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FINERPOWER TRANSMISSIONS

Book 1

Roller Chain & Sprockets

Roller Chain & Sprockets

Finer Power Transmissions

FINERPOWER TRANSMISSIONS

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FINERPOWER TRANSMISSIONS

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

1

* 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

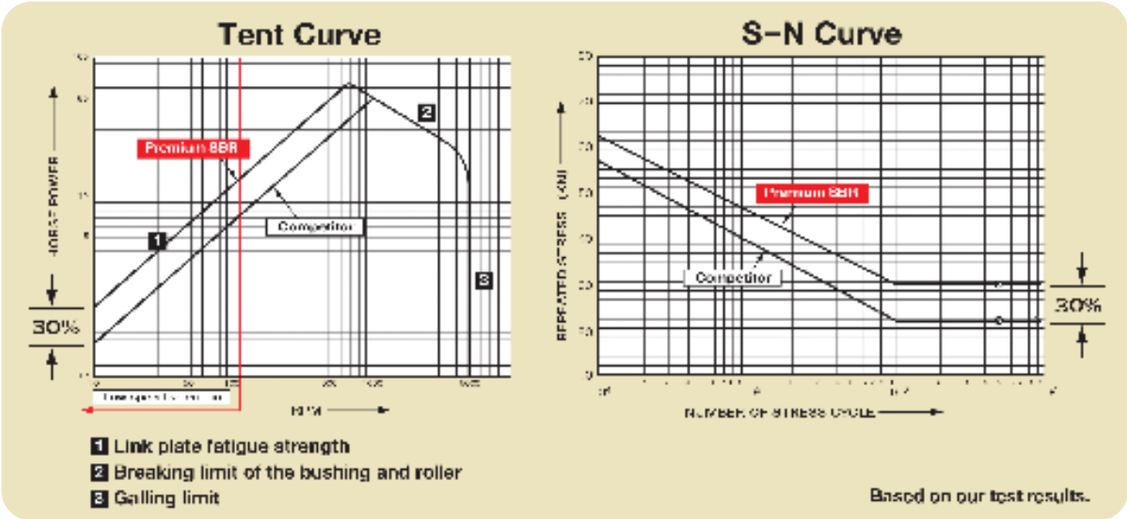
BS Standard
Maximum Allowable Loads

Chain No.	Competitor (kN)	Premium SBR (kN)
SY16B	12.6	16.4
SY20B	19.6	25.5
SY24B	27.5	35.7
SY28B	34.0	44.5
SY32B	39.2	51.0

Note
Sizes of Premium SBR Chain 16B ~ 32B Single Strand
40 ~ 240 Single Strand

ANSI Standard
Maximum Allowable Loads

Chain No.	Competitor (kN)	Premium SBR (kN)
SY 60	14.7	19.1
SY100	22.6	29.4
SY120	30.4	39.5
SY140	40.2	52.0
SY160	53.0	69.0
SY180	60.8	79.0
SY200	71.6	93.0
SY240	96.0	125.0



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Up to 2-3 times longer wear life over coated bushings

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[illegible] performance

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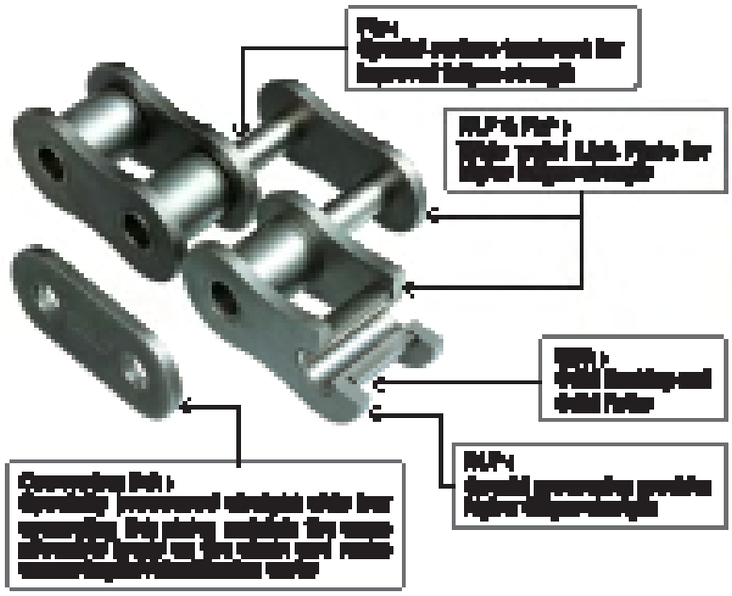


RUN BETTER WITH SY SPECIFY YOUR REQUIREMENTS

HOW TO ORDER

Chain number, type:riveted or cottered, length and quantity are the necessary information for us to fill in your order. At the very least, the chain pitch, roller diameter and roller link inside width should be given if the chain number is unknown.

STANDARD PACKING

SY roller chains are packed for convenient handling and storing. Each 10feet length is packed in a carton. 50feet length and more are wound on reel.

specifically as possible when ordering a cut length of chain.

NOMENCLATURE

SY120-2(R) 2L A-2

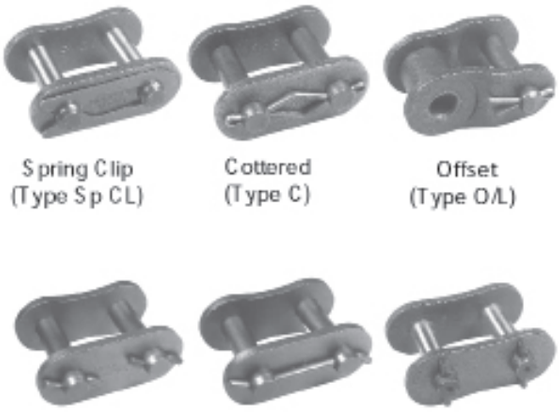
- Type of att.
- Space of att. (L=Pitch)
- Type of pin link.
- strand
- SY chain No

Plain chain consists of "SY chain No" and "Type of pin link". Attachment chain has one space between "Type of pin link" and "Space of attachment".

CHAIN PARTS

Roller Link (Type R/L) | Pin Link Riveted (Type R) | Pin Link Cottered (Type C)

CHAIN CONNECTION PARTS



Spring Clip (Type Sp CL) | Cottered (Type C) | Offset (Type O/L)

"S" Pin (Type S) | Through"S" Pin (Type TS) | Roll Pin

CHAIN CONSTRUCTION

RIVETED

Riveted chain is assembled by staking the pin heads on both sides of the chain

COTTERED

Cottered chain is assembled by staking the pin heads on one side of the chain and drilling a hole in the other end to accommodate a cotter pin. This type of chain is easily assembled and disassembled in the field.

SINGLE AND MULTIPLE

On multiple-strand types, all center plates are slip fitted(clearance-fitted) unless otherwise specified.

Roller chain with connecting link (C/L)

Ordinarily even number of pitches includes a C/L on one end.

Roller chain with offset link (O/L)

When an odd number of pitches is required,a C/L and an O/L are usually used.

Roller chain with connecting links (C/L's)on both ends.

For odd pitches(not endless),2C/L's are incorporated on request.

Roller chain endless

Usually chains are furnished unendless. If an endless chain assembly is required, specify whether it is to be riveted endless or cotter-connected.

Selection Of Roller Chain

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 needs through there may be other factors.

ATMOSPHERIC CONSIDERATION

The input power ratings appearing on the pages of 80 to 84, 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_0:kW]
e) RPM and diameter of high speed shaft[n_1:rpm]
f) RPM and diameter of low speed shaft[n_2: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 kW_1 multiply kW_0 by corrected factor f1 applied according to condition of use

$kW_1 = kW_0 \cdot f_1$
$= kW_0 \cdot f_1 \cdot f_2$

To obtain chain and high-speed sprocket teeth N1 use roller chain quick selection chart and power rating chart according to RPM of high speed shaft and corrected power kW_1

N1

Determine low speed sprocket teeth N2 from speed ratio R

$R = n_1/n_2$
$N_2 = R \cdot N_1$

See if each sprocket shaft diameter and mounting space satisfy specifications of machi-

*Check

Make special sprocket

Obtain corrected power kW_1 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 due to unavoidable circumstances.

IN CASE OF LOW SPEED

S=Less than 50m/min.
Divided into two cases dep-ending 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:
$T \times f_1 \times f_3 \leq$ Max. allowable chain load.
2) For low speed drive with frequent stops and starts.
$T \times f_1 \times f_3 \times f_4 \leq$ Ave. ultimate strength.

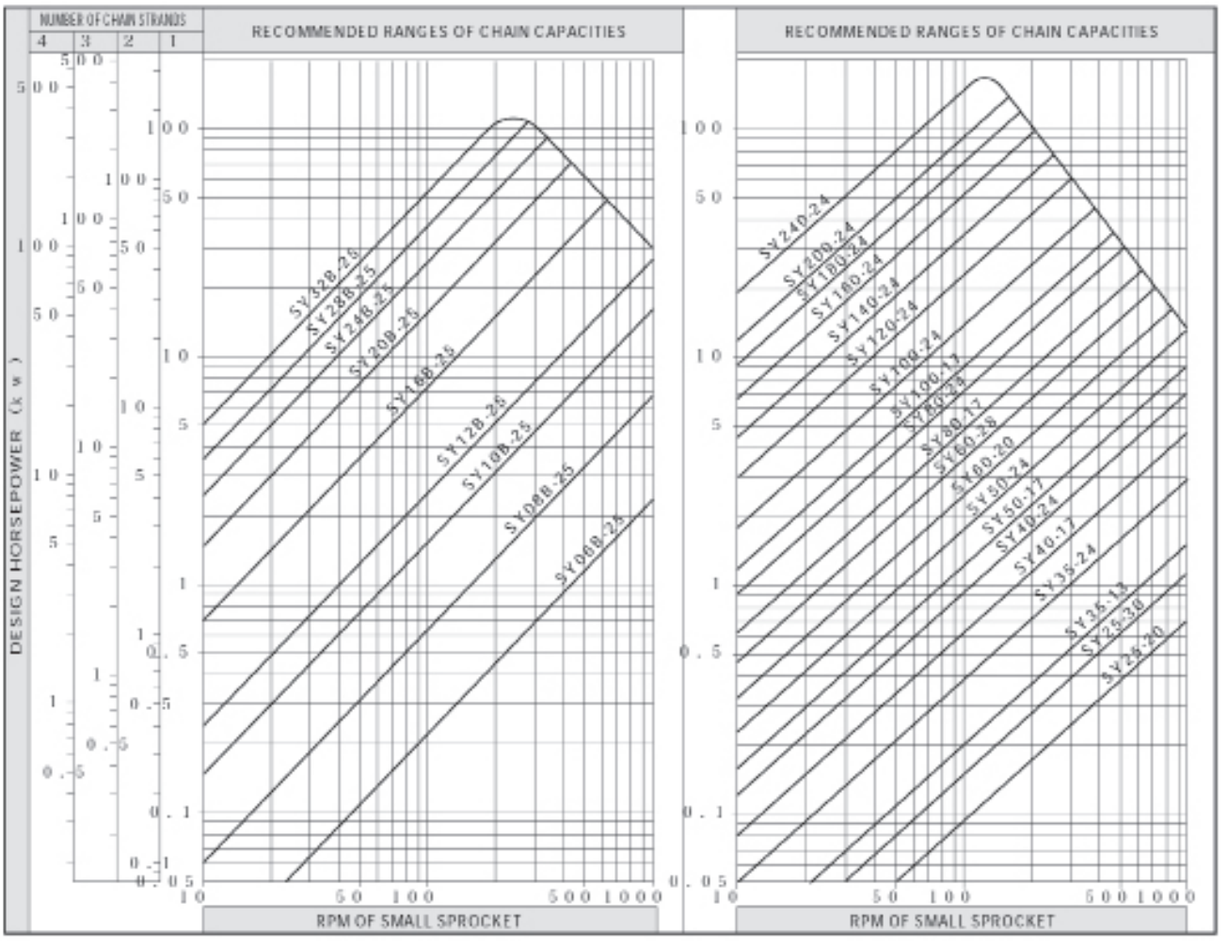
Select the chain by substituting the values of chain speed and max working load into formulas (1)&(2), after chain selected tentatively in the general way.

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

$= N_1 \cdot P \cdot n_1/1000$
T [kN]=Max. working load.
=60

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	7.5



CONCISE SELECTION DATA

SY Chain No.	SY Standard(ANSI)		Each Series				
	Max. Allowable Load	Ave. Ultimate Strength	Ave.Ultimate Strength(kN)				
			E	U	H	HE	HU
35	2.48	10.8					
40	4.17	19.1					
50	7.22	31.9					
60	10.7	43.1	47.1		54.9	53.9	
80	19.1	78.5	79.4	84.3	60.2	93.2	98.1
100	29.4	118	119	127	137	142	145
120	39.5	167	174	186	186	191	196
140	52.3	216	227	245	241	252	255
160	69.0	275	294	314	306	319	324
180	79.0	353		412	373		
200	93.0	451		490	520		
240	129.0	677		726	726		

f1: SERVICE FACTOR

Driven Load Condition	Interval Combustion Engine		Motor or Turbine
	Hydraulic Drive	Mechanical Drive	
Uniform Smooth	1.1	1.3	1.0
Moderate Shock	1.5	1.7	1.4
Heavy Shock	1.9	2.1	1.8

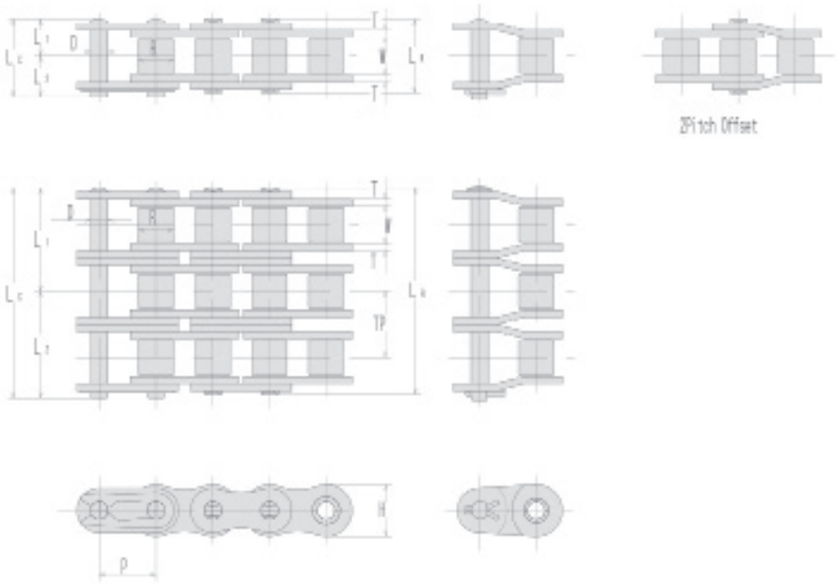
f3: SPEED COEFFICIENT

Chain Speed	f3
15m/min.	1.0
15－30	1.2
30－50	1.4

f4: SAFETY FACTOR

Chain Speed	f4
25m/min.	7≦
25－50	8≦

ANSI Roller Chain



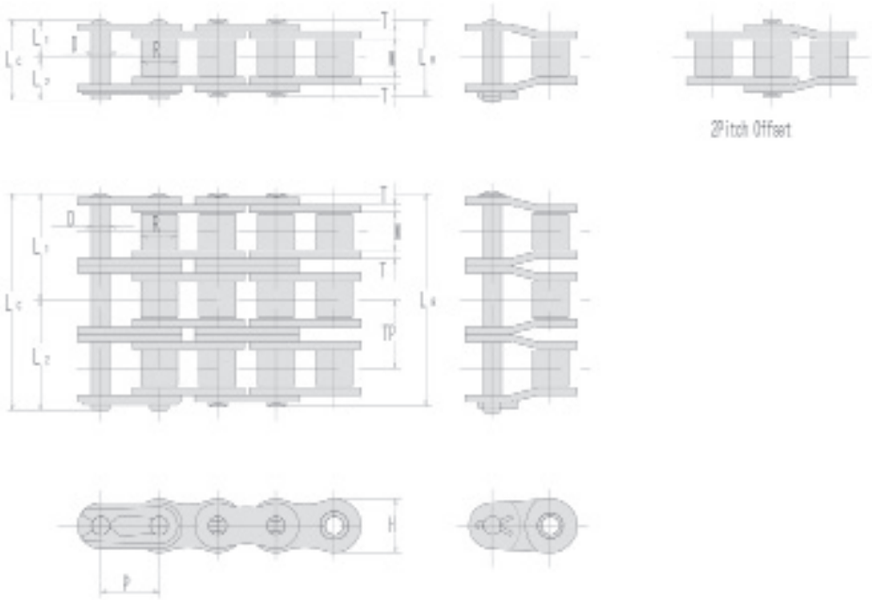
25 & 35 (Bushed Chain)

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	-	-	-	-	-	-	-	-	-	-
3 5	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
3 5 -2					22.1	23.00	11.1	11.9			10.1	21.60	3.67	0.63
3 5 -3					32.2	33.10	16.1	17.0				32.40	5.40	0.92
3 5 -4					42.3	43.2	21.2	22.0				43.2	7.13	1.22
3 5 -5					52.4	53.2	26.2	27.0				54.00	8.42	1.56
3 5 -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
4 0*	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
4 0 -2					30.8	32.2	15.4	16.8			14.4	38.2	6.17	1.22
4 0 -3					45.0	46.6	22.5	24.1				57.3	9.08	1.85
4 0 -4					60.0	60.8	30.0	30.8				76.4	12.0	2.46
4 0 -5					74.6	75.6	37.3	38.3				95.5	14.2	3.14
4 0 -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

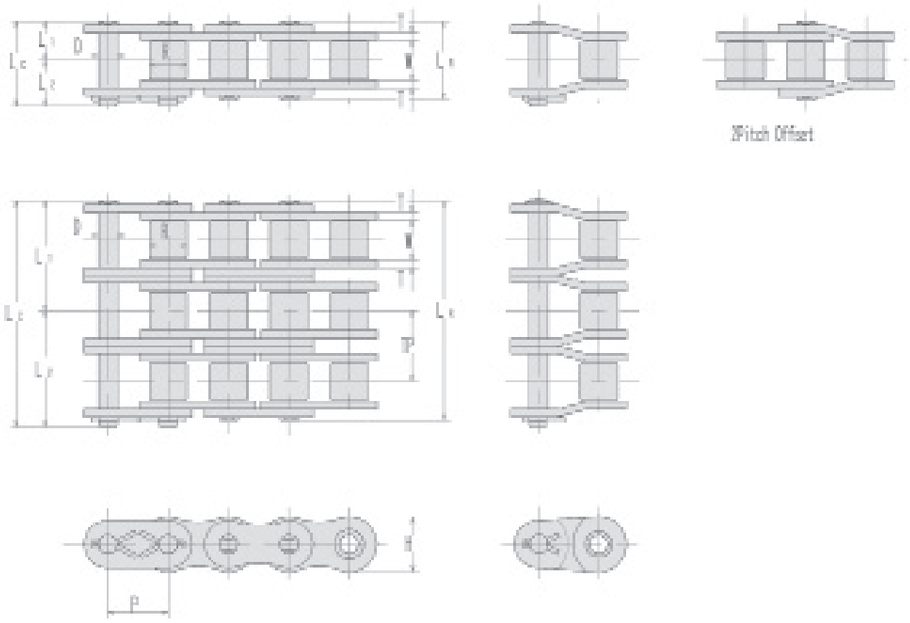
SY Chain No. (ANSI)	Dimensions - mm											Average Ultimate Strength	Maximum Allowable Load	"Average Chain Weight "
	Pitch	Bushing		Pin					Plate		"Trans. Pitch"			
		Width	Dia.	Dia	Length				Height	Thick.				
	P	W	R	D	LR	LC	L1	L2	H	T	TP	Kn	kN	kg/m
50*	15.875	9.53	10.16	5.08	20.4	22.0	10.2	11.8	14.6	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



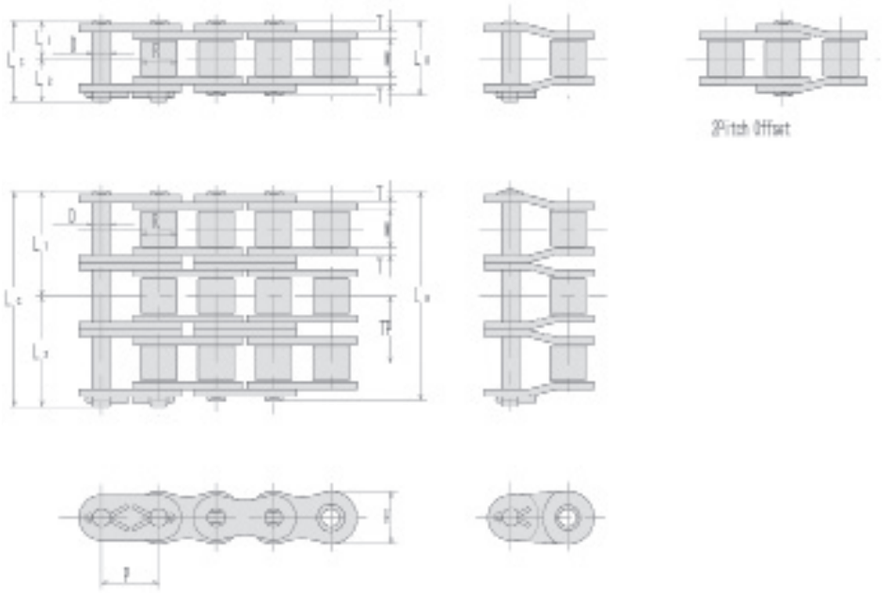
80

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

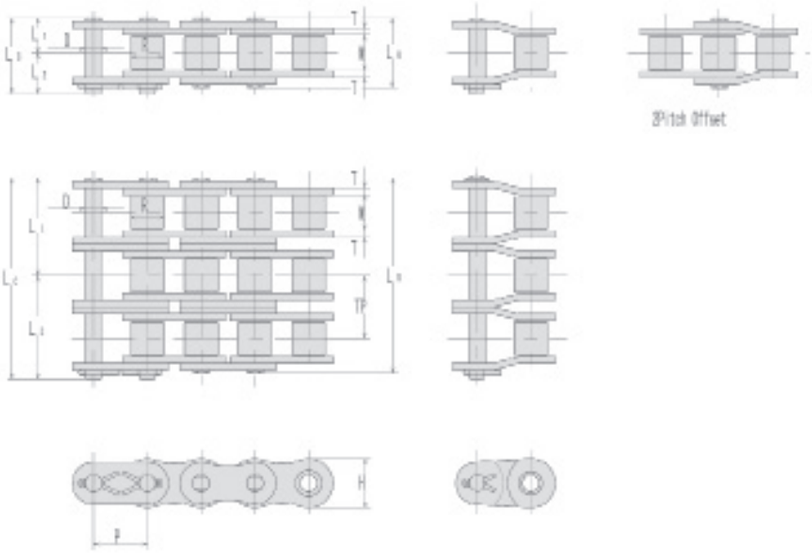


120

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
1 2 0	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
1 2 0 -2					94.9	98.8	47.5	51.3			45.4	334	51.7	11.49
1 2 0 -3					140.3	144.2	70.2	74				501	76	17.2
1 2 0 -4					186.1	190	93.1	96.9				668	100	22.92
1 2 0 -5					231.5	235.4	115.8	119.6				835	119	28.65
1 2 0 -6					276.9	280.8	138.5	142.3				1002	140	34.36
1 2 0 -8					367.5	371.7	183.8	187.9				1336	188	45.81
1 2 0 -1 0					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
1 4 0	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
1 4 0 -2					102.9	107.2	51.5	55.7			48.9	432	68.3	14.63
1 4 0 -3					151.7	156.3	75.9	80.4				648	101	21.91
1 4 0 -4					201.2	205.5	100.6	104.9				864	133	29.17
1 4 0 -5					250.1	254.4	125.1	129.3				1080	157	36.45
1 4 0 -6					299	303.3	149.5	153.8				1296	185	43.72
1 4 0 -8					396.5	401.1	198.3	202.8				1728	249	58.28
1 4 0 -1 0					494.3	498.9	247.2	251.7				2160	302	72.82

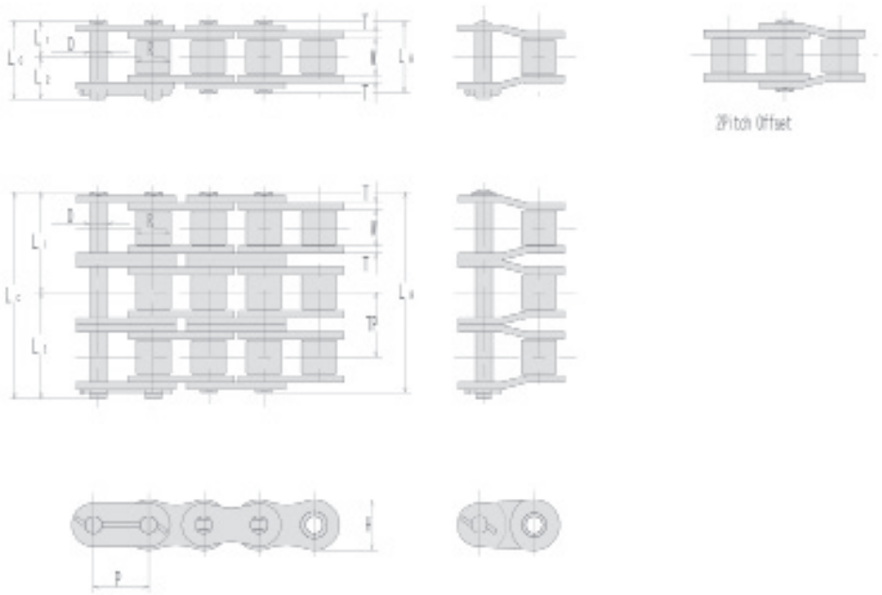


160

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

Aqua Series Chain

Feature

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

Results of corrosion resistant tests

Salt spray test

CHAINS	Hour for Rust developed(hours)
Special surface treated	1000 No rust
Glossy chromating	72~96
Colored chromating	120~240
Molten zinc plating	120~240

Salt spray test

CHAINS	Hour for Rust developed(hours)
Nickel plated	48
Special surface treated	600~840
Made of SUS304 stainless steel	above 840 No rust

Applications

Outdoor service
Sea water applications
Stacking crane, Car parking

Applicable Chains

#40~#240
Attachment chain is available.

Purpose of Special surface treatment

Linkplate : for anticorrosion
Other parts : for anticorrosion and to reduce friction

Caution

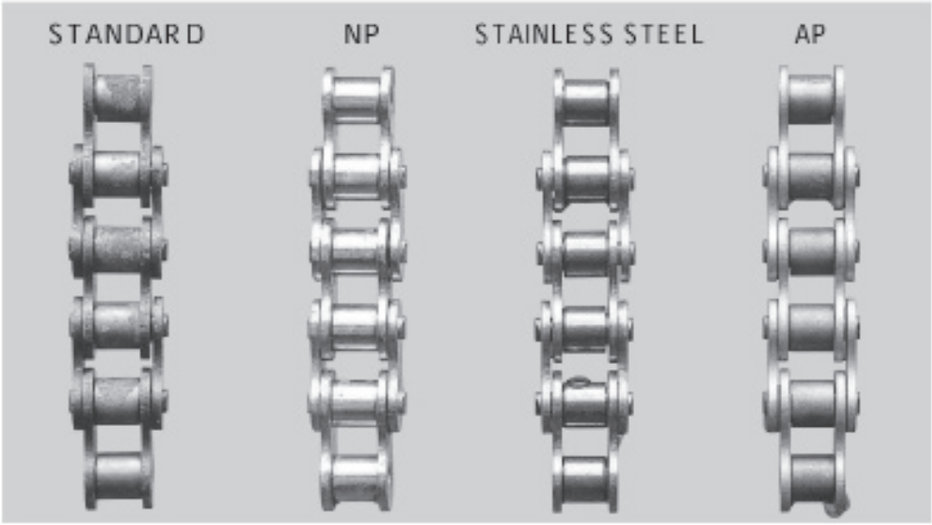
For the food products industry where the chain may be exposed to direct food contact, stainless steel chain is recommended.

