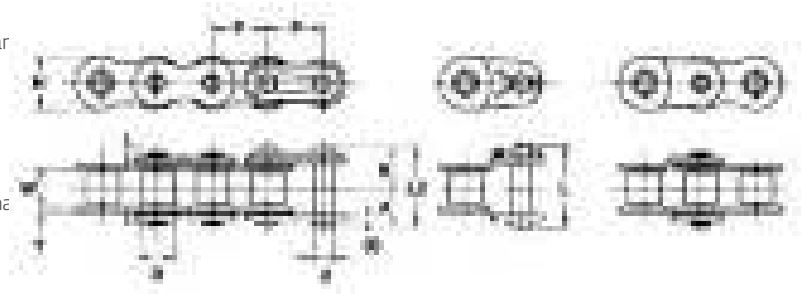
Combination Chain

Chain	Pitch	A	C	D	E	F	H	T	X	App. Kg/ft	Maximum working load (Aprox. kg)
C55	41.43	17.45	52.37	9.53	49.99	19.05	18.24	4.75	31.75	0. 91	635.09
C188	66.27	23.80	68.25	12.70	63.50	28.58	22.23	6.35	39.67	1. 58	1067
C102B	101.60	50.80	115.87	15.88	111.13	38.10	24.59	9.53	73.81	2. 90	2449.40
C131	78.105	28.448	95.25	-	-	-	-	-	-	-	1759.94



Finer Power Transmissions stocks a range of economy Stainless Steel chain in British Standard, American Standard ar Double Pitch.

This economy range of Stainless Steel chain offers a cost saving alternative to more expensive brands.
Using SUS304 grade stainless steel in its construction, this cha is food grade quality.

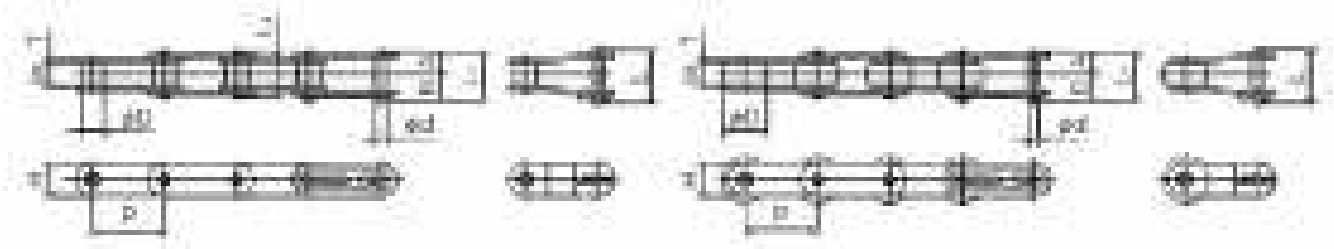


BS Stainless Steel Chain

Chain	Pitch (P)	Inner Width (W)	Roller Dia. (D)	Pin						Offset		App. Kg/ft	Links Of 1 Unit
				Dia. (d)	A	B	(A+A) L1	(A+B) L2	Offset (L)	Thickness T(t)	Height (H)		
08B-1SS	12.70	7.75	8.51	4.45	8.17	9.58	16.35	17.75	19.30	1.5	11.7	0.2	240
10B-1SS	15.875	9.65	10.16	5.08	9.58	11.02	19.15	20.60	21.95	1.65	14.6	0.29	192
12B-1SS	19.05	11.68	12.07	5.72	11.05	12.55	22.10	23.60	26.30	1.8	16.0	0.38	160

ANSI Stainless Steel Chain

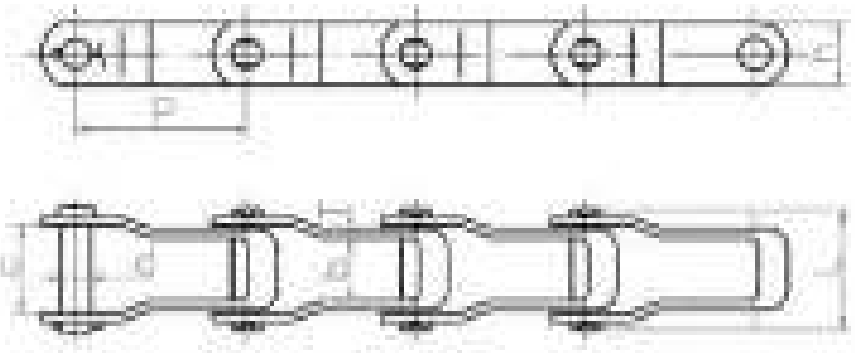
Chain	Pitch (P)	Inner Width (W)	Roller Dia. (D)	Pin						Offset		App. Kg/ft	Links Of 1 Unit
				Dia. (d)	A	B	(A+A) L1	(A+B) L2	Offset (L)	Thickness (T)	Height (H)		
40-1SS	12.70	7.95	7.95	3.97	8.07	9.48	16.15	17.55	19.05	1.5	11.7	0.19	240
50-1SS	15.875	9.53	10.16	5.09	10.17	11.63	20.35	21.80	23.05	2.0	14.6	0.32	192
50-2SS	15.875	9.53	10.16	5.09	19.22	20.68	38.45	39.90	41.15	2.0	14.6	0.67	192
60-1SS	19.05	12.70	11.91	5.96	12.7	14.2	25.40	26.90	29.55	2.4	17.5	0.46	160



Double Pitch (Conveyor) Stainless Steel Chain

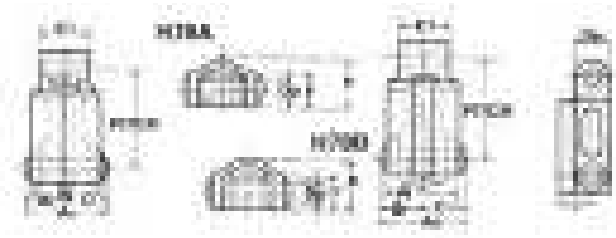
Chain	Pitch (P)	Inner Width (W)	Roller Dia. (D)	Pin						Offset		App. Kg/ft	Links Of 1 Unit
				Dia. (d)	A	B	(A+A) L1	(A+B) L2	Offset (L)	Thickness (T)	Height (H)		
C2040SS	25.40	7.95	7.95	3.97	8.07	10.28	16.15	18.35	19.05	1.5	11.7	0.15	120
C2042SS			15.88									.25	
C2050SS	31.75	9.53	10.16	5.09	10.17	12.13	20.35	22.30	23.05	2.0	14.6	.25	96
C2052SS			19.05									.39	
C2060HSS	38.10	12.70	11.91	5.96	14.35	17.05	28.76	31.40	32.85	3.2	17.5	.45	80
C2062HSS			22.23									.65	
C2080HSS	50.80	15.88	15.88	7.94	17.80	20.90	35.60	38.70	40.40	4.0	23.0	.63	60
C2082HSS			28.58									0.95	

Steel Pintle Chain



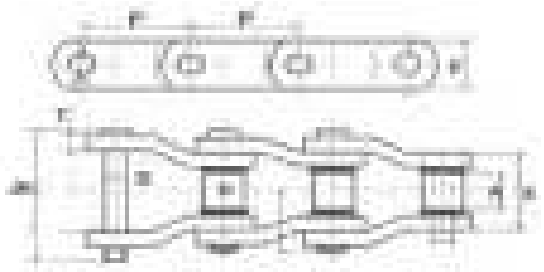
Chain	Pitch	c	b	h	T	d	L	U.T.S KN	A.T.S KN	Kg/ft
662K	42.27	30.50	23.20	18.30	3.2	7.16	41.3	37.80	45.360	0.49
667K	57.15	39.20	27.80	26.80	5.1	11.10	55.5	88.90	106.68	1.10
88K	66.27	39.20	27.80	26.80	5.1	11.10	55.55	88.90	106.68	1.08

Timber Transfer Chain



Chain	Pitch mm	Pitch inch	Ar	Br	C	Db	Dp	E	E1	F	J	P	W	Rated Working Load Lbs	A.T.S Lbs	App Kg/ft
H78A	66.26	2.609	95.25	41.27	39.67	22.22	12.7	28.57	47.62	25.4	28.57	42.84	71.42	2,820	20,800	2.31
H78B																

Welded WH Chain



Chain	Pitch mm	Pitch inch	JK	X	D	T	F	H	A	Rated Working Load Lbs	A.T.S Lbs	App Kg/ft
WH78	66.27	2 ½"	76.20	50.80	12.70	6.35	28.57	22.22	28.57	3,000	28,700	1.82
WH132	153.67	6"	158.75	111.12	25.40	12.75	50.80	44.45	73.02	15,300	111,000	6.46

Chain Quick Reference Chart

Chain Number	Pitch Inch	Pitch mm	Roller Diameter. mm	Roller Width mm	Inner Plate Thickness mm
25-1	0.25	6.35	3.302	3.175	0.76
25-2	0.25	6.35	3.302	3.175	0.76
25-1SS	0.25	6.35	3.302	3.175	0.76
05B-1	0.312	8	5	3	1.3
05B-2	0.312	8	5	3	1.3
05B-1SS	0.312	8	5	3	1.3
05B-1N	0.312	8	5	3	1.3
35-1	0.375	9.525	5.08	4.763	1.27
35-2	0.375	9.525	5.08	4.763	1.27
35-3	0.375	9.525	5.08	4.763	1.27
35-1N	0.375	9.525	5.08	4.763	1.27
35-1SS	0.375	9.525	5.08	4.763	1.27
06B-1	0.375	9.525	6.35	5.72	1.4
06B-2	0.375	9.525	6.35	5.72	1.4
06B-3	0.375	9.525	6.35	5.72	1.4
06B-1N	0.375	9.525	6.35	5.72	1.4
06B-1SS	0.375	9.525	6.35	5.72	1.4
40-1	0.5	12.7	7.925	7.938	1.52
40-2	0.5	12.7	7.925	7.938	1.52
40-3	0.5	12.7	7.925	7.938	1.52
40HP	0.5	12.7	7.925	7.938	1.52
40SB	0.5	12.7	7.925	7.938	1.52
40SL	0.5	12.7	7.925	7.938	1.52
40N	0.5	12.7	7.925	7.938	1.52
40-1SS	0.5	12.7	7.925	7.938	1.52
40-2SS	0.5	12.7	7.925	7.938	1.52
40H	0.5	12.7	7.925	7.938	2
40AQUA	0.5	12.7	7.925	7.938	1.52
40NEO	0.5	12.7	7.925	7.938	1.52
08B-1	0.5	12.7	8.51	7.75	1.5
08B-2	0.5	12.7	8.51	7.75	1.5
08B-3	0.5	12.7	8.51	7.75	1.5
08B-1N	0.5	12.7	8.51	7.75	1.5
08B-1SS	0.5	12.7	8.51	7.75	1.5
08B-2SS	0.5	12.7	8.51	7.75	1.5
08B-1AQUA	0.5	12.7	8.51	7.75	1.5
08B-2AQUA	0.5	12.7	8.51	7.75	1.5
08B-1NEO	0.5	12.7	8.51	7.75	1.5
08B-2NEO	0.5	12.7	8.51	7.75	1.5
41-1	0.5	12.7	7.75	6.35	1.27
410	0.5	12.7	7.75	3.17	1
415	0.5	12.7	7.75	4.75	1.1
415S	0.5	12.7	7.75	4.75	1.5
420	0.5	12.7	7.75	6.35	1.5
428	0.5	12.7	8.51	7.92	1.5

Chain Number	Pitch Inch	Pitch mm	Roller Diameter. mm	Roller Width mm	Inner Plate Thickness mm
428H	0.5	12.7	8.51	7.92	2
BL434	0.5	12.7	-	-	2
BL466	0.5	12.7	-	-	2
50-1	0.625	15.88	10.16	9.53	2.03
50-2	0.625	15.88	10.16	9.53	2.03
50-3	0.625	15.88	10.16	9.53	2.03
50F	0.625	15.88	10.16	9.53	2.03
50HE	0.625	15.88	10.16	9.53	2.4
50HP	0.625	15.88	10.16	9.53	2.03
50SB	0.625	15.88	10.16	9.53	2.03
50SL	0.625	15.88	10.16	9.53	2.03
50-1SS	0.625	15.88	10.16	9.53	2.03
50-2SS	0.625	15.88	10.16	9.53	2.03
50H	0.625	15.88	10.16	9.53	2.4
50N	0.625	15.88	10.16	9.53	2.03
50-1AQUA	0.625	15.88	10.16	9.53	2.03
50-2AQUA	0.625	15.88	10.16	9.53	2.03
50-1NEO	0.625	15.88	10.16	9.53	2.03
50-2NEO	0.625	15.88	10.16	9.53	2.03
520	0.625	15.88	10.16	6.35	2
520H	0.625	15.88	10.16	6.35	2.4
530	0.625	15.88	10.16	9.53	2.03
530H	0.625	15.88	10.16	9.53	2.4
10B-1	0.625	15.88	10.16	9.65	1.6
10B-2	0.625	15.88	10.16	9.65	1.6
10B-3	0.625	15.88	10.16	9.65	1.6
10B-1N	0.625	15.88	10.16	9.65	1.6
10B-1SS	0.625	15.88	10.16	9.65	1.6
10B-1AQUA	0.625	15.88	10.16	9.65	1.6
10B-2AQUA	0.625	15.88	10.16	9.65	1.6
10B-1NEO	0.625	15.88	10.16	9.65	1.6
10B-2NEO	0.625	15.88	10.16	9.65	1.6
BL523	0.625	15.88	-	-	2.4
BL532	0.625	15.88	-	-	2.4
BL534	0.625	15.88	-	-	2.4
AL544	0.625	15.88	-	-	2
BL546	0.625	15.88	-	-	2.4
AL566	0.625	15.88	-	-	2
BL566	0.625	15.88	-	-	2.4
630H	0.75	19.05	11.91	9.53	3.2
60-1	0.75	19.05	11.91	12.7	2.4
60-2	0.75	19.05	11.91	12.7	2.4
60-3	0.75	19.05	11.91	12.7	2.4
60-4	0.75	19.05	11.91	12.7	2.4
60F	0.75	19.05	11.91	12.7	2.4

Chain Number	Pitch Inch	Pitch mm	Roller Diameter. mm	Roller Width mm	Inner Plate Thickness mm
60HE	0.75	19.05	11.91	12.7	3.2
60HP	0.75	19.05	11.91	12.7	2.4
60SL	0.75	19.05	11.91	12.7	2.4
60H	0.75	19.05	11.91	12.7	3.2
60-1SS	0.75	19.05	11.91	12.7	2.4
60-2SS	0.75	19.05	11.91	12.7	2.4
60N	0.75	19.05	11.91	12.7	2.4
60-1AQUA	0.75	19.05	11.91	12.7	2.4
60-2AQUA	0.75	19.05	11.91	12.7	2.4
60-1NEO	0.75	19.05	11.91	12.7	2.4
60-2NEO	0.75	19.05	11.91	12.7	2.4
12B-1	0.75	19.05	12.07	11.68	2
12B-2	0.75	19.05	12.07	11.68	2
12B-3	0.75	19.05	12.07	11.68	2
12B-1N	0.75	19.05	12.07	11.68	2
12B-1SS	0.75	19.05	12.07	11.68	2
12B-2SS	0.75	19.05	12.07	11.68	2
12B-1AQUA	0.75	19.05	12.07	11.68	2
12B-2AQUA	0.75	19.05	12.07	11.68	2
12B-1NEO	0.75	19.05	12.07	11.68	2
12B-2NEO	0.75	19.05	12.07	11.68	2
12B-3NEO	0.75	19.05	12.07	11.68	2
BL623	0.75	19.05	-	-	3.2
BL634	0.75	19.05	-	-	3.2
AL644	0.75	19.05	-	-	2.4
BL644	0.75	19.05	-	-	3.2
BL646	0.75	19.05	-	-	3.2
AL666	0.75	19.05	-	-	2.4
AL688	0.75	19.05	-	-	2.4
S25 DET	0.9	22.96	-	-	-
A2040	1	25.4	7.92	7.92	1.52
C2040	1	25.4	7.92	7.92	1.52
C2040HP	1	25.4	7.92	7.92	1.52
C2040SS	1	25.4	7.92	7.92	1.52
C2040NEO	1	25.4	7.92	7.92	1.52
208B	1	25.4	8.51	7.75	-
80F	1	25.4	15.88	15.88	3.2
80HE	1	25.4	15.88	15.88	4
80H	1	25.4	15.88	15.88	4
80H-SUPER	1	25.4	15.88	15.88	4
80-1	1	25.4	15.88	15.88	3.2
80-2	1	25.4	15.88	15.88	3.2
80-3	1	25.4	15.88	15.88	3.2
80-4	1	25.4	15.88	15.88	3.2
80N	1	25.4	15.88	15.88	3.2

Chain Quick Reference Chart

Chain Number	Pitch Inch	Pitch mm	Roller Diameter. mm	Roller Width mm	Inner Plate Thickness mm
80-1SS	1	25.4	15.88	15.88	3.2
80HP	1	25.4	15.88	15.88	3.2
80-1AQUA	1	25.4	15.88	15.88	3.2
80-1NEO	1	25.4	15.88	15.88	3.2
16B-1	1	25.4	15.88	17.02	3.2/4
16B-2	1	25.4	15.88	17.02	3.2/4
16B-3	1	25.4	15.88	17.02	3.2/4
16B-1SS	1	25.4	15.88	17.02	3.2/4
16B-1N	1	25.4	15.88	17.02	3.2/4
16B-1AQUA	1	25.4	15.88	17.02	3.2/4
16B-2AQUA	1	25.4	15.88	17.02	3.2/4
16B-1NEO	1	25.4	15.88	17.02	3.2/4
16B-2NEO	1	25.4	15.88	17.02	3.2/4
C2042	1	25.4	15.88	7.92	1.52
C2042HP	1	25.4	15.88	7.92	1.52
C2042N	1	25.4	15.88	7.92	1.52
C2042SS	1	25.4	15.88	7.92	1.52
BL823	1	25.4	-	-	4
BL834	1	25.4	-	-	4
AL844	1	25.4	-	-	3.2
BL844	1	25.4	-	-	4
BL846	1	25.4	-	-	4
AL866	1	25.4	-	-	3.2
BL866	1	25.4	-	-	4
S32	1.15	29.21	11.43	15.88	-
S32 DET	1.16	29.39	-	-	-
S51 DET	1.13	28.78	-	-	-
A2050	1.25	31.75	10.16	9.53	2.03
C2050	1.25	31.75	10.16	9.53	2.03
C2050HP	1.25	31.75	10.16	9.53	2.03
C2050N	1.25	31.75	10.16	9.53	2.03
C2050SS	1.25	31.75	10.16	9.53	2.03
C2050NEO	1.25	31.75	10.16	9.53	2.03
100-1	1.25	31.75	19.05	19.05	3.96
100-2	1.25	31.75	19.05	19.05	3.96
100-3	1.25	31.75	19.05	19.05	3.96
100HE	1.25	31.75	19.05	19.05	4.75
100H	1.25	31.75	19.05	19.05	4.75
100H-SUPER	1.25	31.75	19.05	19.05	4.75
100-1AQUA	1.25	31.75	19.05	19.05	3.96
100-1NEO	1.25	31.75	19.05	19.05	3.96
20B-1	1.25	31.75	19.56	19.05	4.7
20B-2	1.25	31.75	19.56	19.05	4.7
20B-3	1.25	31.75	19.56	19.05	4.7
20B-1AQUA	1.25	31.75	19.56	19.05	4.7

Chain Number	Pitch Inch	Pitch mm	Roller Diameter. mm	Roller Width mm	Inner Plate Thickness mm
20B-1NEO	1.25	31.75	19.56	19.05	4.7
C2052	1.25	31.75	19.05	9.53	2.03
C2052HP	1.25	31.75	19.05	9.53	2.03
C2052SS	1.25	31.75	19.05	9.53	2.03
BL1034	1.25	31.75	-	-	4.8
BL1046	1.25	31.75	-	-	4.8
BL1066	1.25	31.75	-	-	4.8
A2060	1.5	38.1	11.91	12.7	2.39
C2060H	1.5	38.1	11.91	12.7	3.18
C2060HP	1.5	38.1	11.91	12.7	3.18
C2060HN	1.5	38.1	11.91	12.7	3.18
C2060HSS	1.5	38.1	11.91	12.7	3.18
C2060HNEO	1.5	38.1	11.91	12.7	3.18
C2060HAQUA	1.5	38.1	11.91	12.7	3.18
120-1	1.5	38.1	22.23	25.4	4.75
120-2	1.5	38.1	22.23	25.4	4.75
120-3	1.5	38.1	22.23	25.4	4.75
120HE	1.5	38.1	22.23	25.4	5.56
120H	1.5	38.1	22.23	25.4	5.56
120-1N	1.5	38.1	22.23	25.4	4.75
24B-1	1.5	38.1	25.4	25.4	6.3
24B-2	1.5	38.1	25.4	25.4	6.3
24B-3	1.5	38.1	25.4	25.4	6.3
C2062HP	1.5	38.1	22.23	12.7	3.18
C2062H	1.5	38.1	22.23	12.7	3.18
C2062HSS	1.5	38.1	22.23	12.7	3.18
C2062HN	1.5	38.1	22.23	12.7	3.18
C2062HNEO	1.5	38.1	22.23	12.7	3.18
C2062HAQUA	1.5	38.1	22.23	12.7	3.18
212B	1.5	38.1	12.07	11.68	-
BL1234	1.5	38.1	-	-	5.6
BL1246	1.5	38.1	-	-	5.6
S52	1.5	38.1	15.24	22.23	-
S52 DET	1.5	38.1	-	-	-
CA550	1.6	41.4	16.66	20.4	2.6
CA557	1.6	41.4	17.78	20.4	3.1
C55	1.6	41.43	18.24	17.45	4.75
S55	1.6	41.43	17.78	22.23	-
S62	1.65	41.91	19.05	25.4	-
662	1.66	42.27	-	-	3.2
S62 DET	1.65	42.01	-	-	-
140-1	1.75	44.45	25.4	25.4	5.56
140-2	1.75	44.45	25.4	25.4	5.56
140-3	1.75	44.45	25.4	25.4	5.56
140H-1	1.75	44.45	25.4	25.4	6.35

