









Contents





S.Y CHAIN – Japanese Roller Chain

Features of SY Chain58
How to Order Chain60
Selection of Roller Chain62
Roller Chain Quick Selection Chart 63
ANSI Roller Chain64
Aqua Series Chain70
BS Standard Roller Chain72
Double Capacity Chains77
Double Pitch (Conveyor) Roller Chain 80
HE Extra Heavy Series Chain82
Heavy Series Chain84
Hollow Pin Chain86
Hollow Pin Stainless Chain87
Leaf Chain88
NEO Corrosion Resistant Chain90
Side Bow Chain92
Stainless Steel Chain93
Straight Side Bar Chain95
Super Roller Chain96
Lubrication
Trouble Shooting99
-

SY CHAIN

Finer Power Transmissions PA | www.finerpt.com

SY (Japan) Sugiyama Chain Co., Ltd.

Since 1946, SUGIYAMA CHAIN CO., LTD. has successfully marketed its chain in many industrial countries. They have been taking many opportunities for technical innovation and then aggressively incorporated the advanced technology into our manufacturing method of power transmission chain. In 1987, they became the first manufacturer in the world to develop SBR (Solid Bush and Roller) chain.

Their solid bushings and solid rollers are cold-forged from steel rod. The process allows them to design these parts with a totally cylindrical inside diameter and finely finished surfaces. This enhanced chain means much longer life as a result of the improved wear resistance.

www.sychain.com

NB: Most chain sizes listed in this section are stocked items although some are not. Please confirm availability with your Finer Representatives.



The highest quality roller chain in the world just got stronger *Premium SBR Roller Chain*

Patented in: USA, Europe, Australia, Canada.

The Strongest Maximum Allowable Load



Astounding Maximum Allowable Loads

World's First Chain With 30% Higher Fatigue Strength

- * Higher safety factor is gained.
- * Downsizing to smaller chain is possible in some applications.
- * Cost Savings

BS Standard Maximum Allowable Loads

Chain No.	Competitor (kN)		Premium SBR (kN)
SY16B	12.6		16.4
SY20B	19.6	30%IIP	25.5
SY24B	27.5		35.7
SY28B	34.3		44.5
SY32B	39.2]	51.0

Note

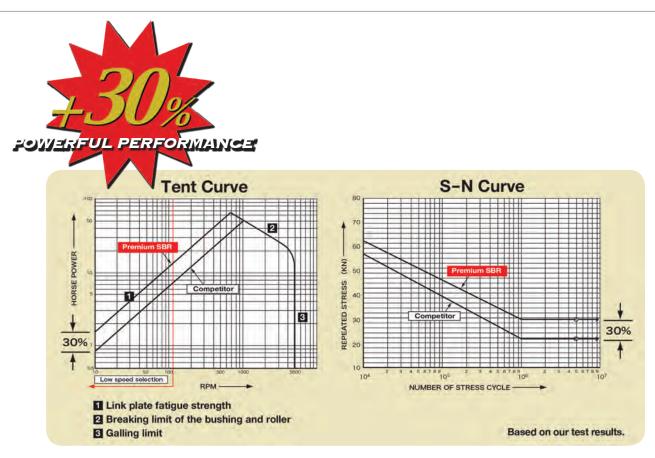
Sizes of Premium SBR Chain:16B – 32B Single Strand 80 – 240 Single Strand

ANSI Standard Maximum Allowable Loads

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

Features of SY Chain







Significantly longer wear life

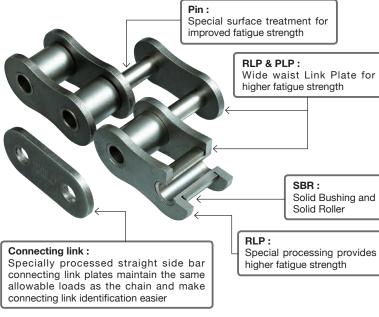
Conventional split bushings deform into a barrel shape when side plates are pressed on, leaving only two-point contact area. SBR (Solid Bushing & Roller) chain has extremely cylindrical inside and outside bushing walls resulting in full contact to disperse bearing pressure. Less pressure ensures excellent wear resistance.

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

The curled, split bushings have a seam where tiny space allows lubricant leakage resulting in shorter wear life. SBR has no seam resulting in lower bearing pressure allowing the bushings to retain lubrication resulting in much longer wear life.

Reliable performance

SBR is cold-forged from steel rod. Cold-forming process also works with the molecular structure (grain) of the steel running lengthwise in the bushings thereby increasing fatigue strength and preventing bushings from breakage. Premium SBR chains improve performance of transmission with lesser elongation for long period of time.





How To Order Chain

RUN BETTER WITH SY SPECIFY YOUR REQUIREMENTS

Premium

SBR[®]

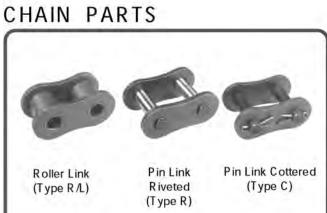
HOW TO ORDER

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

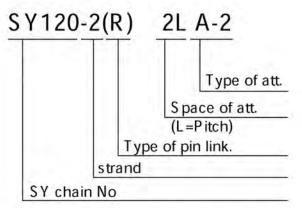
SY roller chains are packed for convenient handling and storing. Each 10feet length is packed in a carton. 50feet length and more are wound on reel.





specifically as possible when ordering a cut length of chain.