Applicable Chains

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

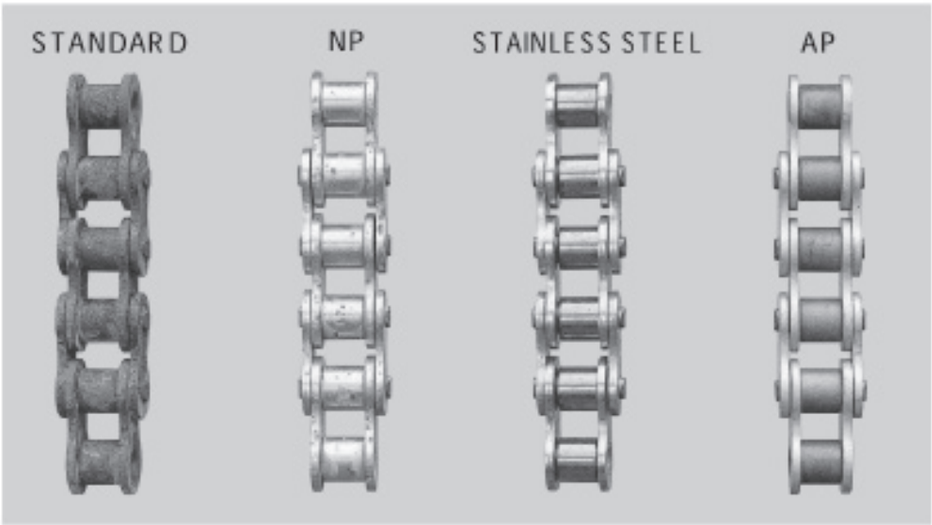
Stocking:

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	-	-	-	-



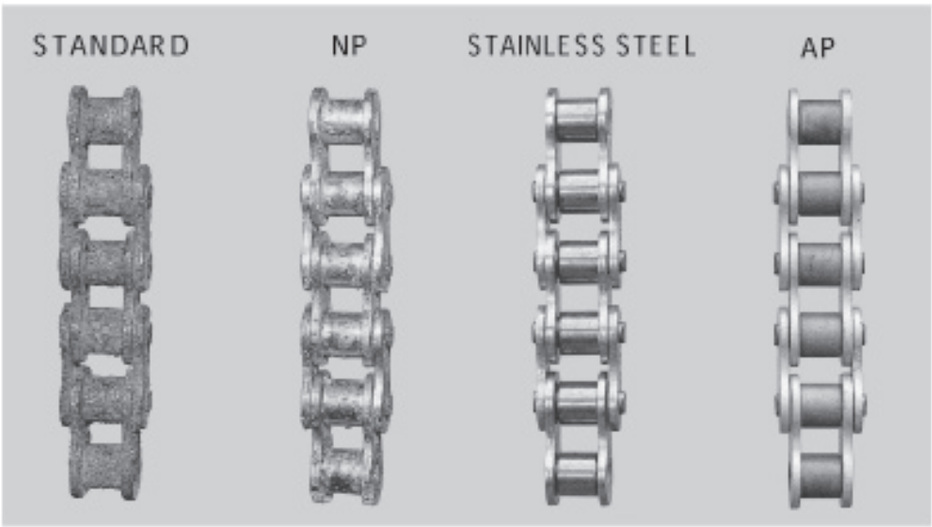
Open air,
splashed water
morning&evening

3days after



Open air,
splashed water
morning&evening

15days after

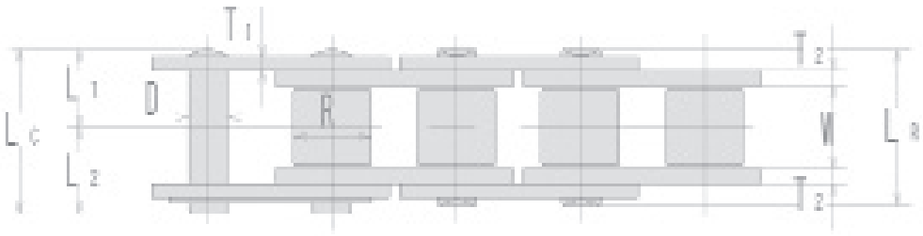


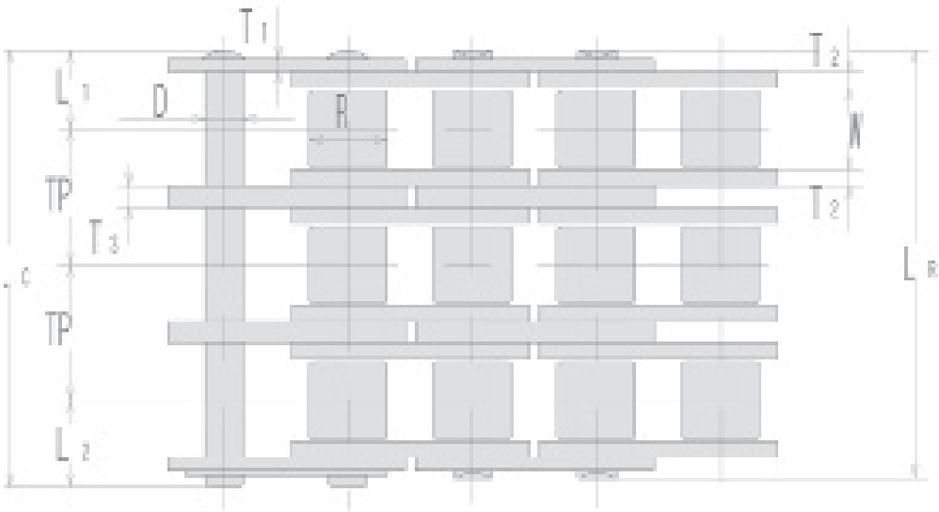
Indoors,
splashed
5%salty water
morning&evening

15days after

BS Roller Chain

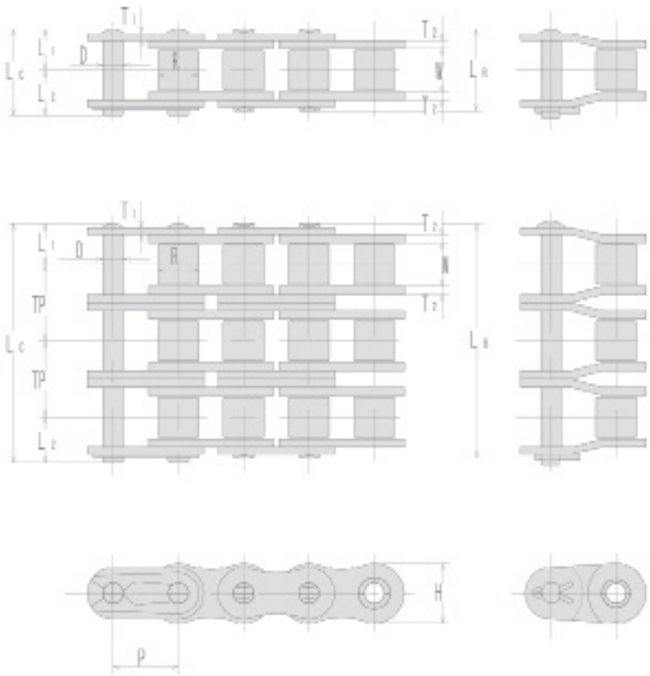
SY BS standard roller chains are standardized in accordance with ISO 606 B and fully inter-changeable with chains manufactured according to BS 228 and DIN 8187.
Supplied, in rivet type, to European countries as well as replacement on machinery employing BS standard chains.





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

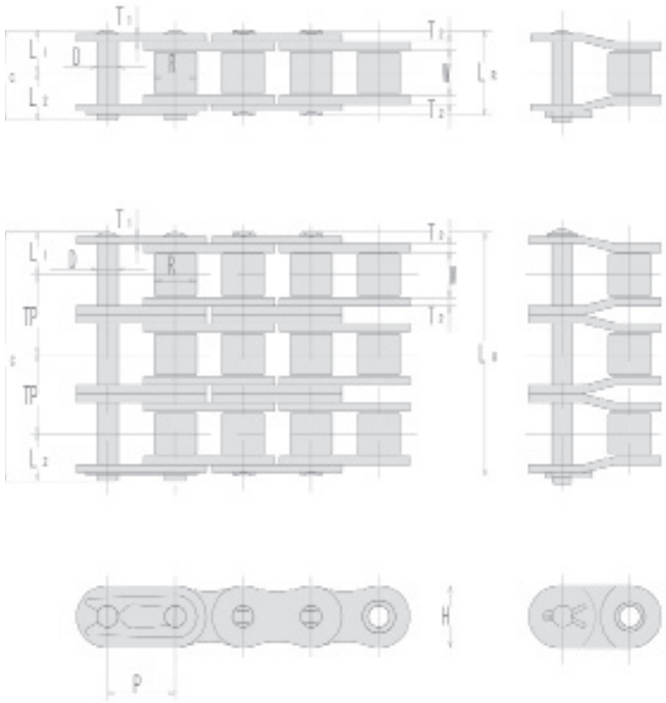
* Also stocked in 100ft and 50ft reels.

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.

BS Roller Chain



12B

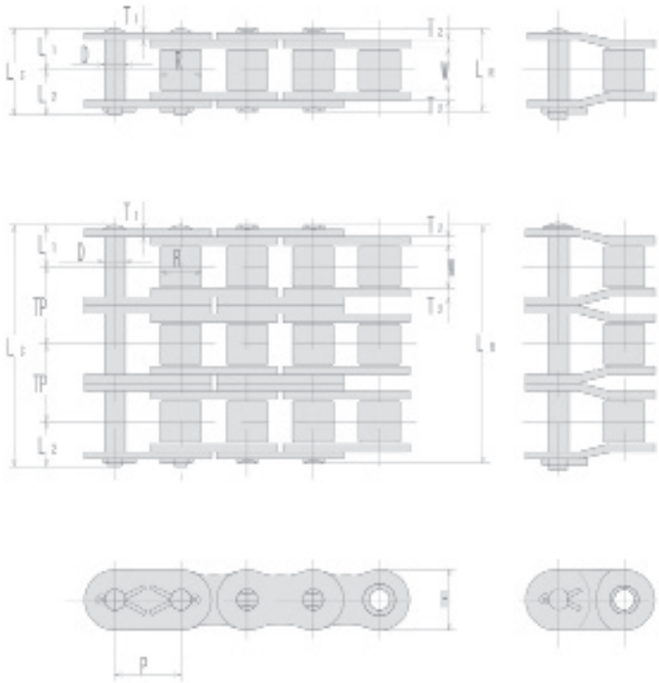
SY Chain No. (BS)	Dimensions - mm													Average Ultimate Strength	Maximum Allowable Load	"Average Chain Weight "
	Pitch	Bushing		Pin					Plate				"Trans. Pitch"			
		Width	Dia.	Dia	Length				Height	Thick.						
	P	W	R	D	LR	LC	L1	L2	H	T1	T2	T3	TP	Kn	kN	kg/m
1 2 B*	19.05	11.68	12.07	5.72	22	23.6	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.

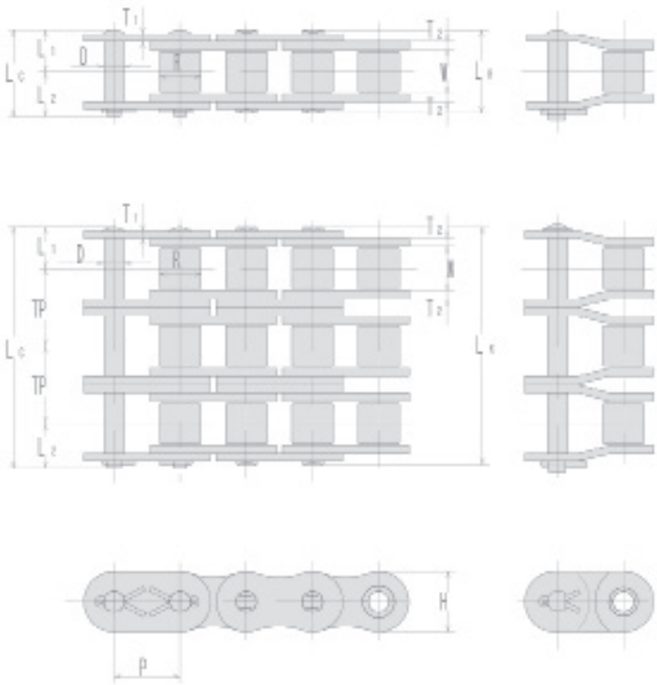


20B

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
2 0 B	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
2 0 B-2					76.8	80.6							170	33.3	7.26	0.78
2 0 B-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
2 4 B	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
2 4 B-2					101.8	106.5							280	46.8	14.53	0.78
2 4 B-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
2 8 B	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
2 8 B-2					124.7	130							360	58.3	18.45	0.78
2 8 B-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
3 2 B	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
3 2 B-2					123.4	129.7							450	66.6	19.76	0.78
3 2 B-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

Double Capacity Roller Chain

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

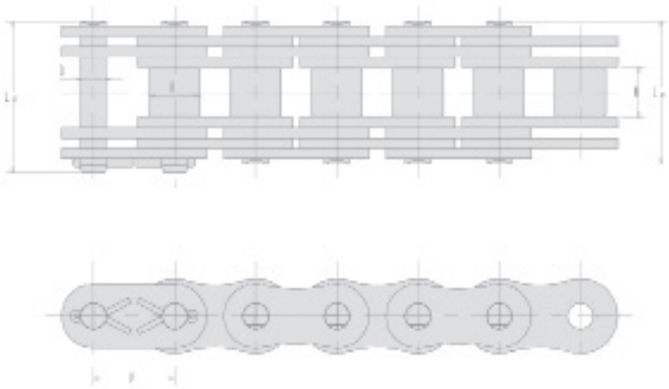
Drilled hole 2,060 ft down to rescue the miners.

A drilling machine installed with SY 180 Double Capacity chain was utilized to drill 6" holes dia the 2,060 ft. or so down that found the 33 miners in Chile.

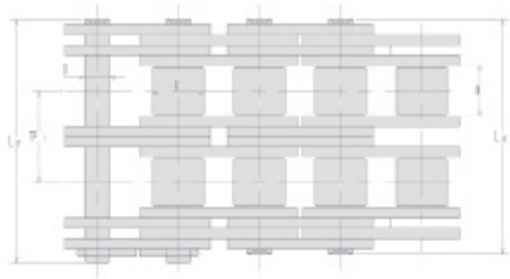
SY Double Capacity Roller Chain(#180)

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.

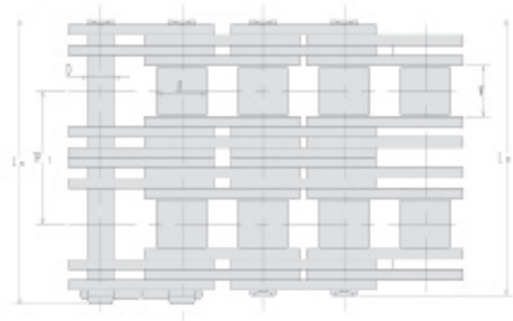
DC (×2)



TC (×3)



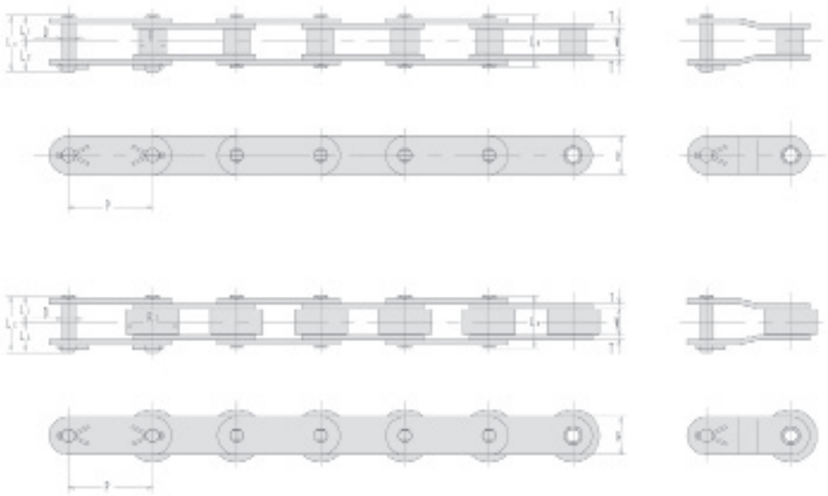
FC (×4)



LR2 = LR1 + TP1
LC2 = LC1 + TP1
LR3 = LR1 + TP2
LC3 = LC1 + TP2

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

Double Pitch (Conveyor) Roller Chain

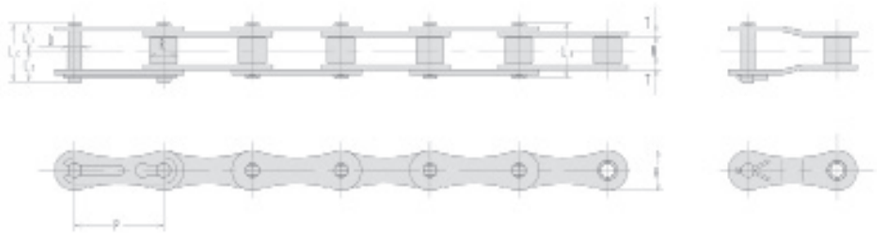


Standard Roller Type

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

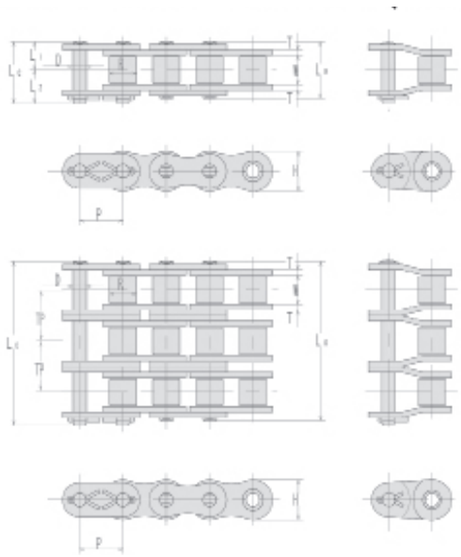
SY Chain No. (ANSI)	Dimensions - mm										Average Ultimate Strength	Maximum Allowable Load	"Average Chain Weight "
	Pitch	Bushing		Pin					Plate				
		Width	Dia.	Dia	Length				Height	Thick.			
	P	W	R	D	LR	LC	L1	L2	H	T1	Kn	kN	kg/m
C 2 0 4 2	25.4	7.95	15.88	3.96	16.5	18.5	8.2	10.3	11.4	1.5	16.9	3.63	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

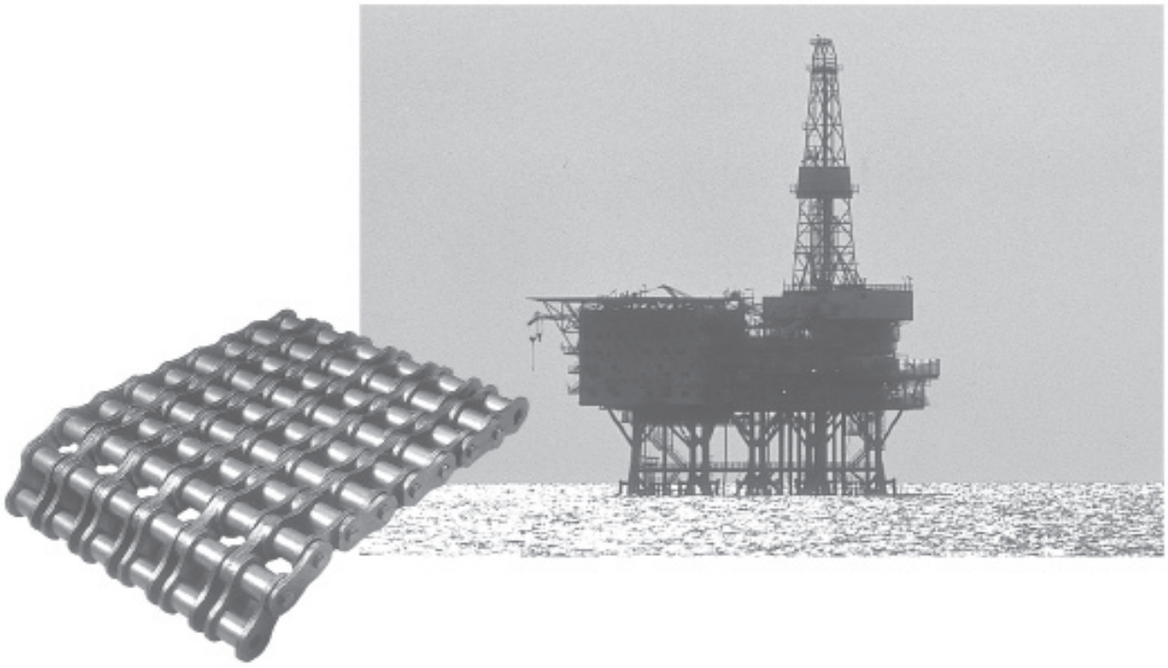
SY Chain No. (ANSI)	Dimensions - mm										Average Ultimate Strength	Maximum Allowable Load	"Average Chain Weight "
	Pitch	Bushing		Pin					Plate				
		Width	Dia.	Dia	Length				Height	Thick.			
	P	W	R	D	LR	LC	L1	L2	H	T1	Kn	kN	kg/m
A 2040	25.4	7.95	7.92	3.96	16.5	17.9	8.3	9.6	11.4	1.5	16.9	3.63	0.43
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

ANSI HE Extra Heavy Series Chain

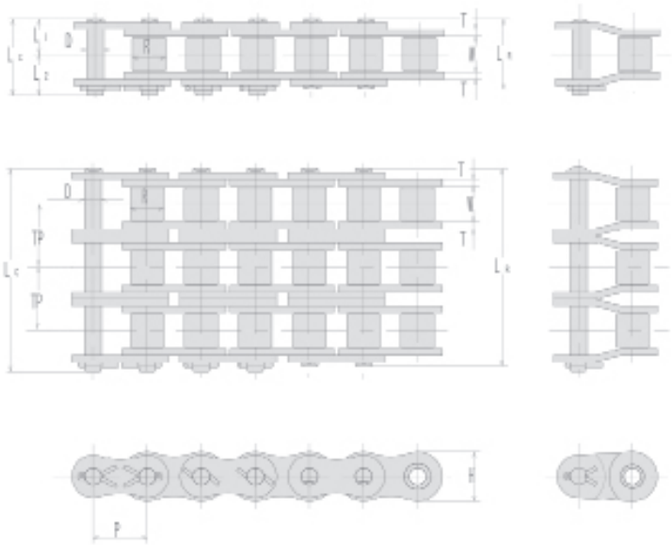


SY Heavy series roller chains are designed with thicker side plates to insure greater capacity for absorbing shock loads without fatigue failure of side plates. Also manufactured to close tolerances in accordance with ANSI specifications and are mainly used for applications where space and design limitations 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 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
60HE	19.05	12.7	11.91	5.95	54.9	57.0	27.4	29.6	17.5	3.2	26.1	110	15.2	".59
80HE	25.4	15.88	15.88	7.93	68.4	71.3	34.2	37.1	23.4	4	32.6	180	25.8	5.54
100HE	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
120HE	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
140HE	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
160HE	50.80	31.75	28.58	14.28	129.8	134.9	64.9	70.0	46.7	7.2	61.9	612	93.3	21.21



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
5 0H*	15.875	9.53	10.16	5.09	-	-	-	-	-	-	-	-	-	-
6 0H*	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	C
8 0H*	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	
1 0 0H	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	
1 2 0H	38.1	25.4	22.23	11.1	52.8	57.2	26.4	30.8	35.1	5.6	186	38	5.83	
1 4 0H	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	
1 6 0H	50.8	31.75	28.58	14.28	67.9	73	34	39	46.7	7.2	306	66.3	10.86	
1 8 0H	57.15	35.7	35.7	17.45	75.6	81.5	37.8	43.7	52.5	8	373	70.6	15.18	

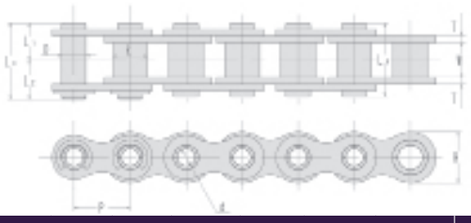
*Also stocked in 100ft and 50ft reels

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

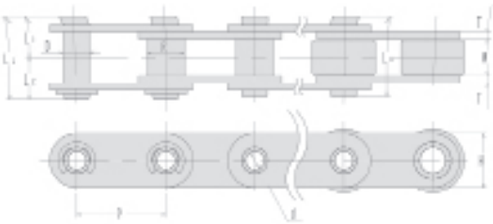
Hollow Pin Chain

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 oil less 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, masts 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)

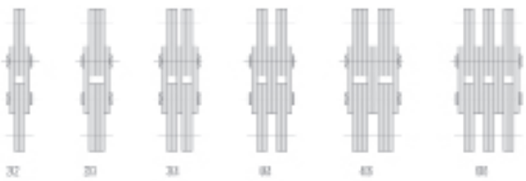
Consisting of link plates of the same contour and thickness as the pin link plates of ANSI roller chains in same pitch. Mainly used for relatively constant, low, medium load with less shock.

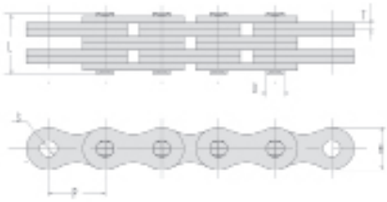
BL SERIES (HEAVY DUTY)

Consisting of link plates with next 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 chains in same pitch.





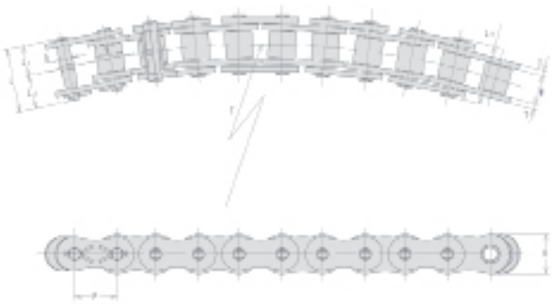
SY Chain No. (ANSI)	Lacing	Dimensions - mm						Average Ultimate Strength	Maximum Allowable Load	Average Chain Weight
		Pitch	Pin				Hole Dia			
			Dia.	Length	Height	Thickness				
		P	D	L	H	T	S	kN	kN	kg/m
AL 644	4×4	19.05	5.95	22.2	15.2	2.4	6.04	86.3	7.45	1.68
AL 844	4×4	25.4	7.93	29.4	20.2	3.2	8	145	13.2	2.88
AL 866	6×6			43.0				218	15.4	4.23
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 Allowable 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			-				-	-	-

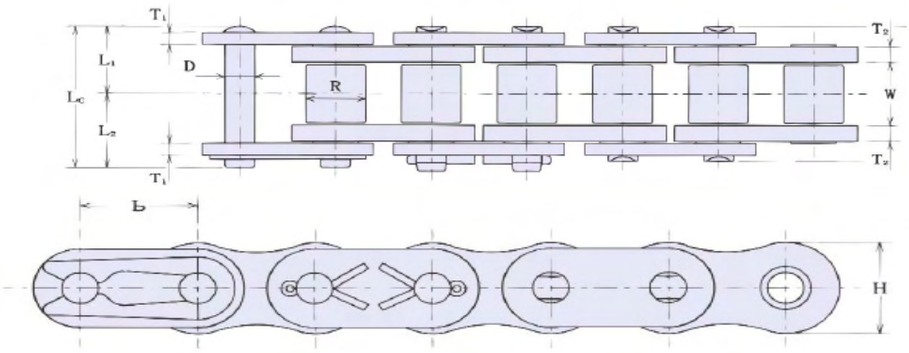
Side Bow Chain

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

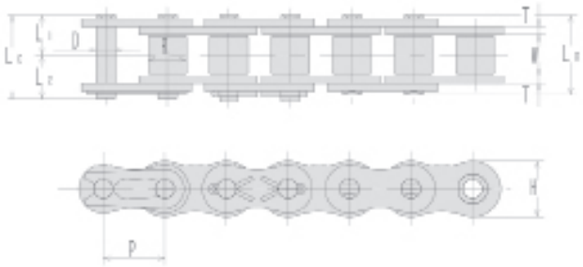
SY Chain No. (BS)	Dimensions - mm													Average Ultimate Strength	Maximum Allowable Load	"Average Chain Weight "
	Pitch	Bushing		Pin					Plate				"Trans. Pitch"			
		Width	Dia.	Dia	Length				Height	Thick.						
	P	W	R	D	LR	LC	L1	L2	H	T1	T2	T3	TP	Kn	kN	kg/m
08B-SLR	12.70	7.75	8.51	4.45	16.7	18.0	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.