Chain Number	Pitch Inch	Pitch mm	Roller Diameter. mm	Roller Width mm	Inner Plate Thickness mm
140H-2	1.75	44.45	25.4	25.4	6.35
140HE	1.75	44.45	25.4	25.4	6.35
140DC	1.75	44.45	25.4	25.4	6.35
28B-1	1.75	44.45	30.99	27.94	7.8
28B-2	1.75	44.45	30.99	27.94	7.8
28B-3	1.75	44.45	30.99	27.94	7.8
C2080H	2	50.8	15.88	15.88	3.96
C2080HSS	2	50.8	15.88	15.88	3.96
C2080N	2	50.8	15.88	15.88	3.96
C2080HP	2	50.8	15.88	15.88	3.96
C2080HNEO	2	50.8	15.88	15.88	3.96
160-1	2	50.8	28.58	31.75	6.35
160-2	2	50.8	28.58	31.75	6.35
160-3	2	50.8	28.58	31.75	6.35
160H	2	50.8	28.58	31.75	7.14
160HE	2	50.8	28.58	31.75	7.14
32B-1	2	50.8	30.99	29.21	7.3
32B-2	2	50.8	30.99	29.21	7.3
32B-3	2	50.8	30.99	29.21	7.3
C2082H	2	50.8	28.58	15.88	3.96
C2082HN	2	50.8	28.58	15.88	3.96
C2082HSS	2	50.8	28.58	15.88	3.96
C2082HP	2	50.8	28.58	15.88	3.96
180-1	2.25	57.15	35.71	35.71	7.13
180H	2.25	57.15	35.71	35.71	7.9
180DC	2.25	57.15	35.71	35.71	7.13
667K	2.25	57.15	-	-	5.1
C2100H	2.5	63.5	19.05	19.05	4.75
200-1	2.5	63.5	39.97	38.1	7.93
81X	2.6	66.27	23.01	17.46	3.97
81X Rooftop	2.6	66.27	23.01	17.46	3.97
81XH	2.6	66.27	23.01	17.46	7.93
H78	2.6	66.27	22.22	-	-
H78A	2.6	66.27	-	-	-
H78B	2.6	66.27	-	-	-
WH78	2.6	66.27	31.75	25.4	6.35
C188	2.6	66.27	22.23	23.8	6.35
SS188	2.6	66.27	22.23	25.6	6.35
88K	2.6	66.27	-	-	5.1
C2120H	3	76.2	22.23	25.4	5.56
C2122H	3	76.2	44.5	25.4	5.56
SS131	3.01	78.1	32.5	31.7	9.7
C102B	4	101.6	24.59	50.8	9.53
WD110	6	152.4	-	-	9.52
WH132	6	152.4	-	-	12.75

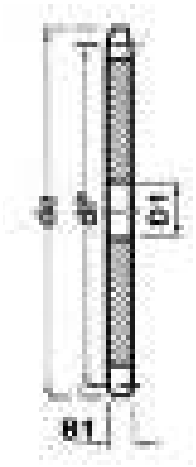
FINERPOWER TRANSMISSIONS

Aetna

Sprockets & Idler Sprockets

SPROCKETS & IDLE SPROCKETS

40-1 Plate Wheel

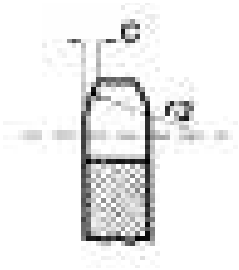


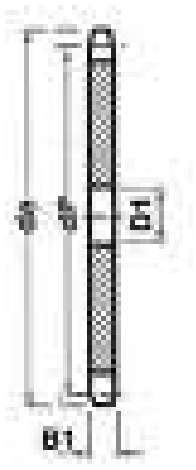
Pinions	mm
Tooth Radius r3	13.5
Radius Width C	1.6
Tooth Width B1	7.2

Chain	mm
Pitch	12.7
Inside	7.92
Roller ø	7.92

Teeth	de	dp	D1	App. Kg
15	67.2	61.09	10	OA
21	91.3	85.22	14	OA
42	176.6	169.95	16	1.13
48	200.8	194.18	20	1.46
50	208.9	202.26	20	1.70
55	229.1	222.46	20	2.08
60	249.3	242.66	20	2.13
65	269.5	262.86	20	2.25
70	289.7	283.07	25	3.28
72	297.8	291.16	25	3.51
76	313.9	307.33	25	3.70

60-1 Plate Wheel





Pinions	mm
Tooth Radius r3	20
Radius Width C	2.4
Tooth Width B1	11.7

Chain	mm
Pitch	19.05
Inside	12.7
Roller ø	11.91

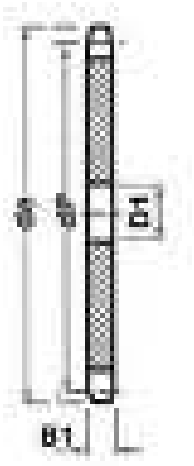
Teeth	de	dp	D1	App. Kg
42	265.2	254.93	25	4.53
48	301.5	291.27	25	5.75
50	313.6	303.39	25	6.45
55	343.9	333.70	25	7.82
60	374.2	363.99	25	9.19
65	404.5	394.29	30	10.65
70	434.9	424.60	30	12.45
72	447.0	436.74	30	13.22
76	471.2	460.99	30	14.78

80-1 Plate Wheel

Pinions	mm
Tooth Radius r3	27
Radius Width C	3.2

Teeth	de	dp	D1	App. Kg
17	150	138.22	20	OA

100-1 Plate Wheel



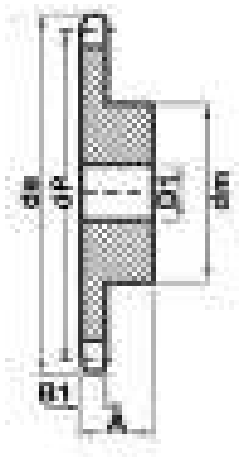
Pinions	mm
Tooth Radius r3	33.5
Radius Width C	4.0
Tooth Width B1	OA

Chain	mm
Pitch	31.75
Inside	19.05
Roller ø	19.05

Teeth	de	dp	D1	App. Kg
13	148	132.65	20	1.9
14	158	142.68	20	2.15
15	168	152.72	20	2.5
16	179	162.75	20	2.83
17	189	172.79	20	3.2
18	199	182.85	20	3.6
19	209	192.91	20	4.0
20	220	202.98	20	4.4
21	230	213.04	20	4.9
22	240	223.10	20	5.35
23	240	233.17	20	5.8
24	260	243.23	20	6.4
25	270	253.33	20	6.9
26	281	263.4	20	7.5
27	291	273.4	20	8.1
28	301	283.56	20	8.1
29	311	293.65	20	9.3
30	321	303.75	26	10
32	341	323.92	26	11.35
38	402	384.49	26	16

Finer Power Transmissions stocks a range of ASA high quality steel sprockets. They are complete with induction hardened teeth, thus improving the sprockets resistance to wear and increasing the sprockets working life.
All Finer sprockets are engineered in accordance with the stringent ISO 9000 standards.

25-1 Sprocket

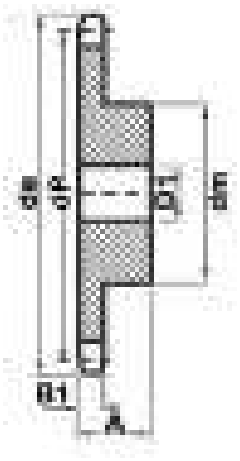


Pinions	mm
Tooth Radius r3	6
Radius Width C	0.6
Tooth Width B1	2.9

Chain	mm
Pitch	6.35
Inside	3.18
Roller ø	3.3

Teeth	de	dp	Simplex		
			dm	D1	A
9	18.1	16.59	10	5	15
10	22.3	20.55	11	5	15
11	24.3	22.54	14	6	15
12	26.4	24.33	16	6	15
13	28.5	26.53	18	6	15
14	30.5	28.53	20	6	15
15	32.5	30.55	22	6	15
16	34.5	32.55	24	8	15
17	36.5	34.55	26	8	15
18	38.5	36.56	28	8	15
19	40.5	38.58	30	8	15
20	42.5	40.58	32	8	15
21	44.6	42.60	34	8	15
22	46.6	44.62	36	8	15
23	48.6	46.63	38	8	15
24	50.6	48.64	40	8	15
25	52.6	50.66	42	8	18
26	54.6	52.67	44	10	18
27	56.51	54.69	46	10	18
28	58.7	56.71	48	10	18
29	60.7	58.73	48	10	18
30	62.7	60.75	48	12	18
35	72.8	70.84	50	12	18
38	78.8	76.89	50	12	18
45	93.0	91.03	50	12	18
50	104	102	50	12	20
57	117.2	115.27	OA	OA	OA
76	155.6	153.66	OA	OA	OA

35-1 Sprocket

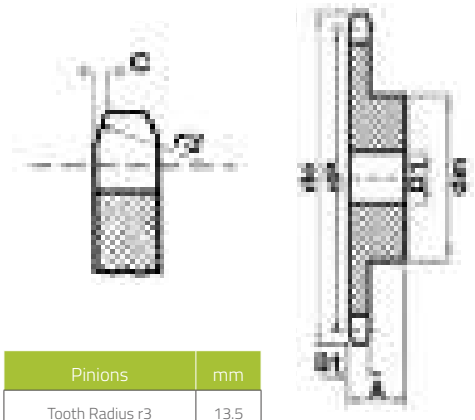


Pinions	mm
Tooth Radius r3	10
Radius Width C	1.2
Tooth Width B1	4.3

Chain	mm
Pitch	9.525
Inside	4.77
Roller ø	5.08

Teeth	de	dp	Simplex			
			dm	D1	A	App. Kg
9	28.6	24.89	15	8	20	0.04
10	31.5	27.85	18	8	20	0.06
11	34.5	20.82	20	8	20	0.09
12	40.5	36.8	25	8	25	0.10
13	43.5	39.80	28	8	25	0.11
14	46.5	42.80	31	8	25	0.12
15	49.5	45.81	34	8	25	0.14
16	52.5	48.82	37	10	28	0.18
17	55.5	51.83	40	10	28	0.20
18	58.6	54.85	43	10	28	0.23
19	61.6	57.87	45	10	28	0.25
20	64.6	60.89	46	10	28	0.31
21	67.6	63.91	48	12	28	0.36
22	70.6	66.93	50	12	28	0.37
23	73.7	69.95	52	12	28	0.39
24	76.7	72.97	54	12	28	0.40
25	79.7	76.00	57	12	28	0.41
26	82.7	79.02	60	12	28	0.42
27	85.7	82.04	60	12	28	0.44
28	88.8	85.07	60	12	28	0.45
29	91.8	88.09	60	12	28	0.47
30	94.8	91.12	60	12	28	0.48
38	119.0	115.34	70	16	30	0.77
40	125.1	121.40	70	16	30	0.81
57	177.5	172.91	OA	OA	OA	1.27
60	186.6	181.99	OA	OA	OA	1.34

40-1 Sprocket

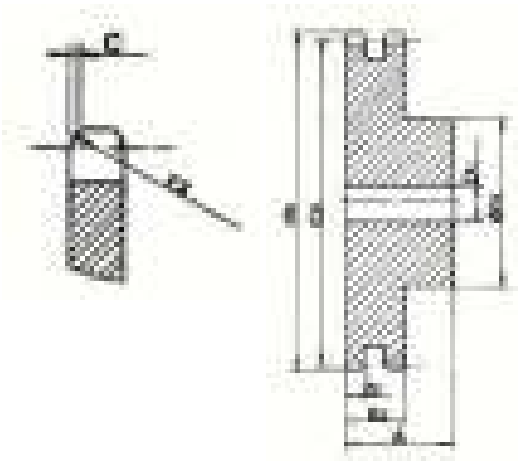


Pinions	mm
Tooth Radius r3	13.5
Radius Width C	1.6
Tooth Width B1	7.2

Chain	mm
Pitch	12.7
Inside	7.94
Roller ø	7.94

Teeth	de	dp	Simplex			
			dm	D1	A	App. Kg
9	43.2	37.13	24	10	25	0.14
10	47.2	41.10	26	10	25	0.15
11	51.2	45.07	29	10	25	0.17
12	55.2	49.07	33	10	28	0.24
13	59.2	53.06	37	10	28	0.25
14	63.2	57.07	41	10	28	0.31
15	67.2	61.09	45	10	28	0.33
16	71.2	65.10	50	12	28	0.37
17	75.2	69.11	52	12	28	0.51
18	79.2	73.14	56	12	28	0.54
19	83.3	77.16	60	12	28	0.65
20	87.3	81.19	64	12	28	0.76
21	91.3	85.22	68	14	28	0.82
22	95.4	89.24	70	14	28	0.88
23	99.4	93.27	70	14	28	1.05
24	103.4	97.29	70	14	28	1.07
25	107.4	101.33	70	14	28	1.13
26	111.5	105.36	70	16	30	1.15
27	115.5	109.40	70	16	30	1.19
28	119.5	113.42	70	16	30	1.30
29	123.6	117.46	80	16	30	1.33
30	127.6	121.50	80	16	30	1.36
32	135.7	129.56	90	16	30	1.46
35	147.8	141.68	90	16	30	1.61
38	159.9	153.80	90	16	35	1.78
40	168.0	161.87	90	16	35	1.88
42	176.6	169.95	OA	OA	OA	1.97
50	208.9	202.26	OA	OA	OA	3.00
55	229.1	222.46	OA	OA	OA	3.14
57	237.2	230.54	OA	OA	OA	3.28
60	249.3	242.66	OA	OA	OA	3.45

50-2 Sprocket

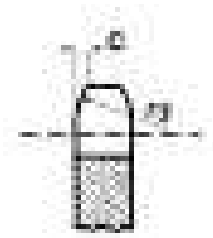


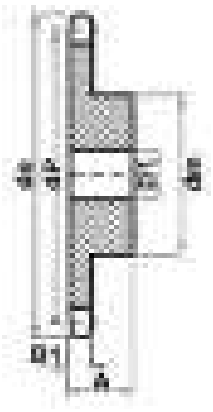
Teeth	de	dp	Duplex			
			dm	D1	A	App. Kg
13	73	66.32	49	14	40	OA
16	88	83.17	64	16	45	OA
18	98.3	91.42	74	16	45	OA
22	118	111.55	90	16	45	OA
24	128.3	121.62	100	16	45	OA
30	158.8	151.87	120	20	45	OA

Pinions	mm
Tooth Radius r3	17
Radius Width C	2
Tooth Width B1	9

Chain	mm
Pitch	15.9
Inside	9.52
Roller ø	10.16

60-1 Sprocket



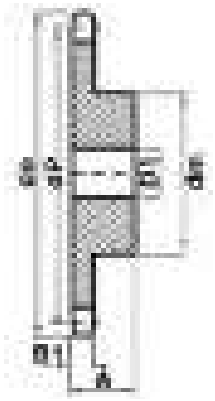


Pinions	mm
Tooth Radius r3	20
Radius Width C	2.4
Tooth Width B1	11.6

Chain	mm
Pitch	19.05
Inside	12.7
Roller ø	11.91

Teeth	de	dp	Simplex			
			dm	D1	A	App. Kg
9	64.0	55.70	37	12	30	0.35
10	70.0	61.64	42	12	30	0.41
11	76.0	67.61	46	16	35	0.53
12	81.9	73.6	52	16	35	0.67
13	87.9	79.59	58	16	35	0.75
14	94.0	85.61	64	16	35	0.91
15	100.0	91.63	70	16	35	1.14
16	106.0	97.65	75	16	35	1.27
17	112.0	103.67	80	16	35	1.46
18	118.0	109.71	80	16	35	1.69
19	124.1	115.75	80	16	35	1.78
20	130.1	121.78	80	16	35	2.10
21	136.2	127.82	80	16	35	2.10
22	142.2	133.86	90	20	40	2.38
23	148.2	139.90	90	20	40	2.49
24	154.3	145.94	90	20	40	2.62
25	160.3	152.00	90	20	40	2.78
26	166.4	158.04	95	20	40	2.89
27	172.4	164.09	95	20	40	3.05
28	178.5	170.13	95	20	40	3.12
29	184.5	176.19	95	20	40	3.30
30	190.6	182.25	95	20	40	3.44
32	202.7	194.35	95	20	40	3.75
34	214.8	206.46	95	OA	40	3.99
38	239.0	230.69	100	25	40	4.92
40	251.1	242.81	100	25	40	5.22

80-1 Sprocket

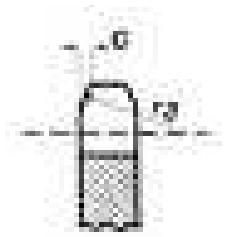


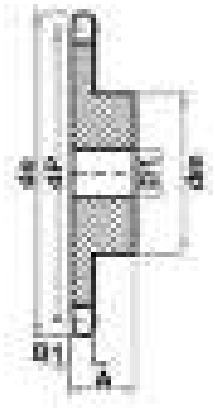
Pinions	mm
Tooth Radius r3	27
Radius Width C	3.2
Tooth Width B1	14.6

Chain	mm
Pitch	25.4
Inside	15.88
Roller ø	15.88

Teeth	de	dp	Simplex			
			dm	D1	A	App. Kg
8	77.0	66.37	42	16	35	OA
9	85.8	72.47	50	16	35	OA
10	93.8	82.19	55	16	35	OA
11	101.7	90.14	61	16	40	1.45
12	109.7	98.14	69	16	40	1.82
13	117.7	106.12	78	16	40	1.92
14	125.7	114.15	84	16	40	2.09
15	133.7	122.17	92	16	40	2.59
16	141.8	130.20	100	20	45	3.00
17	149.8	138.22	100	20	45	3.18
19	165.9	154.33	100	20	45	3.86
20	173.9	162.38	100	20	45	4.09
21	182.0	170.43	110	20	50	4.54
22	190.1	178.48	110	20	50	4.99
23	198.1	186.53	110	20	50	5.08
24	208	194.6	108	25	45	OA
25	215	202.72	110	20	50	OA
26	224	210.72	108	25	45	OA
27	230	218.79	120	20	50	OA
28	237	226.86	120	20	50	OA
29	245	234	108	25	45	OA
30	255	243	108	25	45	OA
38	319.2	307.59	120	25	50	11.12

100-1 Sprocket



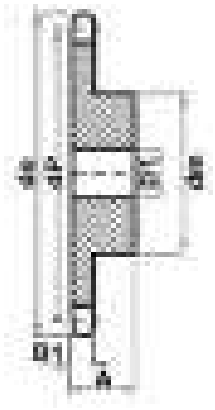


Pinions	mm
Tooth Radius r3	33.5
Radius Width C	4.0
Tooth Width B1	OA

Chain	mm
Pitch	31.75
Inside	19.05
Roller ø	19.05

Teeth	de	dp	Simplex		
			dm	D1	A
9	108	92.84	63	20	40
10	117.9	102.74	70	20	40
11	127.8	112.68	77	20	45
12	137.8	122.68	88	20	45
13	147.8	132.65	98	20	45
14	157.8	142.68	108	20	45
15	167.9	152.72	118	20	45
16	177.9	162.75	120	25	50
17	187.9	172.78	120	25	50
18	198	182.85	120	25	50
19	208.1	198.91	120	25	50
20	218.1	202.98	120	25	50
21	228.2	213.04	140	25	55
22	238.3	223.11	140	25	55
23	248.3	233.17	140	25	55
24	258.4	243.23	140	25	55
25	268.5	253.33	140	25	55
26	278.6	263.4	150	25	55
27	288.6	273.4	OA	OA	OA
28	298.7	283.56	OA	OA	OA
29	308.8	293.65	OA	OA	OA
30	318.9	303.75	OA	OA	OA
38	399.6	384.49	OA	OA	OA

120-1 Sprocket



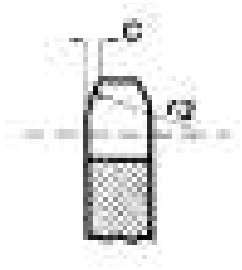
Pinions	mm
Tooth Radius r3	40.5
Radius Width C	4.8
Tooth Width B1	OA

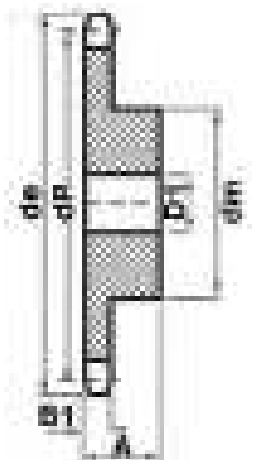
Chain	mm
Pitch	38.1
Inside	25.4
Roller ø	22.225

Teeth	de	dp	Simplex		
			dm	D1	A
9	130.88	111.4	70	20	45
10	142.77	123.29	80	20	45
11	154.71	135.21	90	25	50
12	166.69	147.22	102	25	50
13	178.68	159.18	114	25	50
14	190.7	171.22	128	25	50
15	202.73	183.26	140	25	50
16	214.77	195.29	136	25	55
17	226.83	207.35	140	25	55
18	238.89	219.41	140	25	55
19	246.5	231.49	140	25	55
20	263.03	243.55	140	25	55
21	270.5	255.65	OA	OA	OA
22	287.2	267.77	OA	OA	OA
23	294.5	279.8	OA	OA	OA
24	307	291.88	OA	OA	OA
25	319	303.99	150	25	60
26	331	316.08	OA	OA	OA
27	343	328.19	OA	OA	OA
28	355	340.27	OA	OA	OA
29	367.5	352.38	OA	OA	OA
30	383.97	364.49	OA	OA	OA
38	480.85	461.37	OA	OA	OA

Finer Power Transmissions stocks a range of British Standard high quality steel sprockets. They are complete with induction hardened teeth, thus improving the sprockets resistance to wear and increasing the sprockets working life.
All Finer sprockets are engineered in accordance with the stringent ISO 9000 standards.