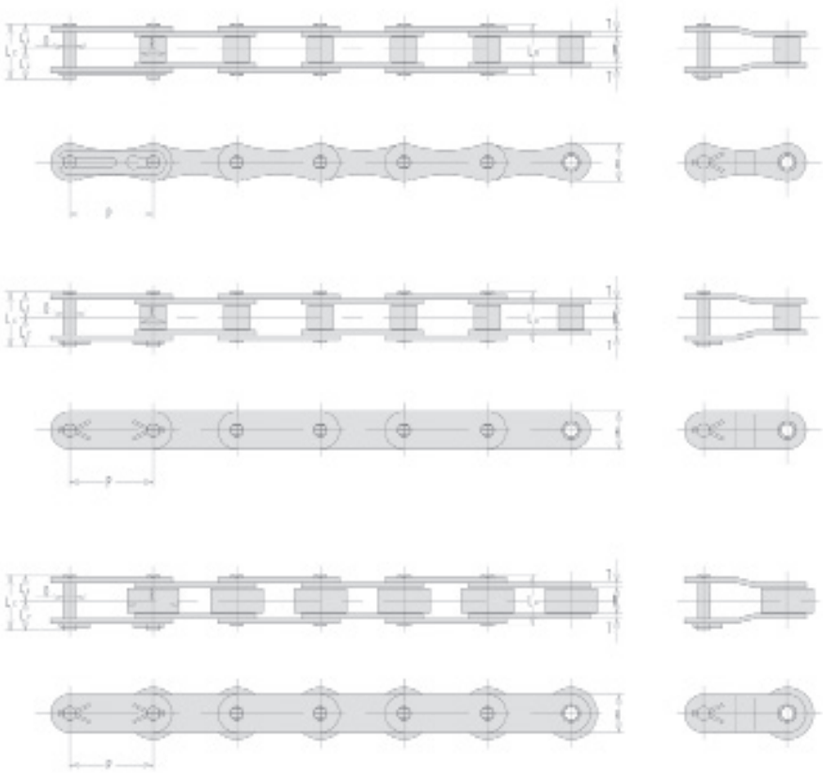
INTRODUCTION OF SY NEW HIGH POWER NEW SSS SERIES PRODUCTS

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 -S S	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 -S S	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 -S S	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 -S S	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 -S S	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 -S S	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 -S S	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 -S S	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 -S S	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 -S S	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

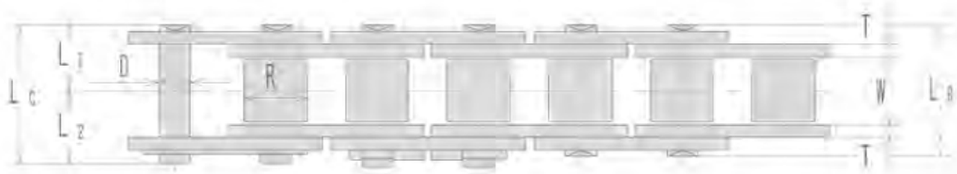


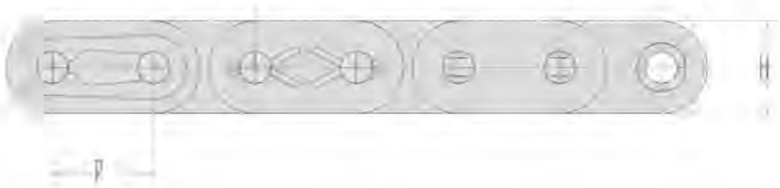
DOUBLE PITCH STAINLESS STEEL CHAIN

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

Straight Side Bar Chain

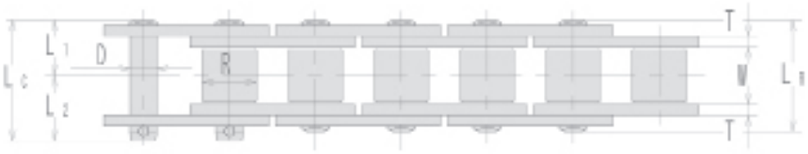
SY ANSI straight side bar chains are identical with ANSI standard chains except for the straight sideplates. Provided with higher fatigue resistance than the standard chains. Sprockets for ANSI standard chains maybe be used for these chains. For identification, a sufflix of F is added to the standard chain numbers listed below.

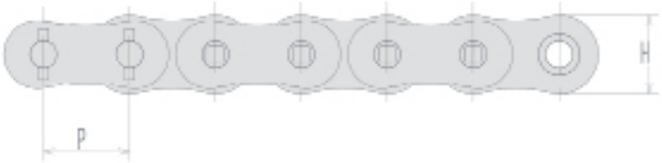




SY Chain No. (ANSI)	Dimensions - mm										Minimum Ultimate Strength	Maximum Allowable Load	Average Chain Weight "	Type of Conn link
	Pitch	Roller		Pin					Plate					
		Width	Dia.	Dia	Length				Height	Thick.				
	P	W	R	D	LR	LC	L1	L2	H	T1	Kn	kN	kg/m	spcl
35F	9.525	4.78	5.08	3.58	12.0	12.9	6.0	6.9	9.0	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 to fitting portions and the useof 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.

SINGLE 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

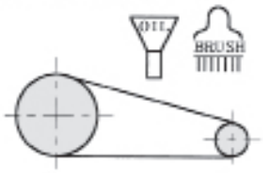
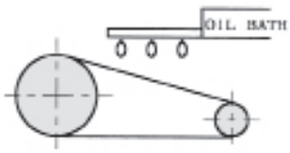
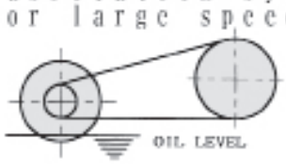
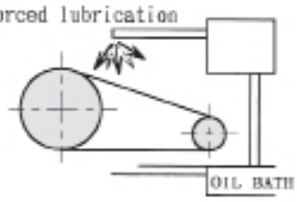
* Also stocked in 100ft and 50ft reels.

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.

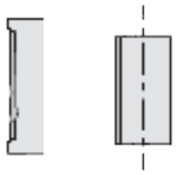
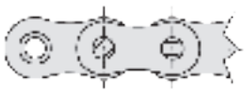
POINTS OF LUBRICATION

1) Fill and change oil periodically.
2) Generally, heavy oil and grease are not suitable as a lubricant.
3) Avoid mix 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
	Dripping lubrication 	●Usually 4-20 drops of oil per minute. ●Excess oil should be reserved in a simple case.
B	Oil bath lubrication 	●Effective at medium and low speeds. ●To be dipped 6～12 mm.
	Lubrication by slinger disc For large speed ratio 	●Effective at rather high speeds. ●To be dipped 12～25mm at about 200m/min. circumferential speed of slinger disc.
	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. ●Ab 4 ltr/min. should be filled without oil shortage or heating up. ●Closed circulating lubrication system needs a clean tank or case.

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			
~SY50	SAE10	SAE20	SAE30	SAE50	SAE10	SAE20	SAE30	SAE40
SY60~SY80	20	30	40	50	10	20	30	40
SY100	20	30	40	50	20	30	40	50
SY120~	30	40	50	50	20	30	40	50

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

Problem	Possible Causes 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 bearing	• Adjust sensors or take-up • Inspect & remove obstruction • Tighten bolts and check bearings
Chain Vibration	• Excessive chain slack • Center distance too long • stiff links	• Adjust chain tensioner • Install idler • Lubricate or replace chain
Wear on inside of link plate and one side of sprocket teeth	• Misalignment	• Realign sprockets and shafts • Replace chain and sprockets if necessary
Chain stiffens	• Excessive load • Misalignment • Inadequate lubrication • Corrosion	• Replace chain with one of suitable strength • Inspect alignment • Clean and establish correct lubrication • Replace with corrosion resistant chain
Chain Climbs Sprockets	• Excessive chain wear • Excessive chain slack • Inadequate lubrication • Sprocket tooth wear	• Replace chain • Install tensioner if necessary • Replace sprocket
 Fractured Plate	• Extreme overload	• Inspect the drive to determine the cause of high load • Redesign drive using a higher capacity chain

FINERPOWER TRANSMISSIONS

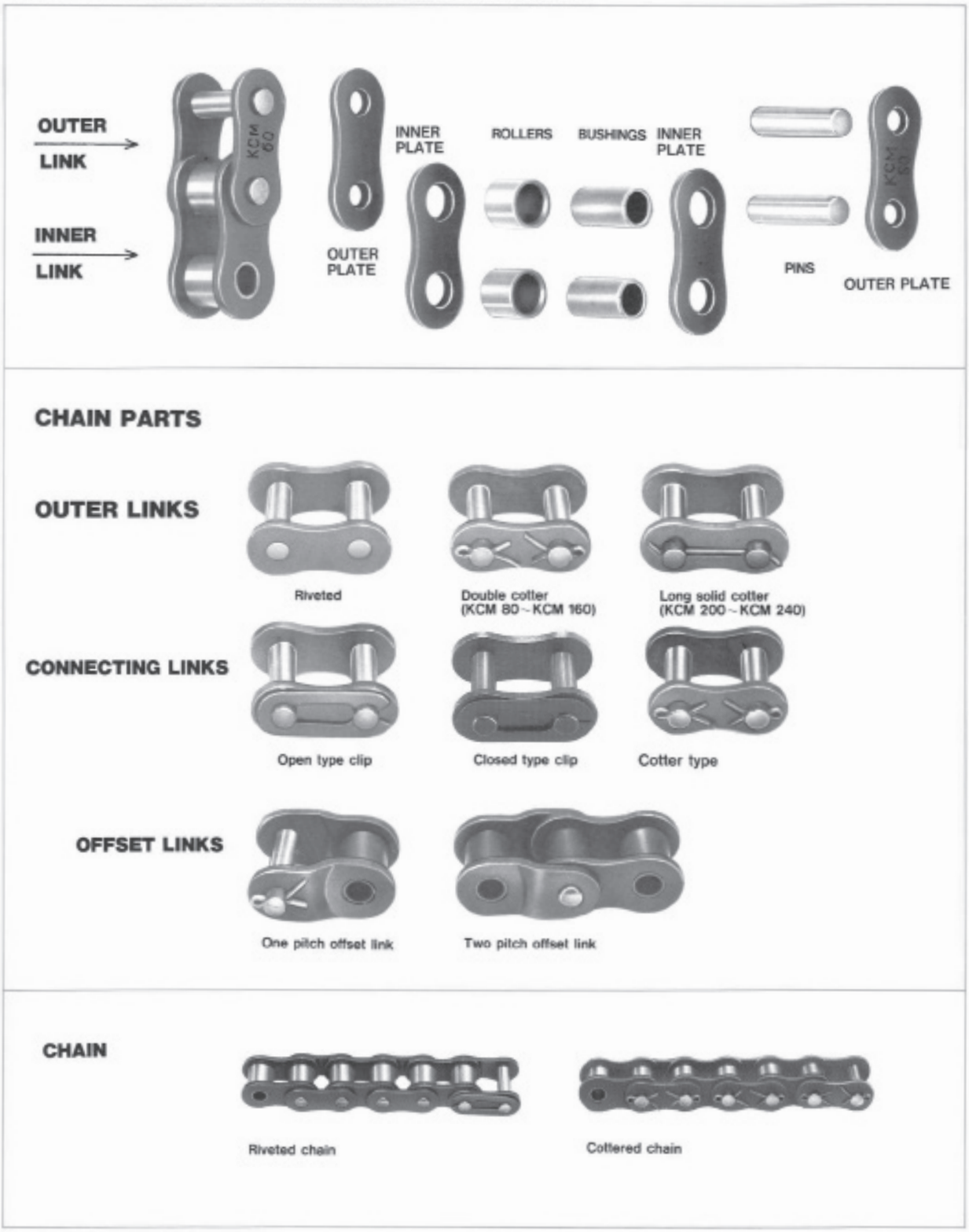
K.C.M.®

KCM Roller Chain

KCM Roller Chain

Chain Components

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.



General Roller Chain Selection Method

For roller chain transmission, it is important to select appropriate roller chain and sprockets.

① Compensated chain drive power

② Power to be transmitted

Determine the compensated chain drive power by multiplying the power to be transmitted by service factor shown in Table 2 according to the driven machine and prime mover. If the desired power transmission power cannot be achieved with single strand chain, select multiple strand chain. In this case, it is required to make compensation with multiple strand factor listed in Table 1 as follows.

○Single strand chain:
Compensated chain drive power
= Power to be transmitted × Service factor

○Multiple strand chain:
Compensated chain drive power
$$= \frac{\text{Power to be transmitted} \times \text{Service factor}}{\text{multiple strand factor}}$$

③ Speeds of drive and driven shafts:

Determine appropriate roller chain and number of teeth of smaller sprocket from Table 3 "Quick selection chart" according to the speed (rpm) of higher-speed shaft (drive shaft in case of deceleration and driven shaft in acceleration) and compensated chain drive power.
In this case, it is recommended to select a chain with pitches as small as possible for smooth, quiet operation.

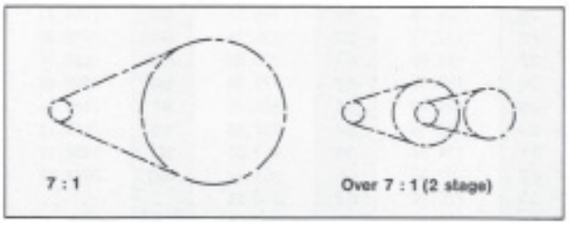
④ Shaft diameter and boss diameter:

After determining the number of teeth of smaller sprocket, refer to Sprocket dimensions tables on pages 77 to 86 to find boss diameter and maximum bore diameter. If the bore diameter is less than the actual shaft diameter, reselect the increased number of teeth of smaller sprocket so that the bore diameter matches the actual shaft diameter.

⑤ Speed ratio of both shafts

Determine the number of teeth of larger sprocket by multiplying the number of teeth of smaller sprocket by the speed ratio of smaller sprocket to larger sprocket. Here, note that the number of teeth of smaller sprocket must be 17 or more, and that of larger sprocket must be 114 or less.
When uniform load is transferred at low speed, it is possible to select a sprocket whose number of teeth is down to 13.

In roller chain drive, the speed ratio of smaller sprocket to larger sprocket is normally 7 : 1 or less. If larger speed ratio is required, select two or more stages for speed change.



⑥ Shaft-to-shaft distance

It is ideal that shaft-to-shaft distance is 30 to 50 times chain pitch employed, although both shaft are positioned close to each other just before engagement of both sprockets. If subjected to pulsating load, shaft-to-shaft distance must be 20 or less times chain pitch employed.

Low Speed Roller Chain Selection Method

When the chain speed is 50 m/min or less, follow the "Low Speed Roller Chain Selection Method", rather than "General Roller Chain Selection Method", described above, for economical operation.
This low speed roller chain selection method is suitable for smooth power transmisson with less frequent starts and stops. Working conditions such as operating environment, arrangement and lubrication are similar to those of general roller chain selection method.

① Chain Speed

$$V = \frac{P \cdot N \cdot n}{1000}$$

V: Chain speed, m/min
P: Chain pitch, mm
N: No. of teeth of smaller sprocket
n: No. of speed of smaller sprocket, rpm

② Load acting on roller chain

$$F = \frac{6120 \cdot kW}{V}$$

F: Max. load acting on roller chain, kgf
kW: Transmission Power, kW

③ Max. acting load and max. allowable load

Max. load acting on chain, kgf	×	Service factor Table 2	×	Speed factor Table 4	≤	Ma. allowable load of roller chain, kgf

Table 4 Speed Factors

Chain speed	Speed factor
15 m/min or less	1.0
15~30m/min	1.2
30~50m/min	1.4

If the foregoing equation is not satisfied, change the size of roller chain and the number of teeth of sprocket, and try to recheck if the equation is satisfied or not.

④ For low-speed application subjected to frequent starts and stops or braking and shocks, contact us.

Required Roller Chain Length

The required roller chain length (number of pitches) can be determined by the following equation, using center-to-center distance between shafts and number of teeth of sprocket.

$$L_P = \frac{N_1 + N_2}{2} + 2C_P + \frac{\{(N_2 - N_1)/2\pi\}^2}{C_P}$$

Lp: Overall roller chain length (no. of pitches)
N_1 = Number of teeth of smaller sprocket
N_2 = Number of teeth of larger sprocket
Cp = Center-to-center distance between shafts (no. of pitches)

Center-to-center Distance between Drive and Driven Shafts

The required roller chain length (number of pitches) determined at left is just approximation; which does not coincide with arbitrary center-to-center distance of drive and driven shafts. Therefore, it is required to obtain accurate center-to-center distance of drive and driven shafts. Therefore, it is required to obtain accurate center-to-center distance of drive and driven shafts by making calculation based on the required roller chain length equation.

$$C_P = \frac{1}{4}\left\{L_P - \frac{N_1 + N_2}{2} + \sqrt{\left(L_P - \frac{N_1 + N_2}{2}\right)^2 - \frac{2}{\pi^2}(N_2 - N_1)^2}\right\}$$

Cp = Center-to-center distance between both drive and driven shafts (pitches)
Lp = Overall chain length (pitches)
N_1 = No. of teeth of smaller sprocket
N_2 = No. of teeth of larger sprocket

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

N_2-N_1	$\{(N_2-N_1)/2\pi\}^2$	N_2-N_1	$\{(N_2-N_1)/2\pi\}^2$	N_2-N_1	$\{(N_2-N_1)/2\pi\}^2$
1	0.03	35	31.06	69	120.72
2	0.10	36	32.86	70	124.24
3	0.23	37	34.71	71	127.82
4	0.41	38	36.61	72	131.45
5	0.63	39	38.57	73	135.12
6	0.91	40	40.57	74	138.85
7	1.24	41	42.62	75	142.63
8	1.62	42	44.73	76	146.46
9	2.05	43	46.88	77	150.34
10	2.54	44	49.09	78	154.27
11	3.07	45	51.35	79	158.25
12	3.65	46	53.65	80	162.28
13	4.29	47	56.01	81	166.36
14	4.97	48	58.42	82	170.49
15	5.71	49	60.88	83	174.68
16	6.49	50	63.39	84	178.91
17	7.33	51	65.95	85	183.20
18	8.22	52	68.56	86	187.53
19	9.15	53	71.22	87	191.92
20	10.14	54	73.94	88	196.36
21	11.18	55	76.70	89	200.84
22	12.27	56	79.52	90	205.38
23	13.41	57	82.38	91	209.97
24	14.61	58	85.30	92	214.61
25	15.85	59	88.26	93	219.30
26	17.14	60	91.28	94	224.05
27	18.48	61	94.35	95	228.84
28	19.88	62	97.47	96	233.68
29	21.32	63	100.64	97	238.57
30	22.82	64	103.86	98	243.52
31	24.37	65	107.13	99	248.51
32	25.96	66	110.45	100	253.56
33	27.61	67	113.82		
34	29.31	68	117.25		

NOTE:
Lp (number of pitches), determined by the equation above, is not integer, almost having fraction part. Therefore, it is necessary to round up the function part to obtain integer. if the round-up integer is odd number, use an offset link, but even number is preferable.

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

N_2-N_1	$\frac{2}{\pi^2}(N_2-N_1)^2$	N_2-N_1	$\frac{2}{\pi^2}(N_2-N_1)^2$	N_2-N_1	$\frac{2}{\pi^2}(N_2-N_1)^2$
1	0.20	35	248.49	69	9965.76
2	0.81	36	262.89	70	9993.95
3	1.83	37	277.70	71	1022.56
4	3.25	38	292.91	72	1051.56
5	5.07	39	308.53	73	1080.98
6	7.30	40	324.56	74	1110.80
7	9.94	41	340.99	75	1141.19
8	12.98	42	357.82	76	1171.65
9	16.43	43	375.07	77	1202.69
10	20.28	44	392.71	78	1234.13
11	24.54	45	410.77	79	1265.97
12	29.21	46	429.23	80	1298.23
13	34.28	47	448.09	81	1330.88
14	39.76	48	467.36	82	1363.95
15	45.64	49	487.04	83	1397.42
16	51.93	50	507.12	84	1431.29
17	58.62	51	527.61	85	1465.58
18	65.72	52	548.50	86	1500.26
19	73.23	53	569.80	87	1535.36
20	81.14	54	591.50	88	1570.85
21	89.46	55	613.61	89	1606.76
22	98.18	56	636.13	90	1643.07
23	107.31	57	659.05	91	1679.78
24	116.84	58	682.38	92	1716.90
25	126.78	59	706.11	93	1754.43
26	137.13	60	730.25	94	1792.36
27	147.88	61	754.80	95	1830.70
28	159.03	62	779.75	96	1869.45
29	170.60	63	805.10	97	1908.60
30	182.56	64	830.86	98	1948.15
31	194.94	65	857.03	99	1988.11
32	207.92	66	883.61	100	2028.48
33	220.90	67	910.58		
34	234.49	68	937.97		

Use in Severe Working Conditions

1. Application at High Temperature

If the chain is heated, its strength and wear resistance are decreased.

Table 5 Atmospheric temperature and strength

Atmospheric temp (℃)	Strength	
Up to -30	Allowable tensile force*	×0.25
-30 to -20	〃	×0.30
-10 to 150	〃	×1
150 to 200	〃	×0.75
200 to 250	〃	×0.5

2. Described in catalog

For use in alkalic or acidic environment, it is required to use the chain made of material having high corrosion resistance, for instance, stainless steel. Note that corrosion resistance of stainless steel may be decreased significantly according to kinds of liquid and gas, and operating temperatures.

Installation

(A) Arrangement of Shafts

Horizontal arrangement;
Even if both shafts are arranged horizontally, pay due attention to rotational direction of the shafts. In cases of Fig. (2) and (3), there is a fear that the chain is disengaged from the sprocket when the chain is eoingated. Particularly, in the case of Fig. (3), there is a fear that the upper and lower chain parts make contact: use an idler at midspan between shafts as shown.

Vertical arrangement:
The chain, if elongated, will be deflected as illustrated in Fig. (5). Particularly, if a smaller sprocket is located at the bottom side, there is a concern that the chain can disengage from the sprocket. To avoid disengagement, it is required the line linking centers of both shafts is at 60° or less to horizontal line, as illustrated in Fig. (4). If this arrangement is not allowed due to limitation of mechanism or space, it is recommended to arrange a larger sprocket at the lower side, and an idler inside or outside the chain as illustrated in Fig. (6).

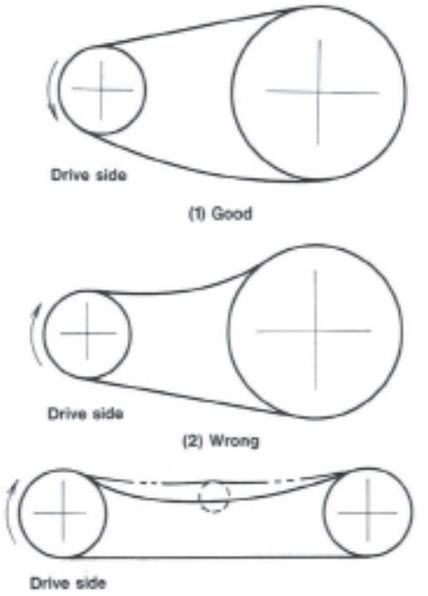
(B) Sag

Sag of the chain is approximately 4% of shaft-to-shaft distance, and approximately 2% of that in the following cases*
1) Vertical arrangement or similar arrangement.
2) Shaft-to-shaft distance is 1 m or longer.
3) Frequent starts and stops under heavy load.
4) Reversing operation

(C) Varying loads

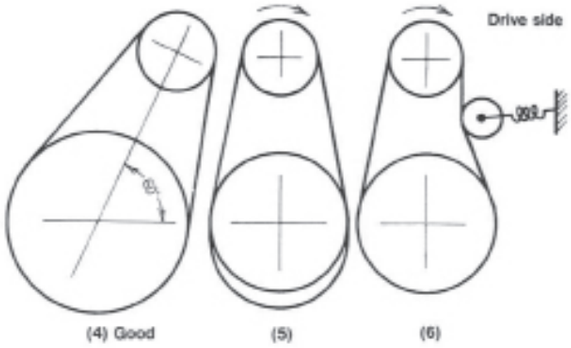
It is required to place a tensioner on the tensed side or slackened side of the chain to give pre-tension. This eliminates vibration in operation and reduces noise.

Horizontal arrangement:

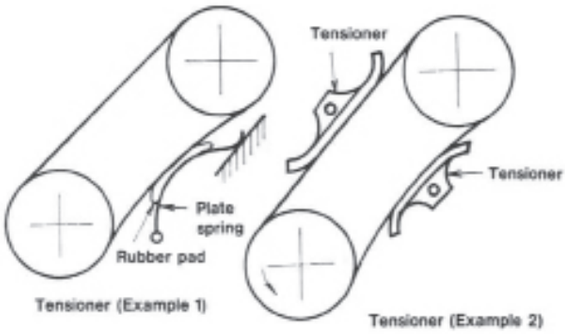


(3) Wrong (Change rotating direction or use an idler.)

Vertical arrangement:



Examples of Tensioners



Power Transmission Capacity Tables

Power Transmission capacities of the KCM products shown in this catalog are determined under the following conditions:

1) Operation at -10°C to +60°C in the atmosphere free from abrasive dirt.
2) No corrosive gas and high humidity.
3) Two sprockets on which roller chain is mounted are properly aligned on parallel , level shafts.
4) Use of lubricant and lubrication method.
5) Less loading variations.

Multiple strand factor (Table 1)

Power transmission capacity of multiple strand roller chain is not equal to the number of strands times that of single strand roller chain , because the load is not evenly distributed to respective strands of roller chains.Therefore, power transmission capacity of multiple strand roller chain is determined by multiplying that of single strand roller chain by multiple strand factor.

Service factor (Table 2)

Actual power transmission capacity is adjusted according to the degree of loading variations, because the power transmission capacity tables are prepared on condition that loading variations are small.

Quick Selection Chart (Table 3)

How to Use:

EXAMPLE: Single strand roller chain with 5kW compensated chain drive power.

1. When smaller sprocket speed is 100 rpm:

Find the intersection of 5kW horizontal line of the compensated chain drive power and 100 rpm vertical line of the smaller sprocket speed in the quick selection chart. You'll find that the chain is KCM 80, and number of sprocket teeth is between 16T and 20T, judging as 17T from the exact location of the intersection.

2. When smaller sprocket speed is 300 rpm:

1) Find the intersection in the same way as 1, you'll find that the chain is KCM 60, and number of sprocket teeth is 13T to 18T, judging as 15T from the exact location of the intersection. Also, you'll find that there is KCM 50/24T line (dotted) near this intersection. This means you can use either KCM 60/15T and KCM 50/24T. After making quick selection with this chart confirm the selected sprocket is appropriate with reference to the power transmission capacity tables.
2) For power transmission capacity lines of 20T, 24T and 30T, only its high speed portions are shown to simplify the quick selection chart. For lower speed portions, extend a line in parallel to the lines, just like a dotted line of KCM50/24T.
3) For chain speeds of 50 m/min or lower, it is economical to make selection by "Low speed selection method"described later.