05B-1 Sprocket



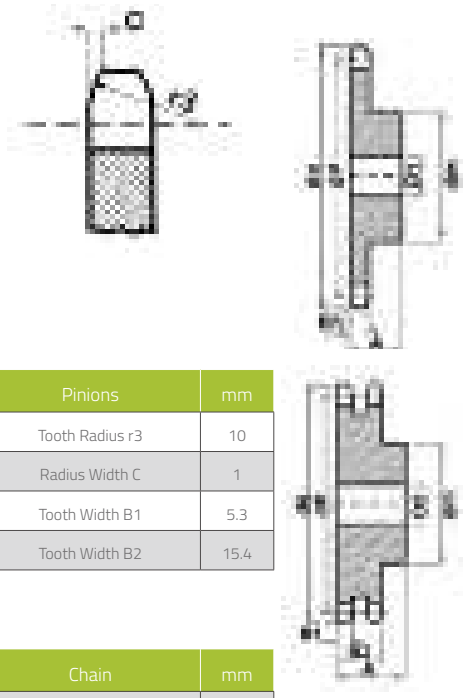


Pinions	mm
Tooth Radius r3	8
Radius Width C	1
Tooth Width B1	2.8

Chain	mm
Pitch	8
Inside	3
Roller ø	5

Teeth	de	dp	Simplex		
			dm	D1	A
9	25.09	23.99	15	6	12
10	28.4	25.89	17	6	12
11	31	28.39	18	7	13
12	33.7	30.91	20	7	13
13	36.7	33.42	23	7	13
14	39.2	35.95	25	7	13
15	41.7	48.48	28	7	13
16	44.2	41.01	30	8	14
17	46.7	43.53	30	8	14
18	49.2	46.07	30	8	14
19	51.7	48.61	30	8	14
20	54.2	51.14	30	8	14
21	57.2	53.67	35	8	14
22	59.2	56.21	35	8	14
23	62.2	58.75	35	8	14
24	64.7	61.29	35	8	14
25	67.2	63.83	35	8	14
26	69.7	66.37	40	10	16
27	72.3	68.91	40	10	16
28	74.7	71.45	40	10	16
29	77.3	73.99	40	10	16
30	80.2	76.53	40	10	16
32	85.2	81.61	40	12	16
34	90.2	86.7	40	12	16
36	95.2	91.79	40	12	16
38	100.2	96.88	40	12	16
40	105.2	102	40	12	16
57	149.3	145.2	80	14	20

06B-1-2 Sprocket

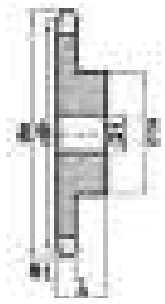


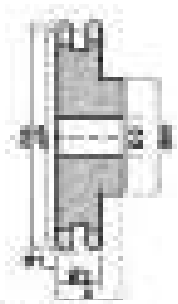
Pinions	mm
Tooth Radius r3	10
Radius Width C	1
Tooth Width B1	5.3
Tooth Width B2	15.4

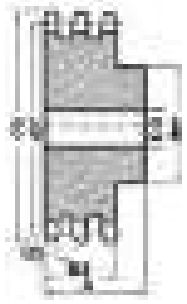
Chain	mm
Pitch	9.53
Inside	5.72
Roller ø	6.35

Teeth	de	dp	Simplex				Duplex			
			dm	D1	A	App. Kg	dm	D2	A	App. Kg
8	28.6	24.89	15	8	20	0.03	-	-	-	-
9	31.5	27.85	18	8	20	0.04	18	8	25	OA
10	34.5	30.82	20	8	20	0.06	20	8	25	0.11
11	37.5	33.8	22	8	25	0.09	22	10	30	0.13
12	40.5	36.8	25	8	25	0.10	25	10	30	0.16
13	43.5	39.8	28	8	25	0.11	28	10	30	0.20
14	46.5	42.8	31	8	25	0.12	31	10	30	0.25
15	49.5	45.81	34	8	25	0.14	34	10	30	0.29
16	52.5	48.82	37	10	28	0.18	37	12	30	0.34
17	55.5	51.83	40	10	28	0.20	40	12	30	0.39
18	58.6	54.85	43	10	28	0.23	43	12	30	0.45
19	61.6	57.87	45	10	28	0.25	46	12	30	0.52
20	64.6	60.89	46	10	28	0.31	49	16	30	0.59
21	67.6	63.91	48	12	28	0.36	52	16	30	0.68
22	70.6	66.93	50	12	28	0.37	55	16	30	0.75
23	73.7	69.95	52	12	28	0.39	58	16	30	0.80
24	76.7	72.97	54	12	28	0.40	61	16	30	0.84
25	79.7	76	57	12	28	0.41	64	16	30	0.89
26	82.7	79.02	60	12	28	0.42	67	16	30	0.91
27	85.7	82.04	60	12	28	0.44	70	16	30	1.00
28	88.8	85.07	60	12	28	0.45	73	16	30	1.07
29	91.8	88.09	60	12	28	0.47	76	16	30	1.14
30	94.8	91.12	60	12	28	0.48	79	16	30	1.22
31	97.9	94.15	65	14	30	0.51	-	-	-	-
32	100.9	97.17	65	14	30	0.56	-	-	-	-
33	103.9	100.2	65	14	30	0.62	-	-	-	-
34	106.9	103.2	65	14	30	0.66	-	-	-	-
35	110	106.3	65	14	30	0.68	-	-	-	-
36	113	109.3	70	16	30	0.71	-	-	-	-
37	116	112.3	70	16	30	0.74	-	-	-	-
38	119	115.3	70	16	30	0.77	90	16	30	1.72
39	122.1	118.4	70	16	30	0.79	-	-	-	-
40	125.1	121.4	70	16	30	0.81	-	-	-	-
45	140.2	136.5	75	16	30	0.91	90	19	35	2.35
48	149.7	145.6	75	16	30	-	90	20	35	-
57	176.6	172.9	75	19	30	1.27	90	20	35	3.47
76	234.2	230.5	75	19	30	1.91	90	20	38	5.67
95	291.8	288.1	75	19	30	2.61	95	25	38	8.64
114	349.4	345.7	75	19	30	3.63	95	25	38	11.12
120	-	-	-	-	-	-	-	-	-	-

08B-1-2-3 Sprocket





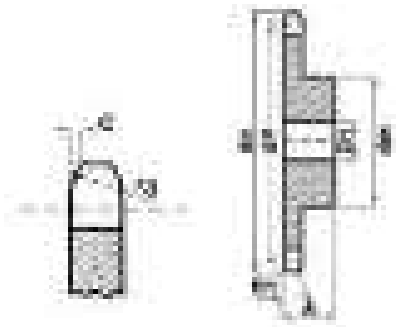


Pinions	mm
Tooth Radius r3	13
Radius Width C	1.3
Tooth Width B1	7.2
Tooth Width B2	21
Tooth Width B3	34.9

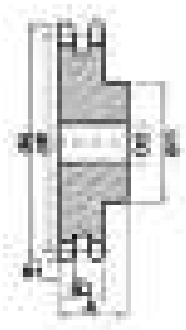
Chain	mm
Pitch	12.7
Inside	7.75
Roller ø	8.51

Teeth	de	dp	Simplex				Duplex				Triplex			
			dm	D1	A	App.Kg	dm	D2	A	App.Kg	dm	D3	A	App. Kg
8	38	33.18	20	10	25	0.13	-	-	-	-	-	-	-	-
9	42	37.13	24	10	25	0.14	24	10	32	0.18	-	-	-	-
10	45.9	41.1	26	10	25	0.15	28	10	32	0.22	-	-	-	-
11	49.9	45.07	29	10	25	0.17	32	12	35	0.24	-	-	-	-
12	53.9	49.07	33	10	28	0.24	35	12	35	0.26	-	-	-	-
13	57.9	53.06	37	10	28	0.25	38	12	35	0.28	38	16	50	0.59
14	61.9	57.07	41	10	28	0.31	42	12	35	0.34	42	16	50	0.72
15	65.9	61.09	45	10	28	0.33	46	12	35	0.36	46	16	50	0.81
16	69.9	65.1	50	12	28	0.37	50	16	38	0.40	50	16	50	0.90
17	74	69.11	52	12	28	0.51	54	16	38	0.44	54	16	50	1.04
18	78	73.14	56	12	28	0.54	58	16	38	0.49	58	16	50	1.22
19	82	77.16	60	12	28	0.65	62	16	38	0.57	62	16	50	1.41
20	86	81.19	64	12	28	0.76	66	16	38	0.65	66	16	50	1.58
21	90.1	85.22	68	14	28	0.82	70	16	40	0.72	70	16	55	1.81
22	94.1	89.24	70	14	28	0.88	70	16	40	0.80	70	16	55	2.03
23	98.1	93.27	70	14	28	1.05	70	16	40	0.83	70	16	55	2.27
24	102.1	97.29	70	14	28	1.07	75	16	40	0.94	75	16	55	2.44
25	106.2	101.3	70	14	28	1.13	80	16	40	0.98	80	16	55	2.54
26	110.2	105.4	70	16	30	1.15	85	16	40	1.04	85	20	55	OA
27	114.2	109.4	70	16	30	1.19	85	16	40	1.08	85	20	55	2.85
28	118.3	113.4	70	16	30	1.30	90	16	40	1.10	90	20	55	3.16
29	121	117.5	80	11	30	OA	95	20	40	OA	95	20	55	OA
30	126.3	121.5	80	16	30	1.36	100	16	40	1.16	95	20	55	3.48
31	130.4	125.5	90	16	30	1.41	100	120	40	OA	-	-	-	-
32	134.4	129.6	90	16	30	1.46	100	20	40	1.24	-	-	-	-
33	138.4	133.6	90	16	30	1.51	100	20	40	OA	-	-	-	-
34	142.5	137.6	90	16	30	1.56	100	20	40	1.33	-	-	-	-
35	146.5	141.7	90	16	30	1.61	100	20	40	OA	-	-	-	-
36	150.6	145.7	90	16	35	1.69	100	20	40	2.05	-	-	-	-
37	154.6	149.8	90	16	35	1.74	100	20	40	OA	-	-	-	-
38	158.6	153.8	90	16	35	1.78	100	20	40	2.17	120	25	55	6.49
39	162.7	157.8	90	16	35	1.83	100	20	40	OA	-	-	-	-
40	166.7	161.9	90	16	35	1.88	100	20	40	2.28	-	-	-	-
41	171	165.9	-	-	-	-	110	20	50	OA	-	-	-	-
42	176.5	170	90	19	35	1.97	110	20	50	2.32	-	-	-	-
43	179	174	-	-	-	-	110	20	50	OA	-	-	-	-
44	185	178	-	-	-	-	110	20	50	OA	-	-	-	-
45	188.6	182.1	90	19	35	2.11	110	20	50	2.49	-	-	-	-
46	193	186.1	-	-	-	-	110	20	50	OA	-	-	-	-
48	200.7	194.2	100	19	35	2.76	110	20	45	2.65	-	-	-	-
50	208.8	202.3	88	20	42	2.90	-	-	-	-	-	-	-	-
55	229	222.5	88	20	42	3.15	-	-	-	-	-	-	-	-
57	233.1	230.5	100	19	35	3.28	110	25	45	3.88	120	25	60	12.62
60	249.2	242.7	100	19	35	3.45	-	-	-	-	-	-	-	-
76	313.9	307.3	100	19	35	5.73	120	30	45	6.60	130	30	65	22.23
95	390.7	384.1	100	25	35	8.90	120	30	45	9.89	-	-	-	-
114	467.4	460.9	100	25	35	11.17	120	30	45	12.88	-	-	-	-

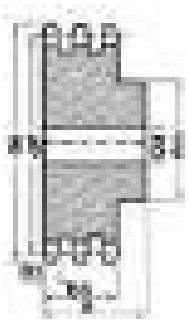
10B-1-2-3 Sprocket



Pinions	mm
Tooth Radius r3	16
Radius Width C	1.6
Tooth Width B1	9.1
Tooth Width B2	25.5
Tooth Width B3	42.1

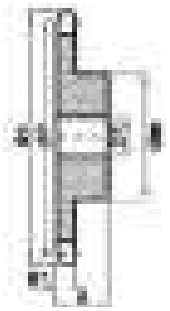


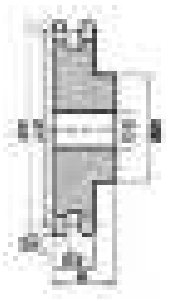
Chain	mm
Pitch	15.88
Inside	9.65
Roller ø	10.2

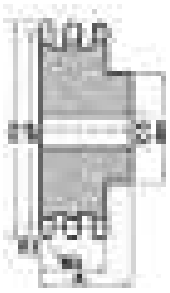


Teeth	de	dp	Simplex				Duplex				Triplex			
			dm	D1	A	App.Kg	dm	D2	A	App.Kg	dm	D3	A	App. Kg
8	48.4	41.48	25	10	25	0.09	-	-	-	-	-	-	-	-
9	53.3	46.42	30	10	25	0.14	30	12	40	0.31	-	-	-	-
10	58.3	51.37	35	10	25	0.23	35	12	40	0.39	-	-	-	-
11	63.2	56.35	37	12	30	0.27	39	16	40	0.44	-	-	-	-
12	68.2	61.34	42	12	30	0.32	44	16	40	0.57	-	-	-	-
13	73.2	66.32	47	12	30	0.36	49	16	40	0.71	-	-	-	-
14	78.2	71.34	52	12	30	0.45	54	16	40	0.84	54	16	55	OA
15	83.2	76.36	57	12	30	0.59	59	16	40	1.01	-	-	-	-
16	88.3	81.37	60	12	30	0.68	64	16	45	1.19	-	-	-	-
17	93.3	86.39	60	12	30	0.82	69	16	45	1.38	-	-	-	-
18	98.3	91.42	70	14	30	0.91	74	16	45	1.62	74	16	60	OA
19	103.3	96.45	70	14	30	1.04	79	16	45	1.77	79	16	60	OA
20	108.4	101.5	75	14	30	1.13	84	16	45	1.93	-	-	-	-
21	113.4	106.5	75	16	30	1.18	85	20	45	2.22	85	20	60	OA
22	118.4	111.6	80	16	30	1.27	90	20	45	2.53	90	20	60	OA
23	123.5	116.6	80	16	30	1.45	95	20	45	2.77	-	-	-	-
24	128.5	121.6	80	16	30	1.50	100	20	45	2.95	-	-	-	-
25	133.6	126.7	80	16	30	1.59	105	20	45	3.15	-	-	-	-
26	138.6	131.7	85	20	35	1.63	110	20	45	3.42	-	-	-	-
27	143.6	136.8	85	20	35	1.68	110	20	45	3.98	-	-	-	-
28	148.7	141.8	90	20	35	1.72	115	20	45	4.2	-	-	-	-
29	153.7	146.8	90	20	35	1.91	115	20	45	4.43	-	-	-	-
30	158.8	151.9	90	20	35	2.04	120	20	45	4.66	-	-	-	-
31	163.8	156.9	95	20	35	2.13	-	-	-	-	-	-	-	-
32	168.9	162	95	20	35	2.27	-	-	-	-	-	-	-	-
33	173.9	167	95	20	35	2.33	-	-	-	-	-	-	-	-
34	178.9	172.1	95	20	35	2.36	-	-	-	-	-	-	-	-
35	184	177.1	95	20	35	2.48	-	-	-	-	-	-	-	-
36	189	182.2	100	20	35	2.56	-	-	-	-	-	-	-	-
37	194.1	187.2	100	20	35	2.68	-	-	-	-	-	-	-	-
38	199.1	192.2	100	20	35	2.72	120	20	45	7.67	120	25	60	OA
39	204.2	197.3	100	20	35	2.86	-	-	-	-	-	-	-	-
40	209.2	202.3	100	20	35	2.95	120	20	45	7.92	-	-	-	-
42	220.8	212.4	108	20	43	3.01	-	-	-	-	-	-	-	-
45	236	227.6	108	20	43	3.73	OA	OA	OA	9.21	-	-	-	-
48	251.1	242.7	108	20	43	4.18	-	-	-	-	-	-	-	-
50	261.2	252.8	108	20	43	4.40	-	-	-	-	-	-	-	-
55	286.5	278.1	108	20	43	4.96	-	-	-	-	-	-	-	-
57	296.6	288.2	108	20	43	5.27	100	30	56	15.07	-	-	-	-
60	311.7	303.3	108	20	43	5.9	-	-	-	-	-	-	-	-
76	392.5	384.2	90	24	50	11.03	100	30	63	26.31	-	-	-	-
95	488.5	480.1	100	24	56	14.57	110	30	63	32.69	-	-	-	-
114	584.5	576.1	100	25	56	20.61	125	30	70	49.3	-	-	-	-

12B-1-2-3 Sprocket





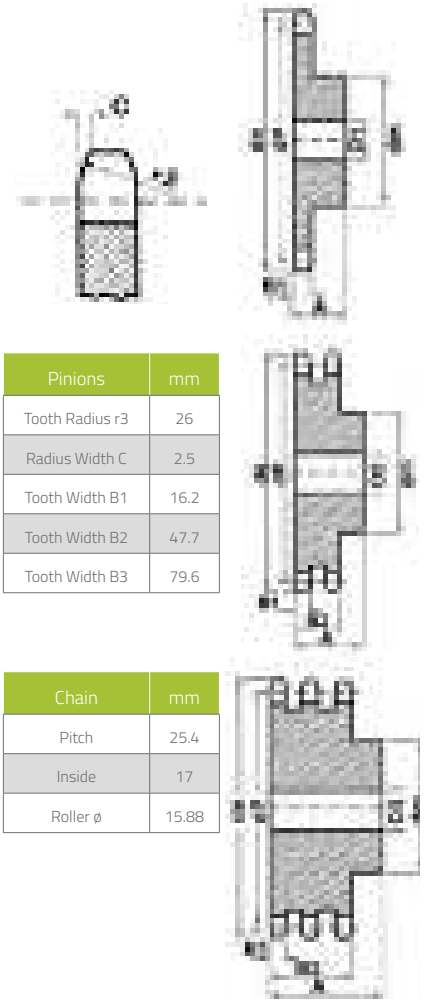


Pinions	mm
Tooth Radius r3	19
Radius Width C	2
Tooth Width B1	11.1
Tooth Width B2	30.3
Tooth Width B3	49.8

Chain	mm
Pitch	19.05
Inside	11.68
Roller ø	12.07

Teeth	de	dp	Simplex				Duplex				Triplex			
			dm	D1	A	AppKg	dm	D2	A	App.Kg	dm	D3	A	App. Kg
8	58	49.78	31	12	30	OA	-	-	-	-	-	-	-	-
9	63.9	55.7	37	12	30	OA	37	16	45	0.75	-	-	-	-
10	69.8	61.64	42	12	30	OA	42	16	45	0.90	-	-	-	-
11	75.8	67.61	46	16	35	0.53	47	16	50	1.00	47	20	70	OA
12	81.8	73.6	52	16	35	0.67	53	16	50	1.23	-	-	-	-
13	87.8	79.59	58	16	35	0.75	59	16	50	1.41	59	20	70	1.77
14	93.8	85.61	64	16	35	0.91	65	20	50	1.68	-	-	-	-
15	99.8	91.63	70	16	35	1.14	71	20	50	1.95	71	20	70	2.45
16	105.8	97.65	75	16	35	1.27	77	20	50	2.27	77	20	70	OA
17	111.9	103.7	80	16	35	1.46	83	20	50	2.63	83	20	70	3.49
18	117.9	109.7	80	16	35	1.69	89	20	50	3.18	89	20	70	OA
19	123.9	115.8	80	16	35	1.78	95	20	50	3.50	95	20	70	4.54
20	130	121.8	80	16	35	2.10	100	20	50	3.72	100	20	70	OA
21	136	127.8	90	20	40	2.27	100	20	50	4.31	100	25	70	5.67
22	142	133.9	90	20	40	2.38	100	20	50	4.77	100	20	70	OA
23	148.1	139.9	90	20	40	2.49	110	20	50	4.99	110	25	70	6.62
24	154.1	145.9	90	20	40	2.62	110	20	50	5.45	110	20	70	OA
25	160.2	152	90	20	40	2.78	120	20	50	5.67	120	25	70	7.71
26	166.2	158	95	20	40	2.89	120	20	50	6.13	-	-	-	-
27	172.3	164.1	95	20	40	3.05	120	20	50	6.49	120	25	70	8.99
28	178.3	170.1	95	20	40	3.12	120	20	50	6.81	-	-	-	-
29	184.4	176.2	95	20	40	3.30	120	20	50	7.13	-	-	-	-
30	190.4	182.3	95	20	40	3.44	120	20	50	7.49	120	25	70	10.53
31	196.5	188.3	95	20	40	3.50	-	-	-	-	-	-	-	-
32	202.5	194.4	95	20	40	3.75	-	-	-	-	-	-	-	-
33	208.6	200.4	95	20	40	3.82	-	-	-	-	-	-	-	-
34	214.6	206.5	95	20	40	3.99	-	-	-	-	-	-	-	-
35	220.7	212.5	95	20	40	4.10	120	20	50	10.18	-	-	-	-
36	226.8	218.6	100	25	40	4.35	120	25	50	12.31	-	-	-	-
37	232.8	224.6	100	25	40	4.64	-	-	-	-	-	-	-	-
38	238.9	230.1	100	25	40	4.92	120	25	50	12.99	130	25	70	20.57
39	244.9	236.8	100	25	40	5.15	-	-	-	-	-	-	-	-
40	251	242.8	100	25	40	5.22	-	-	-	-	-	-	-	-
41	258	248.86	100	25	40	OA	-	-	-	-	-	-	-	-
42	265	254.9	118	25	60	5.78	-	-	-	-	-	-	-	-
43	272	260.98	100	25	40	OA	-	-	-	-	-	-	-	-
44	276	267.03	100	25	40	OA	-	-	-	-	-	-	-	-
45	283.2	273.1	100	25	56	6.34	136	25	62	15.38	-	-	-	-
48	301.4	291.3	118	25	60	7.18	-	-	-	-	-	-	-	-
50	313.5	303.4	118	25	60	8.01	-	-	-	-	-	-	-	-
55	343.8	333.7	118	25	60	9.90	-	-	-	-	-	-	-	-
57	355.9	345.8	100	30	56	10.10	120	30	63	25.34	140	40	70	33.73
60	374.1	364	118	25	60	11.44	-	-	-	-	-	-	-	-
76	471.1	461	100	30	56	17.26	135	30	63	25.63	160	40	75	37.19
95	586.2	576.2	100	30	65	23.83	135	30	70	39.24	-	-	-	-
114	700.9	691.36	100	30	65	50.59	135	30	70		-	-	-	-

16B-1-2-3 Sprocket

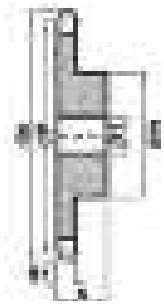


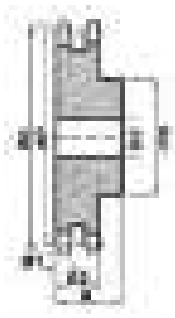
Pinions	mm
Tooth Radius r3	26
Radius Width C	2.5
Tooth Width B1	16.2
Tooth Width B2	47.7
Tooth Width B3	79.6

Chain	mm
Pitch	25.4
Inside	17
Roller ø	15.88

Teeth	de	dp	Simplex				Duplex				Triplex			
			dm	D1	A	App. Kg	dm	D2	A	App. Kg	dm	D3	A	App. Kg
8	77.9	66.37	42	16	35	0.95	-	-	-	-	-	-	-	-
9	85.8	74.27	50	16	35	1.20	50	20	65	0.60	-	-	-	-
10	93.8	82.19	55	16	35	1.35	56	20	65	0.83	56	20	95	
11	101.7	90.14	61	16	40	1.45	64	20	70	1.82	-	-	-	-
12	109.7	98.14	69	16	40	1.82	72	20	70	2.36	-	-	-	-
13	117.7	106.1	78	16	40	1.94	80	20	70	1.95	80	25	100	4.13
14	125.7	114.2	84	16	40	2.09	88	20	70	3.5	-	-	-	-
15	133.7	122.2	92	16	40	2.59	96	20	70	4.18	96	25	100	5.54
16	141.8	130.2	100	20	45	3.00	104	25	70	5.22	-	-	-	-
17	149.8	138.2	100	20	45	3.18	112	25	70	5.99	112	25	100	8.07
18	157.8	146.3	100	20	45	3.77	120	25	70	6.81	-	-	-	-
19	165.9	154.4	100	20	45	3.86	128	25	70	7.71	128	25	100	10.89
20	173.9	162.4	100	20	45	4.09	130	25	70	8.26	-	-	-	-
21	182	170.4	110	20	50	4.54	130	25	70	8.85	130	25	100	13.61
22	190.1	178.5	110	20	50	5.00	130	25	70	9.53	-	-	-	-
23	198.1	186.5	110	20	50	5.08	130	25	70	10.43	130	25	100	14.97
24	206.2	194.6	110	20	50	5.54	130	25	70	11.44	-	-	-	-
25	214.2	202.7	110	20	50	5.76	130	25	70	12.47	130	25	100	17.70
26	222.3	210.7	120	20	50	7.03	130	25	70	13.62	-	-	-	-
27	230.4	218.8	120	20	50	7.53	130	25	70	14.75	130	30	100	21.57
28	238.4	226.9	120	20	50	7.58	130	25	70	15.89	-	-	-	-
29	246.5	234.9	120	20	50	7.94	130	25	70	17.02	-	-	-	-
30	254.6	243	120	20	50	8.26	130	25	70	18.16	130	30	100	26.33
31	262.6	251.1	120	25	50	8.62	-	-	-	-	-	-	-	-
32	270.7	259.1	120	25	50	8.98	-	-	-	-	-	-	-	-
33	278.8	267.2	120	25	50	9.33	-	-	-	-	-	-	-	-
34	286.9	275.3	120	25	50	9.69	-	-	-	-	-	-	-	-
35	294.9	283.4	120	25	50	10.05	-	-	-	-	-	-	-	-
36	303	291.4	120	25	50	10.41	-	-	-	-	-	-	-	-
37	311.1	299.5	120	25	50	10.78	-	-	-	-	-	-	-	-
38	319.2	307.6	120	25	50	11.12	140	25	70	29.60	140	30	100	41.45
39	327.2	315.7	120	25	50	11.48	-	-	-	-	-	-	-	-
40	335.3	323.4	120	25	50	11.83	-	-	-	-	-	-	-	-
45	377.9	364.1	125	30	70	13.62	150	40	75	34.35	160	45	100	45.00
57	474.9	461.1	125	30	70	22.16	170	40	90	38.18	165	45	100	51.35
76	628.4	614.7	140	35	80	39.24	175	40	95	68.11	200	45	110	77.11
95	782	768.2	140	40	80	57.12	-	-	-	-	-	-	-	-
114	935.6	921.8	140	30	80	75.00	-	-	-	-	-	-	-	-