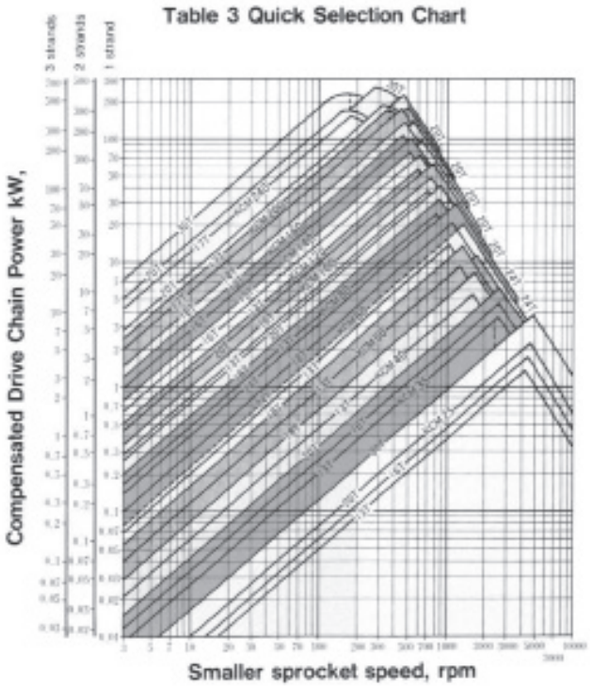
Table 1 Multiple strand factor

NO. of Chain Strands	Multiple Strand factor
2 strands	1.7
3 strands	2.5
4 strands	3.3
5 strands	3.9
6 strands	4.6

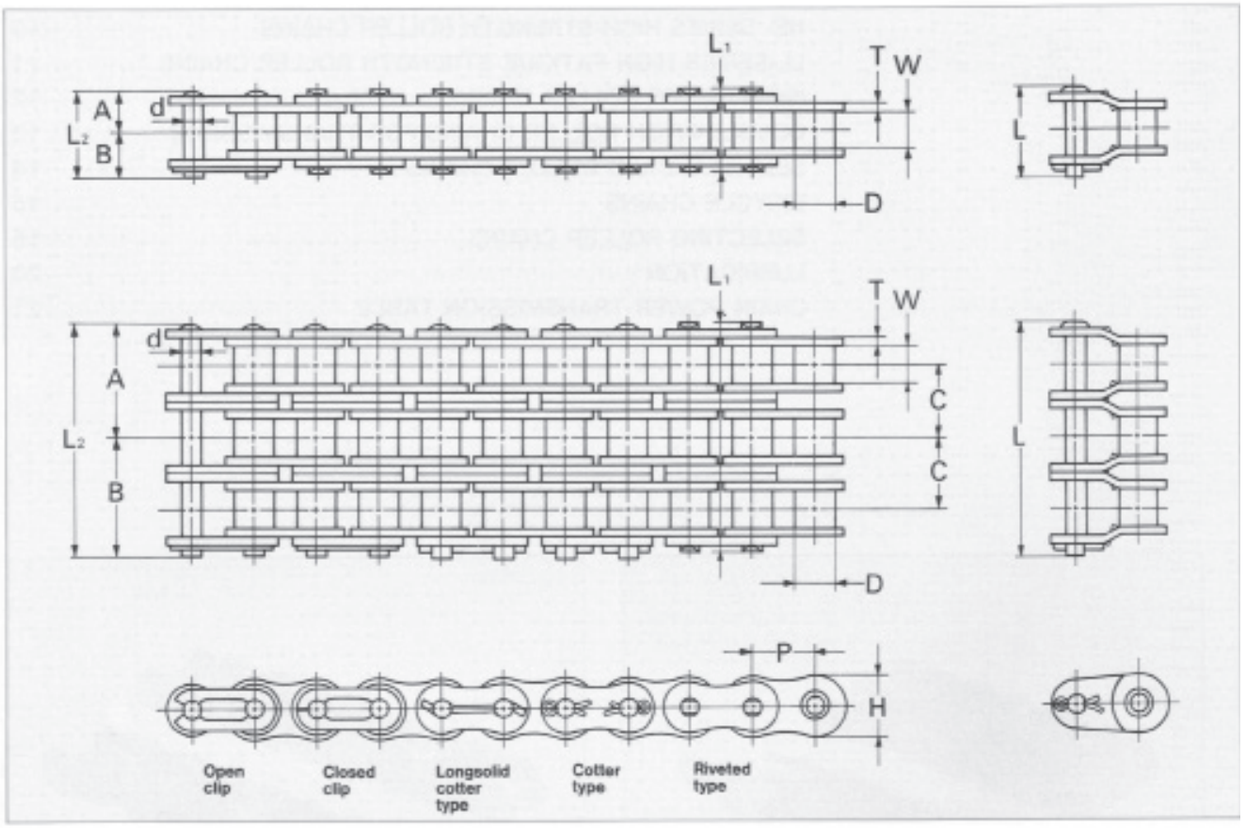
Table 2 Service factor

Load	Prime mover / Driven machine	Motor turbine	Combustion engine	
			W/hyd. equipment	W/o hyd. equipment
Smooth loading	Belt conveyor subjected to small loading variations, chain conveyor, centrifugal pump, centrifugal blower, textile machine, and other machinery subjected to small loading variations.	1.0	1.0	1.2
With some shocks	Centrifugal compressor, marine propulsion system, conveyor subjected to some loading variations, automatic furnace, drier, crusher, machine tool, compresser.	1.3	1.2	1.4
With heavy shocks	construction machinery, and paper mill, press, crusher, mining machinery, vibrator, oil-well machinery, rubber mixer, roll, roll gang, and other machinery subjected to reversing loads or heavy shocks.	1.5	1.4	1.7

Table 3 Quick Selection Chart



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



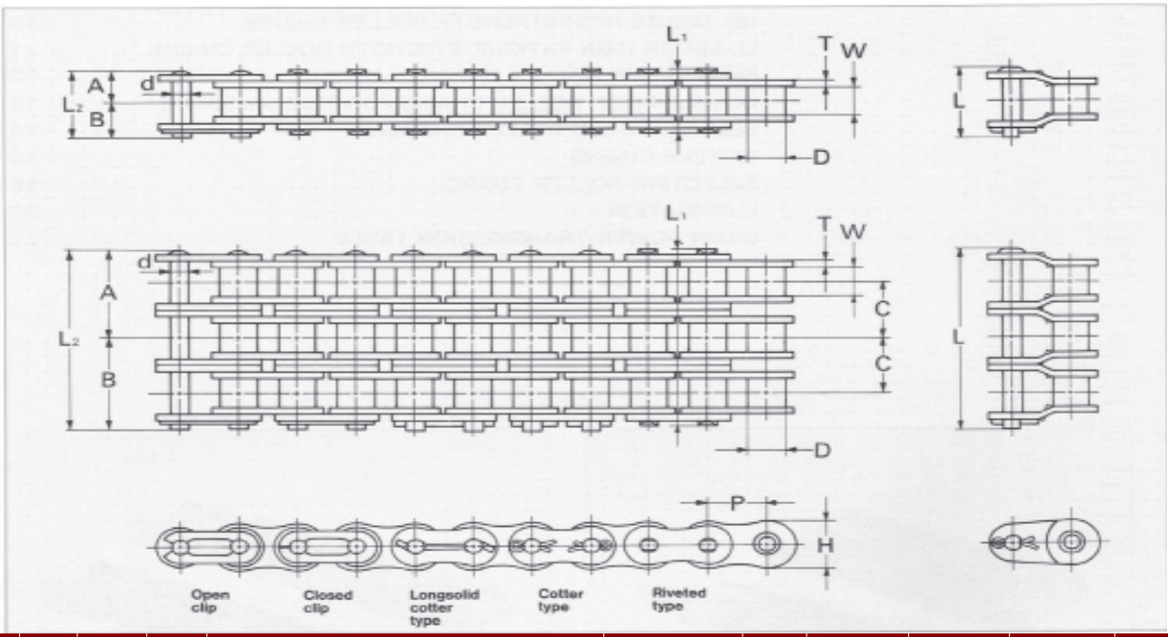
Chain No	Pitch	Width between inner pitch	Roller	PIN						Link Plate		JIS &ANSI Tensile strength kgf (kN)	Average Tensile strength kgf (kN)	Maximum Allowable Load kgf (Kn)	Approx weight (kg/m)	Links of 1unit
KCM	P	W	Diam-eter D	Diam-eter d	A	B	(A+A) L1	(A+B) L1	Offset L	Thick-ness T	Height H					
25	6.35	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)	J,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)	2J,500(269.7)	5,400(52.96)	9.63	60.00
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)

ANSI Roller Chain

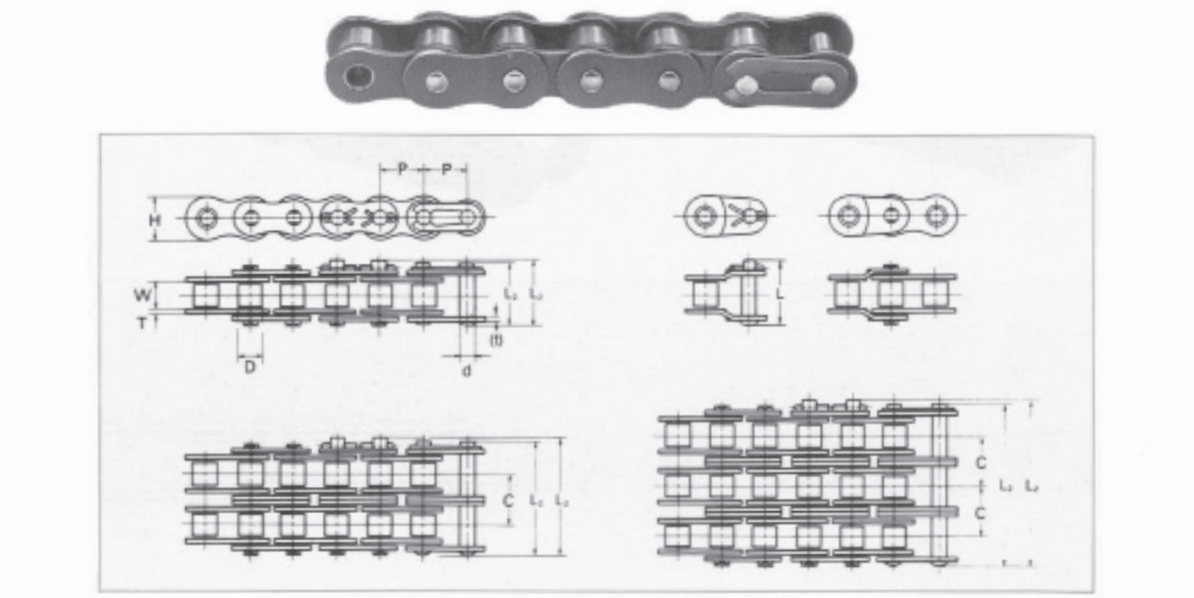
Nine types of multiple standard roller chains, conforming to JIS and ANSI standars are available.



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.

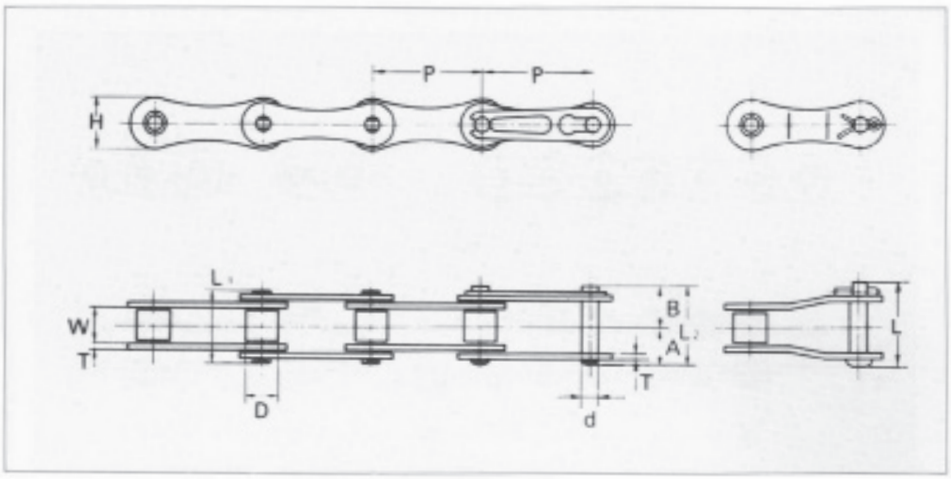


KCM Chain No.	Pitch P	Width between Inner Plates W	Roller Dia. D	PIN			Link Plate		Transver-sion pitch C	ISO 606 Min. Tensile Strength kN (kgf)	KCM Min. Tensile Strength kN (kgf)	Approx. Weight (kg/m)	Links of Dia. 1 unit
				Diameter d	L2	Offset L	Thickness T	Heights H					
04	6	2.8	4	1.85	7.35	–	0.6	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 1	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 (Conveyor) Roller Chain

Double Pitch roller chain, whose pitch is doubled compared to standard roller chain, employs parts of standard roller chain except for 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	Off-set 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

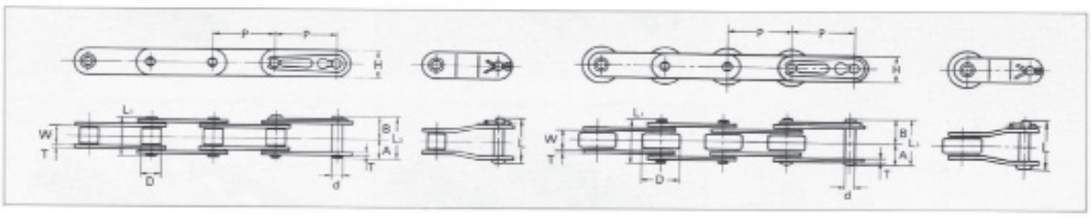
Dimensions (Millimeters)

Double Pitch (Conveyor) Roller Chain

The double pitch roller chains for conveyors fall into two roller types: S types (KCM chain No. is suffixed with "0") and R types (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.

S Roller Type

R Roller Type

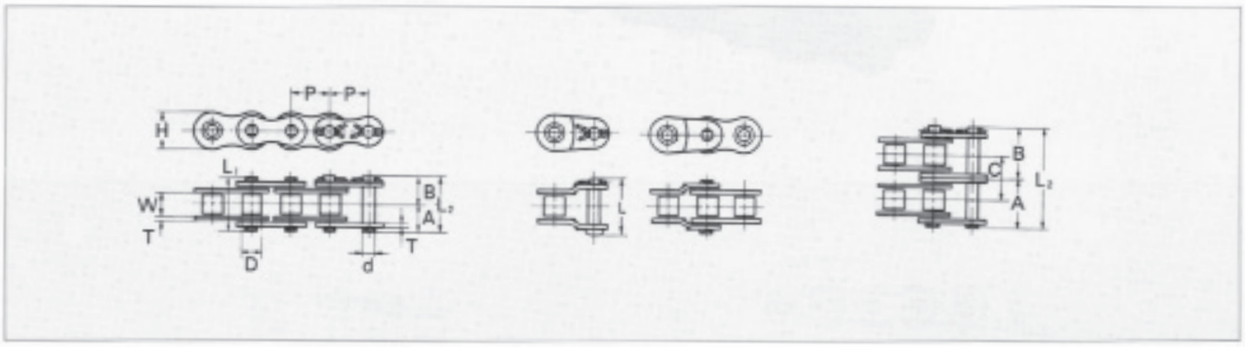


KCM Chain No.	Pitch P	Width between Inner Plates W	Roller Dia. D	PIN						Link Plate		Ave. Tensile Strength kN (kgf)	Max. Allow-able Load kN (kgf)	Approx. Weight (kg/m)	Links of Dia. 1 unit
				Diameter d	A	B	(A+A) L1	(A+B) L1	Offset L	Thick-ness T	Heights H				
C2040 C2042	25.40	7.95	7.92 15.88	3.97	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)

ANSI Heavy Series Chain

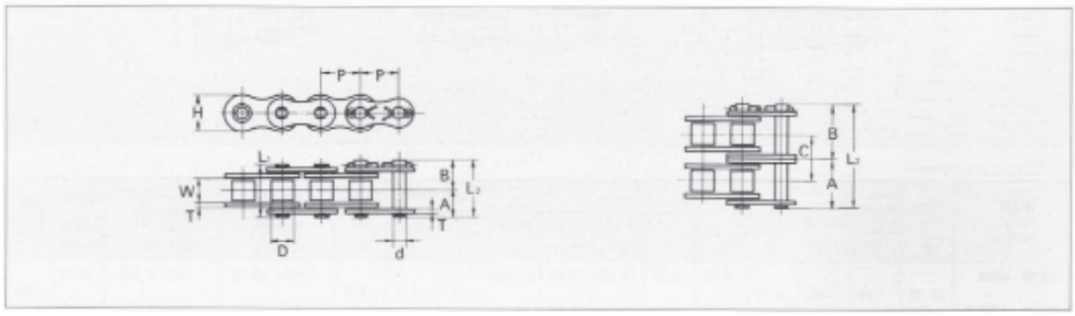
KCM H-Series roller chains are designed for heavy-duty operation thickening the link plate of standard roller chains and using high-strength pins.



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 34

* Stocked in 100ft and 50ft reels.
Dimensions (Millimeters)

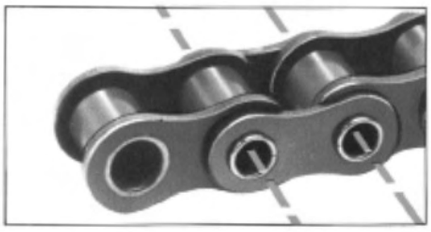
HE-Series high-strength roller chains are designed for extra strength and resistance to fatigue higher than those of H-Series. The HE-Series is best suited for heavy-duty power transmission with significant loading variations.



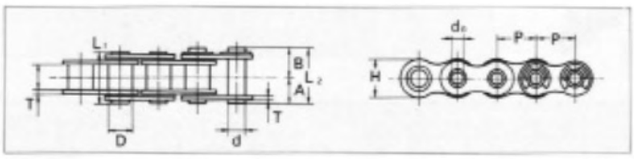
KCM Chain No.	Pitch P	Width between Inner Plates W	Roller Dia. D	PIN					Link Plate		Ave. Tensile Strength kN (kgf)	Transversion Pitch C	Max. Allow-able Load kN (kgf)	Approx. Weight (kg/m)	Links of Dia. 1 unit
				Diameter d	A	B	(A+A) L1	(A+B) L1	Thick-ness T	Height H					
50HE	15.875	9.53	10.16	5.09	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)

Hollow Pin Chain



This chain uses hollow pins to which various attachments can easily be fixed. Nickel plated version and stainless steel version are available. Standard and double pitch chains are available.

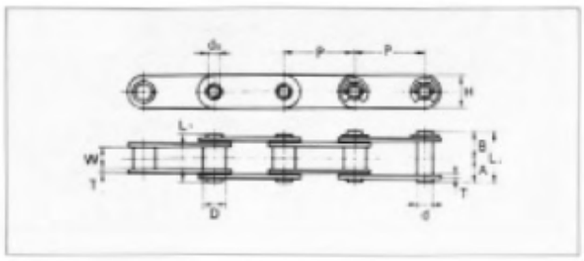


Roller Chain Type

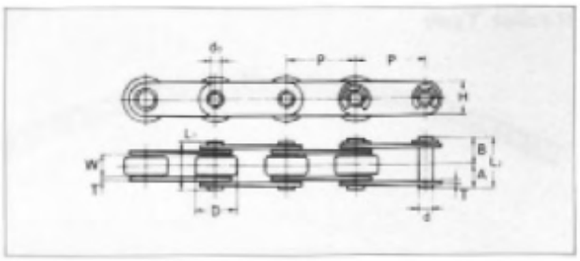
KCM Chain No.	Pitch P	Width between Inner Plates W	Bush Dia. D	PIN						Link Plate		Average tensile strength kgf KN (kgf)	Maximum Allowable Load KN (kgf)	Approx weight (kg/m)	Links of 1unit
				Outside diameter d	Outside diameter do (min)	A	B	(A+B) L1	(A+B) L2	Thickness T	Heights H				
40 HP	12.7	7.95	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)

Double Pitch Chain Type
S-roller Type (bushed)



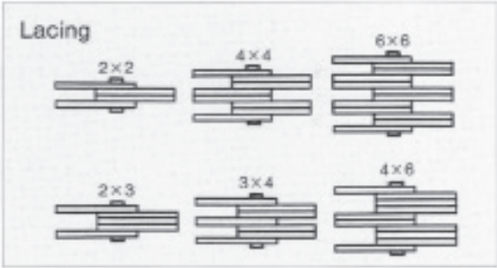
R-roller Type



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

Leaf chain falls into two types: AL type for light loading and BL type for heavy loading.
AL type is used for applications without impact and with daily repetition of 100 times or less.

Selection

1.Determine the following items according to operating conditions.
- Chain speed
- Daily repetition of power applications
- Working load (attachment weight, inertia force and impact force)

2.Determine chain type.
- **U BL type is recommended**
- **Use roller chain if speed exceeds 30 m/min or number of daily repetition exceeds 1000.**

3.Determine chain size by the following equation.

Working load x Use coefficient (Table 1) x Safety factor (Table 2) ≦ Min. tensile strength

Table 1 Use Coefficient

Type of impact	Use	Use coefficient
Smooth transmission	Smooth starts and stops, and moderate load change (i.e., lowering of balance-weight)	1.0
Impact to some extent	Frequent starts, stops, load changes and operations (i.e., fork lift)	1.3
Impact	Rapid starts, stops, load changes and operations (i.e., mining and construction machinery)	1.5

Table 2 Safety Factor

	Plate combination / No. repetition	Safety factory	
		2 x 2, 3 x 4 / 2 x 3, 4 x 4	4 x 6 / 6 x 6
BL type	1000 times/day	8 or more	9 or more
AL type	10 times/day	8 or more	9 or more
	100 times/day	11 or more	12 or more

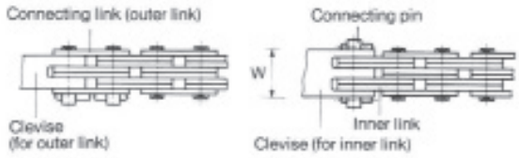
Notes to Selection

- Do not use a chain with low safety factor. Otherwise, pin will turn, 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.

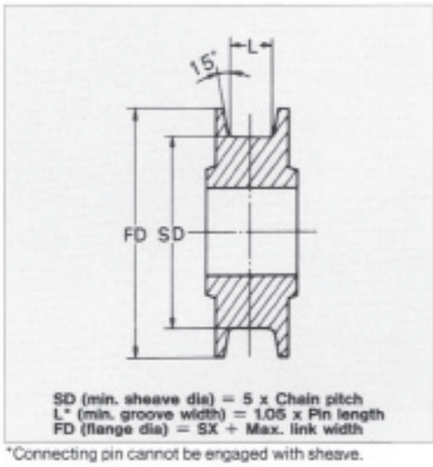
Attaching of Chains and Clevises

1.When clevise is outer link or connecting link:
Outer link connector and connecting link (standard) are used.

2.When clevise is inner link:
Inner link connector and connecting pin (with dimension "W") are used.

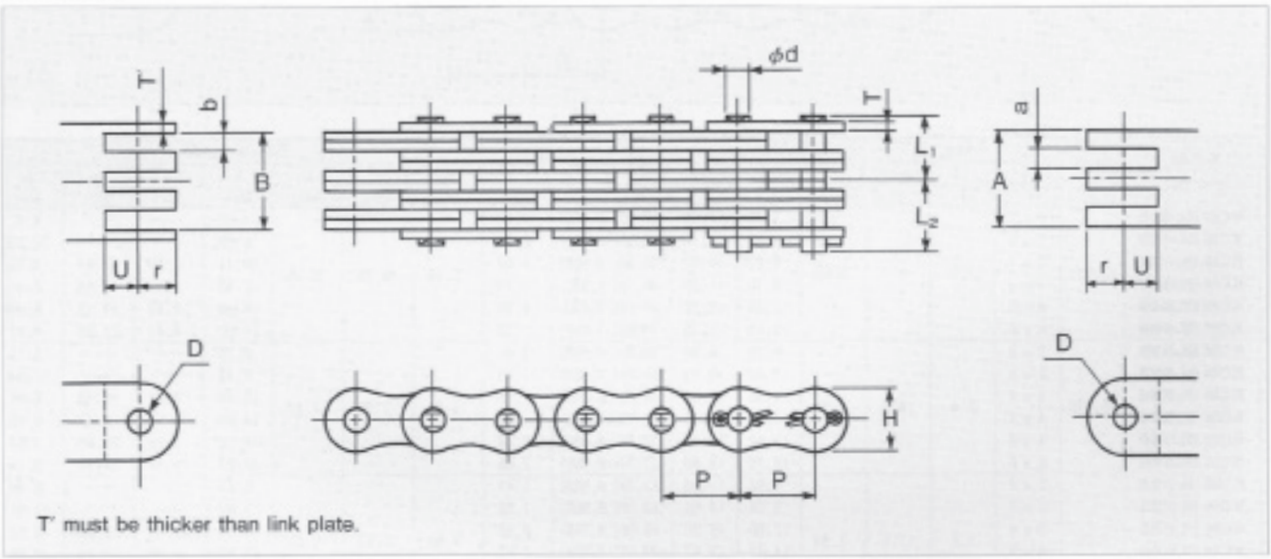


Sheave



*Connecting pin cannot be engaged with sheave.

AL Series



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.

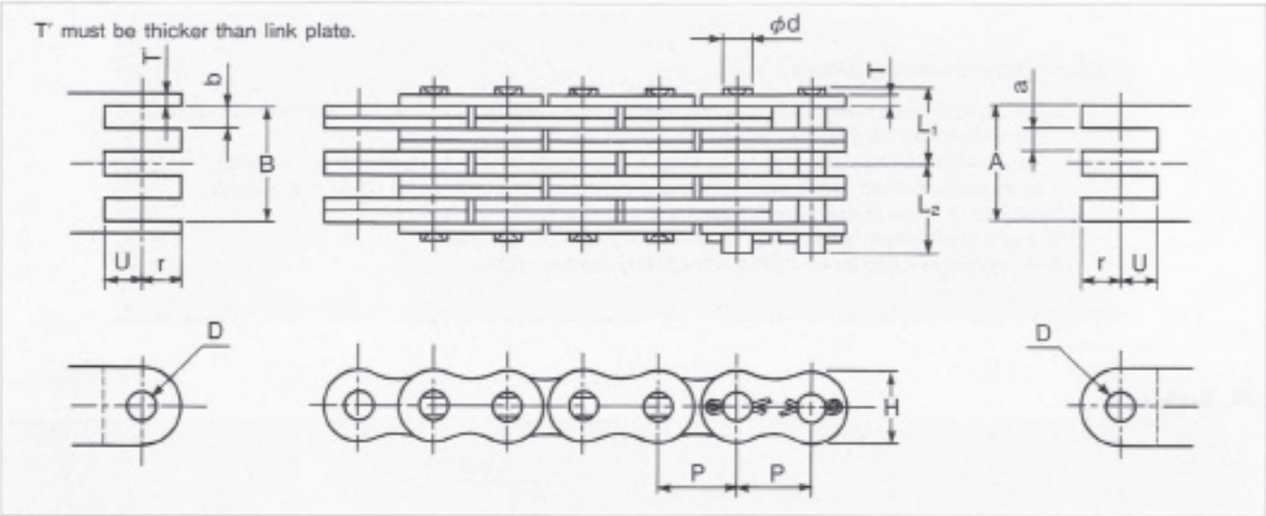
- Recommended oil: SAE30-SAE40
- Lubrication intervals: Determined to keep lubricant left between pin inner link plate.
- Lubrication method: Lubrication into keep space between link plates when chain is loosened.

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.

BL Series



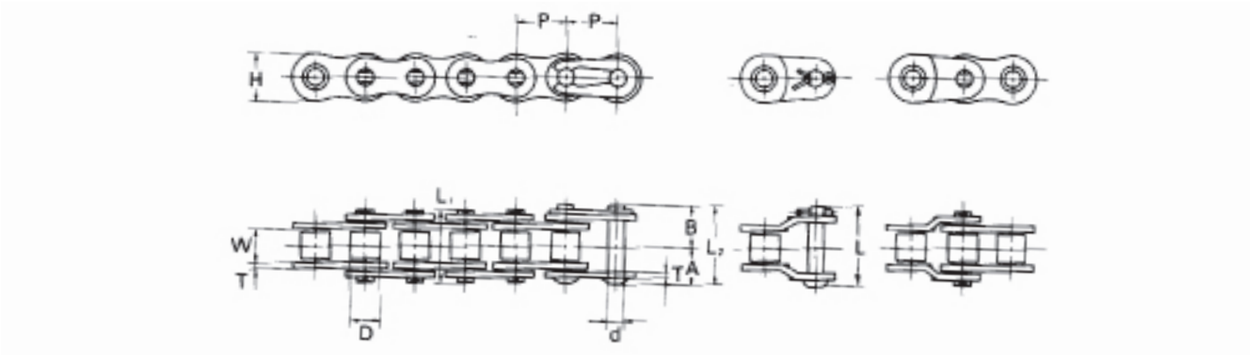
KCM Chain No.	Pitch P	Plate			Pin			Min.Tensile Strength Kn(kgf)"	1-m chain weight (kg)	End Connector						
		Lacing	Thick-ness T	Height H	Outside diameter d	Caulked L1	Pinned L2			D Min.	r Max.	U Min.	A Max.	a Min.	B Min.	b Min.
BL434	12.7	3×4	2.00	11.7	5.09	8.27	10.23	35.30(3,600)	1.02	5.12	6.35	6.35	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)

Motorcycle Chain

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.

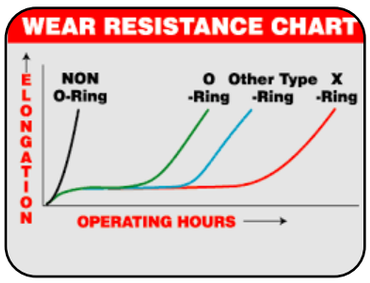


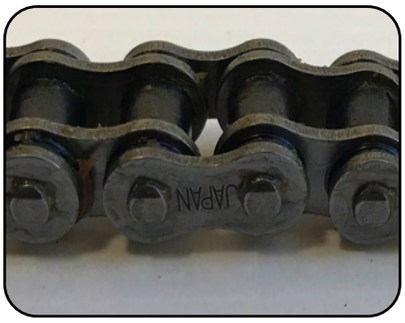
KCM Chain No.	Pitch P	Width between Inner Plates W	Roller Dia. D	PIN				Link Plate		Average tensile strength kgf KN (kgf)	Maximum Allowable Load KN (kgf)	Approx weight (kg/m)
				diameter d	B	(A+A) L1	(A+B) L1	Thickness T	Heights H			
410	12.70	3.40	7.75	3.64	6.05	9.30	10.70	1.0	9.5	1 000 (9.81)	-	0.28
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 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 15 % lower than that of standard steel chain (see next page)
- Operating range: −10˚C to +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)

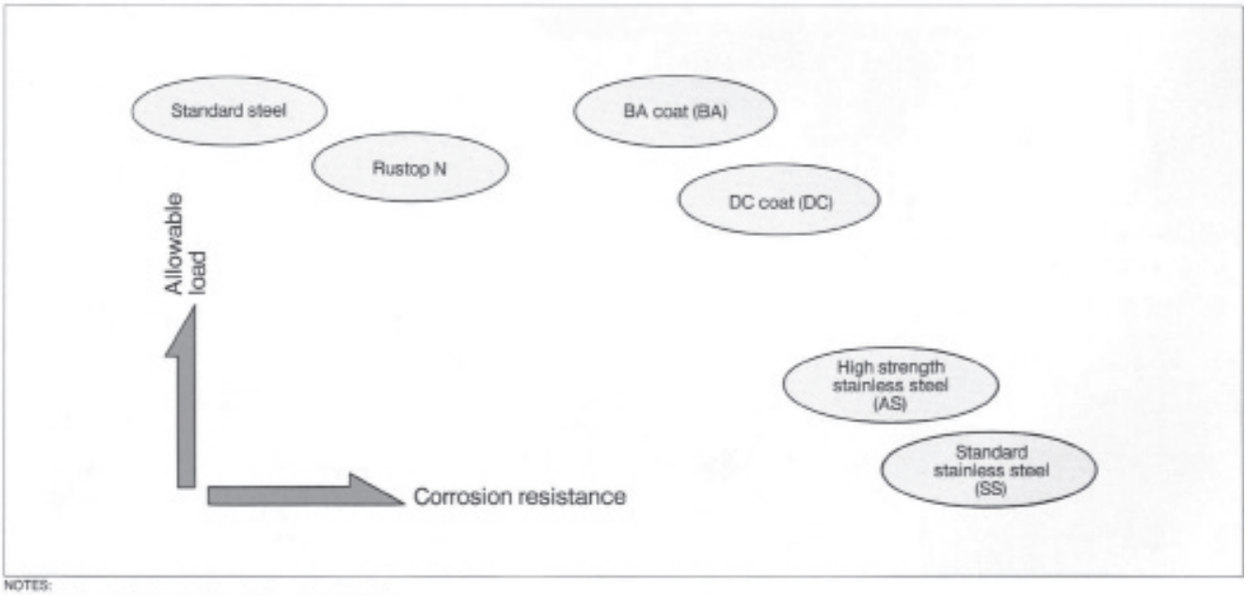
Special mechanical surface treatment. Matte dark gray finish.