20B-1-2 Sprocket



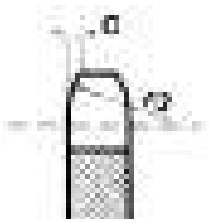


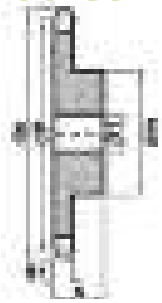
Pinions	mm
Tooth Radius r3	32
Radius Width C	3.5
Tooth Width B1	18.5
Tooth Width B2	54.6
Tooth Width B3	91

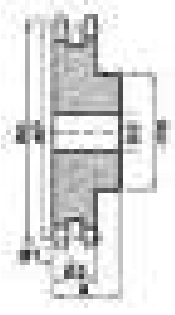
Chain	mm
Pitch	31.75
Inside	19.56
Roller ø	19.05

Teeth	de	dp	Simplex				Duplex			
			dm	D1	A	App.Kg	dm	D2	A	App.Kg
9	106.5	92.84	63	20	40	1.45	-	-	-	-
10	117	102.7	70	20	40	1.86	-	-	-	-
11	127	112.7	77	20	45	2.40	80	25	80	3.67
12	137	122.7	88	20	45	2.95	90	25	80	OA
13	147.5	132.7	98	20	45	3.00	100	25	80	5.53
14	157.6	142.7	108	20	45	3.40	110	25	80	6.62
15	167.6	152.7	118	20	45	4.31	120	25	80	7.76
16	177.7	162.8	120	25	50	4.63	120	30	80	OA
17	187.8	172.8	120	25	50	4.99	120	30	80	10.44
18	197.8	182.9	120	25	50	5.44	120	30	80	OA
19	207.9	192.9	120	25	50	5.9	120	30	80	12.92
20	217.9	203	120	25	50	6.35	120	30	80	OA
21	228	213	140	30	55	7.03	140	30	80	OA
22	238.1	223.1	140	30	55	7.71	140	30	80	OA
23	248.2	233.2	140	30	55	8.16	140	30	80	19.05
24	258.3	243.2	140	30	55	8.62	140	30	80	OA
25	268.4	253.3	140	30	55	9.07	140	30	80	21.77
26	278.4	263.4	150	30	55	9.53	150	30	80	OA
27	288.5	273.5	150	30	55	10.43	150	30	80	24.97
28	299	283.6	150	30	55	11.34	150	30	80	OA
29	308.8	293.6	150	30	55	OA	150	30	80	OA
30	319	303.8	150	30	55	12.02	150	30	80	OA

24B-1-2 Sprocket





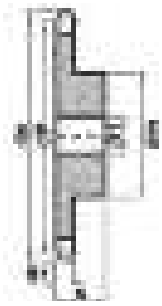


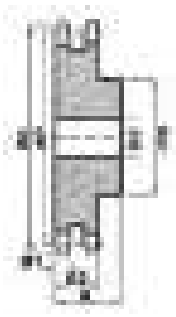
Pinions	mm
Tooth Radius r3	38
Radius Width C	4.0
Tooth Width B1	23.6
Tooth Width B2	72
Tooth Width B3	120.3

Chain	mm
Pitch	38.1
Inside	25.4
Roller ø	25.4

Teeth	de	dp	Simplex				Duplex			
			dm	D1	A	App.Kg	dm	D2	A	App. Kg
9	125	111.4	70	25	95	2.02	-	-	-	-
10	137	123.3	80	25	95	2.61	-	-	-	-
11	149	135.2	90	25	100	3.77	90	25	100	6.50
12	161	147.2	102	25	100	4.77	102	25	100	OA
13	137	159.2	114	25	100	5.91	114	25	100	9.92
14	185	171.2	128	25	100	6.68	128	25	100	11.98
15	197	183.3	132	25	100	7.49	132	25	100	14.13
16	209	195.3	136	30	100	9.08	136	30	100	16.35
17	221	207.3	136	30	100	9.76	136	30	100	17.85
18	233	219.4	160	30	100	10.49	160	30	100	20.35
19	245.5	231.5	160	30	100	11.21	160	30	100	22.56
20	257.5	243.6	160	30	100	12.26	160	30	100	24.78
21	270.5	255.7	160	30	100	13.38	160	30	100	26.99
22	282.5	267.7	160	30	100	13.67	160	30	100	29.74
23	294.5	279.8	160	30	100	14.74	160	30	100	OA
24	307	292	160	30	100	OA	160	30	100	OA
25	319	304	160	30	100	16.38	160	30	100	OA
26	331	317	160	30	100	OA	160	30	100	OA
27	343	328	160	30	100	OA	160	30	100	OA
28	355	340	160	30	100	OA	160	30	100	OA
29	367	352	160	30	100	OA	160	30	100	OA
30	379	365	160	30	100	OA	160	30	100	OA

28B - 1 Sprocket

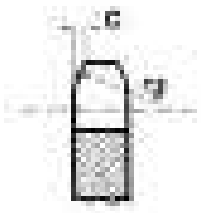




Pinions	mm
Tooth Radius r3	38
Radius Width C	4.0

Teeth	de	dp	Simplex				Duplex			
			dm	D1	A	App.Kg	dm	D2	A	App. Kg
19	289.0	270.03	160	30	75	-	180	30	120	

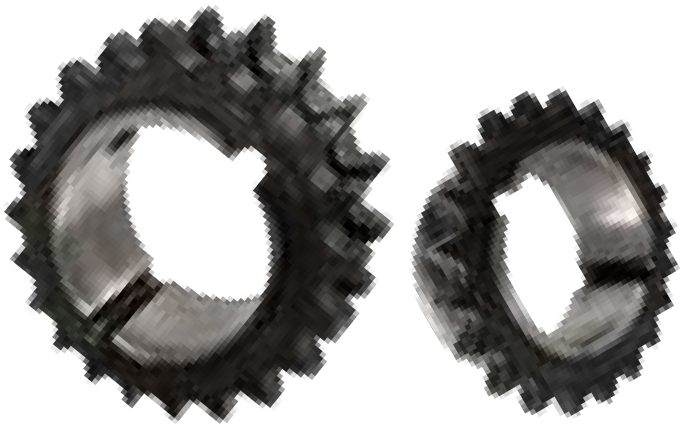
06B-1-2 Taper Lock



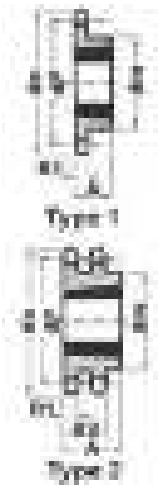
Pinions	mm
Tooth Radius r3	10
Radius Width C	1
Tooth Width B1	5.3

Chain	mm
Pitch	9.53
Inside	5.72
Roller ø	6.35

Teeth	de	dp	Simplex					Duplex				
			dm	A	Bush	Type	App. Kg	dm	A	Bush	Type	App. Kg
17	55.5	51.83	45	22.23	1008	1	0.14	41	22	1008	2	0.5
18	58.6	54.85	45	22.23	1008	1	0.18	43	22	1008	2	OA
19	61.6	57.87	45	22.23	1008	1	0.23	46	22	1008	2	0.6
20	64.6	60.89	45	22.23	1008	1	0.27	48	22	1008	2	OA
21	67.6	63.91	45	22.23	1008	1	0.32	49	22	1008	2	1.4
22	70.6	66.93	45	22.23	1108	1	0.36	52	22	1008	2	OA
23	73.7	69.95	63	25.40	1210	1	0.41	59	25	1210	2	1.8
24	76.7	72.97	63	25.40	1210	1	0.45	61	25	1210	2	OA
25	79.7	76	63	25.40	1210	1	0.54	64	25	1210	2	1.9
26	83.0	79.02	63	25.40	1210	1	0.53	64	25	1210	2	1.95
27	85.7	82.04	63	25.40	1210	1	0.52	70	25	1210	2	2.0
28	89	85.07	63	25.4	1210	1	0.53	70	25	1210	2	OA
29	92	88.09	63	25.4	1210	1	0.53	70	25	1210	2	OA
30	94.8	91.12	63	25.40	1210	1	0.54	75	25	1210	2	2.1
36	113.4	109.3	-	-	1210	-	-	75	25	1210	2	OA
38	119	115.3	70	25.40	1210	1	0.68	80	25	1610	2	2.5
45	140.2	136.5	70	25.40	1210	1	0.95	-	-	-	-	-
57	149.3	145.2	83	25.40	1210	1	1.25	80	25	1610	2	4.1
76	197.9	193.6	83	25.40	1210	1	1.82	80	25	1615	2	6.8
95	246.3	242	83	25.40	1210	1	2.28	90	25	1615	2	6.9
114	294.8	290.3	83	38	1215	1	OA	-	-	-	-	-



08B-1-2 Taper Lock



Pinions	mm
Tooth Radius r3	13
Radius Width C	1.3
Tooth Width B1	7.2

Chain	mm
Pitch	12.7
Inside	7.75
Roller ø	8.51

Teeth	de	dp	Simplex					Duplex				
			dm	A	Bush	Type	App. Kg	dm	A	Bush	Type	App. Kg
14	61.9	57.07	45	22.23	1008	1	0.18	-	-	-	-	-
15	65.9	61.09	45	22.23	1008	1	0.18	46	22.23	1008	2	0.18
16	69.9	65.1	45	22.23	1008/ 1108	1	0.23	50	22	1008	2	OA
17	74	69.11	60	25.40	1108/ 1210	1	0.23	56	25.40	1210	2	0.27
18	78	73.14	62	25.40	1210	1	0.27	60	25	1210	2	OA
19	82	77.16	63	25.40	1210	1	0.32	62	25.40	1210	2	0.36
20	86	81.19	71	25.40	1210/ 1610	1	0.41	66	25	1610	2	OA
21	90.1	85.22	71	25.40	1610	1	0.45	70	25.40	1610	2	0.46
22	94.1	89.24	71	25.40	1610	1	0.50	76	25	1610	2	OA
23	98.1	93.27	76	25.40	1610	1	0.59	79	25.40	1610	2	0.59
24	102.1	97.29	76	25.40	1610	1	0.73	84	25	2012	2	OA
25	106.2	101.3	76	25.40	1610	1	0.74	87	31.75	2012	2	0.77
26	110.2	105.4	76	25.40	1610	1	0.76	87	32	2012	2	OA
27	114.2	109.4	76	25.40	1610	1	0.78	87	31.75	2012	2	0.95
28	118.3	113.4	76	25.40	2012	1	0.80	87	32	2012	2	OA
29	112.3	117.5	76	25.40	2012	1	0.81	87	32	2012	2	OA
30	126.3	121.5	90	31.75	2012	1	0.82	87	32	2012	2	1.59
32	134.4	129.6	90	31.75	2012	1	0.87	-	-	-	-	-
35	146.5	141.7	9.0	31.5	2012	1	0.95	-	-	-	-	-
37*	151.0	145.7	-	-	-	-	-	87	32	2012	2	2.85
38	158.6	153.8	90	31.75	2012	1	1.23	100	32	2012	2	3.18
45	188.6	182.1	100	31.75	2012	1	1.46	100	32	2012	2	3.95
48	200.7	194.2	100	31.75	2012	1	1.55	-	-	-	-	-
50	208.8	202.3	110	31.75	2012	1	OA	-	-	-	-	-
57	233.1	230.5	110	31.75	2012	1	2.60	110	31.75	2012	2	7.56
76	313.9	307.3	110	31.75	2012	1	4.27	110	31.75	2012	2	15.26
95	390.7	384.1	110	31.75	2012	1	6.88	110	31.75	2012	2	19.08
114	467.4	460.9	110	44.45	2012/ 2517	1	10.44	110	31.75	2517	2	22.90

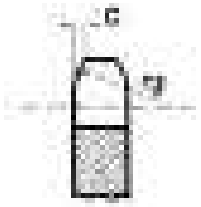
* Not a stocked range although available on request.

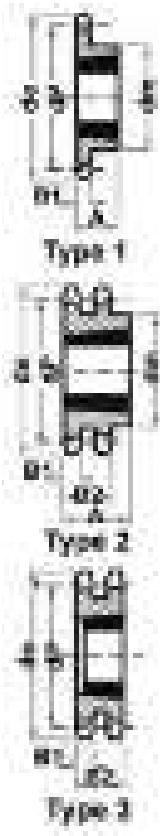
08B-3 Taper Lock

Pinions	mm
Tooth Radius r3	13
Radius Width C	1.3

Teeth	de	dp	Simplex					Duplex				
			dm	A	Bush	Type	App. Kg	dm	A	Bush	Type	App. Kg
27	114	109.40	78	25	1610	1	-	87	31.75	2012	3	-

10B-1-2 Taper Lock



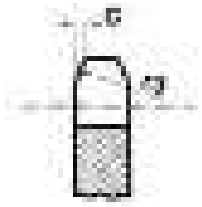


Pinions	mm
Tooth Radius r3	16
Radius Width C	1.6
Tooth Width B1	9.1

Chain	mm
Pitch	15.88
Inside	9.65
Roller ø	10.2

Teeth	de	dp	Simplex					Duplex				
			dm	A	Bush	Type	App. Kg	dm	A	Bush	Type	App. Kg
12	68.2	61.34	47	22.23	1008	1	0.20	-	-	-	-	-
13	73.2	66.32	47	22.23	1008	1	0.23	-	-	-	-	-
14	78	71.34	52	22	1108	1	0.27	-	-	-	-	-
15	83.2	76.36	60	25.40	1210	1	0.32	-	25.4	1210	3	0.48
16	88.3	81.37	71	25.40	1210/1610	1	0.37	-	25.4	1610	3	0.50
17	93.3	86.39	71	25.40	1610	1	0.41	-	25.4	1610	3	0.57
18	98.3	91.42	75	25.40	1610	1	0.51	-	25.4	1610	3	0.64
19	103.3	96.45	75	25.40	1610	1	0.64	-	25.4	1610	3	0.71
20	108.4	101.5	75	25.40	1610	1	0.68	-	25.4	1610	3	0.82
21	113.4	106.5	76	25.40	1610	1	0.73	-	25.4	1610	3	0.86
22	118.4	111.6	76	25.40	1610	1	0.78	-	25.4	1610	3	1.45
23	123.5	116.6	76	25.40	1610	1	0.82	-	25.4	1610	3	0.98
24	128.5	121.6	90	25.40	1610/2012	1	0.91	90	31.75	2012	2	2.06
25	133.6	126.7	90	31.75	2012	1	1.09	90	31.75	2012	2	3.40
26	138.6	131.7	90	31.75	2012	1	1.14	90	31.75	2012	2	3.50
27	143.6	136.8	90	31.75	2012	1	1.18	90	31.75	2012	2	3.50
28	148.7	141.8	90	31.75	2012	1	1.29	90	31.75	2012	2	3.80
29	153.8	146.8	90	31.75	2012	1	1.34	90	31.75	2012	2	3.87
30	158.8	151.9	90	31.75	2012	1	1.41	90	31.75	2012	2	3.92
32	168.9	162	90	31.75	2012	1	1.63	-	-	-	-	-
33	174.5	167	90	31.75	2012	1	1.73	-	-	-	-	-
35	184.1	177.1	90	31.75	2012	1	1.91	-	-	-	-	-
36	189.1	182.2	90	31.75	2012	1	1.95	-	-	-	-	-
38	199.1	192.2	90	31.75	2012	1	2.22	90	31.75	2012	2	5.68
40	209.3	202.3	90	31.75	2012	1	2.36	-	-	-	-	-
45	236	227.6	90	31.75	2012	1	2.95	-	-	-	-	-
48	251.1	242.7	90	31.75	2012	1	3.25	-	-	-	-	-
57	296.6	288.2	90	31.75	2012	1	4.59	110	44	2517/3020	2	11.80
76	392.5	384.2	110	31.75	2012	1	8.31	110	44	2517/3020	2	22
95	488.5	480.1	110	44.45	2517	1	12.76	-	-	-	-	-
114	584.5	576.1	110	44.75	2517	1	19.61	-	-	-	-	-

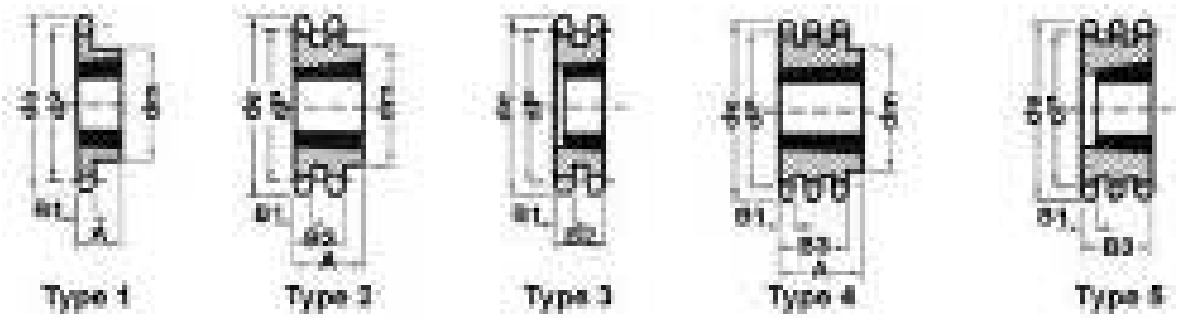
12B-1-2-3 Taper Lock



Pinions	mm
Tooth Radius r3	19
Radius Width C	2
Tooth Width B1	11.1

Chain	mm
Pitch	19.05
Inside	11.68
Roller ø	12.07

	Simplex								Duplex					Triplex				
Teeth	de	dp	dm	A	Bush	Type	App. Kg	dm	A	Bush	Type	App. Kg	dm	A	Bush	Type	App. Kg
12	81.5	73.6	60	24.4	1210	1	OA	-	-	-	-	-	-	-	-	-	-
13	87.8	79.59	60	25.40	1210	1	0.41	OA	25.4	1210	OA	OA	-	-	-	-	-
14	93.6	85.61	70	25.40	1610	1	OA	-	-	-	-	-	-	-	-	-	-
15	99.8	91.63	70	25.40	1610	1	0.54	-	30.10	1610	3	0.90	-	49.8	1615	5	OA
16	105.5	97.65	75	25.40	1610	1	OA	-	30.10	1610	3	OA	-	-	-	-	-
17	111.9	103.7	76	25.40	1610	1	0.82	-	30.10	1610/ 1615	3	1.25	-	49.8	1615/ 2017	5	OA
18	117.9	109.7	90	31.75	1610/ 2012	1	0.91	90	31.75	2012	2	OA	-	-	-	-	-
19	123.9	115.8	90	31.75	2012	1	1.00	90	31.75	2012	2	1.81	-	49.8	2012	5	OA
20	130	121.8	90	44.45	2012	1	1.00	108	44.45	2517	2	OA	-	-	-	-	-
21	136	127.8	102	44.45	2517	1	1.18	108	44.45	2517	2	2.50	-	49.8	2517	5	OA
22	142	133.9	102	44.45	2517	1	1.27	108	44.45	2517	2	OA	-	-	-	-	-
23	148.1	139.9	108	44.45	2517	1	1.37	108	44.45	2517	2	3.07	-	49.8	2517	5	OA
24	154.1	145.9	108	44.45	2517	1	1.50	108	44.45	2517	2	OA	-	-	-	-	-
25	160.2	152	108	44.45	2517	1	1.74	108	44.45	2517	2	3.63	-	49.8	2517	5	OA
26	165.9	158	108	44.45	2517	1	OA	108	44.45	2517	2	OA	-	-	-	-	-
27	172.3	164.1	108	44.45	2517	1	1.80	108	44.45	2517	2	4.20	140	50.80	3020	4	OA
28	178	170	108	44.45	2517	1	OA	108	44.45	2517	2	OA	-	-	-	-	-
29	184.1	176.2	108	44.45	2517	1	OA	108	44.45	2517	2	OA	-	-	-	-	-
30	190.4	182.3	108	44.45	2517	1	2.32	140	50.80	2517	2	5.04	140	50.80	3020	4	OA
32	202.5	194.4	108	44.45	2517	1	2.48	OA	OA	2517	OA	OA	-	-	-	-	-
34	214.6	206.5	108	44.45	2517	1	OA	-	-	-	-	-	-	-	-	-	-
35	221	212.5	108	44.45	2517	1	OA	-	-	-	-	-	-	-	-	-	-
36	226.8	218.6	108	44.45	2517	1	OA	-	-	-	-	-	-	-	-	-	-
38	238.9	230.1	108	44.45	2517	1	3.36	140	50.80	3020	2	8.40	140	50.80	3020	4	OA
45	283.2	273.1	108	44.45	2517	1	3.98	140	50.80	3020	2		-	-	-	-	-
57	355.9	345.8	108	44.45	2517	1	8.76	140	50.80	3020	2	19.48	160	50.80	3020	4	OA
76	471.1	461	108	44.45	2517	1	11.68	140	50.80	3020	2	29.52	160	50.80	3020	4	OA
95	586.2	576.2	108	44.45	2517	1	14.60	140	50.80	3020	2	34.40	-	-	-	-	-
114	701.4	691.4	140	50.80	3020	1	17.52	160	76.20	3030	2	39.28	-	-	-	-	-