- 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 −10˚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)

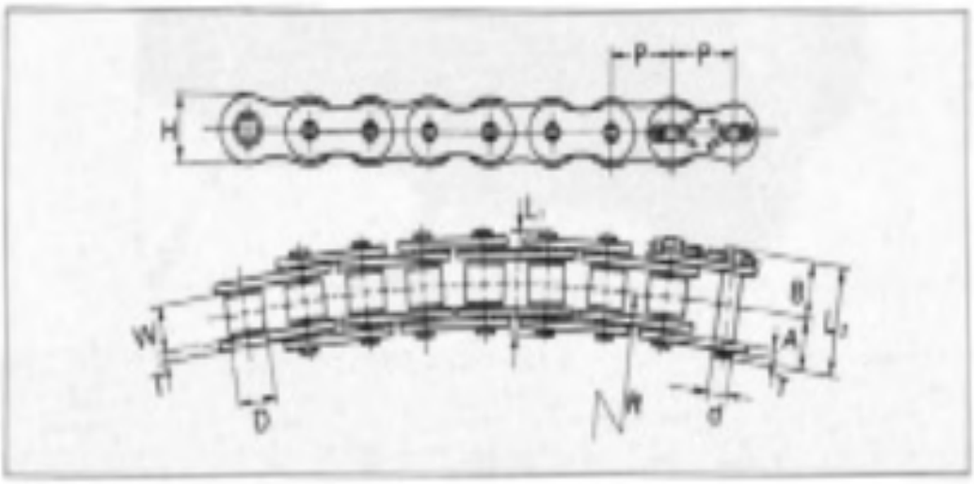
Dimensions (Millimeters)



NOTES:
1.This chart is graphical presentation, not showing actual ratios.
2.Corrosion resistance varies depending on operating conditions.

Side Bow Chain

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.

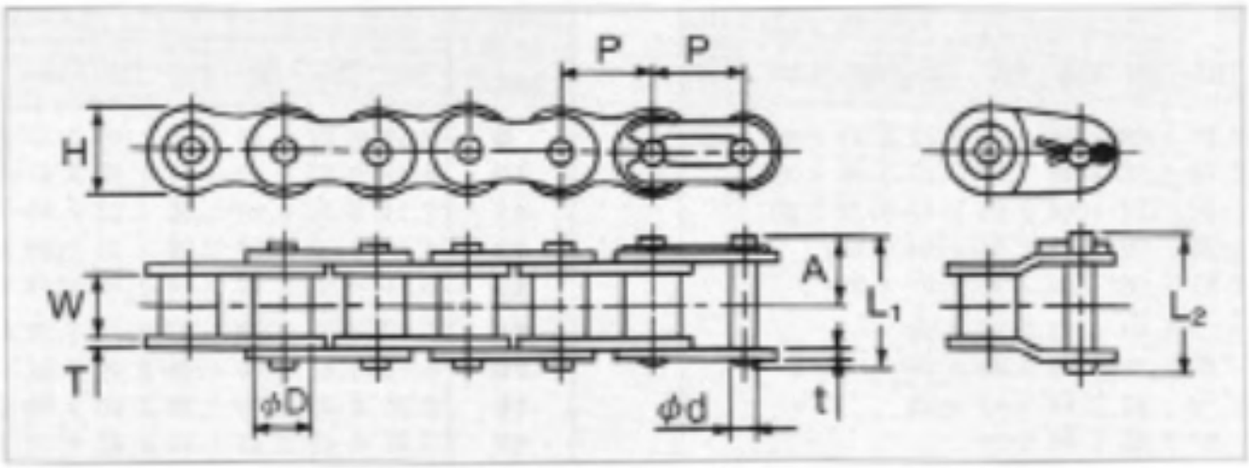


KCM Chain No.	Pitch P	Width between Inner Plates W	Roller Dia. D	PIN					Link Plate		Average tensile strength kgf KN (kgf)	Maximum allowable Load KN (kgf)	Approx weight (kg/m)	Links of 1 Unit
				diameter d	A	B	(A+A) L1	(A+B) L1	Thick-ness T	Heights H				
40 SB	12.70	7.95	7.95	3.97	8.02	9.53	16.06	17.55	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

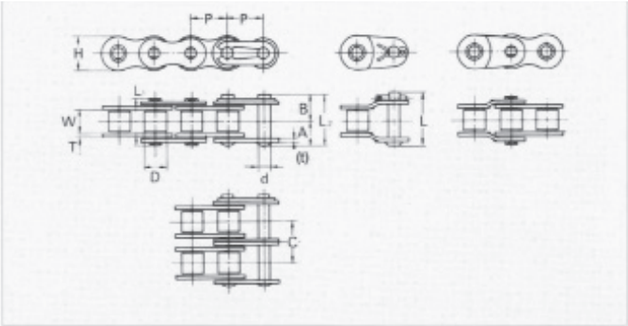
Dimensions (Millimeters)

Stainless Steel Chain - BS & ANSI

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 SS-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 SS-2					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

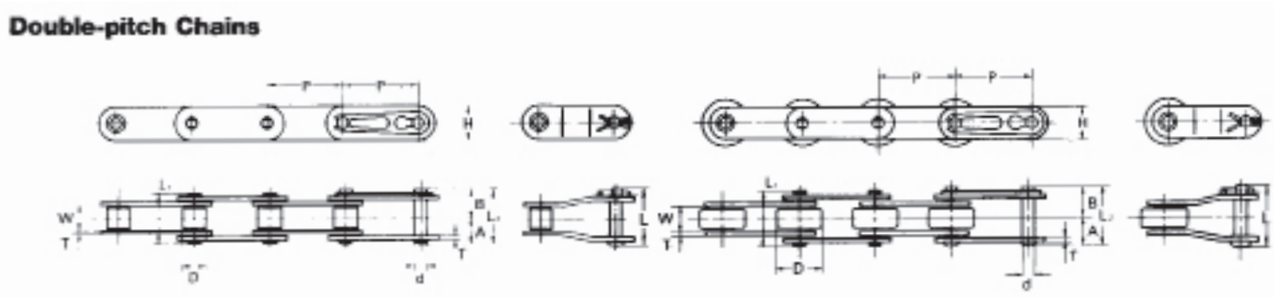
Dimensions (Millimeters)

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
				diam-eter d	A	B	(A+A) L1	(A+B) L2	Offset L	Thick-ness 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)

Double-pitch Chains



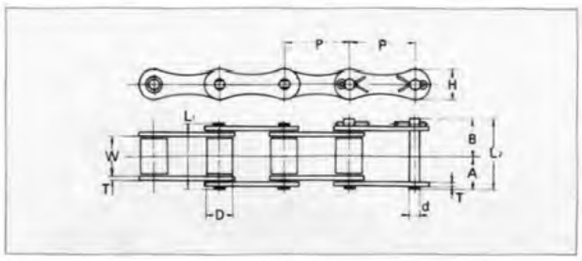
KCM Chain No.	Pitch P	Width between Inner Plates W	Roller Dia. D	PIN						Link Plate		Max. Allowable Load kN (kgf)	Approx. Weight (kg/m)	Links of Dia. 1 unit
				Diameter d	A	B	(A+A) L1	(A+B) L1	Offset L	Thick-ness T	Height H			
C2040 SS	25.40	7.95	7.92	3.97	8.07	10.28	16.15	18.35	19.05	1.5	11.7	45(0.44)	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)

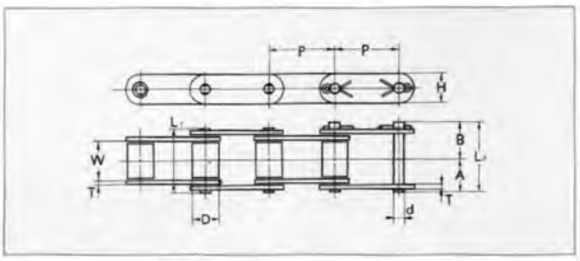
A & CA Type Roller Chains

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.

A Type



CA Type



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

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	240
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	
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	

⚠ CAUTIONS (For Safe Operation)

- Always wear (proper) clothing and protective equipment (safety goggles and (proper) shoes) appropriate to the job.
- Pay attention to safety of work crew 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)

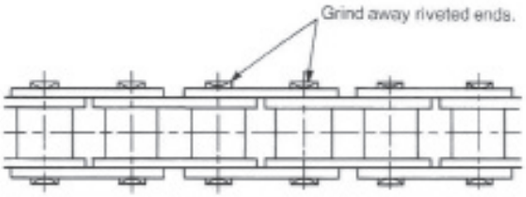
1.To shorten a chain to an appropriate length, use a proper jig, and employ a method appropriate to the structure of a chain.
It is recommended to use an exclusive jig.

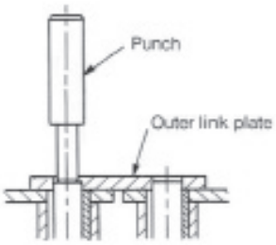
2.To shorten a riveted chain, grind away riveted ends of a pair of rivets in the same link (on the same side).

3.Place a punch at ground end of a rivet, and strike a punch with a hammer. Be careful to hit two pins alternately.
If pin is withdrawn without grinding off riveted end, a chain will be damaged.
Grind away riveted ends.

4.After withdrawing pins, check to see if bushings are set correctly. If bushings are protruded, smooth power transmission cannot be achieved or strength of a chain is reduced.

5.Do not reuse the removed parts.

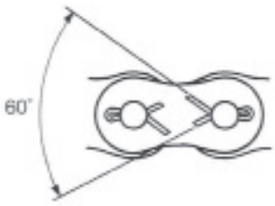


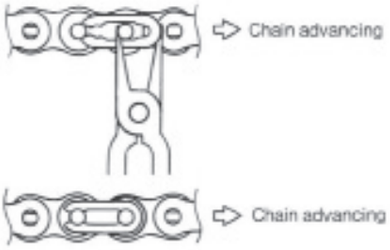


Connection (Installation to Equipment)

1.Confirm that sprocket shafts are parallel and level, and misalignment of sprockets is within tolerance.
2.Insert a connecting link between both ends (inner links) of a chain. In this case, this connection can be easily made when a chain is engaged with sprockets.
3.When inserting a connecting link, it is important that split pin hole or clip groove is exposed over a connecting link.
4.Install a split pin and clip.

- Open ends of split pin at 60° as shown.
- Install a clip in direction opposite to chain advancing.





- **Use genuine split pins or a clip.**
- **Note that connecting link will be disengaged in case of improper installation. Causing injury to people or equipment damage.**

Proper slack "S" is determined by the following equation.

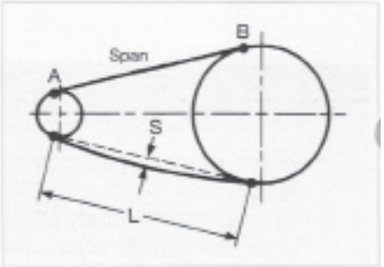
$S = 0.02L$

where, L is span

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

In the following cases, determine slack "S" by the equation of $S \leq 0.01L$.

- Vertical arrangement
- Upper side of chain is slackened.
- Shaft-to-shaft distance exceeds 50 times pitch.
- Vibration or impact is present.
- Chain starts and stops frequently.
- Forward/reverse movements are repeated frequently.
- Speed change ratio exceeds 7:1.



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

⚠ CAUTIONS (Remanufacturing and additional manfacturing 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
Engagement	Check if sprocket is engaged correctly and slack is proper.
Link connection	Check if links are connected correctly and parts are firmly seated.
Interference	Check if there is any part or equipment that interferes with chain or any part that will be shattered.
Lubricant	Check if lubrication is proper.
Safety cover	Check if proper safety cover is installed.
Peripheral equipment	Check if peripheral equipment is installed.

Lubrication

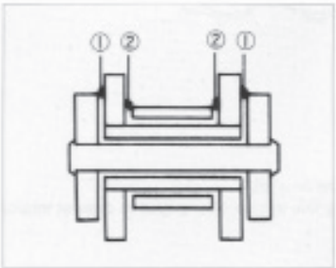
Roller chain lubricated with oil or grease will splash at the start of operation. To avoid splashing of lubricant on clothing and skin, stand an appropriate distance away upon start up.

- Insufficient lubrication of chain will promote wear of pins and bushings due to dry friction. This will result in elongation of chain and poor performance of chain. To ensure service life of chain, choose the right lubricant and lubrication method to meet operating requirements. For correct chain selection when no lubrication is allowed, contact us or our dealer.

Lubricating Points:

①Clearances between inner and outer links
(to avoid elongation of chain)

②Clearances between rollers and inner links
(to reduce wear of bushings and rollers, to avoid their breakage, and to suppress noise)



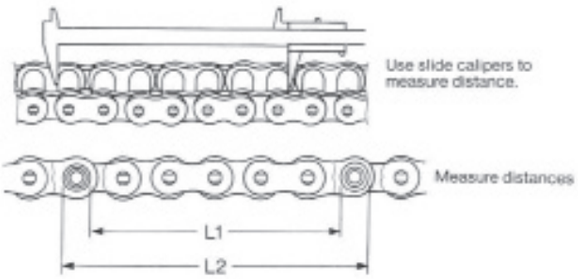
Inspection and maintenance are required to avoid trouble and keep power transmission ability.

Inspection Items and measures to Trouble

Inspection Items	Measures to Troubles
Harmful flaw or rust	Harmful flaw or rust will reduce strength. Early replacement is recommended.
Slack of chain	Adjust shaft-to-shaft distance if slack is improper. If it is found, by measuring of elongation, that service life of chain is expired, change chain
Rotation of pin (incorrect caulking position)	Possible cause is overloading. Review operating conditions. Do not use a chain with a bent pin.
Uneven wear of roller	Possible cause is poor rotation of rollers. Find cause of trouble. Change chain.
Insufficient movement of chain	Review power transmission conditions and lubrication method.
Lubrication of chain	Lubricate by correct lubrication method.

Elongation Measuring Method and Chain Replacement Timing

1.Measuring Chain Elongation



- Measure distances L1 and L2 with chain lightly loaded.
- Measure distance over 6 to 10 links to reduce measuring errors.
- Elongation of chain is determined by the following equation.

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

$$\text{Reference chain length} = \text{Pitch} \times \text{Number of links measured}$$

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

2.Chain Replacement Timing

Guideline for chain replacement, based on elongation of chain, is listed below.

Number of large sprocket teeth	Elongation (%)
60 or fewer	1.5
61 – 80	1.2
81 – 100	1.0
101 or more	0.8

- Listed data is applicable when take-up is possible, or when equipped with tensioner or idler.
- Shaft-to-shaft distance is fixed, guideline for elongation is 0.5% to 0.7%.
- When changing a chain, inspect sprockets.
  Worn-out sprocket will adversely affect chain, performance.

NOTE: Service life of chains varies depending on number of sprocket teeth, lubrication, operating environment, and other conditions, even though they are the same dimensions and type.

⚠ 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.

- Specifications in this bulletin are described, on condition of normal use in ordinary operating environment (−10°C to +60°C).
- For more details, contact us or our dealers.

Lubrication

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.

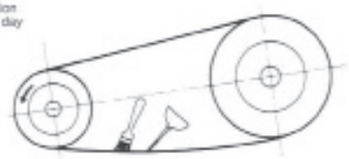
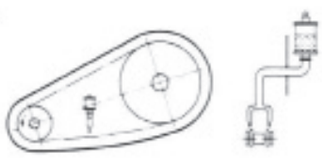
Effect of Lubrication

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.

Recommended Lubricants

Lubrication method	A - B				C			
Temp (℃) / KCM chain NO.	−10～0	0～40	40～50	50～60	−10～0	0～40	40～50	50～60
KCM25－50	SAE10W	SAE20W	SAE30	SAE40	SAE10W	SAE20W	SAE30	SAE40
KCM60～80	SAE20W	SAE30	SAE40	SAE50				
KCM100					SAE20W	SAE30	SAE40	SAE50
KCM120以上	SAE30	SAE40	SAE50					

Lubrication Methods (These also appear in Power Transmission Capacity tables)

Lubrication method	Illustration	Lubrication intervals and Lubricant amount	Remarks
A	Manual lubrication once a day 	Periodic lubrication using oil feeder or brush, at least on full roller	Feed lubricant to chain while turning it slowly. Here, continuously apply oil 3 to 4 times on full roller chain length. Also, take care that your hand or cloth is not caught by chain drive. At start of lubrication, be careful that excessive oil will not splash.
	Drip lubrication 	Supply oil at 5 to 30 oil drops per minute.	It is recommended to provide simple casing against oil splash.
B	Oil bath lubrication 	Chain is submerged in oil at depth of 10mm.	Be careful to completely clean inside oil container before use to remove foreign matter such as dirt. Also, pay attention to oil temperature.
	Rotating disc lubrication 	Rotating disc splashes oil on roller chain. Disc submerging depth is about 20mm, and its circumferential speed is 200m min or higher.	
C	Forced circulation lubrication  oil pump	It is required to maintain proper oil amount to avoid overheating.	Be careful to completely clean inside oil container before use to remove foreign matter such as dirt.

FINERPOWER TRANSMISSIONS

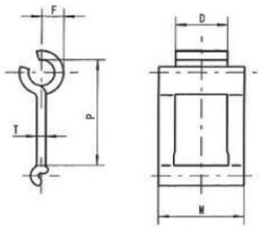
AGRI-POWER ROLLER CHAIN

SSP CHAIN

SSP - Agri-Power Engineered Chains

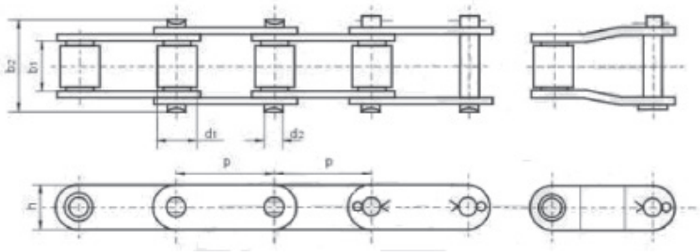
SSP - Agri-Power Engineered Chains

Detachable Chain



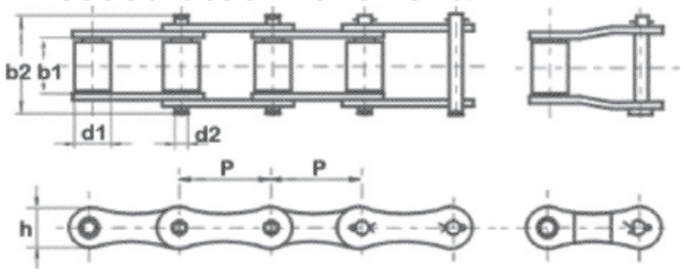
Chain No	Pitch	D	F	M	T	Tensile strength	Weight per meter
	(mm)					(KN)	(kg/m)
S25 DET	22.96	10.72	4.572	17.8	1.854	3.382	0.30
S32 DET	29.39	15.09	5.842	23.8	2.286	5.874	0.48
S42 DET	34.93	-	-	-	-	-	-
S51 DET	28.78	17.86	5.893	27.8	2.540	7.496	0.60
S52 DET	38.30	21.44	7.696	35.7	2.048	9.612	0.983
S55 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

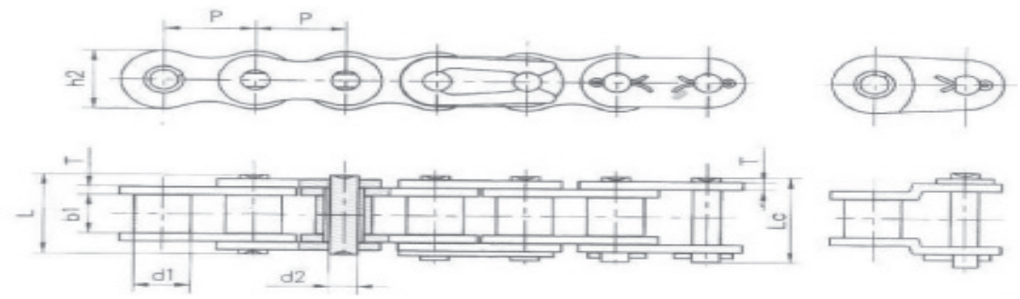


DIN ISO Chain No	Pitch	d1 max	b1 min	H max	d2 max	b2 max	Min. T.S	A.T.S	Weight
	mm	mm	mm	mm	mm	mm	kN	kN	kg/m
CA550	41.4	16.66	19.81	19.30	7.19	35.00	39.10	51.20	1.94
CA557	41.40	17.78	20.24	23.10	7.92	37.10	55.60	66.72	2.623

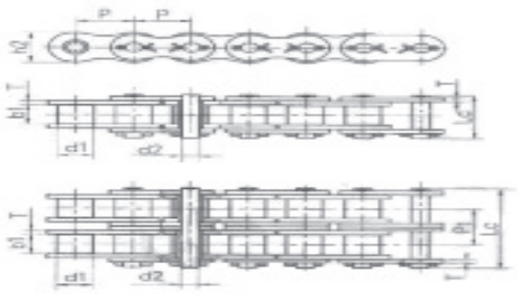
Pressed Steel Roller Chain

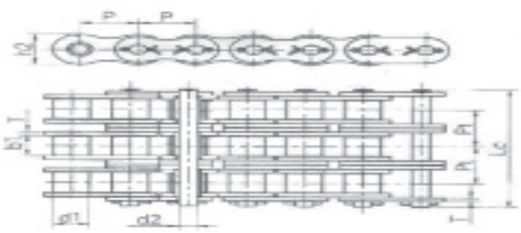


Chain	Pitch	d1	b1	h	d2	b2	U.T.S KN	A.T.S KN	KG/ft
S32	29.21	11.43	15.88	13.4	4.45	26.7	8	9.6	0.28
S42	34.96	14.27	19.05	-	-	-	-	-	-
S52	38.1	15.24	22.23	17.2	5.74	36.9	17.8	21.36	0.55
S55	41.4	17.78	22.23	17.2	5.74	36.9	17.8	21.36	0.57
S62	41.91	19.05	25.4	17.2	5.74	40	26.7	32.04	0.66
S77	58.34	18.26	22.23	-	-	-	-	-	-



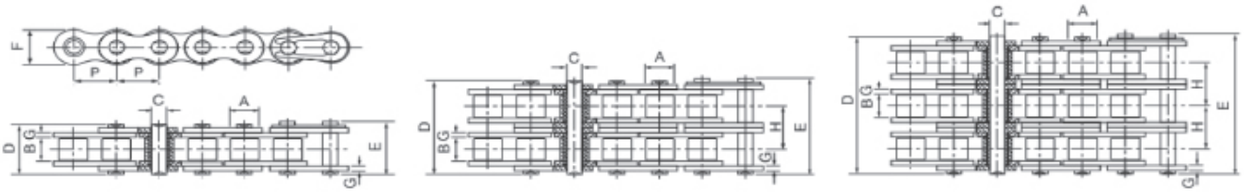
Chain No.	Pitch	Roller diameter	Width between inner plates	Pin diameter	Pin length		Inner plate depth	Plate thickness	Ultimate tensile strength	Average tensile strength	Weight per meter
	p	d1 max	b1 min	d2 max	L max	Lc max	h2 max	T max			
	mm	mm	mm	mm	mm	mm	mm	mm	kN/LB	kN	kg/m
40-1	12.70	7.95	7.85	3.96	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





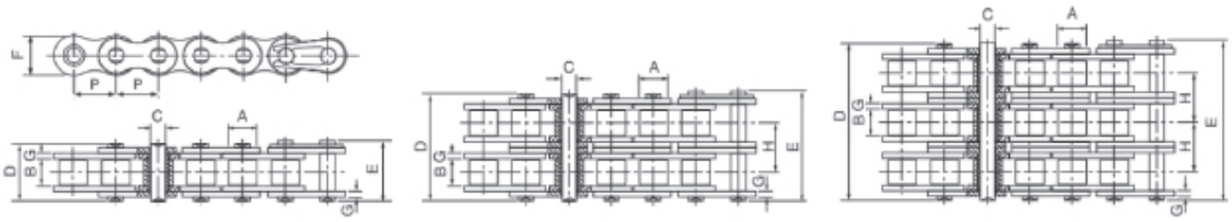
Chain No.	Pitch	Roller diameter	Width between inner plates	Pin diameter	Pin length	Inner plate depth	Plate thickness	Ultimate tensile strength	Average tensile strength	Weight per meter
	p	d1 max	b1 min	d2 max	L max	h2 max	T max			
	mm	mm	mm	mm	mm	mm	mm	kN/LB	kN	kg/m
50H	15.875	10.16	9.40	5.08	24.4	15.09	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

ANSI Roller Chain



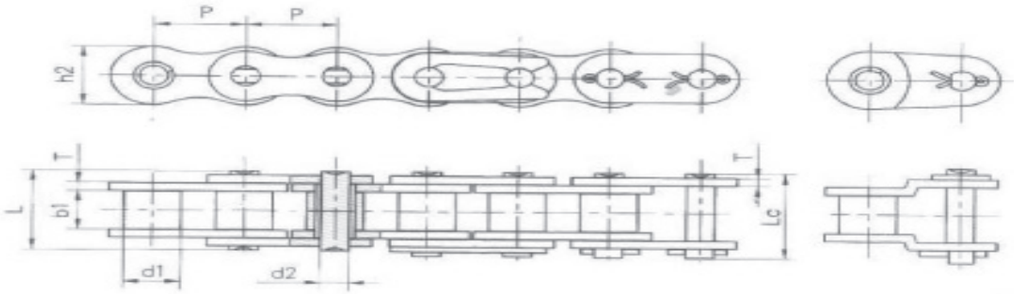
ISO Chain No.	Pitch	Roller diameter	Width between inner plates	Pin diameter	Pin length		Inner plate height	Plate thickness	Transverse pitch	Minimum tensile strength	Average tensile strength	Weight per meter
	P	A	B	C	D	E	F	g/G	H			
	mm	mm	mm	mm	mm	mm	mm	mm	mm	kN	kN	kg/m
SIMPLEX												
25-1	6.350	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

ANSI Heavy Series Chain



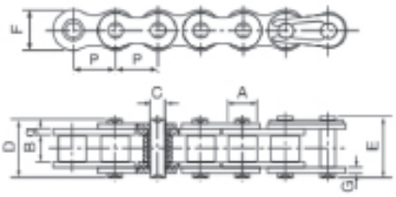
ISO Chain No.	Pitch	Roller diameter	Width between inner plates	Pin diameter	Pin length		Inner plate height	Plate thickness	Transverse pitch	Minimum tensile strength	Average tensile strength	Weight per meter
	P	A	B	C	D	E	F	g/G	H			
	mm	mm	mm	mm	mm	mm	mm	6.35	mm	kN	kN	kg/m
25H-1	6.35	3.3	3.18	2.310	-	-	-	-	-	-	-	-
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

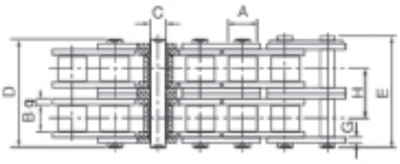
Motorcycle Chain

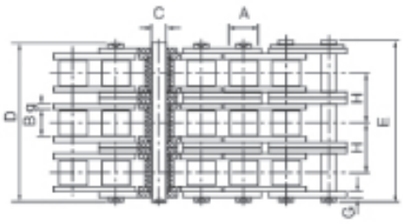


Chain No.	Pitch	Roller diameter	Width between inner plates	Pin diameter	Pin length		Inner plate depth	Plate thickness	Minimum tensile strength	Average tensile strength	Weight per meter
	p	d1 max	b1 min	d2 max	L max	Lc max	h2 max	T max			
415H	12.7	7.77	4.76	3.97	12.8	14.3	11.7	1.5	6.86	7.6	0.32

BS Roller Chain



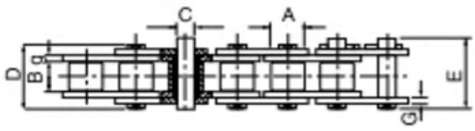


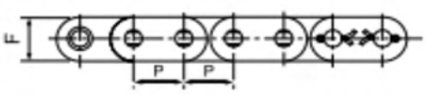


ISO Chain No.	Pitch	Roller diameter	Width between inner plates	Pin diameter	Pin length		Inner plate height	Plate thickness	Transverse pitch	Minimum tensile strength	Average tensile strength	Weight per meter
	P	A	B	C	D	E	F	g/G	H			
	mm	mm	mm	mm	mm	mm	mm	mm	mm	kN	kN	kg/m
SIMPLEX												
05B-1	8.000	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

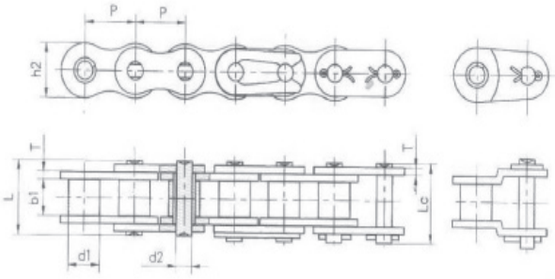
Straight Side Plate Chain

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

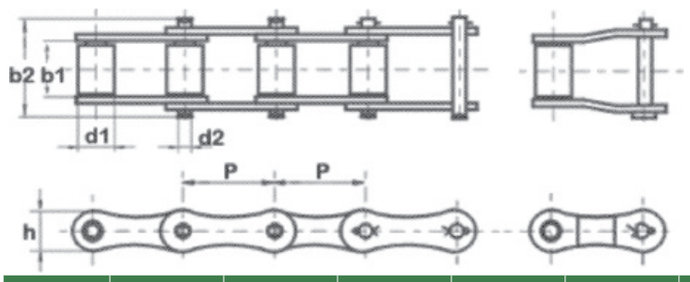


Chain No.	Reel Length	Pitch	Roller diameter	Width between inner plates	Pin diameter	Pin length		Inner plate depth	Plate thickness	Minimum tensile strength	Average tensile strength	Weight per meter
		p	d1 max	b1 min	d2 max	L max	Lc max	h2 max	T max			
	ft	mm	mm	mm	mm	mm	mm	mm	mm	kN/LB	kN	kg/m
40-1	100	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

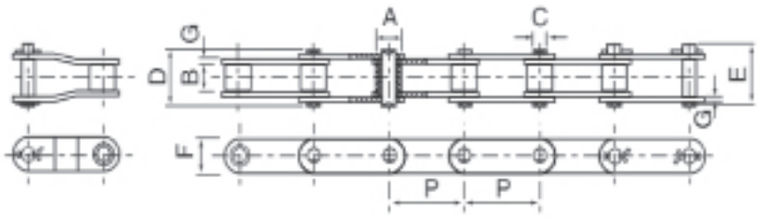
Chain No.	Reel Length	Pitch	Roller diameter	Width between inner plates	Pin diameter	Pin length		Inner plate height	Plate thickness	Minimum tensile strength	Average tensile strength	Weight per meter
		p	d1 max	b1 min	d2 max	L max	Lc max	h2 max	T max			
	ft	mm	mm	mm	mm	mm	mm	mm	kN/LB	kN	kN	kg/m
60H	50	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

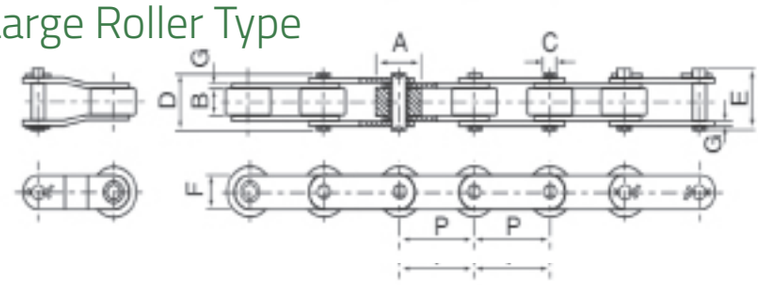


Chain No.	Reel Length	Pitch	d1	b1	h	d2	b2	U.T.S KN	A.T.S KN	KG/ft
S32	100	29.21	11.43	15.88	13.4	4.45	26.7	8	9.6	0.28

Small Roller Type



Large Roller Type

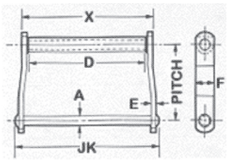


ANSI Chain No.	Pitch	Roller diameter	Width between inner plates	Pin diameter	Pin length		Inner plate height	Plate thickness	Minimum tensile strength	Average tensile strength	Weight per meter
	P	A	B	C	D	E	F	G			
	mm	mm	mm	mm	mm	mm	mm	mm	kN	kN	kg/m
C2040	25.40	7.95	7.85	3.96	16.60	17.80	12.00	1.50	14.10	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

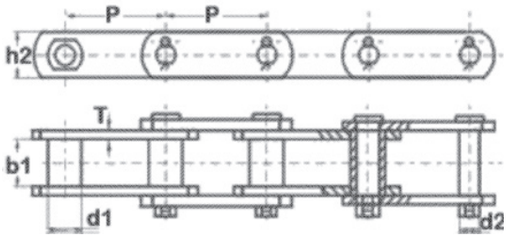
DIN ISO Chain No.	Pitch		d1 max	b1 min	d2 max	h2 max	L max	Lc max	Min.T.S	A.T.S	Weight
	mm	mm	mm	mm	mm	mm	mm	mm	KN	KN	kg/m
208B	25.4	1"	8.51	7.75	4.45	11.80	17.00	16.70	18.00	19.40	0.45
212B	38.10	1"1/2	12.07	11.68	5.72	16.10	22.45	23.40	29.00	32.20	0.78

Drag Chain



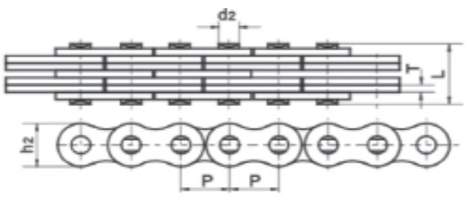
Chain	Pitch mm	Pitch inch	JK	X	A	E	D	F	Rated Working Load Lbs	A.T.S Lbs	App Kg/ft
WD110	152.40	6	301.62	263.52	19.05	9.52	228.60	38.10	8,500	51,000	5.46

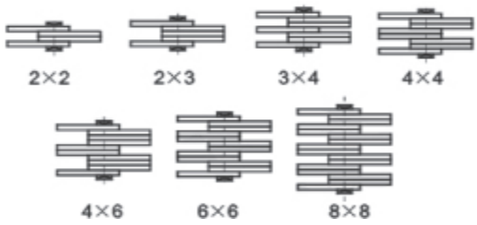
Engineered Steel Bushing Chain



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	-	-

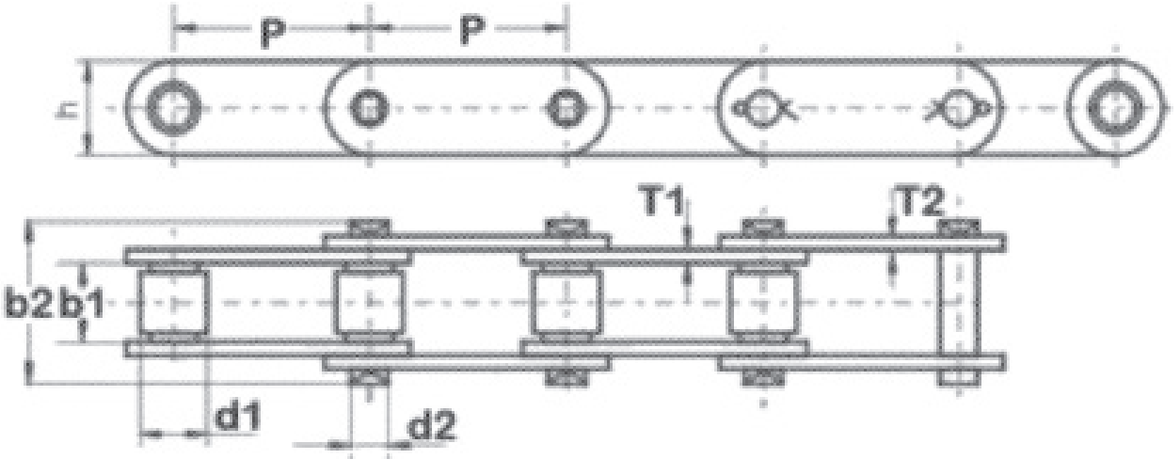
BL Series Leaf Chain





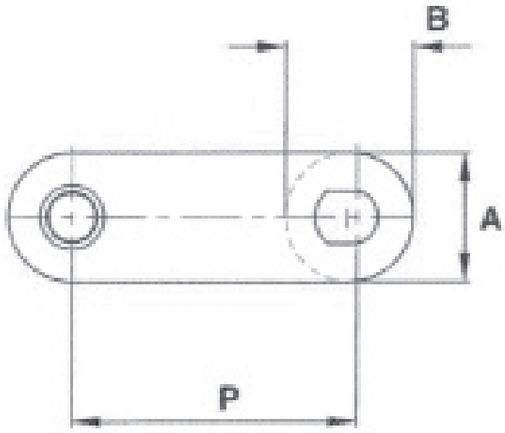
Chain	Pitch	Lacing	h2	T	d2	L	Min. TS KN	ATS KN	Kg/ft
BL523	15.88	2x3	15.09	2.44	5.96	17.42	33.4	43.10	0.36
BL534	15.88	3x4	15.09	2.44	5.96	20.20	48.9	63.6	0.49
BL623	19.05	2x3	18.11	3.3	7.94	22.2	48.9	63.6	0.60
BL634	19.05	3x4	18.11	3.30	7.94	27.43	75.6	102.6	0.76
BL646	19.05	4x6	18.11	3.3	7.94	37.67	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	-	-	-	-	-	-

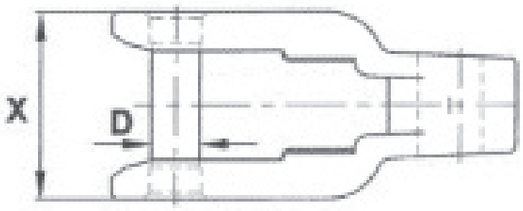
Lumber Conveyor Chain



Chain	Pitch	b1	d1	h1	T1	T2	d2	b2	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

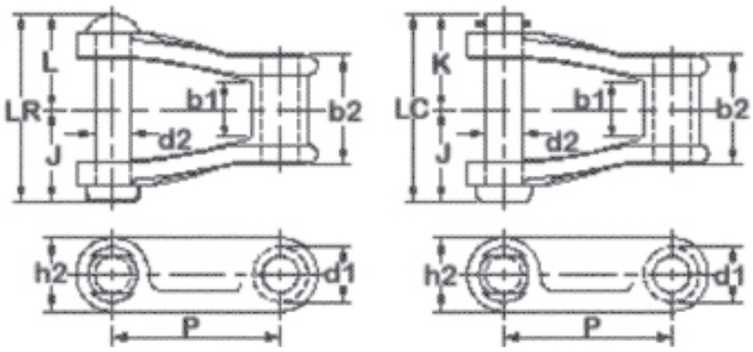
Milk Crate Chain





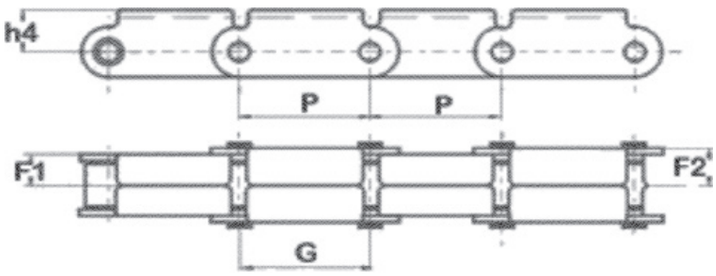
Chain	Pitch	X	D	B	A	Max. Load Lbs	U.T.S Lbs	App. Kg/ft
CC600	64	43	11	13	29	1,850	3,400	0. 6

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

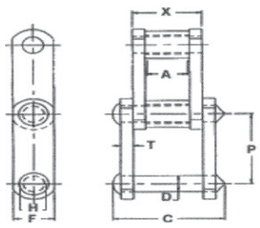
Roof Top Chain



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

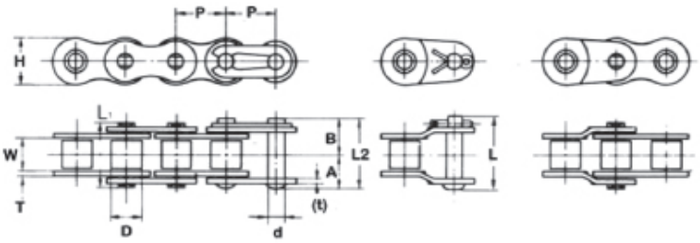
Combination Chain

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



Finer Power Transmissions stocks a range of economy Stainless Steel chain in British Standard, American Standard and 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 chain is food grade quality.

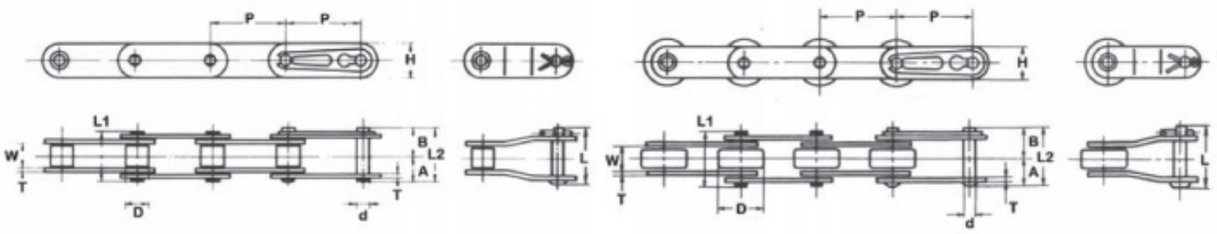


BS Stainless Steel Chain

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

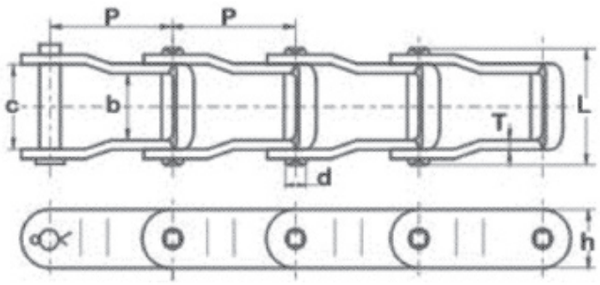
Chain	Pitch (P)	Inner Width (W)	Roller Dia. (D)	Pin						Offset		App. Kg/ft	Links Of 1 Unit
				Dia. (d)	A	B	(A+A) L1	(A+B) L2	Offset (L)	Thickness (T)	Height (H)		
40-1SS	12.70	7.95	7.95	3.97	8.07	9.48	16.15	17.55	19.05	1.5	11.7	0.19	240
50-1SS	15.875	9.53	10.16	5.09	10.17	11.63	20.35	21.80	23.05	2.0	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

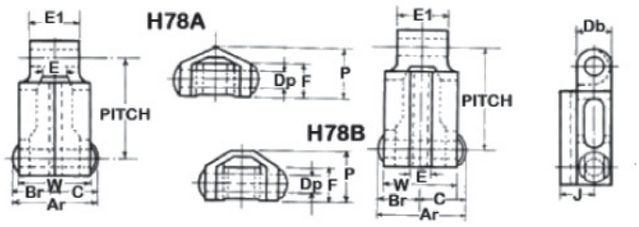
Chain	Pitch (P)	Inner Width (W)	Roller Dia. (D)	Pin						Offset		App. Kg/ft	Links Of 1 Unit
				Dia. (d)	A	B	(A+A) L1	(A+B) L2	Offset (L)	Thickness (T)	Height (H)		
C2040SS	25.40	7.95	7.95	3.97	8.07	10.28	16.15	18.35	19.05	1.5	11.7	0.15	120
C2042SS			15.88									.25	
C2050SS	31.75	9.53	10.16	5.09	10.17	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



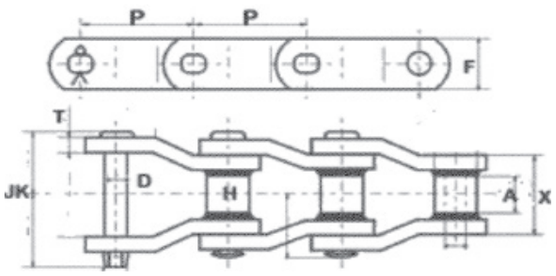
Chain	Pitch	c	b	h	T	d	L	U.T.S KN	A.T.S KN	Kg/ft
662K	42.27	30.50	23.20	18.30	3.2	7.16	41.3	37.80	45.360	0.49
667K	57.15	39.20	27.80	26.80	5.1	11.10	55.5	88.90	106.68	1.10
88K	66.27	39.20	27.80	26.80	5.1	11.10	55.55	88.90	106.68	1.08

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

FINERPOWER TRANSMISSIONS

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 Quick Reference Chart

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 Quick Reference Chart

FINERPOWER TRANSMISSIONS

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 Quick Reference Chart

FINERPOWER TRANSMISSIONS

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 Quick Reference Chart

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

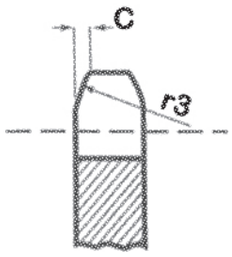
FINERPOWER TRANSMISSIONS

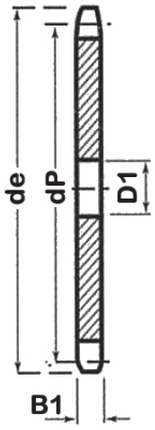
Aetna

Sprockets & Idler Sprockets

Sprockets & Idler Sprockets

40-1 Plate Wheel



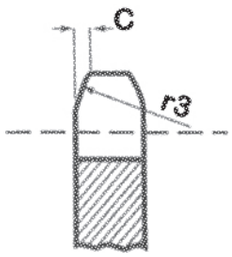


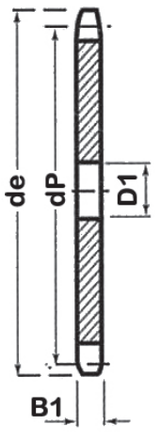
Teeth	de	dp	D1	App. Kg
15	67.2	61.09	10	OA
21	91.3	85.22	14	OA
42	176.6	169.95	16	1.13
48	200.8	194.18	20	1.46
50	208.9	202.26	20	1.70
55	229.1	222.46	20	2.08
60	249.3	242.66	20	2.13
65	269.5	262.86	20	2.25
70	289.7	283.07	25	3.28
72	297.8	291.16	25	3.51
76	313.9	307.33	25	3.70

Pinions	mm
Tooth Radius r3	OA
Radius Width C	OA
Tooth Width B1	7.2

Chain	mm
Pitch	12.7
Inside	7.92
Roller ø	7.92

60-1 Plate Wheel





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

Pinions-	mm
Tooth Radius r3	OA
Radius Width C	OA
Tooth Width B1	11.7

Chain	mm
Pitch	19.05
Inside	12.7
Roller ø	11.91

80-1 Plate Wheel

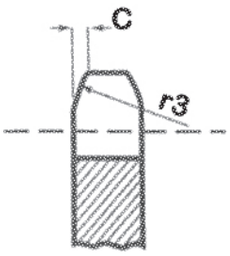
Teeth	de	dp	D1	App. Kg
17	150	138.22	20	OA

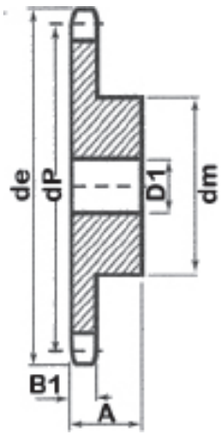
ASA Pilot Bore Sprockets

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



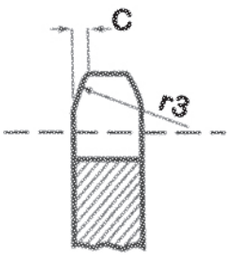


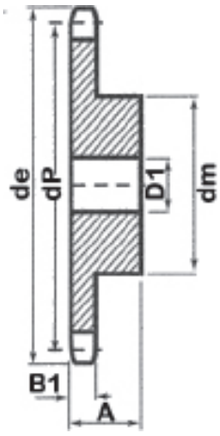
Pinions	mm
Tooth Radius r3	OA
Radius Width C	OA
Tooth Width B1	2.9

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	54.6	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



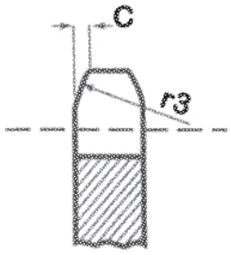


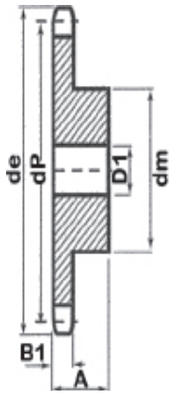
Pinions	mm
Tooth Radius r3	OA
Radius Width C	OA
Tooth Width B1	4.3

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



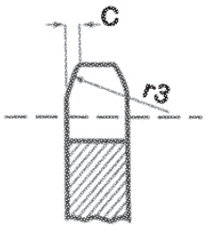


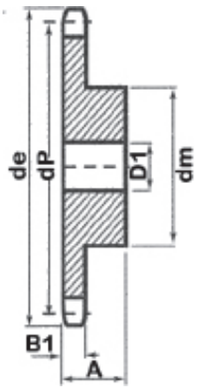
Pinions	mm
Tooth Radius r3	OA
Radius Width C	OA
Tooth Width B1	7.2

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

60-1 Sprocket



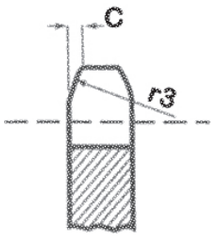


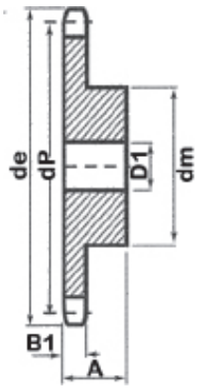
Pinions	mm
Tooth Radius r3	OA
Radius Width C	OA
Tooth Width B1	11.6

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



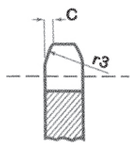


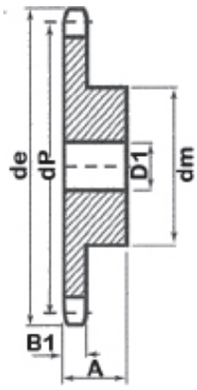
Pinions	mm
Tooth Radius r3	OA
Radius Width C	OA
Tooth Width B1	14.6
Tooth Width b1	OA

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
18	157.8	146.28	100	20	45	3.77
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



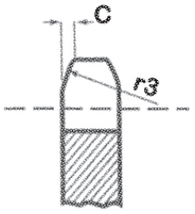


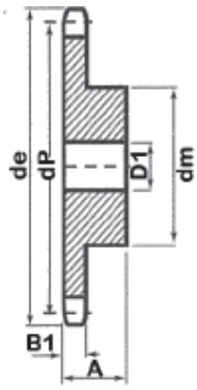
Pinions	mm
Tooth Radius r3	OA
Radius Width C	OA
Tooth Width B1	OA
Tooth Width b1	OA

Chain	mm
Pitch	OA
Inside	OA
Roller ø	OA

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	192.91	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	OA	OA	OA
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	OA
Radius Width C	OA
Tooth Width B1	OA
Tooth Width b1	OA

Chain	mm
Pitch	OA
Inside	OA
Roller ø	OA

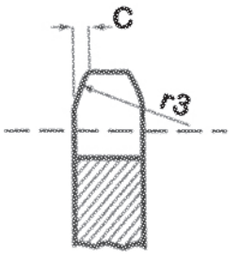
Teeth	de	dp	Simplex		
			dm	D1	A
9	130.88	111.4	70	20	45
10	142.77	123.29	80	20	45
11	154.71	135.21	90	25	50
12	166.69	147.22	102	25	50
13	178.68	159.18	114	25	50
14	190.7	171.22	128	25	50
15	202.73	183.26	140	25	50
16	214.77	195.29	136	25	55
17	226.83	207.35	140	25	55
18	238.89	219.41	140	25	55
19	245.5	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	323.47	303.99	150	30	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

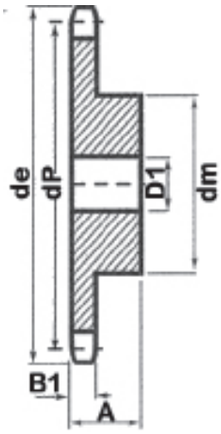
BS Pilot Bore Sprockets

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



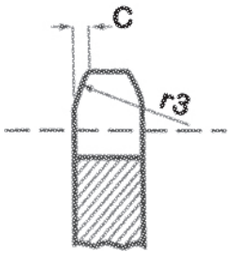


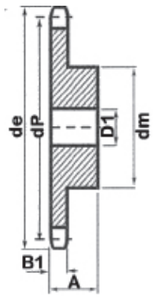
Pinions	mm
Tooth Radius r3	8
Radius Width C	1
Tooth Width B1	2.8
Tooth Width b1	2.7

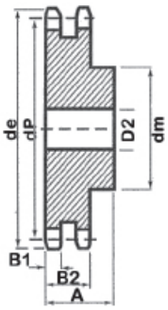
Chain	mm
Pitch	8
Inside	3
Roller ø	5

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







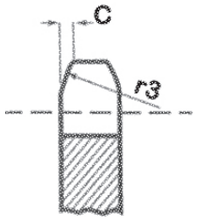
Pinions	mm
Tooth Radius r3	10
Radius Width C	1
Tooth Width B1	5.3
Tooth Width b1	5.2
Tooth Width B2	15.4

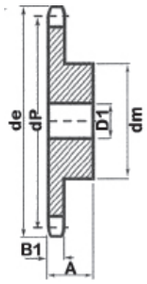
Chain	mm
Pitch	9.53
Inside	5.72
Roller ø	6.35

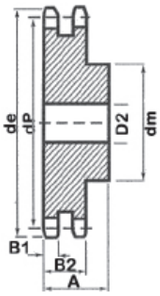
Teeth	de	dp	Simplex				Duplex			
			dm	D1	A	App. Kg	dm	D2	A	App. Kg
8	28.6	24.89	15	8	20	0.03	-	-	-	-
9	31.5	27.85	18	8	20	0.04	18	8	25	OA
10	34.5	30.82	20	8	20	0.06	20	8	25	0.11
11	37.5	33.8	22	8	25	0.09	22	10	30	0.13
12	40.5	36.8	25	8	25	0.10	25	10	30	0.16
13	43.5	39.8	28	8	25	0.11	28	10	30	0.20
14	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	12	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										

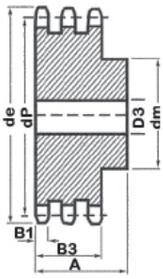
FINERPOWER TRANSMISSIONS

08B-1-2-3 Sprocket







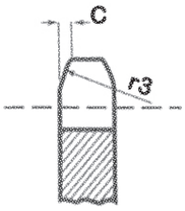


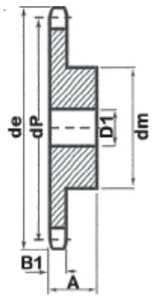
Pinions	mm
Tooth Radius r3	13
Radius Width C	1.3
Tooth Width B1	7.2
Tooth Width b1	7
Tooth Width B2	21
Tooth Width B3	34.9

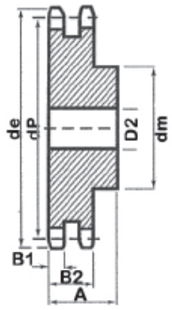
Chain	mm
Pitch	12.7
Inside	7.75
Roller ø	8.51

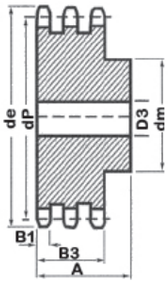
Teeth	de	dp	Simplex				Duplex				Triplex			
			dm	D1	A	App.Kg	dm	D2	A	App.Kg	dm	D3	A	App. Kg
8	38	33.18	20	10	25	0.13	-	-	-	-	-	-	-	-
9	42	37.13	24	10	25	0.14	24	10	32	0.18	-	-	-	-
10	45.9	41.1	26	10	25	0.15	28	10	32	0.22	-	-	-	-
11	49.9	45.07	29	10	25	0.17	32	12	35	0.24	-	-	-	-
12	53.9	49.07	33	10	28	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









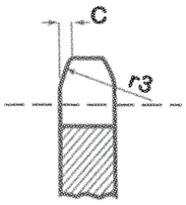
Pinions	mm
Tooth Radius r3	16
Radius Width C	1.6
Tooth Width B1	9.1
Tooth Width b1	9
Tooth Width B2	25.5
Tooth Width B3	42.1

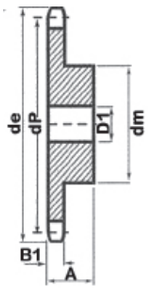
Chain	mm
Pitch	15.88
Inside	9.65
Roller ø	10.2

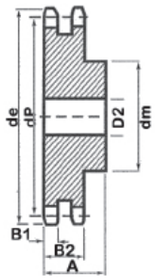
Teeth	de	dp	Simplex				Duplex				Triplex			
			dm	D1	A	App.Kg	dm	D2	A	App.Kg	dm	D3	A	App. Kg
8	48.4	41.48	25	10	25	0.09	-	-	-	-	-	-	-	-
9	53.3	46.42	30	10	25	0.14	30	12	40	0.31	-	-	-	-
10	58.3	51.37	35	10	25	0.23	35	12	40	0.39	-	-	-	-
11	63.2	56.35	37	12	30	0.27	39	16	40	0.44	-	-	-	-
12	68.2	61.34	42	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	-	-	-	-