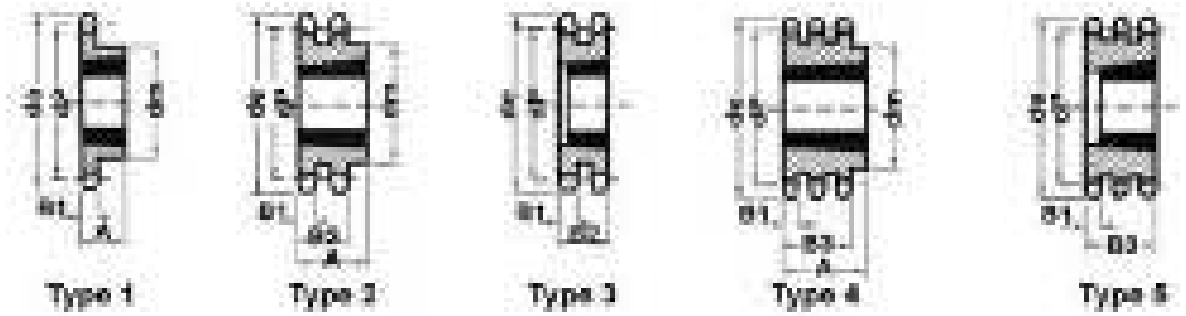


16B-1-2-3 Taper Lock

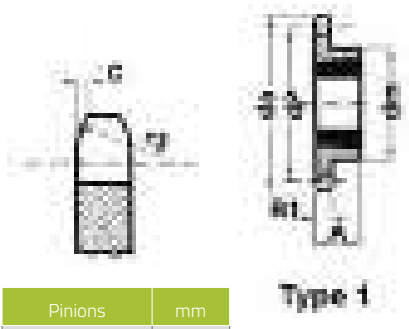
Pinions	mm
Tooth Radius r3	26
Radius Width C	2.5
Tooth Width B1	16.2

Chain	mm
Pitch	25.4
Inside	17.02
Roller ø	15.88

Teeth	de	dp	Simplex					Duplex					Triplex			
			dm	A	Bush	Type	App. Kg	dm	A	Bush	Type	App. Kg	dm	A	Bush	Type
12	109	98.14	73	25.4	1610	1	OA	-	-	-	-	-	-	-	-	
13	117.7	106.1	73	38.10	1610/ 1615	1	1.27	OA	47.7	2012	OA	OA	-	-	-	-
14	125	114	76	38.10	1610	1	OA	-	-	-	-	-	-	-	-	-
15	133.7	122.2	76	38.10	1610/ 1615	1	1.45	-	47.7	2012	3	2.04	-	47.7	2012	5
16	141.8	130.2	76	38.10	1615/ 2012	1	1.55	-	47.7	2517	3	OA	-	-	-	-
17	149.8	138.2	90	32	2012/ 2517	1	1.69	-	47.7	2517	3	2.50	-	79.6	2517	5
18	157.8	146.3	108	44.45	2517	1	1.46	-	47.7	2517	3	OA	-	-	-	-
19	165.9	154.4	108	44.45	2517	1	2.14	-	47.7	2517	3	3.18	-	79.6	3030	5
20	173.9	162.4	108	44.45	2517	1	2.72	-	47.7	2517	3	OA	-	-	-	-
21	182	170.4	110	44.45	2517	1	2.95	140	50.80	3020	2	2.95	-	79.6	3030/ 3535	5
22	190.1	178.5	110	44.45	2517	1	3.18	140	50.80	3020	2	OA	-	-	-	-
23	198.1	186.5	110	44.45	2517	1	3.40	140	50.80	3020	2	5.48		89	3525/ 3535	5
24	206.2	194.6	110	44.45	2517	1	3.63	140	50.80	3020	2	OA	-	-	-	-
25	214.2	202.7	110	44.45	2517	1	3.90	140	50.80	3020	2	7.72		89	3535	5
26	221.6	210.7	110	44.45	2517	1	OA	140	50.80	3020	2	OA	-	-	-	-
27	230.4	218.8	110	44.45	2517	1	4.31	140	50.80	3020	2	10.22		89	3535	5
28	237.7	226.8	110	44.45	2517	1	OA	140	50.80	3020	2	OA	-	-	-	-
29	245.8	234.9	120	44.45	3020	1	OA	140	50.80	3020	2	OA	-	-	-	-
30	254.6	243	120	44.45	2517/ 3020	1	5.44	140	50.80/ 76.20	3020/ 3030	2	11.35	175	89	3525 /3535	4
32	270.7	259.1	140	50.8	3020	1	OA	-	-	-	-	-	-	-	-	-
33	278.5	267.2	140	50.8	3020	1	OA	-	-	-	-	-	-	-	-	-
35	294.9	283.4	140	50.80	3020	1	7.12	-	-	-	-	-	-	-	-	-
38	319.2	307.6	140	50.80	3020	1	8.85	160	50.80/ 76.20	3020/ 3030	2	21.79	178	89	3535	4
45	377.9	364.1	140	50.80	2517 /3020	1	12.25	OA	50.8	3020	OA	OA	-	-	-	-
57	474.9	461.1	140	50.80	3020	1	19.16	175	62.7	3525	2	27.24	216	102	4040	4
76	628.4	614.7	140	50.80	3020	1	28.55	175	86.90	3535	2	37.68	216	102	4030/ 4040	4
95	782	768.2	140	50.80	3020	1	41.58	-	-	-	-	-	-	-	-	-
114	935.6	921.8	140	50.80	3030	1	56.15	-	-	-	-	-	-	-	-	-



20B-1 Taper Lock

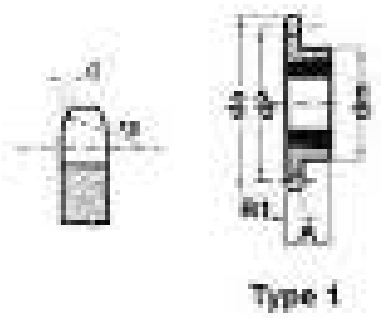


Pinions	mm
Tooth Radius r3	32
Radius Width C	3.5
Tooth Width B1	18.5

Chain	mm
Pitch	31.75
Inside	19.56
Roller ø	19.05

Teeth	de	dp	Simplex			
			dm	A	Bush	Type
13	147.5	132.7	98	45	2517	1
14	157.6	142.7	108	45	2517	1
15	167.6	152.7	118	45	2517	1
16	177.7	162.8	120	50	2517	1
17	187.8	172.8	120	50	2517	1
18	197.8	182.9	120	50	2517	1
19	207.9	192.9	120	50	2517	1
20	217.9	203	120	50	2517	1
21	228	213	140	55	2517	1
22	238.1	223.1	140	55	2517	1
23	248.2	233.2	140	55	2517	1
24	258.3	243.2	140	55	2517	1
25	268.4	253.3	140	55	2517	1
26	278.4	263.4	150	55	2517	1
27	288.5	273.5	150	55	3020	1
28	299	283.6	150	55	3020	1
29	308.8	293.6	150	55	3020	1
30	319	303.8	150	55	3020	1
38	399.6	384.5	160	55	3020	1

24B-1 Taper Lock



Pinions	mm
Tooth Radius r3	5
Radius Width C	0.6
Tooth Width B1	21.1

Chain	mm
Pitch	38.1
Inside	25.4
Roller ø	25.4

Teeth	de	dp	Simplex			
			dm	A	Bush	Type
13	174.2	159.18	110	44	2517	1
14	157.6	142.7	-	44	2157	1
15	198.2	183.26	150	44	2517	1
16	177.7	162.8	-	44	2517	1
17	222.3	207.34	165	50.8	3020	1
18	197.8	182.9	-	50.8	3020	1
19	246.5	231.49	165	50.8	3020	1
20	217.9	203	-	50.8	3020	1
21	270.6	255.65	165	50.8	3020	1
23	294.8	279.80	165	50.8	3020	1
25	319	304	165	50.8	3020	1
27	288.5	273.5	165	50.8	3020	1
30	319	303.8	165	89	3535	1
38	476.2	461.39	215	-	4040	2

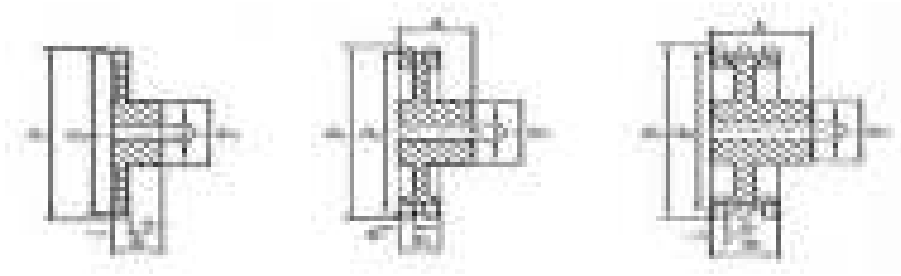
Pitch	Part Number	Bush Size
08B (1/2 Inch Pitch)	08B-1-15RT/L	1008
	08B-1-17RT/L	1210
	08B-1-19RT/L	1210
	08B-1-21RT/L	1610
	08B-1-23RT/L	1610
	08B-1-25RT/L	1610
	08B-1-27RT/L	1610
	08B-1-30RT/L	2012
	08B-1-38RT/L	2012
10B (5/8 Inch Pitch)	10B-1-13RT/L	1008
	10B-1-15RT/L	1210
	10B-1-17RT/L	1610
	10B-1-19RT/L	1610
	10B-1-21RT/L	1610
	10B-1-23RT/L	1610
	10B-1-25RT/L	2012
	10B-1-27RT/L	2012
	10B-1-30RT/L	2012
	10B-1-38RT/L	2012
12B (3/4 Inch Pitch)	12B-1-13RT/L	1210
	12B-1-15RT/L	1610
	12B-1-17RT/L	1610)
	12B-1-19RT/L	2012
	12B-1-21RT/L	2517
	12B-1-23RT/L	2517
	12B-1-25RT/L	2517
	12B-1-27RT/L	2517
	12B-1-30RT/L	2517
	12B-1-38RT/L	2517
16B (1 Inch Pitch)	16B-1-13RT/L	1615
	16B-1-15RT/L	1615
	16B-1-17RT/L	2012
	16B-1-19RT/L	2517
	16B-1-21RT/L	2517
	16B-1-23RT/L	2517
	16B-1-25RT/L	2517
	16B-1-27RT/L	2517
	16B-1-30RT/L	2517
	16B-1-38RT/L	3020

Refer to Standard Taperlock Sprocket Specifications for Dimensions

Taperlock Bush Entry this face

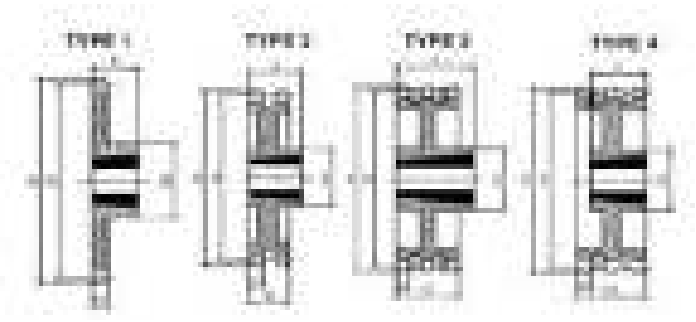
Pilot Bore

Pitch	Teeth	de	dp	Simplex			Duplex			Triplex		
				dm	D1	A	dm	D2	A	dm	D3	A
06B	114	350.3	345.68	80	18	32	-	-	-	-	-	-
08B	95	390.1	384.11	108	25	42	-	-	-	-	-	-
10B	95	488.5	480.14	-	-	-	145	30	58	-	-	-
	114	584.5	576.13	100	30	60	130	30	63	-	-	-
12B	57	355.9	345.8	-	-	-	-	-	-	140	30	75
	76	471.1	461	-	-	-	-	-	-	150	30	75
	114	701.4	691.36	-	-	-	140	30	63	-	-	-
16B	57	474.9	461.1	-	-	-	-	-	-	180	40	112
	76	628.4	614.7	-	-	-	-	-	-	180	40	112

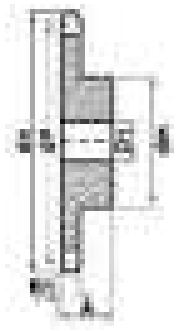


Taper Lock

Pitch	Teeth	de	dp	Simplex				Duplex				Triplex			
				dm	A	Bush	Type	dm	A	Bush	Type	dm	A	Bush	Type
06B	76	197.9	193.6	-	-	-	-	-	-	-	-	-	-	-	-
	95	246.3	242	OA	OA	1210	1	OA	OA	OA	2	-	-	-	-
	114	294.8	242	OA	OA	1210	1	-	-	-	-	-	-	-	-
08B	76	313.9	307.3	-	-	1610	1	100	32	2012	2	-	-	-	-
	95	390.7	384.1	-	-	-	-	100	32	2012	2	-	-	-	-
	114	467.4	460.9	100	32	2012	1	110	45	2517	2	-	-	-	-
10B	95	488.5	480.1	110	44	2517	1	-	-	-	-	-	-	-	-
	114	584.5	576.1	124	45	2517	1	OA	OA	OA	2	-	-	-	-
12B	57	355.9	345.8	108	45	2517	1	140	51	3020	2	140	51	3020	4
	76	471.1	461	108	45	2517	1	140	51	3020	2	140	51	3020	4
	95	586.2	576.2	108	45	2517	1	-	-	-	-	-	-	-	-
	114	701.4	691.4	108	64	2525	1	124	64	2525	2	-	-	-	-
16B	57	474.9	461.1	140	51	3020	1	175	65	3535	2	216	79.6	3535	4
	76	628.4	614.7	140	51	3020	1	175	65	3535	2	216	79.6	3535	4
	95	781.1	614.65	-	-	-	-	215	100	4040	2	-	-	-	-
	114	935.6	921.8	140	76	3030	1	-	-	-	-	-	-	-	-



06B-1 Sprocket

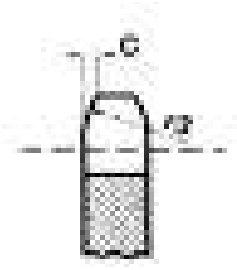


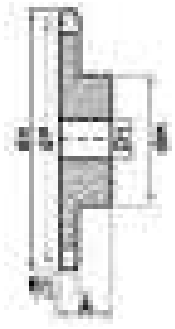
Teeth	de	dp	Simplex			
			dm	D1	A	App. Kg
13	43.5	39.8	28	8	25	0.11
15	49.5	45.81	34	8	25	0.14
17	55.5	51.83	40	10	28	0.20
19	61.6	57.87	45	10	28	0.25
21	67.6	63.91	48	12	28	0.36
23	73.7	69.95	52	12	28	0.39
25	79.7	76	57	12	28	0.41
27	85.7	82.04	60	12	28	0.44
30	94.8	91.12	60	12	28	0.48
38	119	115.3	70	16	30	0.77

Pinions	mm
Tooth Radius r3	10
Radius Width C	1
Tooth Width B1	5.3
Tooth Width b1	5.2

Chain	mm
Pitch	9.53
Inside	5.72
Roller ø	6.35

08B-1 Sprocket



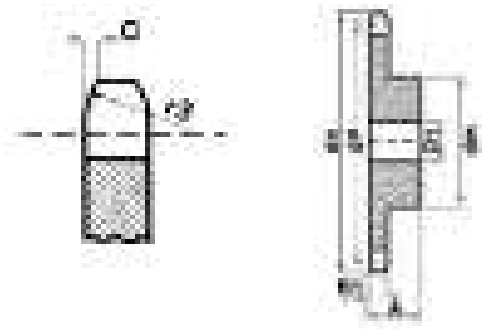


Teeth	de	dp	Simplex			
			dm	D1	A	App. Kg
13	57.9	53.06	37	10	28	0.25
15	65.9	61.09	45	10	28	0.33
17	74	69.11	52	12	28	0.51
19	82	77.16	60	12	28	0.65
21	90.1	85.22	68	14	28	0.82
23	98.1	93.27	70	14	28	1.05
25	106.2	101.3	70	14	28	1.13
27	114.2	109.4	70	16	30	1.19
30	126.3	121.5	80	16	30	1.36
38	158.6	153.8	90	16	35	1.78

Pinions	mm
Tooth Radius r3	13
Radius Width C	1.3
Tooth Width B1	7.2
Tooth Width b1	7

Chain	mm
Pitch	12.7
Inside	7.75
Roller ø	8.51

10B-1 Sprocket

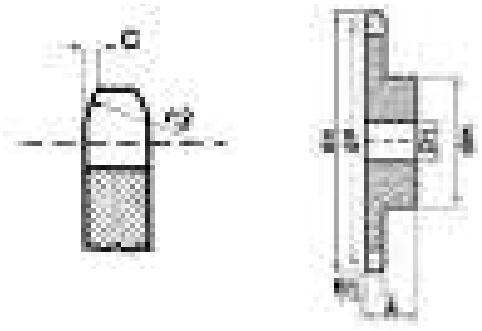


Teeth	de	dp	Simplex			
			dm	D1	A	App. Kg
13	87.8	79.59	58	16	35	0.75
15	99.8	91.63	70	16	35	1.14
17	111.9	103.7	80	16	35	1.46
19	123.9	115.8	80	16	35	1.78
21	136	127.8	90	20	40	2.27
23	148.1	139.9	90	20	40	2.49
25	160.2	152	90	20	40	2.78
27	172.3	164.1	95	20	40	3.05
30	190.4	182.3	95	20	40	3.44
38	238.9	230.1	100	25	40	4.92

Pinions	mm
Tooth Radius r3	16
Radius Width C	1.6
Tooth Width B1	9.1
Tooth Width b1	9

Chain	mm
Pitch	5.88
Inside	9.65
Roller ø	10.2

12B-1 Sprocket

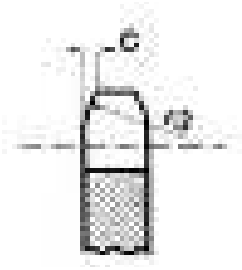


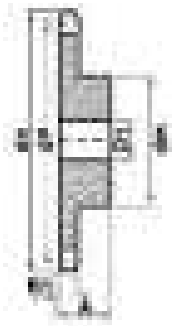
Teeth	de	dp	Simplex			
			dm	D1	A	App. Kg
13	87.8	79.59	58	16	35	0.75
15	99.8	91.63	70	16	35	1.14
17	111.9	103.7	80	16	35	1.46
19	123.9	115.8	80	16	35	1.78
21	136	127.8	90	20	40	2.27
23	148.1	139.9	90	20	40	2.49
25	160.2	152	90	20	40	2.78
27	172.3	164.1	95	20	40	3.05
30	190.4	182.3	95	20	40	3.44
38	238.9	230.1	100	25	40	4.92

Pinions	mm
Tooth Radius r3	19
Radius Width C	2
Tooth Width B1	11.1
Tooth Width b1	10.8

Chain	mm
Pitch	19.05
Inside	11.68
Roller ø	12.07

16B-1 Sprocket



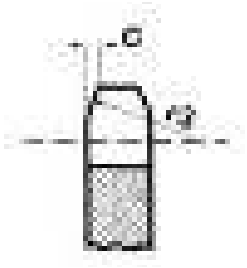


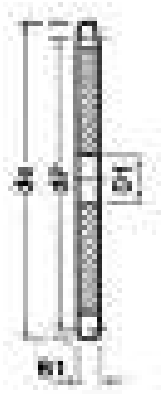
Teeth	de	dp	Simplex			
			dm	D1	A	App. Kg
13	117.7	106.1	78	16	40	1.94
15	133.7	122.2	92	16	40	2.59
17	149.8	138.2	100	20	45	3.18
19	165.9	154.4	100	20	45	3.86
21	182	170.4	110	20	50	4.54
23	198.1	186.5	110	20	50	5.08
25	214.2	202.7	110	20	50	5.76
27	230.4	218.8	120	20	50	7.53
30	254.6	243	120	20	50	8.26
38	319.2	307.6	120	25	50	11.12

Pinions	mm
Tooth Radius r3	26
Radius Width C	2.5
Tooth Width B1	16.2
Tooth Width b1	15.8

Chain	mm
Pitch	25.4
Inside	17
Roller ø	15.88

06A-1 Plate Wheel



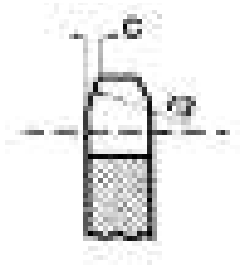


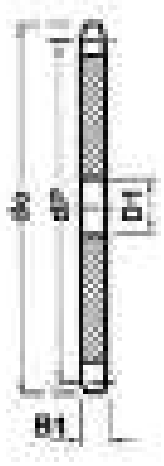
Pinions	mm
Tooth Radius r3	10
Radius Width C	1
Tooth Width B1	5.3

Chain	mm
Pitch	9.525
Inside	5.72
Roller ø	6.35

Teeth	de	dp	D1	App. Kg
11	37.5	33.8	8	0.05
12	40.5	36.8	8	0.05
13	43.5	39.8	8	0.05
14	46.5	42.8	8	0.06
15	49.5	45.81	8	0.07
16	52.5	48.82	10	0.08
17	55.5	51.83	10	0.10
18	58.6	54.85	10	0.11
19	61.6	57.87	10	0.12
20	64.6	60.89	10	0.13
21	67.6	63.91	12	0.14
22	70.6	66.93	12	0.15
23	73.7	69.95	12	0.17
24	76.7	72.97	12	0.19
25	79.7	76	12	0.20
26	82.7	79.02	12	0.21
27	85.7	82.04	12	0.22
28	88.8	85.07	12	0.23
29	91.8	88.09	12	0.25
30	94.8	91.12	12	0.27
31	97.9	94.15	14	0.22
32	100.9	97.17	14	0.24
33	103.9	100.2	14	0.25
34	106.9	103.2	14	0.26
35	110	106.3	14	0.27
36	113	109.3	16	0.28
37	116	112.3	16	0.35
38	119	115.3	16	0.43
39	122.5	118.3	16	0.44
40	125.1	121.4	16	0.45
45	140.7	136.5	16	0.51
56	173.8	169.9	20	0.83
57	176.9	172.9	20	0.86

08A-1 Plate Wheel



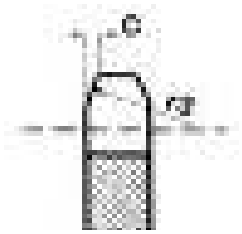


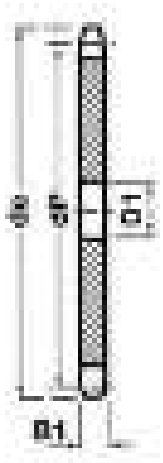
Pinions	mm
Tooth Radius r3	13
Radius Width C	1.3
Tooth Width B1	7.2

Chain	mm
Pitch	12.7
Inside	7.75
Roller ø	8.51

Teeth	de	dp	D1	App. Kg
10	43	41.1	8	OA
11	49.9	45.07	10	0.06
12	53.9	49.07	10	0.08
13	57.9	53.06	10	0.10
14	61.9	57.07	10	0.12
15	65.9	61.09	10	0.14
16	69.9	65.1	12	0.15
17	74	69.11	12	0.16
18	78	73.14	12	0.2
19	82	77.16	12	0.21
20	86	81.19	12	0.25
21	90.1	85.22	14	0.26
22	94.1	89.24	14	0.30
23	98.1	93.27	14	0.33
24	102.1	97.29	14	0.37
25	106.2	101.3	14	0.40
26	110.2	105.4	16	0.43
27	114.2	109.4	16	0.44
28	118.3	113.4	16	0.50
29	112.3	117.5	16	0.55
30	126.3	121.5	16	0.57
31	130.4	125.5	16	0.64
32	134.4	129.6	16	0.67
33	138.4	133.6	16	0.71
34	142.5	137.6	16	0.74
35	146.5	141.7	16	0.77
36	150.6	145.7	16	0.83
37	154.6	149.8	16	0.87
38	158.6	153.8	16	0.91
39	162.7	157.8	16	0.92
40	166.7	161.9	16	1.01
42	176.5	170	20	1.13
45	188.6	182.1	20	1.43
48	200.7	194.2	20	1.46
50	208.8	202.3	20	1.80
55	229	222.5	20	2.10
57	233.1	230.5	20	2.27
60	249.2	242.7	20	2.37
65	269.4	262.86	25	2.17
70	289.6	283.07	25	3.10
72	297.1	291.2	25	3.25
76	313.9	307.3	25	3.50

10A-1 Plate Wheel



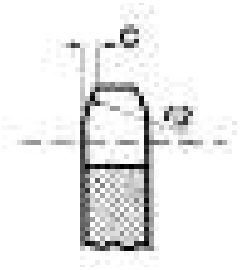


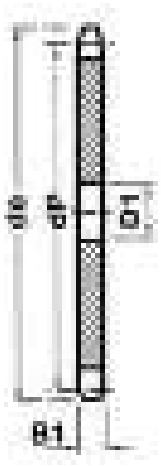
Pinions	mm
Tooth Radius r3	16
Radius Width C	1.6
Tooth Width B1	9.1

Chain	mm
Pitch	15.88
Inside	9.65
Roller ø	10.2

Teeth	de	dp	D1	App. Kg
11	63.2	56.35	12	0.11
12	68.2	61.34	12	0.15
13	73.2	66.32	12	0.19
14	78.2	71.34	12	0.23
15	83.2	76.36	12	0.25
16	88.3	81.37	12	0.31
17	93.3	86.39	12	0.35
18	98.3	91.42	14	0.39
19	103.3	96.45	14	0.43
20	108.4	101.5	14	0.48
21	113.4	106.5	16	0.51
22	118.4	111.6	16	0.59
23	123.5	116.6	16	0.65
24	128.5	121.6	16	0.68
25	133.6	126.7	16	0.73
26	138.6	131.7	20	0.78
27	143.6	136.8	20	0.89
28	148.7	141.8	20	0.93
29	153.7	146.8	20	1.07
30	158.8	151.9	20	1.15
31	163.8	156.9	20	1.27
32	168.9	162	20	1.32
33	173.9	167	20	1.42
34	178.9	172.1	20	1.45
35	184	177.1	20	1.51
36	189	182.2	20	1.73
37	194.1	187.2	20	1.81
38	199.1	192.2	20	1.88
39	204.2	197.3	20	2.00
40	209.2	202.3	20	2.02
42	220.8	212.4	20	2.26
45	236	227.6	20	2.69
48	251.1	242.7	20	2.98
50	261.2	252.8	20	3.22
52	270.4	262.92	20	OA
55	286.5	278.1	20	3.88
57	296.6	288.2	25	4.25
60	311.7	303.3	25	4.90
65	337.0	328.58	25	5.50
70	362.2	353.84	25	6.35
72	372.3	363.95	25	6.91
76	392.5	384.2	25	9.11

12A-1 Plate Wheel



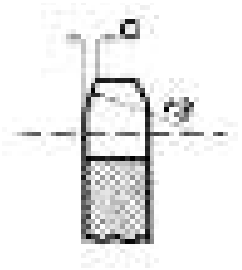


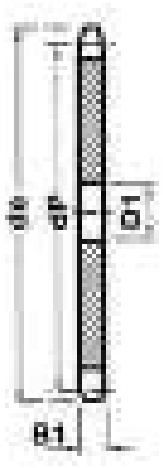
Pinions	mm
Tooth Radius r3	19
Radius Width C	2
Tooth Width B1	11.1

Chain	mm
Pitch	19.05
Inside	11.68
Roller ø	12.07

Teeth	de	dp	D1	App. Kg
11	75.8	67.61	16	0.36
12	81.8	73.6	16	0.42
13	87.8	79.59	16	0.48
14	93.8	85.61	16	0.54
15	99.8	91.63	16	0.60
16	105.8	97.65	16	0.68
17	111.9	103.7	16	0.77
18	117.9	109.7	16	0.85
19	123.9	115.8	16	0.95
20	130	121.8	16	1.08
21	136	127.8	20	1.15
22	142	133.9	20	1.24
23	148.1	139.9	20	1.33
24	154.1	145.9	20	1.47
25	160.2	152	20	1.63
26	166.2	158	20	1.72
27	172.3	164.1	20	1.91
28	178.3	170.1	20	1.99
29	184.4	176.2	20	2.28
30	190.4	182.3	20	2.44
31	196.5	188.3	20	2.49
32	202.5	194.4	20	2.62
33	208.6	200.4	20	2.77
34	214.6	206.5	20	2.91
35	220.7	212.5	20	3.19
36	226.8	218.6	25	3.21
37	232.8	224.6	25	3.52
38	238.9	230.1	25	3.67
39	244.9	236.8	25	3.87
40	251	242.8	25	4.00
42	265	254.9	25	4.53
45	283.2	273.1	25	5.14
46	287.9	279.16	25	5.35
48	301.4	291.3	25	5.75
50	313.5	303.4	25	6.45
55	343.8	333.7	25	7.43
57	355.9	345.8	25	8.11
60	374.1	364	25	9.19
65	404.4	394.29	25	10.65
70	434.7	424.60	30	12.45
72	446.8	436.74	30	13.22
76	471.1	461	30	14.78
701.4	584.5	576.1	OA	OA

16A-1 Plate Wheel



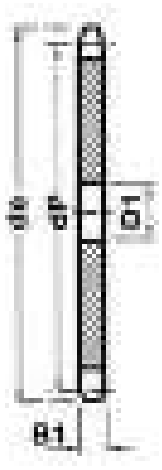


Pinions	mm
Tooth Radius r3	26
Radius Width C	2.5
Tooth Width B1	16.2

Chain	mm
Pitch	25.4
Inside	17.02
Roller ø	15.88

Teeth	de	dp	D1	App. Kg
11	101.7	90.14	16	0.82
12	109.7	98.14	16	0.91
13	117.7	106.1	16	1.04
14	125.7	114.2	16	1.22
15	133.7	122.2	16	1.36
16	141.8	130.2	20	1.54
17	149.8	138.2	20	1.81
18	157.8	146.3	20	2.00
19	165.9	154.4	20	2.13
20	173.9	162.4	20	2.49
21	182	170.4	20	2.63
22	190.1	178.5	20	2.82
23	198.1	186.5	20	3.04
24	206.2	194.6	20	3.45
25	214.2	202.7	20	3.63
26	222.3	210.7	20	3.90
27	230.4	218.8	20	4.31
28	238.4	226.9	20	4.58
29	246.5	234.9	20	4.81
30	254.6	243	20	5.22
31	262.6	251.1	25	5.56
32	270.7	259.1	25	5.90
33	278.8	267.2	25	6.24
34	286.9	275.3	25	6.58
35	294.9	283.4	25	6.92
36	303	291.4	25	7.26
37	311.1	299.5	25	7.60
38	319.2	307.6	25	7.94
39	327.2	315.7	25	8.48
40	335.3	323.4	25	9.01
42	353.0	339.9	25	10.1
45	377.9	364.1	25	11.70
57	474.9	461.1	30	18.14
76	627.0	614.65	30	OA
95	781.1	768.2	30	OA

24A-1 Plate Wheel



Pinions	mm
Tooth Radius r3	38
Radius Width C	4
Tooth Width B1	11.7

Chain	mm
Pitch	19.05
Inside	12.7
Roller ø	11.91

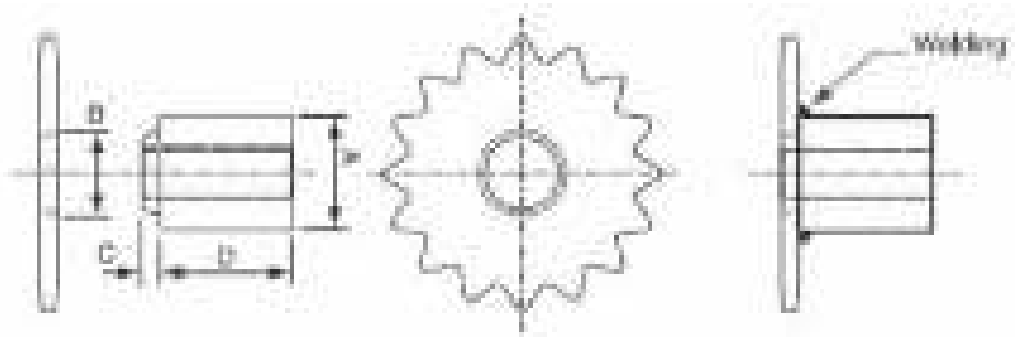
Teeth	de	dp	D1
38	476.2	461.4	30
50	621.7	606.78	30

Welded Hubs

For use with Weld Fit Sprockets

	VT Series Hub		WT Series Hub		XT Series Hub	
	For VT sprockets		For WT sprockets		For XT sprockets	
A	34mm	(1-5/16)	45mm	(1-3/4)	62mm	(2-7/16)
B	30mm	(1-3/16)	41mm	(1-5/8)	57mm	(2-1/4)
C	12mm	(1/2)	12mm	(1/2)	12mm	(1/2)
D	18mm	(11/16)	25mm	(15/16)	25mm	(15/16)

BORE					
Inch	mm	Inch	mm	Inch	mm
1/2	12	1/2	-	1/2	-
-	14	-	14	-	14
5/8	15	5/8	15	5/8	15
-	-	-	16	-	16
3/4		3/4	18	3/4	18
-	19	-	19	-	19
7/8	20	7/8	20	7/8	20
-	-	1	24	1	24
-	-	-	25	-	25
-	-	1-1/8	28	1-1/8	28
-	-		30		30
-	-	1-1/4	32	1-1/4	32
-	-	-	-	-	35
-	-	-	-	1-3/8	38
-	-	-	-	-	40
-	-	-	-	1-1/2	42
-	-	-	-	1-5/8	45
-	-	-	-	1-3/4	-



Notes

1) Welding with low hydrogen electrodes is recommended

2) Keyways conform to BS 46 (imperial) and BS 4235 (metric)

ANSI & BS Weld Fit Sprockets To Suit Welded Hubs

No. of Teeth	08BS 1/2" Pitch	ANSI-40 1/2" Pitch	ANSI-50 BS 10B 5/8" Pitch	ANSI-60 BS 12B 3/4" Pitch	ANSI-80 BS 16B 1" Pitch
11	-	-	-	60WT11HT	-
12	08V12HT	40VT12HT	50WT12HT	60WT12HT	80XT12HT
13	08V13HT	40VT13HT	50WT13HT	60WT13HT	80XT13HT
14	08V14HT	40VT14HT	50WT14HT	60WT14HT	80XT14HT
15	08V15HT	40VT15HT	50WT15HT	60XT15HT	80XT15HT
16	08WT16HT	40WT16HT	50WT16HT	60XT16HT	80XT16HT
17	08WT17HT	40WT17HT	50XT17HT	60XT17HT	80XT17HT
18	08WT18HT	40WT18HT	50XT18HT	60XT18HT	80XT18HT
19	08WT19HT	40WT19HT	50XT19HT	60XT19HT	80XT19HT
20	08XT20HT	40XT20HT	50XT20HT	60XT20HT	80XT20HT
21	08XT21HT	40XT21HT	50XT21HT	60XT21HT	80XT21HT
22	08XT22HT	40XT22HT	50XT22HT	60XT22HT	80XT22HT
23	08XT23HT	40XT23HT	50XT23HT	60XT23HT	80XT23HT
24	08XT24HT	40XT24HT	50XT24HT	60XT24HT	80XT24HT
25	08XT25HT	40XT25HT	50XT25HT	60XT25HT	80XT25HT
26	08XT26HT	40XT26HT	50XT26HT	60XT26HT	80XT26HT
27	08XT27HT	40XT27HT	50XT27HT	60XT27HT	80XT27HT
28	08XT28HT	40XT28HT	50XT28HT	60XT28HT	80XT28HT
29	08XT29HT	40XT29HT	50XT29HT	60XT29HT	80XT29HT
30	08XT30HT	40XT30HT	50XT30HT	60XT30HT	80XT30HT
32	08XT32HT	40XT32HT	50XT32HT	60XT32HT	80XT32HT
34	08XT34HT	40XT34HT	50XT34HT	60XT34HT	80XT34HT
36	08XT36HT	40XT36HT	50XT36HT	60XT36HT	80XT36HT
38	08XT38HT	40XT38HT	50XT38HT	60XT38HT	80XT38HT
40	08XT40HT	40XT40HT	50XT40HT	60XT40HT	80XT40HT
45	08XT45HT	40XT45HT	50XT45HT	60XT45HT	80XT45HT
57	08XT57HT	40XT57HT	50XT57HT	60XT57HT	80XT57HT
76	08XT76HT	40XT76HT	50XT76HT	60XT76HT	80XT76HT

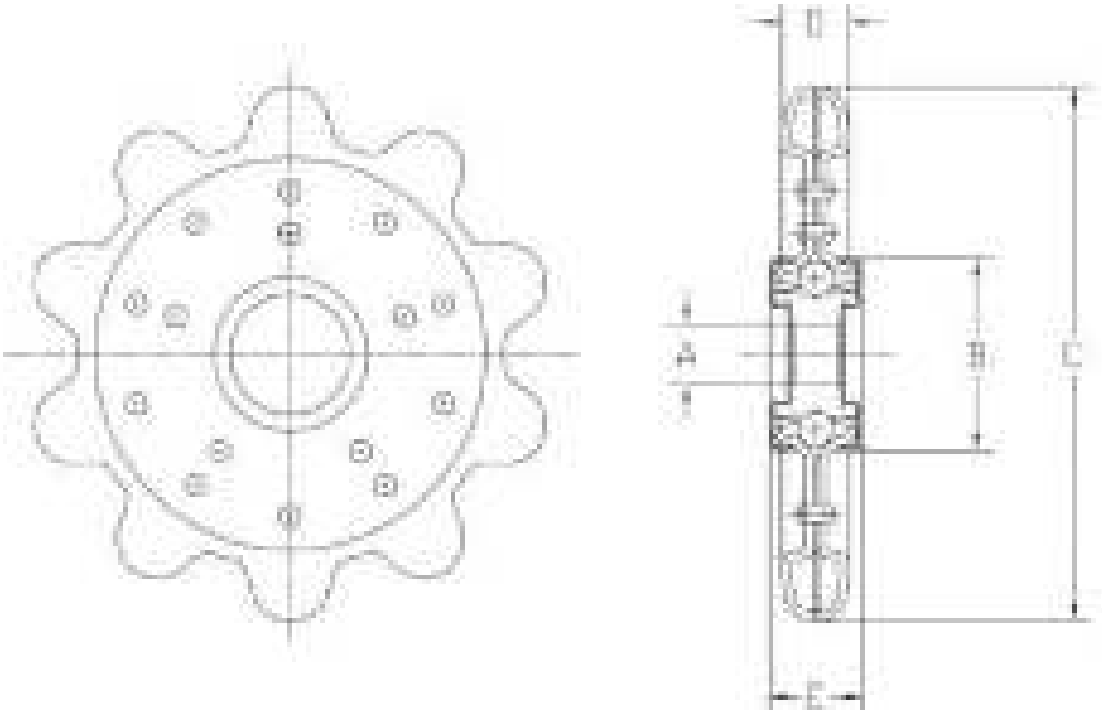
Sprocket Idlers

These sprocket idlers are designed for agricultural detachable link chain. They are installed with standard 1/2" or 5/8" bolts, and (one or the other) include accurately contoured hardened teeth to resist wear and damage to the chain. Aetna idlers are compact, easy to install and built for a long maintenance-free service life.

ADVANTAGES

Case hardened teeth prolong chain and idler life. Accurately contoured teeth from heavy gauge steel
Over-size, factory packed lubricant chamber assures maximum life and operating efficiency without troublesome relubrication
Bearing races are hardened to resist wear, outers and inners are accurately formed for smooth running
Aetna's self-contouring, free running, self-wiping seal provides positive contact under all conditions of misalignment
Full ball complement for high durability

Detachable Chain Idlers



PART NO.	UNIT	CHAIN NO	PITCH	ROLLER DIA	TEETH	A	B	C	D	E	WEIGHT (LBS / kg)
AG2422	Inch	62,62H	1.654	.670 / .686	7	.643/.649	1-13/32	4-29/64	3/4	29/32	1.43
	mm			17.018/17.242		16.332/16.484	35.718	113.109	19.05	23.018	.6486
AG2422-1AF	Inch	62,62H	1.654	.670 / .686	7	.643/.649	1-13/32	4-29/64	3/4	29/32	1.43
	mm			17.018/17.242		16.332/16.484	35.718	113.109	19.05	23.018	.6486

*Includes Felt & Slinger Seals

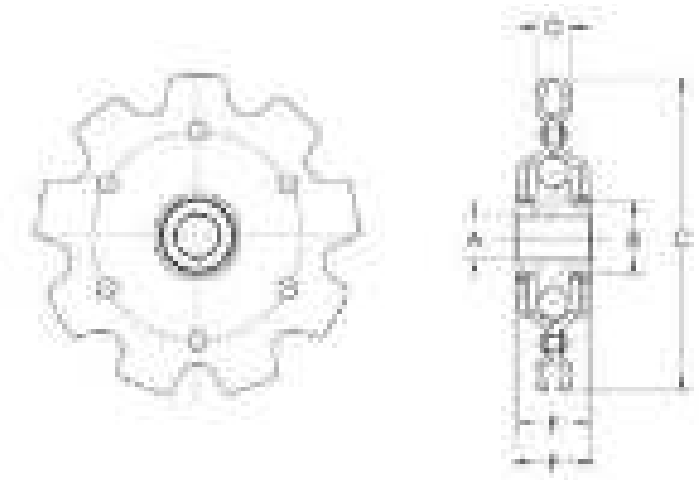
Sprocket Idlers

These sprocket idlers are designed for extended pitch chain. They are installed with standard 1/2" or 5/8" bolts, and (one or the other) include accurately contoured hardened teeth to resist wear and damage to the chain. Aetna idlers are compact and easy to install and built for a long maintenance-free service life. Typical applications include gathering chains on corn heads and other harvesting equipment.

ADVANTAGES

Case hardened teeth prolong chain and idler life. Accurately contoured teeth from heavy gauge steel
Over-size, factory packed lubricant chamber assures maximum life and operating efficiency without troublesome relubrication
Bearing races are hardened to resist wear, outers and inners are accurately formed for smooth running
Aetna's self-contouring, free running, self-wiping seal provides positive contact under all conditions of misalignment
Full ball complement for high durability

Double Pitch Chain Idlers



PART NO.	UNIT	CHAIN NO	PITCH	ROLLER DIA	TEETH	A	B	C	D	E	F	WEIGHT (LBS / kg)
AG2416-B	Inch	2050	1-1/4	.400	9	.643 / .649	7/8	3-27/32	11/32	51/64	.927	.75
	mm		31.75	10.16		16.332/16.484	22.225	97.631	8.731	20.240	23.545	.340

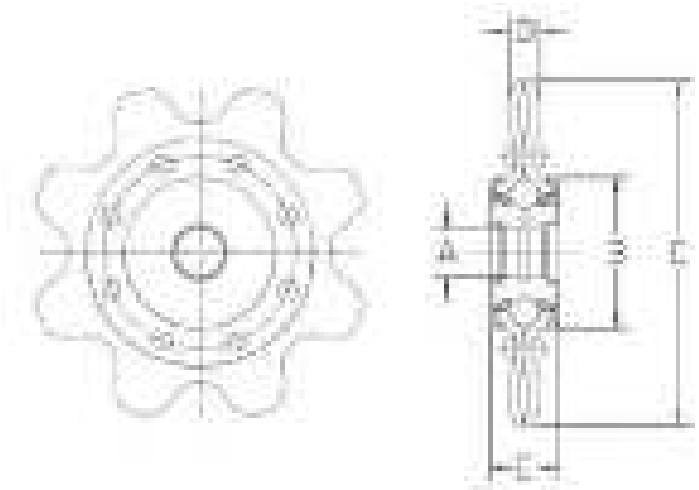
Sprocket Idlers

These sprocket idlers are designed for extended pitch chain. These Aetna idlers are manufactured with heavier gauge steel for greater life and load carrying capacity. They are installed with standard 1/2" or 5/8" bolts, and (one or the other) include accurately contoured hardened teeth to resist wear and damage to the chain. Aetna idlers are compact and easy to install and built for a long maintenance-free service life. Typical applications include gathering chains on corn heads and other harvesting equipment.