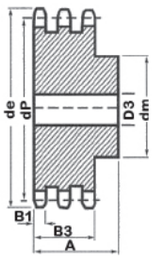
FINERPOWER TRANSMISSIONS

12B-1-2-3 Sprocket







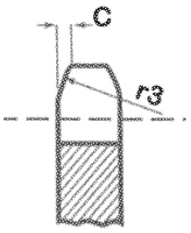


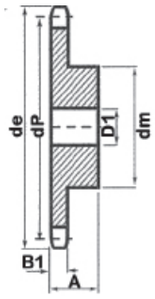
Pinions	mm
Tooth Radius r3	19
Radius Width C	2
Tooth Width B1	11.1
Tooth Width b1	10.8
Tooth Width B2	30.3
Tooth Width B3	49.8

Chain	mm
Pitch	19.05
Inside	11.68
Roller ø	12.07

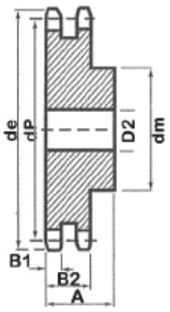
Teeth	de	dp	Simplex				Duplex				Triplex			
			dm	D1	A	AppKg	dm	D2	A	App.Kg	dm	D3	A	App. Kg
8	58	49.78	31	12	30	OA	-	-	-	-	-	-	-	-
9	63.9	55.7	37	12	30	OA	37	16	45	0.75	-	-	-	-
10	69.8	61.64	42	12	30	OA	42	16	45	0.90	-	-	-	-
11	75.8	67.61	46	16	35	0.53	47	16	50	1.00	47	20	70	OA
12	81.8	73.6	52	16	35	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

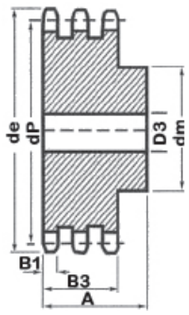




Pinions	mm
Tooth Radius r3	26
Radius Width C	2.5
Tooth Width B1	16.2
Tooth Width b1	15.8
Tooth Width B2	47.7
Tooth Width B3	79.6

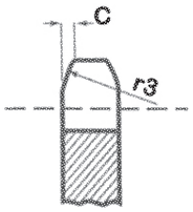


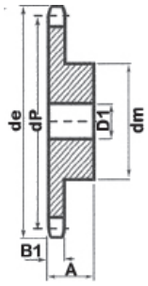
Chain	mm
Pitch	25.4
Inside	17
Roller ø	15.88

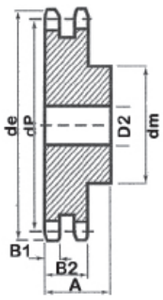


Teeth	de	dp	Simplex				Duplex				Triplex			
			dm	D1	A	App. Kg	dm	D2	A	App. Kg	dm	D3	A	App. Kg
8	77.9	66.37	42	16	35	0.95	-	-	-	-	-	-	-	-
9	85.8	74.27	50	16	35	1.20	50	20	65	0.60	-	-	-	-
10	93.8	82.19	55	16	35	1.35	56	20	65	0.83	56	20	95	
11	101.7	90.14	61	16	40	1.45	64	20	70	1.82	-	-	-	-
12	109.7	98.14	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





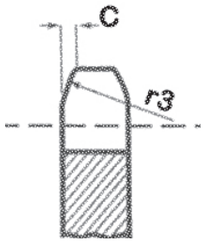


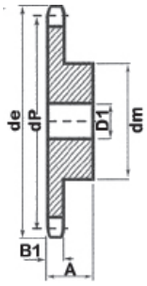
Pinions	mm
Tooth Radius r3	32
Radius Width C	3.5
Tooth Width B1	18.5
Tooth Width b1	18.2
Tooth Width B2	54.6
Tooth Width B3	91

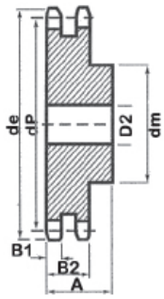
Chain	mm
Pitch	31.75
Inside	19.56
Roller ø	19.05

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	16.55
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





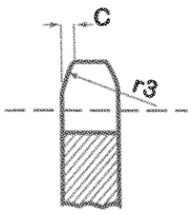


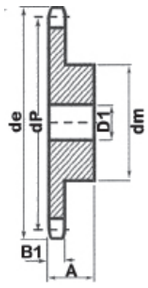
Pinions	mm
Tooth Radius r3	38
Radius Width C	4.0
Tooth Width B1	23.6
Tooth Width b1	24.1
Tooth Width B2	72
Tooth Width B3	120.3

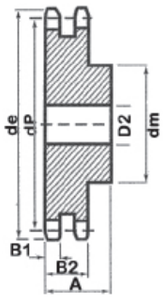
Chain	mm
Pitch	38.1
Inside	25.4
Roller ø	25.4

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



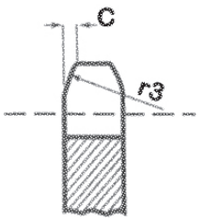


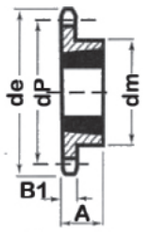


Teeth	de	dp	Simplex				Duplex			
			dm	D1	A	App.Kg	dm	D2	A	App. Kg
19	289.0	270.03	160	30	75	-	180	30	120	

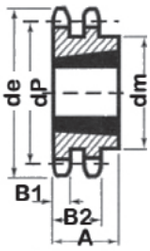
FINERPOWER TRANSMISSIONS

06B-1-2 Taper Lock





Type 1



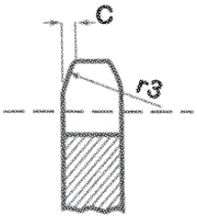
Type 2

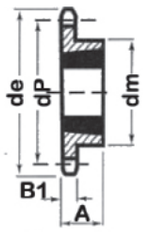
Pinions	mm
Tooth Radius r3	10
Radius Width C	1
Tooth Width B1	5.3

Chain	mm
Pitch	9.53
Inside	5.72
Roller ø	6.35

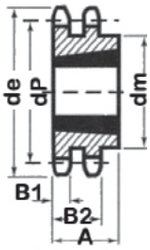
Teeth	de	dp	Simplex					Duplex				
			dm	A	Bush	Type	App. Kg	dm	A	Bush	Type	App. Kg
17	55.5	51.83	45	22.23	1008	1	0.14	41	22	1008	2	0.5
18	58.6	54.85	45	22.23	1008	1	0.18	43	22	1008	2	OA
19	61.6	57.87	45	22.23	1008	1	0.23	46	22	1008	2	0.6
20	64.6	60.89	45	22.23	1008	1	0.27	48	22	1008	2	OA
21	67.6	63.91	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	-	-	-	-	-	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





Type 1



Type 2

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

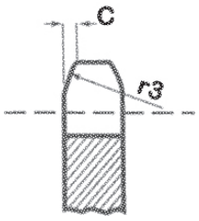
Teeth	de	dp	Simplex					Duplex				
			dm	A	Bush	Type	App. Kg	dm	A	Bush	Type	App. Kg
14	61.9	57.07	45	22.23	1008	1	0.18	-	-	-	-	-
15	65.9	61.09	45	22.23	1008	1	0.18	46	22.23	1008	2	0.18
16	69.9	65.1	45	22.23	1008/ 1108	1	0.23	50	22	1008	2	OA
17	74	69.11	60	25.40	1108/ 1210	1	0.23	56	25.40	1210	2	0.27
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

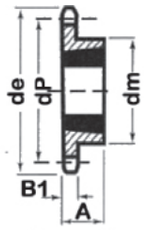
08B-3 Taper Lock

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	-

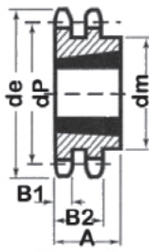
FINERPOWER TRANSMISSIONS

10B-1-2 Taper Lock

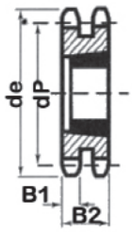




Type 1



Type 2



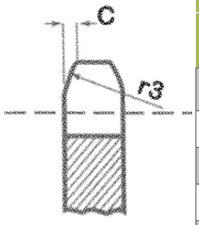
Type 3

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	-	-	-	-	-

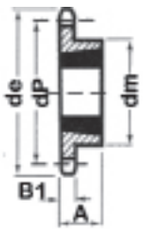
12B-1-2-3 Taper Lock



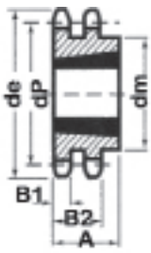
Pinions	mm
Tooth Radius r3	19
Radius Width C	2
Tooth Width B1	11.1

Chain	mm
Pitch	19.05
Inside	11.68
Roller ø	12.07

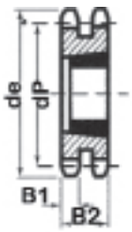
	Simplex							Duplex					Triplex				
Teeth	de	dp	dm	A	Bush	Type	App. Kg	dm	A	Bush	Type	App. Kg	dm	A	Bush	Type	App. Kg
12	81.5	73.6	60	24.4	1210	1	OA	-	-	-	-	-	-	-	-	-	-
13	87.8	79.59	60	25.40	1210	1	0.41	OA	25.4	1210	OA	OA	-	-	-	-	-
14	93.6	85.61	70	25.40	1610	1	OA	-	-	-	-	-	-	-	-	-	-
15	99.8	91.63	70	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	-	-	-	-	-



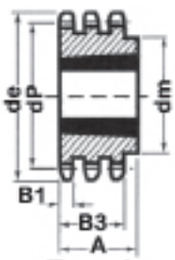
Type 1



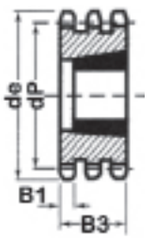
Type 2



Type 3



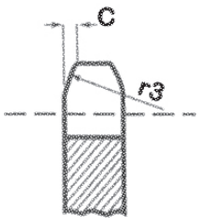
Type 4



Type 5

FINERPOWER TRANSMISSIONS

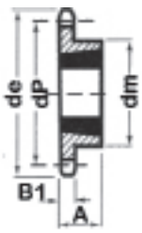
16B-1-2-3 Taper Lock



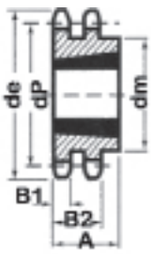
Pinions	mm
Tooth Radius r3	26
Radius Width C	2.5
Tooth Width B1	16.2

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	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	76.2	3020	OA	OA	-	-	-	-
57	474.9	461.1	140	50.80	3020	1	19.16	175	86.90	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	-	-	-	-	-	-	-	-	-



Type 1



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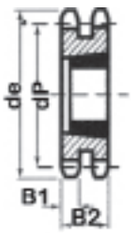

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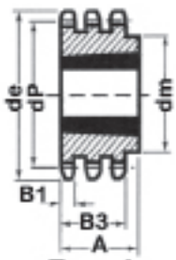

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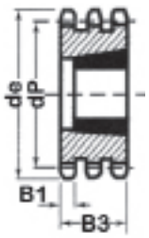
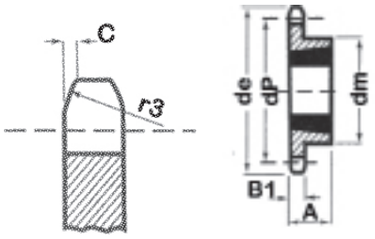


Type 5

20B-1 Taper Lock



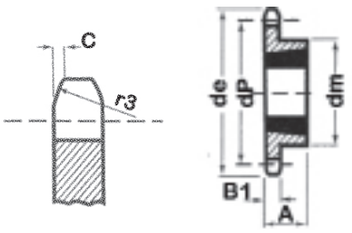
Type 1

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



Type 1

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

BS Reverse Entry Taper Lock Sprockets

FINERPOWER TRANSMISSIONS

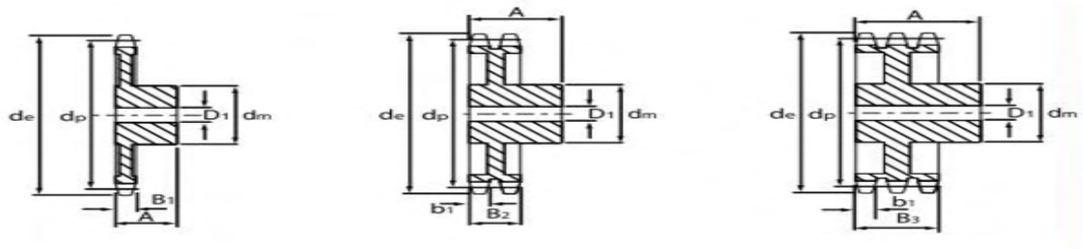
Pitch	Part Number	Bush Size
08B (1/2 Inch Pitch)	41-15RT/L	1008
	41-17RT/L	1210
	41-19RT/L	1210
	41-21RT/L	1610
	41-23RT/L	1610
	41-25RT/L	1610
	41-27RT/L	1610
	41-30RT/L	2012
	41-38RT/L	2012
10B (5/8 Inch Pitch)	51-13RT/L	1008
	51-15RT/L	1210
	51-17RT/L	1610
	51-19RT/L	1610
	51-21RT/L	1610
	51-23RT/L	1610
	51-25RT/L	2012
	51-27RT/L	2012
	51-30RT/L	2012
	51-38RT/L	2012
12B (3/4 Inch Pitch)	61-13RT/L	1210
	61-15RT/L	1610
	61-17RT/L	1610)
	61-19RT/L	2012
	61-21RT/L	2517
	61-23RT/L	2517
	61-25RT/L	2517
	61-27RT/L	2517
	61-30RT/L	2517
	61-38RT/L	2517
16B (1 Inch Pitch)	81-13RT/L	1615
	81-15RT/L	1615
	81-17RT/L	2012
	81-19RT/L	2517
	81-21RT/L	2517
	81-23RT/L	2517
	81-25RT/L	2517
	81-27RT/L	2517
	81-30RT/L	2517
	81-38RT/L	3020

Refer to Standard Taperlock Sprocket Specifications for Dimensions

Taperlock Bush Entry this face

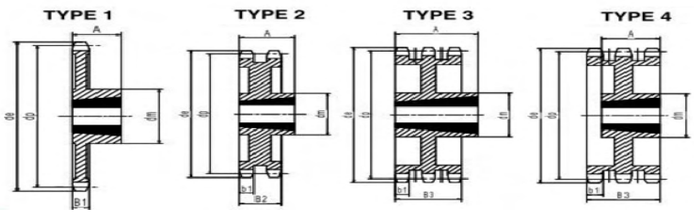
Pilot Bore

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

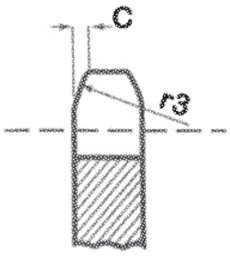


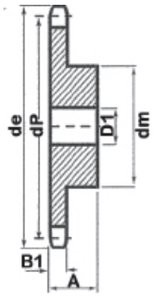
Taper Lock

				Simplex				Duplex				Triplex			
Pitch	Teeth	de	dp	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



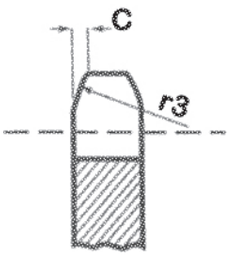


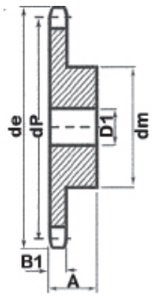
Teeth	de	dp	Simplex			
			dm	D1	A	App. Kg
13	43.5	39.8	28	8	25	0.11
15	49.5	45.81	34	8	25	0.14
17	55.5	51.83	40	10	28	0.20
19	61.6	57.87	45	10	28	0.25
21	67.6	63.91	48	12	28	0.36
23	73.7	69.95	52	12	28	0.39
25	79.7	76	57	12	28	0.41
27	85.7	82.04	60	12	28	0.44
30	94.8	91.12	60	12	28	0.48
38	119	115.3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



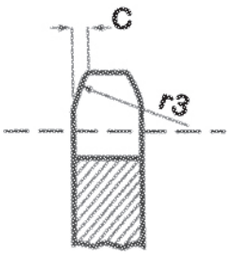


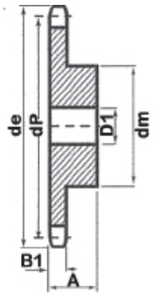
Teeth	de	dp	Simplex			
			dm	D1	A	App. Kg
13	57.9	53.06	37	10	28	0.25
15	65.9	61.09	45	10	28	0.33
17	74	69.11	52	12	28	0.51
19	82	77.16	60	12	28	0.65
21	90.1	85.22	68	14	28	0.82
23	98.1	93.27	70	14	28	1.05
25	106.2	101.3	70	14	28	1.13
27	114.2	109.4	70	16	30	1.19
30	126.3	121.5	80	16	30	1.36
38	158.6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



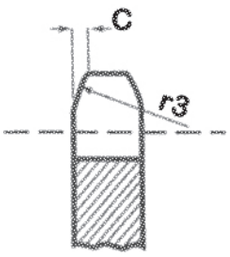


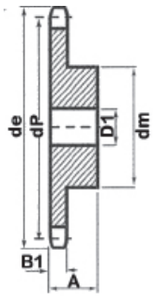
Teeth	de	dp	Simplex			
			dm	D1	A	App. Kg
13	87.8	79.59	58	16	35	0.75
15	99.8	91.63	70	16	35	1.14
17	111.9	103.7	80	16	35	1.46
19	123.9	115.8	80	16	35	1.78
21	136	127.8	90	20	40	2.27
23	148.1	139.9	90	20	40	2.49
25	160.2	152	90	20	40	2.78
27	172.3	164.1	95	20	40	3.05
30	190.4	182.3	95	20	40	3.44
38	238.9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



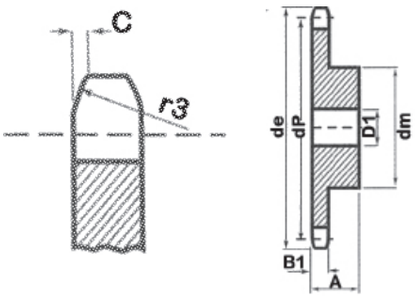


Teeth	de	dp	Simplex			
			dm	D1	A	App. Kg
13	87.8	79.59	58	16	35	0.75
15	99.8	91.63	70	16	35	1.14
17	111.9	103.7	80	16	35	1.46
19	123.9	115.8	80	16	35	1.78
21	136	127.8	90	20	40	2.27
23	148.1	139.9	90	20	40	2.49
25	160.2	152	90	20	40	2.78
27	172.3	164.1	95	20	40	3.05
30	190.4	182.3	95	20	40	3.44
38	238.9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

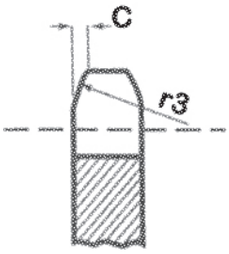


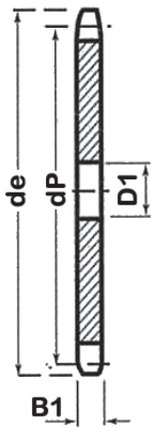
Teeth	de	dp	Simplex			
			dm	D1	A	App. Kg
13	117.7	106.1	78	16	40	1.94
15	133.7	122.2	92	16	40	2.59
17	149.8	138.2	100	20	45	3.18
19	165.9	154.4	100	20	45	3.86
21	182	170.4	110	20	50	4.54
23	198.1	186.5	110	20	50	5.08
25	214.2	202.7	110	20	50	5.76
27	230.4	218.8	120	20	50	7.53
30	254.6	243	120	20	50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



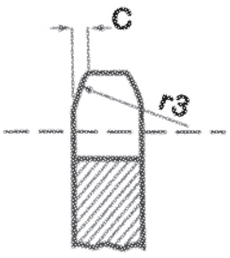


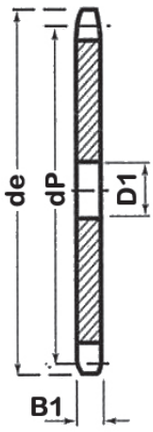
Pinions	mm
Tooth Radius r3	10
Radius Width C	1
Tooth Width B1	5.3

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



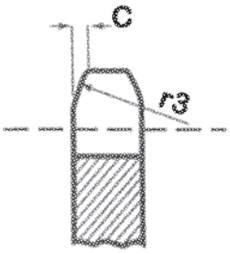


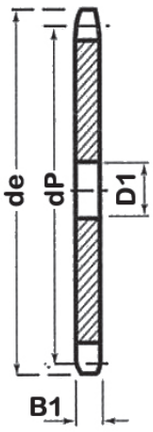
Pinions	mm
Tooth Radius r3	13
Radius Width C	1.3
Tooth Width B1	7.2

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



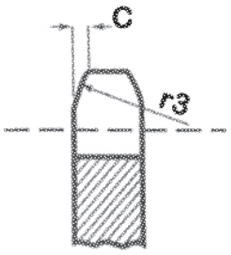


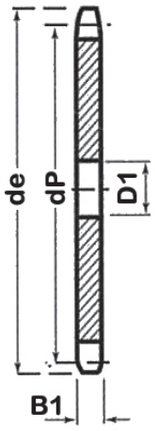
Pinions	mm
Tooth Radius r3	16
Radius Width C	1.6
Tooth Width B1	9.1

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



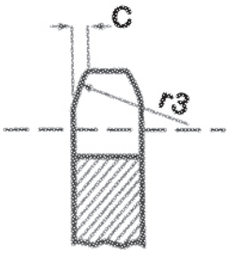


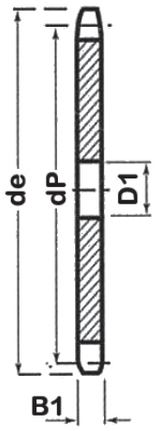
Pinions	mm
Tooth Radius r3	19
Radius Width C	2
Tooth Width B1	11.1

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
114	584.5	576.1	OA	OA

16A-1 Plate Wheel



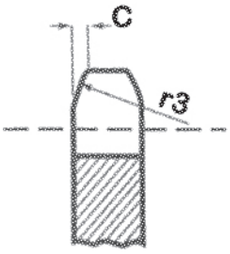


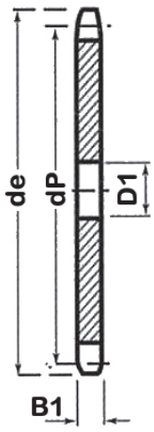
Pinions	mm
Tooth Radius r3	26
Radius Width C	2.5
Tooth Width B1	16.2

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





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

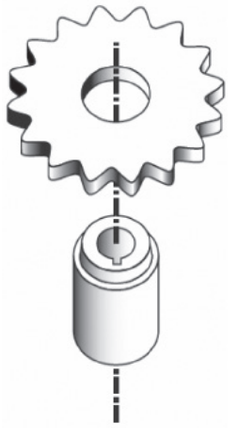
Pinions	mm
Tooth Radius r3	38
Radius Width C	4
Tooth Width B1	11.7

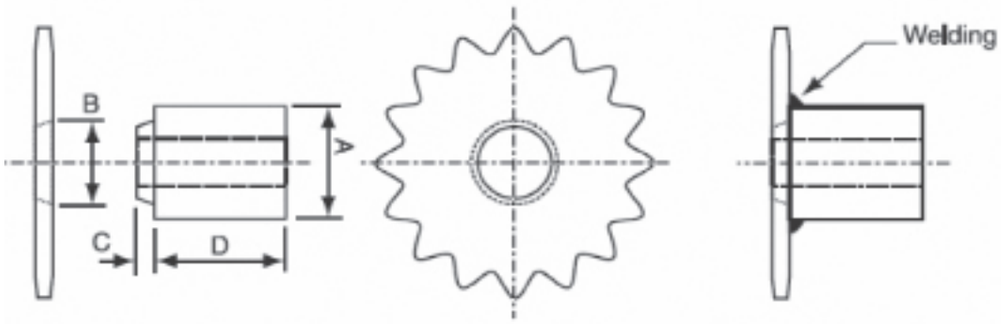
Chain	mm
Pitch	19.05
Inside	12.7
Roller ø	11.91

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	30mm	(1-3/16)	37mm	(1-7/16)	37mm	(1-7/16)
	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 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

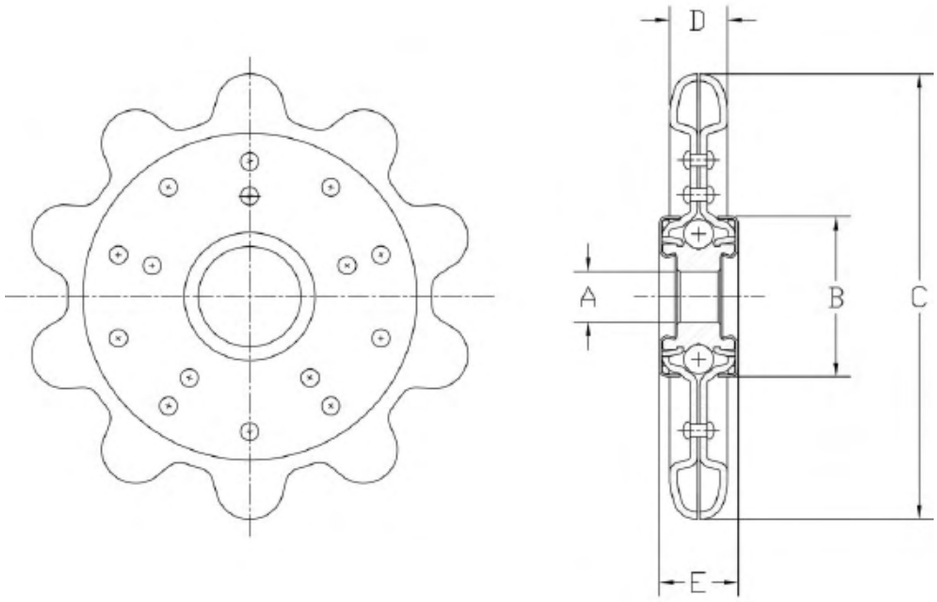
Over-size, factory packed lubricant chamber assures maximum life and operating efficiency without troublesome relubrication

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

Detatchable 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 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

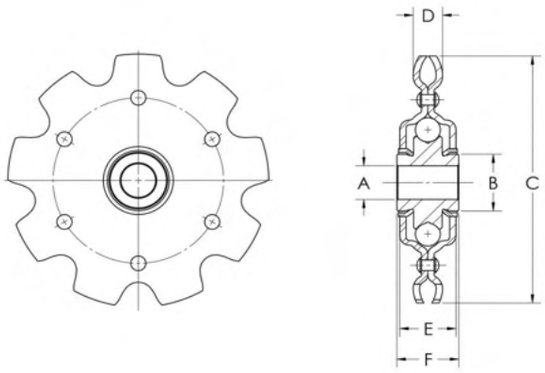
Over-size, factory packed lubricant chamber assures maximum life and operating efficiency without troublesome relubrication

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 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

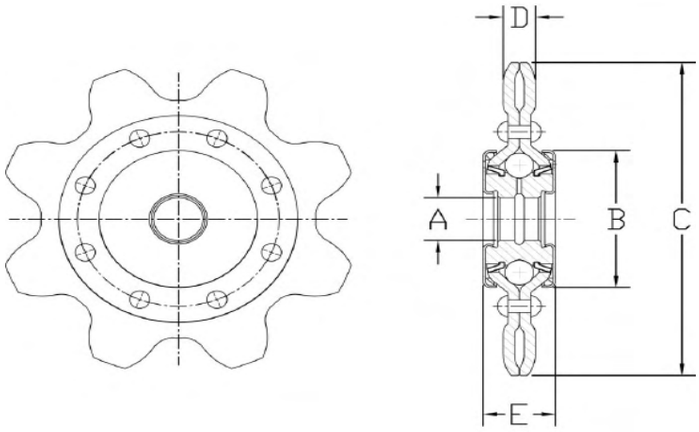
Over-size, factory packed lubricant chamber assures maximum life and operating efficiency without troublesome relubrication

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

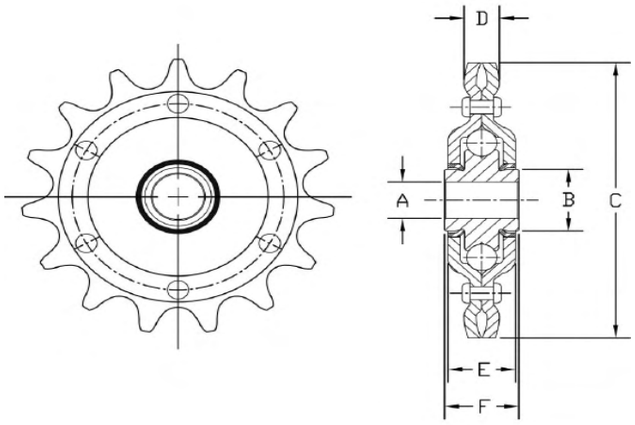
Full ball complement for high durability