ADVANTAGES

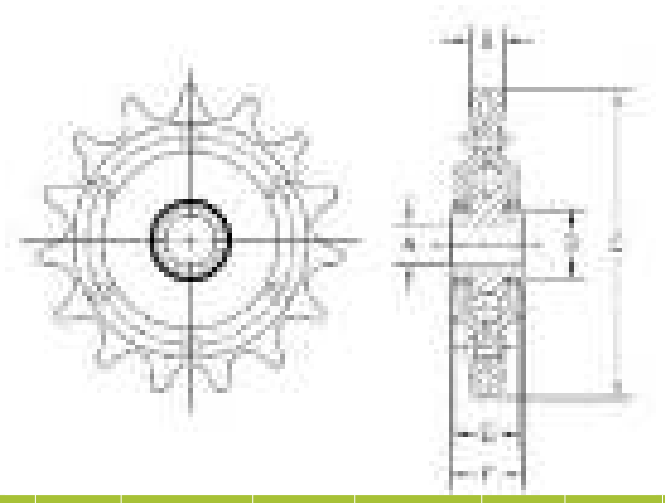
Case hardened teeth prolong chain and idler life. Accurately contoured teeth from heavy gauge steel
Over-size, factory packed lubricant chamber assures maximum life and operating efficiency without troublesome relubrication
Bearing races are hardened to resist wear, outers and inners are accurately formed for smooth running
Aetna's self-contouring, free running, self-wiping seal provides positive contact under all conditions of misalignment
Full ball complement for high durability

Heavy Duty Double Pitch Chain Idlers



PART NO.	UNIT	CHAIN NO	PITCH	ROLLER DIA	TEETH	A	B	C	D	E	WEIGHT (LBS / kg)
AG2427	Inch	2060	1-1/2	15/32	8	.643/.649	7/8	4-7/32	7/16	.927	1.13
	mm		38.1	11.906		16.332/16.484	22.225	107.156	11.112	23.545	.512
AG2427-AM	Inch	2060	1-1/2	15/32	8	.516/.522	2-5/64	4-7/32	7/16	31/32	1.50
	mm		38.1	11.906		13.106/13.258	52.784	107.156	11.112	24.606	.680
AG2427-AF	Inch	2060	1-1/2	15/32	8	.643/.649	2-5/64	4-7/32	7/16	31/32	1.46
	mm		38.1	11.906		16.332/16.484	52.784	107.156	11.112	24.606	.662
AG2427-1AF	Inch	2060	1-1/2	15/32	8	.643/.649	2-5/64	4-7/32	7/16	31/32	1.46
	mm		38.1	11.906		16.332/16.484	52.784	107.156	11.112	24.606	.662
AG2438-1AF	Inch	Special	1-1/4	.460	11	.643/649	2-5/64	4-17/32	9/16	1-1/32	1.50
	mm		31.75	11.684		16.332/16.484	52.784	115.093	14.287	26.193	.680
AG2565-2AF	Inch	555	1.630	21/32	8	.643/.649	2-5/64	4-3/4	7/16	1-3/16	1.69
	mm		41.402	16.668		16.332/16.484	52.784	120.65	11.112	30.162	.776
AG2565-3AF	Inch	555	1.630	21/32	8	.643/.649	2-5/64	4-3/4	7/16	31/32	1.50
	mm		41.402	16.668		16.332/16.484	52.784	120.65	11.112	24.606	.680
AG2566-2AF	Inch	550	1.630	21/32	8	.643/.649	2-5/64	4-3/4	11/16	1-3/16	1.69
	mm		41.402	16.668		16.332/16.484	52.784	120.65	11.112	30.162	.776
AG2566-4AF	Inch	550	1.630	21/32	8	.630/.636	2-5/64	4-3/4	11/16	1-1/32	1.50
	mm		41.402	16.668		16.002/16.154	52.784	120.65	11.112	24.606	.680

Single Pitch Chain Idlers



PART NO.	UNIT	CHAIN NO	PITCH	ROLLER DIA	TEETH	A	B	C	D	E	F	WEIGHT (LBS / kg)
AG2318-S	Inch	40 or 41	1/2	.312 / .306	18	.643 /.649	1	3-1/16	15/64	45/64	.750	.42
	mm			7.924/7.772		16.322/16.484	25.4	77.787	5.953	17.859	19.05	.190
AG2318-A	Inch	40 or 41	1/2	.312, .306	18	.516/.522	1	3-1/16	15/64	45/64	.750	.45
	mm			7.924/7.772		13.106/13.258	25.4	77.787	5.953	17.859	19.05	.204
AG2416	Inch	50	5/8	.400	17	.643/.649	7/8	3-5/8	11/32	51/64	.927	.74
	mm			10.16		16.322/16.484	22.225	92.075	8.731	20.240	23.5458	.335
AG2416-9**	Inch	50	5/8	.400	17	.643/.649	7/8	3-5/8	11/32	51/64	.927	.74
	mm			10.16		16.322/16.484	22.225	92.075	8.731	20.240	23.5458	.335
AG2416-A	Inch	50	5/8	.400	17	.516/.522	7/8	3-5/8	11/32	51/64	.927	.77
	mm			10.16		13.106/13.258	22.225	92.075	8.731	20.240	23.5458	.349
AG2416-A6**	Inch	50	5/8	.400	17	.516/.522	7/8	3-5/8	11/32	51/64	1.125	.77
	mm			10.16		13.106/13.258	22.225	92.075	8.731	20.240	28.575	.349
AG2416-AP	Inch	50	5/8	.400	17	.516/.522	7/8	3-5/8	11/32	51/64	.927	.77
	mm			10.16		13.106/13.258	22.225	92.075	8.731	20.240	23.5458	.349
AG2436*	Inch	50	5/8	.400	17	.643/.649	7/8	3-5/8	11/32	27/32	.927	.98
	mm			10.16		16.322/16.484	22.225	92.075	8.731	21.431	23.5458	.444
AG2436-A*	Inch	50	5/8	.400	17	.516/.522	7/8	3-5/8	11/32	27/32	.927	1.01
	mm			10.16		13.106/13.258	22.225	92.075	8.731	21.431	23.5458	.458
AG2417	Inch	60	3/4	15/32	15	.643/.649	7/8	3-29/32	7/16	53/64	.927	.80
	mm			11.906		16.322/16.484	22.225	99.218	11.112	21.034	23.5458	.362
AG2417-A	Inch	60	3/4	15/32	15	.516/.522	7/8	3-5/8	11/32	53/64	.927	.83
	mm			11.906		13.106/13.258	22.225	92.075	8.731	21.034	23.5458	.376
AG2437*	Inch	60	3/4	15/32	15	.643/.649	7/8	3-5/8	11/32	27/32	.927	1.08
	mm			11.906		16.322/16.484	22.225	92.075	8.731	21.431	23.5458	.489
AG2437-9**	Inch	60	3/4	15/32	15	.643/.649	7/8	3-5/8	11/32	27/32	.927	1.08
	mm			11.906		16.322/16.484	22.225	92.075	8.731	21.431	23.5458	.489
AG2437-A*	Inch	60	3/4	15/32	15	.516/.522	7/8	3-5/8	11/32	27/32	.927	1.11
	mm			11.906		13.106/13.258	22.225	92.075	8.731	21.431	23.5458	.503
AG2437-A9**	Inch	60	3/4	15/32	15	.516/522	7/8	3-5/8	11/32	27/32	.927	1.11
	mm			11.906		13.106/13.258	22.225	92.075	8.731	21.431	23.5458	.503

*Extra Heavy Gauge Steel

**Zinc Plated Yellow Hexavalent Chromium Finish

PITCH	3/8"	1/2"	5/8"	3/4"	1"	1-1/4"	1-1/2"
BS	06B-1	08B-1	10B-1	12B-1	16B-1	20B-1	24B-1
ASA	35-1	40-1	50-1	60-1	80-1	100-1	120-1
PLATE THINKNESS BS	5.2	7	8.7	10.5	16.1	18.6	24.25
PLATE THINKNESS ASA	4.3	7.2	8.7	11.7	14.6	17.6	25
ROLLER DIAMETER BS	6.35	8.51	10.16	12.07	15.88	19.05	25.4
ROLLER DIAMETER ASA	5.08	7.95	10.16	11.91	15.88	19.05	22.23
BS SPROCKETS ON ASA CHAIN	x	√	√	√	x	x	x
ASA SPROCKTS ON BS CHAIN	x	x	√	x	√	√	√
NOTES	BS and ASA not interchangeable at all.	BS sprockets will wrap ASA chain, but ASA sprockets will not wrap BS chain - roller diameters differ.	BS and ASA are identical plate thickness and roller diameters - both interchangeable	BS sprockets will wrap ASA chain (not recommended for frequent forward/ reverse indexing), but ASA sprockets will not wrap BS chain (unless teeth skimmed) - plate thickness differ.	ASA sprockets will wrap BS chain, BS sprockets will not wrap ASA chain (unless teeth have been skimmed.) Take care if using several ASA sprockets on BS chain.	ASA sprockets will wrap BS chain, BS sprockets may need to have teeth skimmed to run on ASA chain - plate thinkness differ.	BS sprockets will wrap ASA chain (not recommended for frequent forward/reverse indexing), but ASA sprockets may need to have teeth skimmed to wrap BS chain - plate thickness differ.

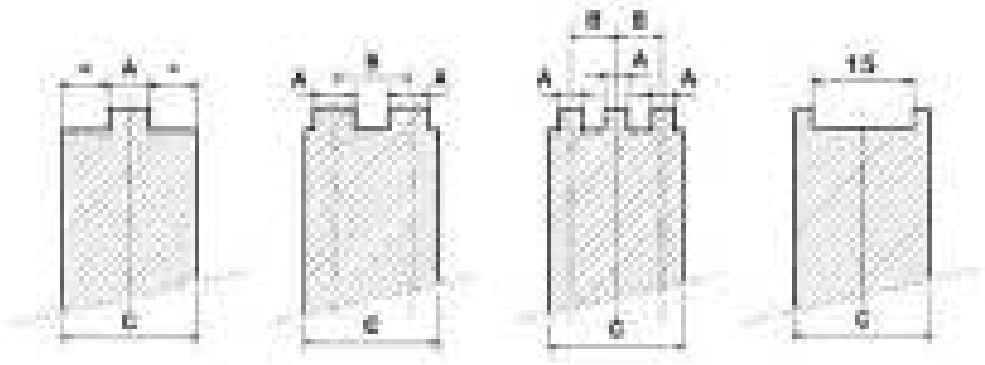
FINERPOWER TRANSMISSIONS

DOM

ROLL-RING®

Tensioners & Tools

TENSIONERS & TOOLS

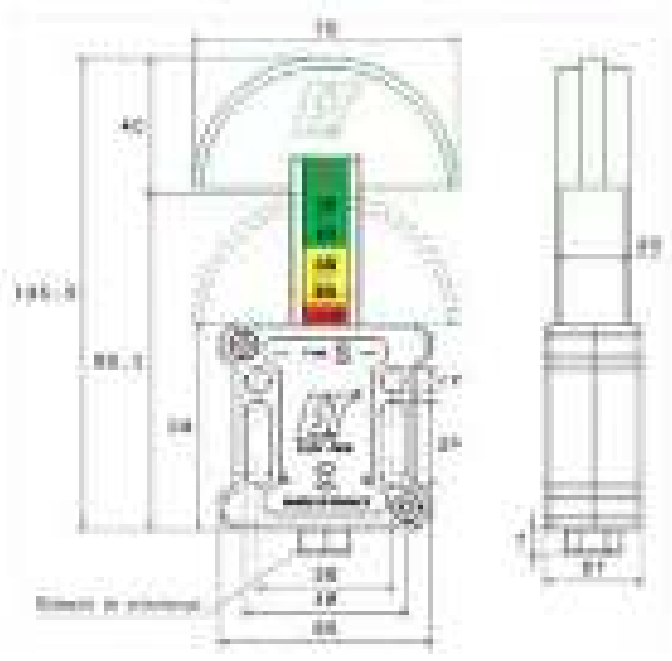


Type B1 Simplex | Type B2 Duplex | Type B3 Triplex | Profile U

CHAIN SIMPLEX				
Part No.	Chain	A	B	C
ET-S06B1H	06 B1	5	-	20
ET-S06B1UH	06 B1	15	-	20
ET-S08B1H	08 B1	7	-	20
ET-S10B1H	10 B1	9	-	20
ET-S12B1H	12 B1	11	-	20
CHAIN DUPLEX				
Part No.	Chain	A	B	C
ET-S06B2H	06 B2	5	10.24	20
ET-S08B2H	08 B2	7	13.92	20
ET-S10B2H	10 B2	9	19.59	25
CHAIN TRIPLEX				
Part No.	Chain	A	B	C
ET-S06B3H	06 B3	5	10.24	30
ET-S08B3H	08 B3	7	13.92	35

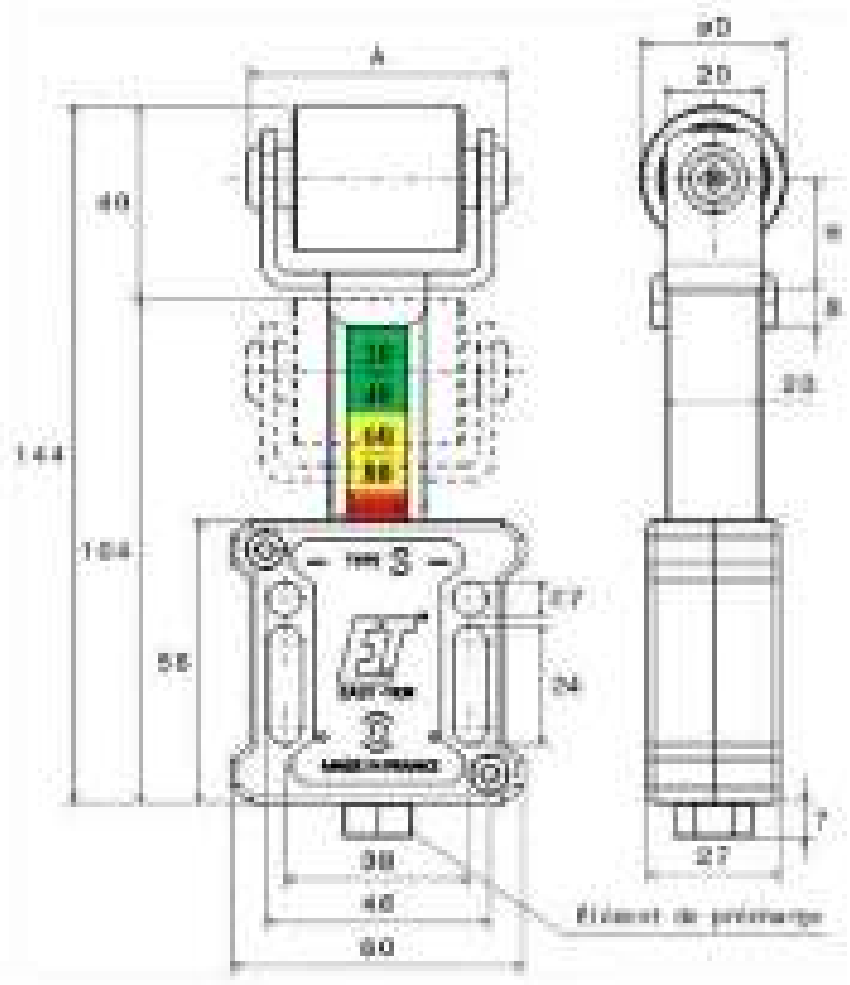
All dimension above are in mm.

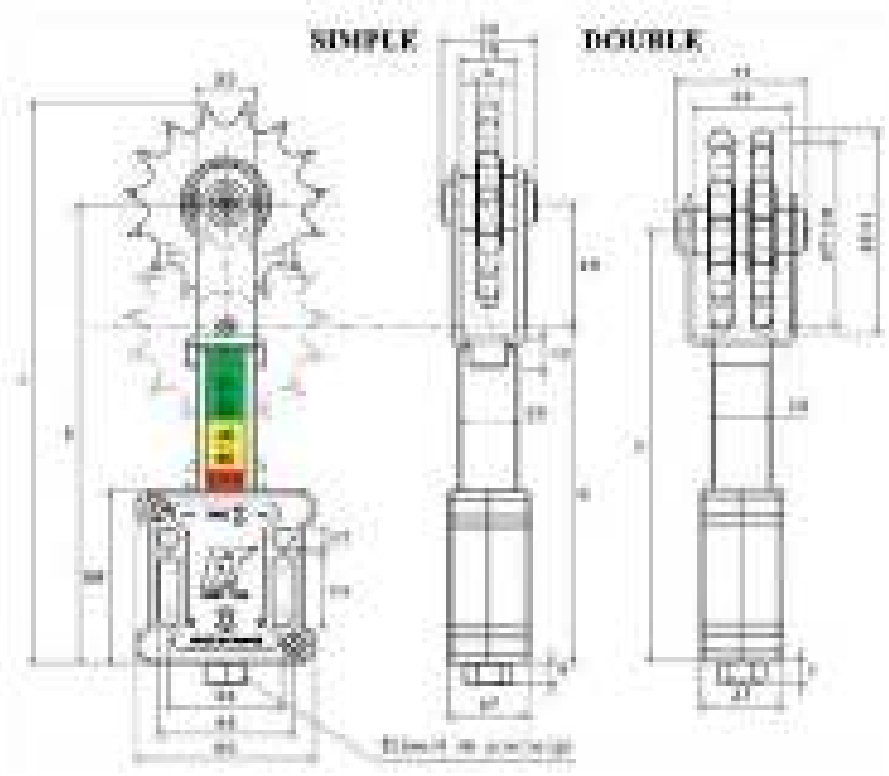
By default the tensioners are heavy tension type - light tension box is available (ET-SNUL)



Part No.	MAX SPEED T/min	A	B	C	OD	H
ETRE-2H	8000	54	35	45	30	22.5
ETRE-3/4H	8000	70	45	58	40	27.5

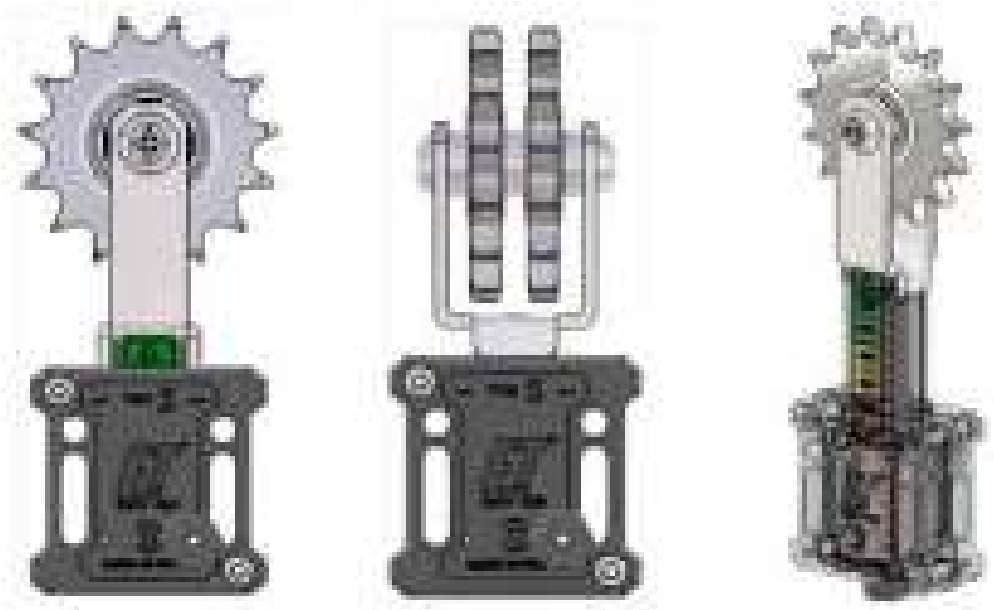
By default the tensioners are heavy tension type - light tension box is available (ET-SNUL)



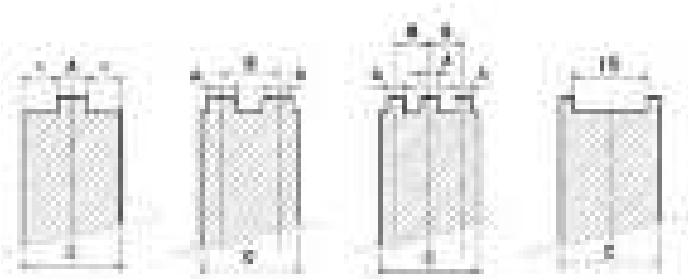


Part No.	Z	Chain		S	OD	PCD	F	E	H
		mm	BS						
ETRX-06B1H	15	9.525	06B1	5.3	49.3	45.81	160	135	95
ETRX-06B2H	15	9.525	06B2	5.3	49.3	45.81	168	143.5	103.5
ETRX-08B1H	15	12.7	08B1	7.2	65.5	61.09	186	153.5	113.5
ETRX-08B2H	15	12.7	08B2	7.2	65.5	61.09	176	143.5	103.5
ETRX-10B1H	15	15.8	10B1	9.1	83	76.36	195	153.5	113.5

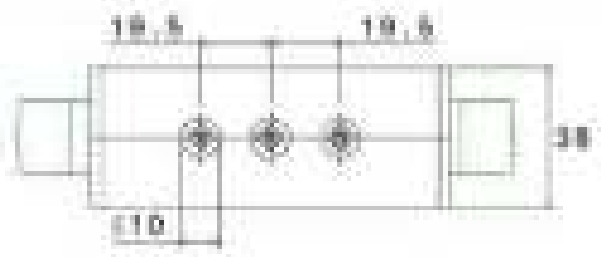
By default the tensioners are heavy tension type - light tension box is available (ET-SNUL)

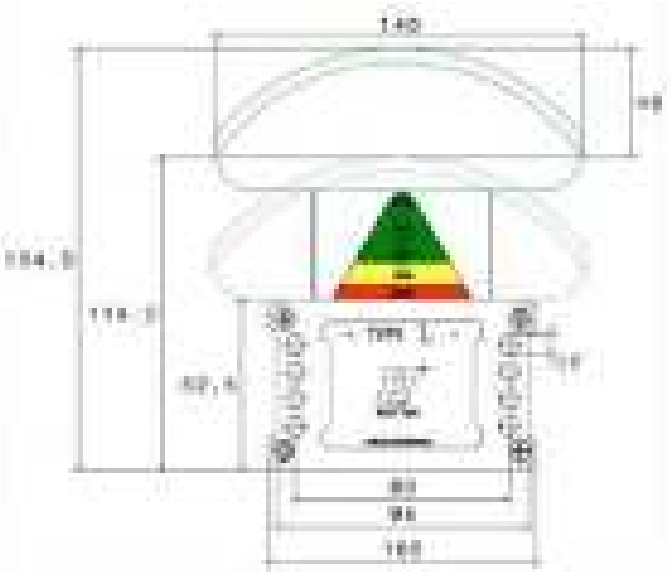


ARC PROFILE



Type B1 Type B2 Type B3 Profile U



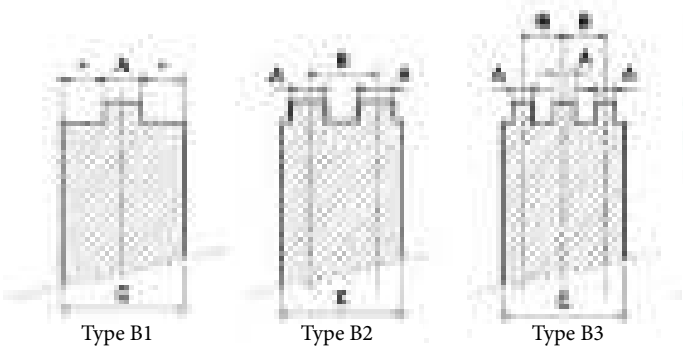


CHAIN SIMPLEX				
Part No.	Chain	A	B	C
ETL-AR06B1H	06 B1	5	-	30
ETL-AR08B1H	08 B1	7	-	30
ETL-AR10B1H	10 B1	9	-	30
ETL-AR12B1H	12 B1	11	-	30
ETL-AR16B1H	16 B1	16	-	30
ETL-AR20B1H	20 B1	18	-	30
CHAIN DUPLEX				
Part No.	Chain	A	B	C
ETL-AR06B2H	06 B2	5	10.24	30
ETL-AR08B2H	08 B2	7	13.92	30
ETL-AR10B2H	10 B2	9	16.59	30
ETL-AR12B2H	12 B2	11	19.46	35
ETL-AR16B2H	16 B2	16	31.88	50
CHAIN TRIPLEX				
Part No.	Chain	A	B	C
ETL-AR06B3H	06 B3	5	10.24	30
ETL-AR08B3H	08 B3	7	13.92	35

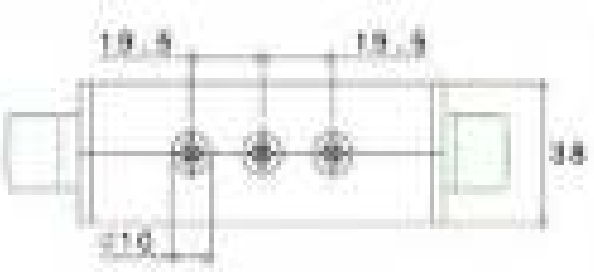
All dimension above are in mm.

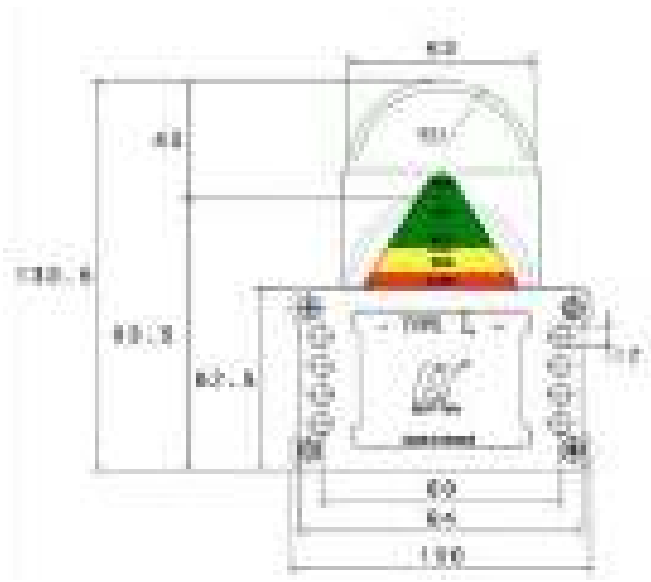
By default the tensioners are heavy tension type - light tension box is available (ET-SNUL)

SEMI-CIRCULAR PROFILE



Type B1 Type B2 Type B3

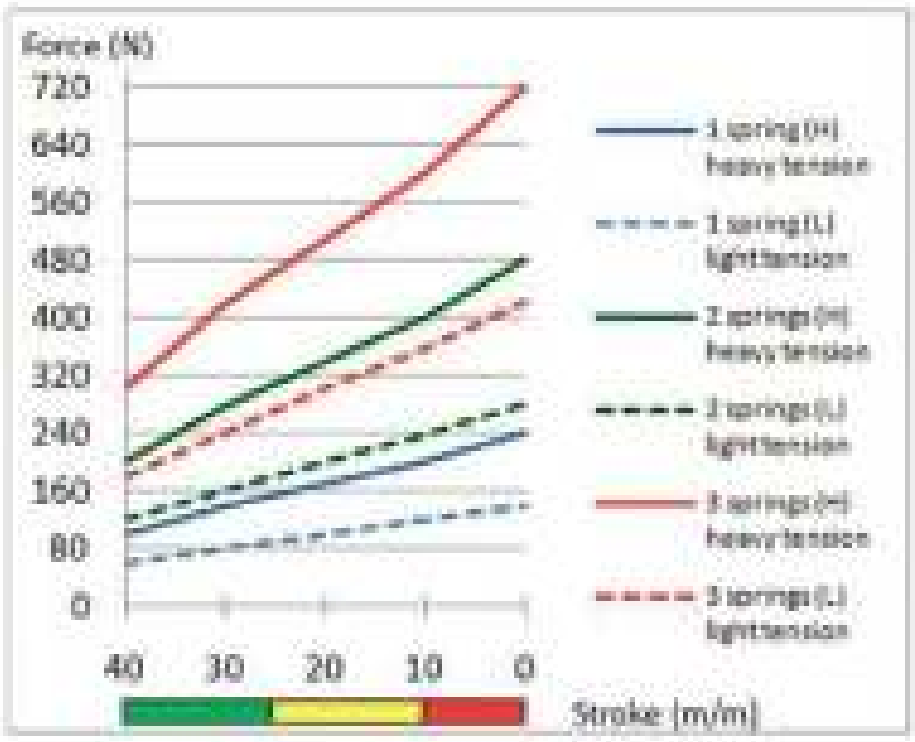




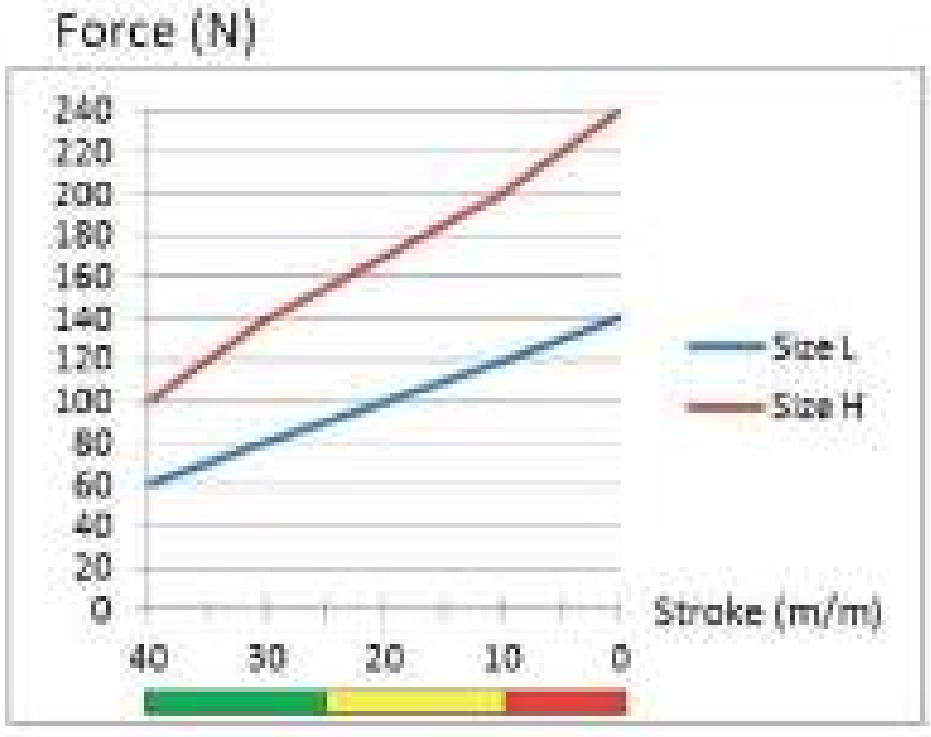
CHAIN SIMPLEX				
Part No.	Chain	A	B	C
ETL-SC06B1H	06 B1	5	-	30
ETL-SC08B1H	08 B1	7	-	30
ETL-SC10B1H	10 B1	9	-	30
ETL-SC12B1H	12 B1	11	-	30
ETL-SC16B1H	16 B1	16	-	30
ETL-SC20B1H	20 B1	18	-	30
CHAIN DUPLEX				
Part No.	Chain	A	B	C
ETL-SC06B2H	06 B2	5	10.24	30
ETL-SC08B2H	08 B2	7	13.92	30
ETL-SC10B2H	10 B2	9	16.59	30
ETL-SC12B2H	12 B2	11	19.46	35
CHAIN TRIPLEX				
Part No.	Chain	A	B	C
ETL-SC06B3H	06 B3	5	10.24	30
ETL-SC08B3H	08 B3	7	13.92	35

By default the tensioners are heavy tension type - light tension box is available (ET-SNUL)

EASY-TEN SERIES L



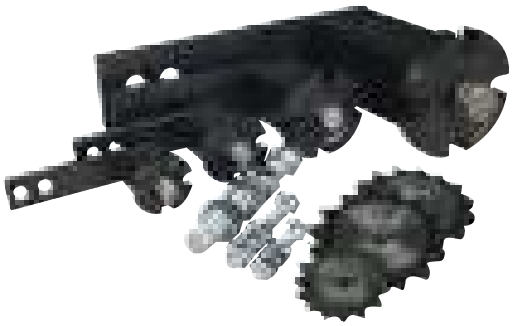
EASY-TEN SERIES S



Series S		
Chain Simplex		
Part No.	Pitch	Equivalent (Spann Box)
ET-S06B1H	06 B1	S 0 Profile P1
ET-S08B1H	08 B1	S 0 Profile P1
ET-S10B1H	10 B1	S 0 Profile P1
ET-S12B1H	12 B1	S 0 Profile P1
Chain Duplex		
Part No.	Pitch	Equivalent (Spann Box)
ET-S06B2H	06 B2	S 0 Profile P1
ET-S08B2H	08 B2	S 0 Profile P1
ET-S10B2H	10 B2	S 0 Profile P1
Chain Triplex		
Part No.	Pitch	Equivalent (Spann Box)
ET-S06B3H	06 B3	S 0 Profile P1
ET-S08B3H	06 B3	S 0 Profile P1

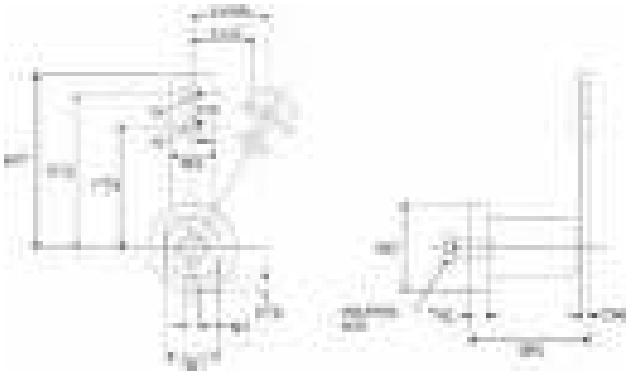
Series L		
Chain Simplex		
Part No.	Pitch	Equivalent (Spann Box)
ETL-AR06B1H	06 B1	S 30 Profile AA
ETL-AR08B1H	08 B1	S 30 Profile AA
ETL-AR10B1H	10 B1	S 30 Profile AA
ETL-AR12B1H	12 B1	S 30 Profile AA
ETL-AR16B1H	16 B1	S 30 Profile AA
ETL-AR20B1H	20 B1	S 30 Profile AA
Chain Duplex		
Part No.	Pitch	Equivalent (Spann Box)
ETL-AR06B2H	06 B2	S 30 Profile AA
ETL-AR08B2H	08 B2	S 30 Profile AA
ETL-AR10B2H	10 B2	S 30 Profile AA
ETL-AR12B2H	12 B2	S 30 Profile AA
ETL-AR16B2H	16 B2	S 30 Profile AA
Chain Triplex		
Part No.	Pitch	Equivalent (Spann Box)
ETL-AR06B3H	06 B3	S 30 Profile AA
ETL-AR08B3H	08 B3	S 30 Profile AA

The Elastomeric Tensioners employ a time proven design, to ensure that both chain and belt drives run under a consistent and uniform tension negating chain and belt stretch.



The Elastomeric Tensioner's benefits include:

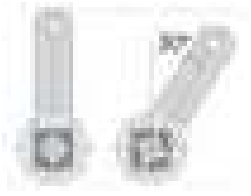
- A one nut mounting system, which allows for 360° rotation.
- Can be pre-tensioned by up to 30°, this means that as the chain or belt stretches, the tensioner automatically takes up the slack as the elastomeric elements automatically adjust the drives tension.
- Chain and Belt life is increased by as much as 30%.
- Elastomeric parts absorb vibrations and shock loading.
- Maintenance Free – no metal on metal parts, lubrication free.
- Impervious to dust and dirt, temperature -40°C to +80°C
- Two holes are provided on the arm, allowing two different levels of force to be generated: "normal" and "hard". The "hard" setting deploys approximately 25% more force.



Type	OD	OAL	TH1	HT2	HT3	W3	HT1	W1	W2	TH2	HT4	H	Mounting Bolt	F in n/M 0 - 30°	Weight (kg)
SE11	35	50	5	80	60	20	90	20	7	7	6	8	M6	0-90	0.25
SE15	50	60	5	100	80	30	110	22	8	8	8	10	M8	0-140	0.45
SE18	60	75	6	100	80	40	115	35	9	10	11	10	M10	0-320	0.75
SE27	80	110	8	135	105	50	155	45	10	15	13	12	M12	0-820	1.8
SE38	105	140	10	180	140	65	200	62	13	16	15	20	M16	0-1500	3.7
SE45	115	200	12	225	190	70	260	78	17	18	20	20	M20	0-2500	6.5

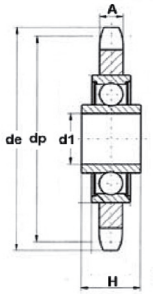
Type	Angle of Pretension (Force reqiured in psi)						Mounting Bolt Torque
	10°		20°		30°		
	Normal	Hard	Normal	Hard	Normal	Hard	
SE11	3.4	4.5	9.0	11.9	18.0	23.9	89
SE15	5.6	7.0	14.6	18.2	30.4	37.8	221
SE18	16.9	20.9	40.5	50.6	78.7	98.2	434
SE27	33.8	43.8	85.4	111.1	179.8	233.8	761
SE38	65.3	81.4	164.1	205.0	337.2	421.5	1,859
SE45	112.5	140.5	292.5	365.6	584.5	730.7	3,629

Tensioner Selection		
Chain	Belt	Tensioner
25-1	A	SE11
35-1-2-3	A, B	SE15
35-1-2-3	B, C	SE18
40-1-2-3		
40-3	D, E	SE27
50-1-2-3		
60-1-2-3		
80-1-2-3	-	SE38
80-3	-	SE45
100-1-2-3		
120-1-2-3		
140-1-2		
160-1-2		
180-1-2		
200-1-2		



The optimum angle of pretension is 20° the maximum angle is 30°. At 20° the tensioner has maximum capability to absorb vibrations and shock loads, and still have enough arc motion to automatically take up belt or chain stretch.

Idler Sprockets in conjunction with Tensioners provide an efficient solution to maintaining smooth running drives, inhibiting the effects of chain stretch and ensuring chains don't jump their drives. These prefabricated Idler Sprockets employ a standard precision roller bearing. Available in a range of sizes with pins to suit, this range of Idler Sprockets are designed for use in conjunction with the SE Series Tensioners.

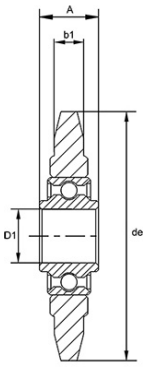


SE Series

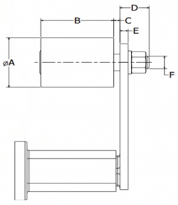
Part No	Pitch	Teeth	de	dp	A	D1	Bolt	H
SE15/SE18-06B-15	3/8"	15	49.5	45.8	5.3	10	10X55	9
SE15/SE18-08B-15	1/2"	15	65.9	61.1	7.2	10	10X55	9
SE27-10B-15	5/8"	15	83.2	76.4	9.1	12	12X80	10
SE27-12B-15	3/4"	15	99.8	91.6	11.1	12	12X80	11.1
SE38-10B-15	5/8"	15	83.2	76.4	9.1	20	20X100	14
SE38-12B-15	3/4"	15	99.8	91.6	11.1	20	20X100	14
SE38-16B-13	1"	13	117.7	106.1	16.2	20	20X100	16
SE45-20B-13	1-1/4"	13	147.5	132.7	18.5	20	20X130	18

BB Series

Part No	Pitch	Teeth	de	A	D1
40BB18-5/8	1/2"	18	79.756	12.3698	5/8"
50BB17-1/2	5/8"	17	94.488	17.4625	1/2"
50BB17-5/8	5/8	17	94.473	17.4625	5/8"
60BB15-1/2	3/4"	15	101.041	17.4625	1/2"
60BB15-5/8	3/4	15	101.092	17.4625	5/8"
80BB12-3/4	1	12	110.033	20.6375	3/4"



Belt Roller (to suit tensioner arm)

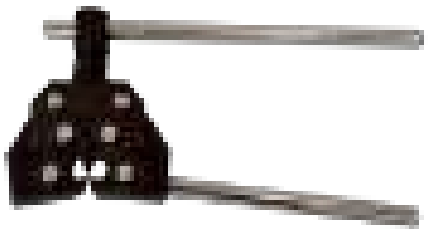


Part No	Max Speed	Max Belt Width	A	B	C	D	E	F	Weight
	RPM	mm							KG
SE11-BT30X35	8000	30	30	35	2	14	5	M8	0.08
SE15/18-BT40X45	8000	40	40	45	6	16	7	M10	0.17
SE27-BT60X60	6000	55	60	60	8	17	8	M12	0.4
SE38-BT80X90	5000	85	80	90	8	25	10	M20	1.15
SE45-BT80X135	4500	130	90	135	10	27	12	M20	1.75

Dimensions are in mm.

Finer Chain Breakers offer an easy and convenient way of breaking riveted roller chain links.
Suitable for both British Standard and ASA chain.

Finer No.1 Chain Breaker (25-60 Chain Breaker)	Finer No.2 Chain Breaker (60-100 Chain Breaker)
Suitable for ¼" – ¾" chain	Suitable for ¾" – 1 ¼" chain



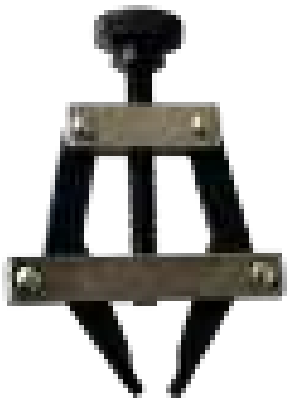
To use chain puller

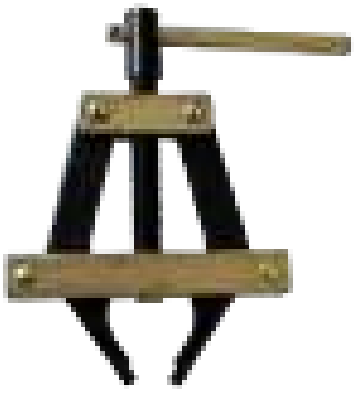
1) Hook the two jaws into each end of the chain;

2) Turn the screw until the two ends almost meet;

3) Insert the connecting link and fasten.

Finer No.1 Chain puller (25-60 Chain puller)	Finer No.2 Chain puller (60-100 Chain puller)

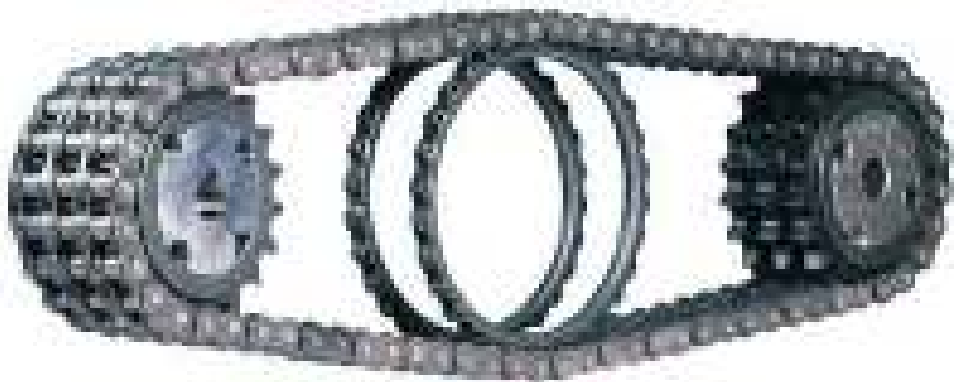




Tip: To avoid unnecessary bending of link plates, press pins out evenly. Pop the rivet of the first pin and then the second, when both pins have been "cracked", proceed with fully pushing the pins out.

Finer Power Transmissions stocks a range of Roll-Ring Chain Tensioners to suit both BS and ANSI Chains. ROLL-RING Chain Tensioners can be applied in a wide variety of fields of mechanical engineering and are very easy to install.

ROLL-RING Chain Tensioners do not require any time for maintenance or adjustment; they are automatic, always exactly diametrical and self-lubricating in chain operation.



ROLL-RING®

Product Range General Mechanical Engineering

according to ANSI 29.1 / ISO BS 228.

Article No 1	Description	ISO Chain-No.	ANSI ChainNo.	Chain Dimension p x b1 (Inches)	Teeth ROLL-RING	Max. Static Expansive Force (N) **	Maximum Chain Speed (m/s)	Ambient Temperature (C)	App. Kg
105 03 001	05 B 30	ISO 05	-	8mm x 1/8"	30	2.9	5.0	-20 till +70	0.002
106 030 01	06 B 30	ISO 06	-	3/8 x 7/32"	30	15.2	5.2	-20 till +70	0.006
106 036 01	06 B 36	ISO 06	-	3/8 x 7/32"	36	28.5	5.2	-20 till +70	0.017
108 026 01	08B/40 26	ISO 08	40	1/2 x 5/16"	26	13.4	7.5	-20 till +70	0.012
108 030 01	08B/40 30	ISO 08	40	1/2 x 5/16"	30	14.2	8.6	-20 till +70	0.0015
108 034 01	08B/40 34	ISO 08	40	1/2 x 5/16"	34	22.0	8.8	-20 till +70	0.024
110 026 01	10B/50 26	ISO 10	50	5/8 x 3/8"	26	28.2	4.2	-20 till +70	0.025
110 030 01	10B/50 30	ISO 10	50	5/8 x 3/8"	30	23.0	8.8	-20 till +70	0.030
110 034 01	10B/50 34	ISO 10	50	5/8 x 3/8"	34	45.1	8.8	-20 till +70	0.055
112 026 01	12B/60 26	ISO 12	60	3/4 x 7/16"	26	39.2	5.4	-20 till +70	0.045
112 030 01	12B/60 30	ISO 12	60	3/4 x 7/16"	30	32.2	6.2	-20 till +70	0.052
112 034 01	12B/60 34	ISO 12	60	3/4 x 7/16"	34	70.5	6.4	-20 till +70	0.096
116 026 01	16B/80 26	ISO 16	80	1" x 17mm	26	95.7	5.7	-20 till +70	0.115
116 030 01	16B/80 30	ISO 16	80	1" x 17mm	30	108.5	6.2	-20 till +70	0.178
120 030 01	20B/100 30	ISO 20	100	1-1/4 x 3/4"	30	80.5	7.0	-20 till +70	0.233
806 030 01	06 C 30	-	35	3/8 x 3/16"	30	1.28 (Lbs)	1024 (ft/min)	-4 till +158 (F)	0.011 (lbs)
816 030 01	16 A 30	-	80	1 x 5/8"	30	23.15 (Lbs)	1122 (ft/min)	-4 till +158 (F)	0.348 (lbs)

** on 20°C and maximum tensioning deformation; without dynamic tensioning force proportional to the chain speed

This information is based on our current knowledge & experiences. The user is not released from own trials and experiences due to possible application-specific requirements. Changes concerning technical development are reserved.

Easy Installation

ROLL-RING SELECTION

Information on Chain Drive
(If known)

Chain Type _____ (BS/ANSI-No)
No. of Links X =

Chain is - New [ ] pre-stressed [ ] Run-In [ ]

Driving Sprocket

z1 = _____ z2 = _____ RPM: _____

Special environmental influence:

UV-Radiation; Chemicals; Temperatures;
Other Conditions

HOW TO SELECT:

Please complete below drawing, provide details and we will help make selection.

NB. Accurate selection could take up to 24hrs