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

Interchange Chart ASA & BS Sprockets

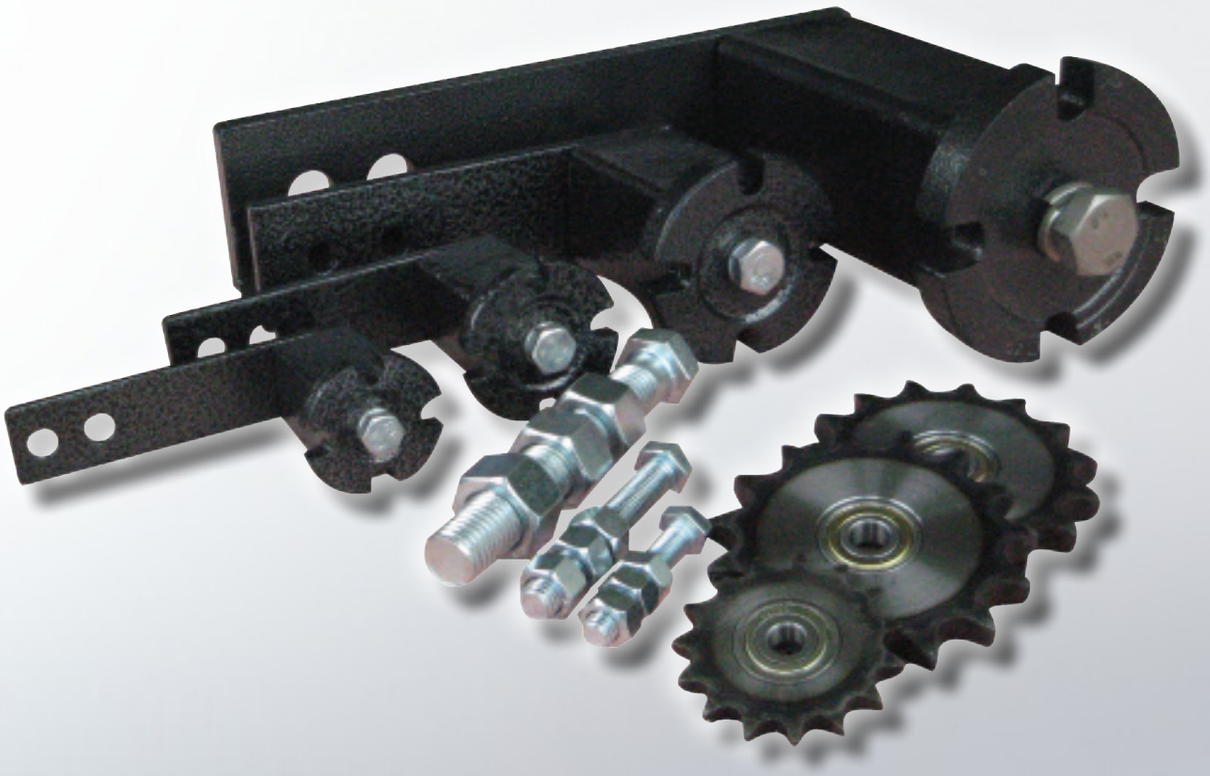
PITCH	3/8"	1/2"	5/8"	3/4"	1"	1-1/4"	1-1/2"
BS	06B-1	08B-1	10B-1	12B-1	16B-1	20B-1	24B-1
ASA	35-1	40-1	50-1	60-1	80-1	100-1	120-1
PLATE THINKNESS BS	5.2	7	8.7	10.5	16.1	18.6	24.25
PLATE THINKNESS ASA	4.3	7.2	8.7	11.7	14.6	17.6	25
ROLLER DIAMETER BS	6.35	8.51	10.16	12.07	15.88	19.05	25.4
ROLLER DIAMETER 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®

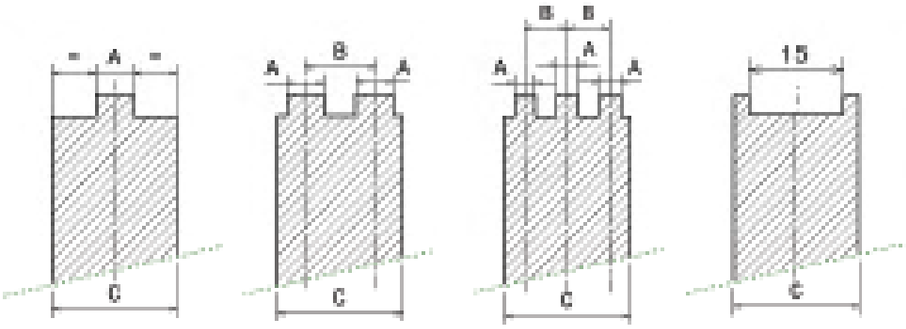
ROLL-RING®
Internat. Reg. No. 641683 from EBERT

Tensioners & Tools



Tensioners & Tools

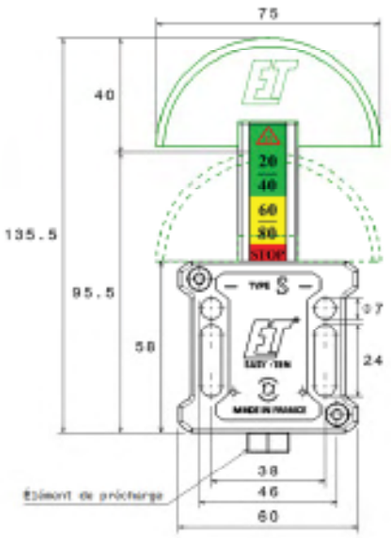
Easy Ten - Type S with Sliding Block

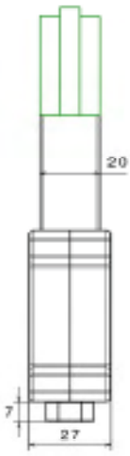


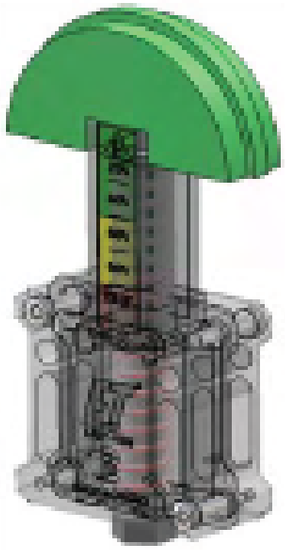
Type B1 Simplex | Type B2 Duplex | Type B3 Triplex | Profile U

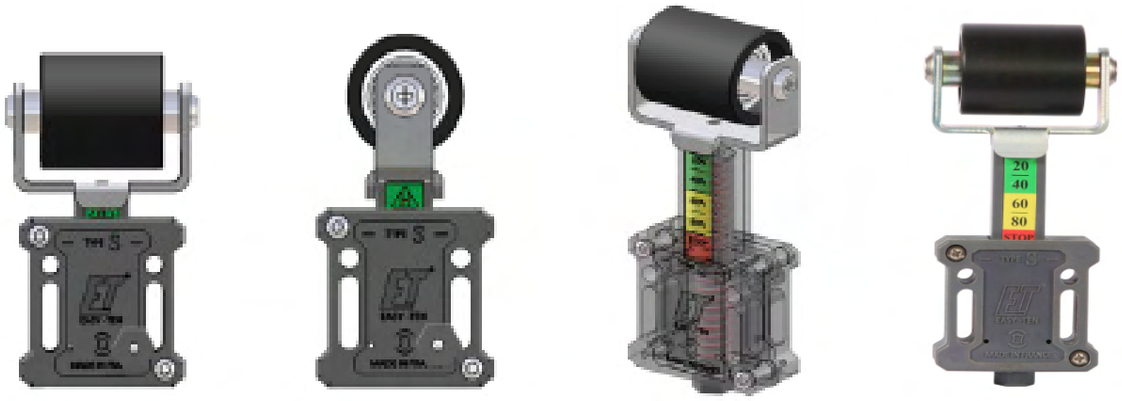
CHAIN SIMPLEX				
Part No.	Chain	A	B	C
ET-S06B1H	06 B1	5	-	20
ET-S06B1UH	06 B1	15	-	20
ET-S08B1H	08 B1	7	-	20
ET-S10B1H	10 B1	9	-	20
ET-S12B1H	12 B1	11	-	20
CHAIN DUPLEX				
Part No.	Chain	A	B	C
ET-S06B2H	06 B2	5	10.24	20
ET-S08B2H	08 B2	7	13.92	20
ET-S10B2H	10 B2	9	19.59	25
CHAIN TRIPLEX				
Part No.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



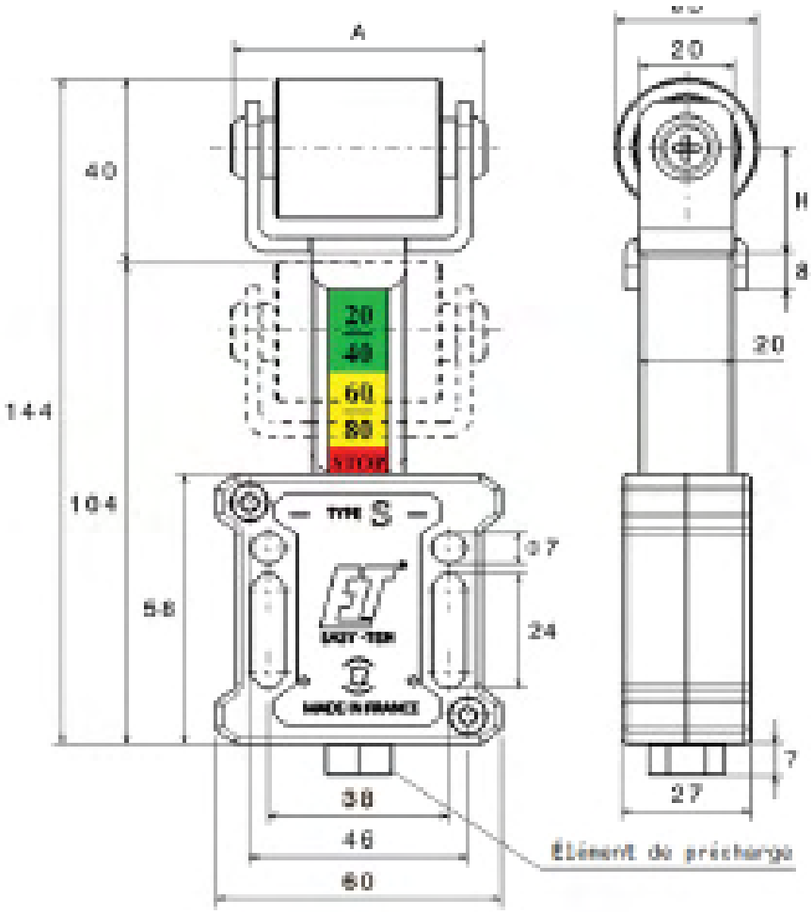




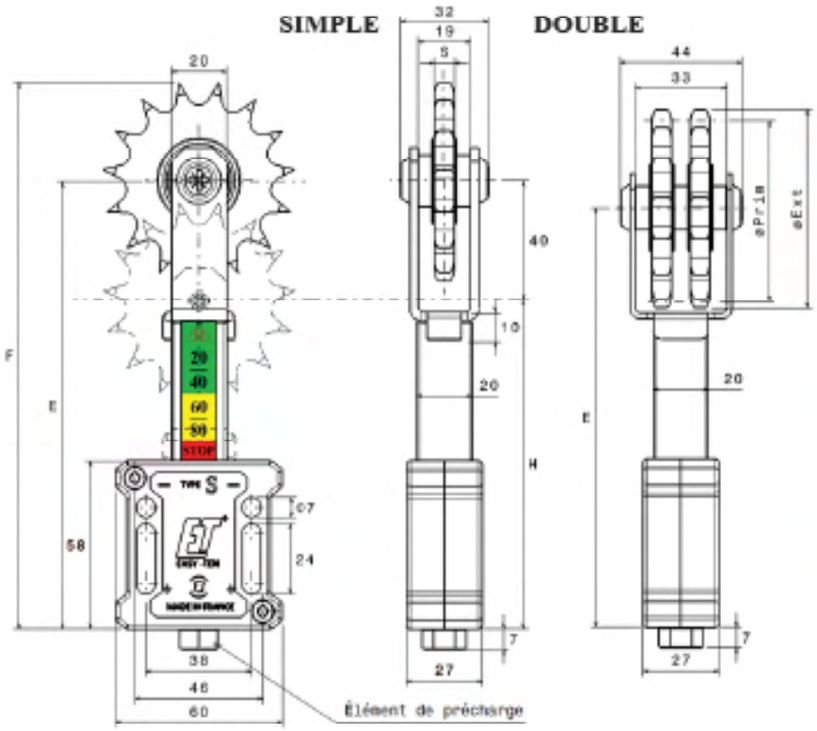


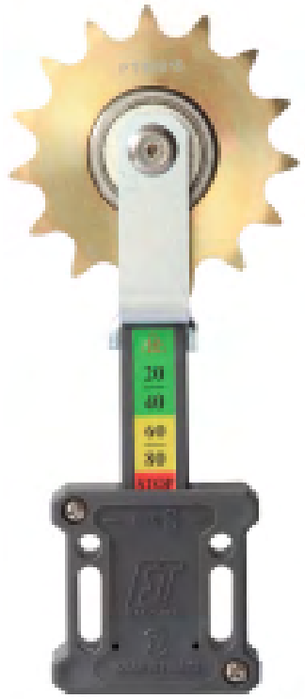
Part No.	MAX SPEED T/min	A	B	C	OD	H
ETRE-2H	8000	54	35	45	30	22.5
ETRE-3/4H	8000	70	45	58	40	27.5

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



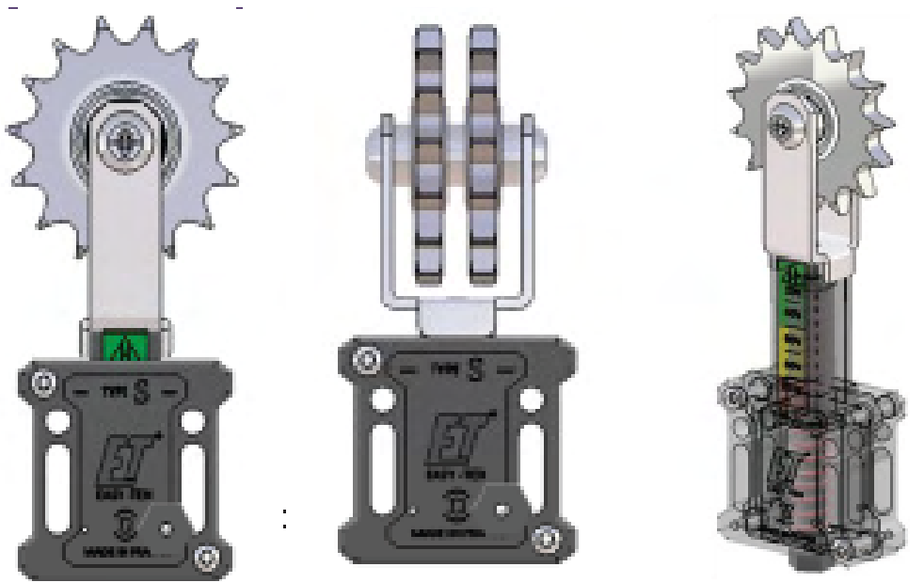
Easy Ten - Type S with Sprocket

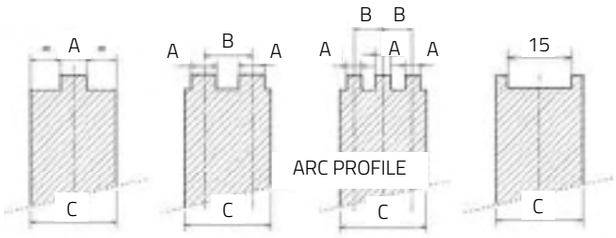




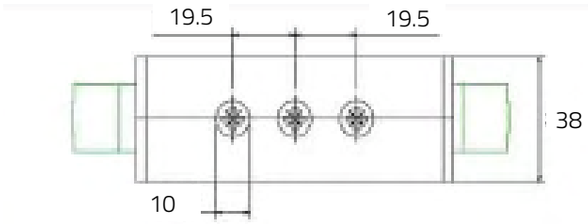
Part No.	Z	Chain		S	OD	PCD	F	E	H
		mm	BS						
ETRX-06B1H	15	9.525	06B1	5.3	49.3	45.81	160	135	95
ETRX-06B2H	15	9.525	06B2	5.3	49.3	45.81	168	143.5	103.5
ETRX-08B1H	15	12.7	08B1	7.2	65.5	61.09	186	153.5	113.5
ETRX-08B2H	15	12.7	08B2	7.2	65.5	61.09	176	143.5	103.5
ETRX-10B1H	15	15.8	10B1	9.1	83	76.36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

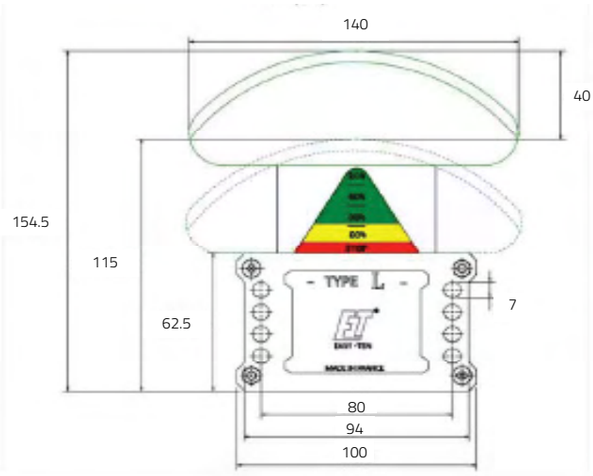
By default the tensioners are heavy tension type - light tension box is available (ET-SNUL)





Type B1 Type B2 Type B3 Profile U



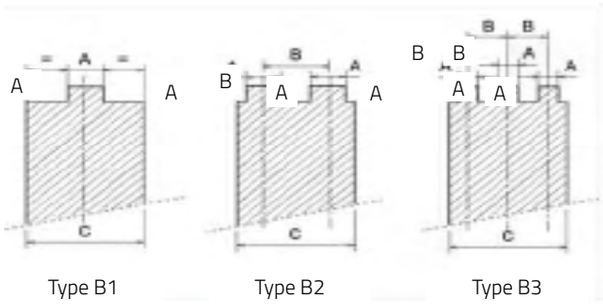


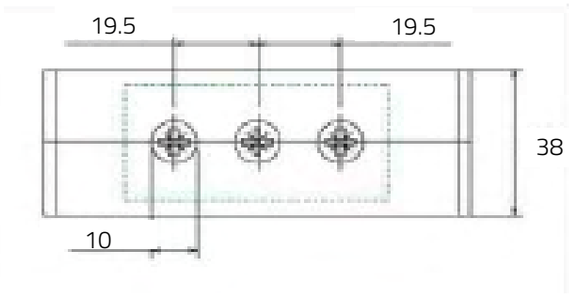
CHAIN SIMPLEX				
Part No.	Chain	A	B	C
ETL-AR06B1H	06 B1	5	-	30
ETL-AR08B1H	08 B1	7	-	30
ETL-AR10B1H	10 B1	9	-	30
ETL-AR12B1H	12 B1	11	-	30
ETL-AR16B1H	16 B1	16	-	30
ETL-AR20B1H	20 B1	18	-	30
CHAIN DUPLEX				
Part No.	Chain	A	B	C
ETL-AR06B2H	06 B2	5	10.24	30
ETL-AR08B2H	08 B2	7	13.92	30
ETL-AR10B2H	10 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

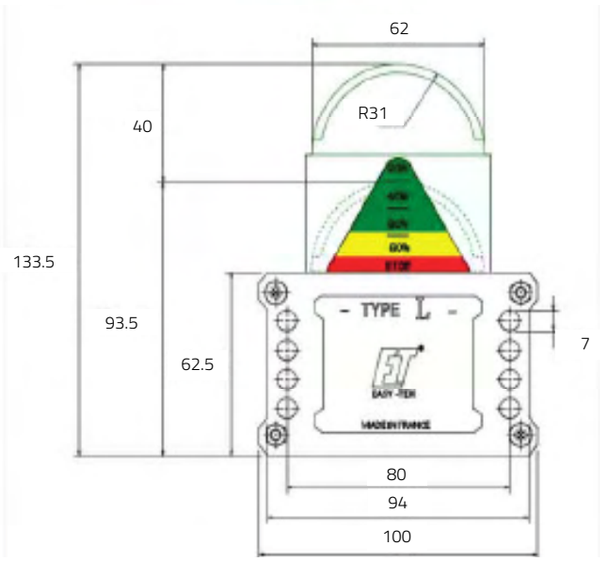
All dimension above are in mm.
By default the tensioners are heavy tension type - light tension box is available (ET-SNUL)

Easy Ten - L Type SC

SEMI-CIRCULAR PROFILE



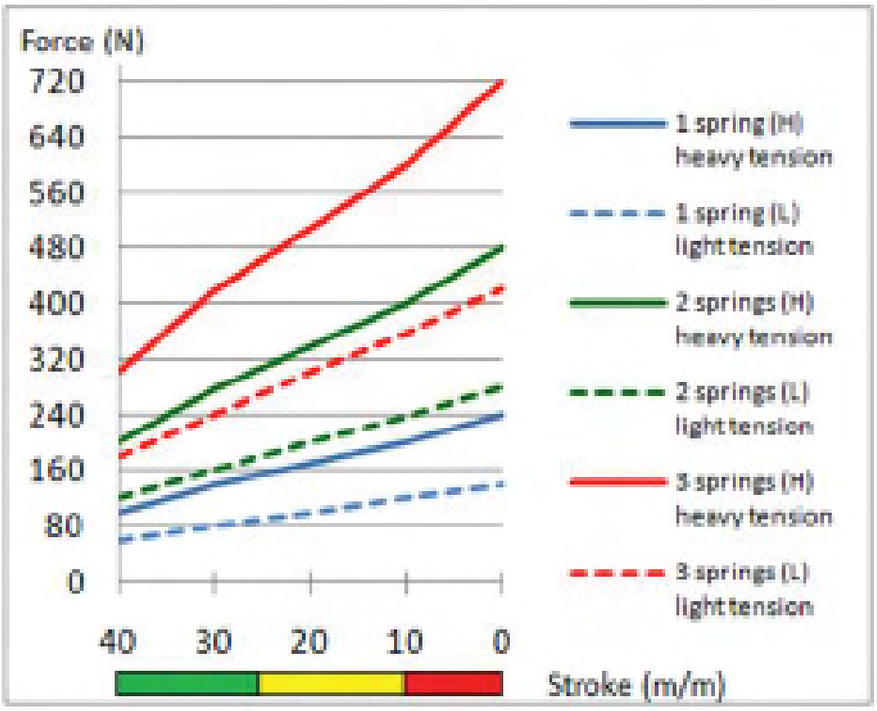




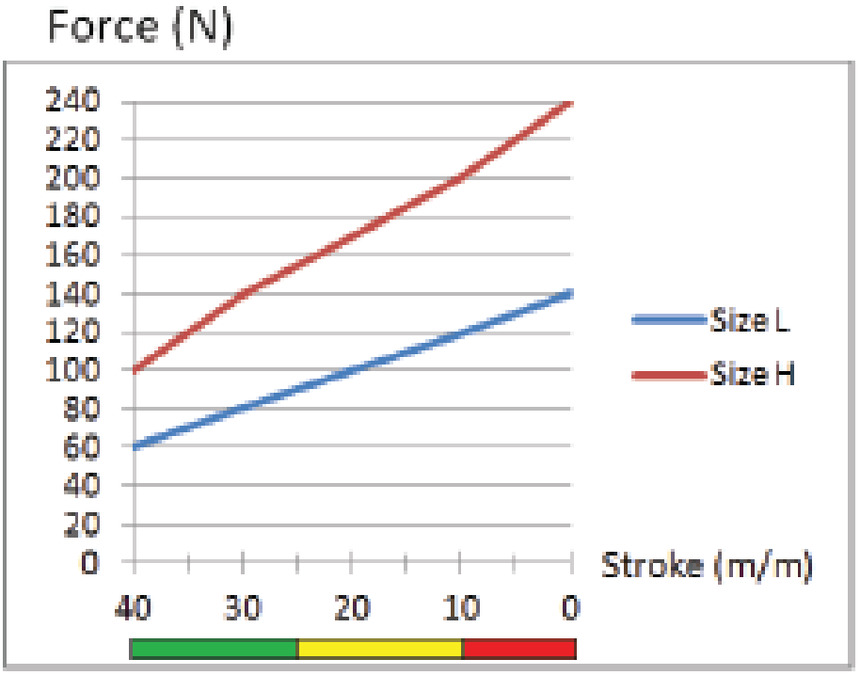
CHAIN SIMPLEX				
Part No.	Chain	A	B	C
ETL-SC06B1H	06 B1	5	-	30
ETL-SC08B1H	08 B1	7	-	30
ETL-SC10B1H	10 B1	9	-	30
ETL-SC12B1H	12 B1	11	-	30
ETL-SC16B1H	16 B1	16	-	30
ETL-SC20B1H	20 B1	18	-	30
CHAIN DUPLEX				
Part No.	Chain	A	B	C
ETL-SC06B2H	06 B2	5	10.24	30
ETL-SC08B2H	08 B2	7	13.92	30
ETL-SC10B2H	10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



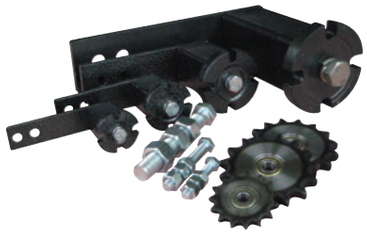
DOM Tensioner Cross Reference

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

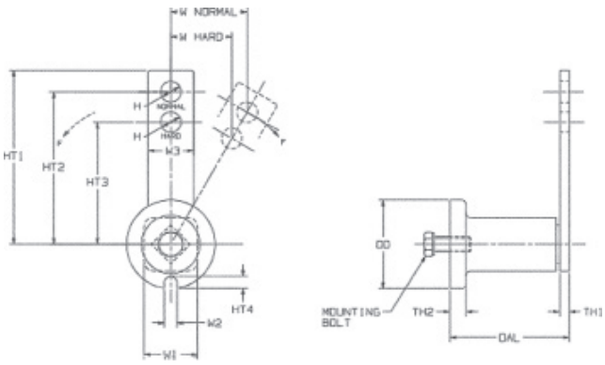
Chain & Belt (Rosta Style) Tensioner

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.



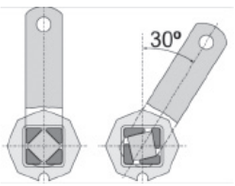
The Elastomeric Tensioner's benefits include:

- 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

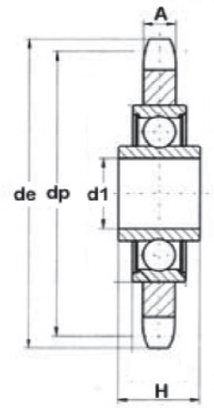
Type	Angle of Pretension (Force reqiured in psi)						Mounting Bolt Torque
	10°		20°		30°		
	Normal	Hard	Normal	Hard	Normal	Hard	
SE11	3.4	4.5	9.0	11.9	18.0	23.9	89
SE15	5.6	7.0	14.6	18.2	30.4	37.8	221
SE18	16.9	20.9	40.5	50.6	78.7	98.2	434
SE27	33.8	43.8	85.4	111.1	179.8	233.8	761
SE38	65.3	81.4	164.1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



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.

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		

Idler Sprocket (to suit tensioner arm)



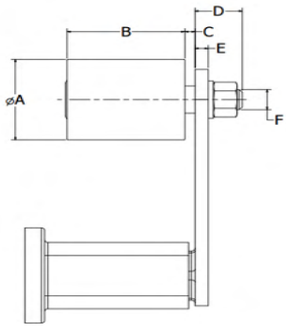
Idler Sprockets in conjunction with Tensioners provide an efficient solution to maintaining smooth running drives, inhibiting the effects of chain stretch and ensuring chains don't jump their drives.

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.

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
SE27-08B-15	1/2"	15	65.9	61.1	7.2	12	12X80	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

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.

Chain Breaker and Puller

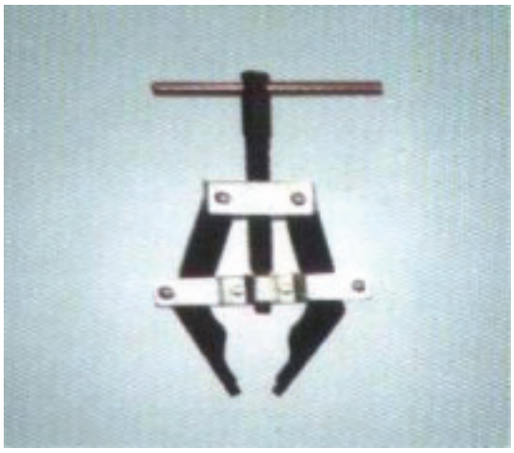
Finer Chain Breakers offer an easy and convenient way of breaking riveted roller chain links.
Suitable for both British Standard and ASA chain.

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.

ROLL-RING® Chain Tensioner

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.

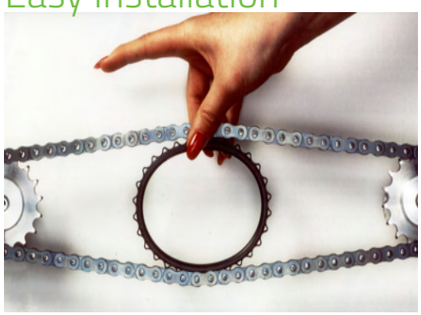
Product Range General Mechanical Engineering

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