NOMENCLATURE



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 CONNECTION PARTS

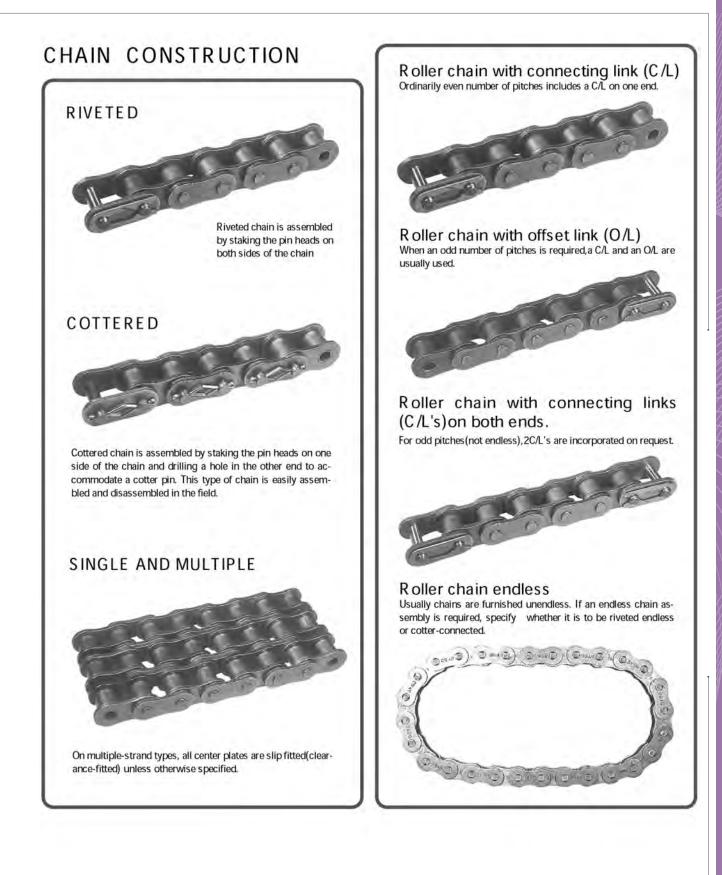


How To Order Chain





SY 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.

- To be driven in normal atmosphere of -10° F to 60° C free from ill effect of abrasive dust, corrosive gas, high humidity etc.
- Sprockets should be aligned and mounted on parallel horizontal shafts.
- Recommended method of lubrication and recommended kind of lubricant should be used.
- 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.

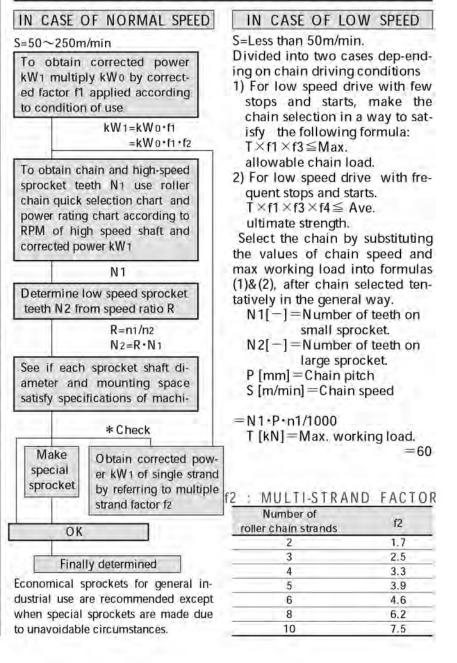
A service life of 15,000 hrs, can be expected when chain length is 100 pitches and the above conditions are met.

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.

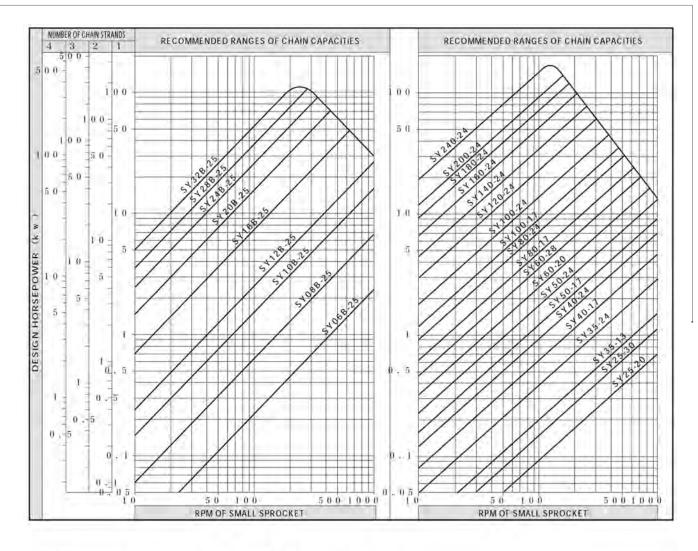
- a) Driven machine
- b) Type of load: smooth light or heavy shock
- c) Source of power
- d) kW to be transmitted [kWo:kW]
- e) RPM and diameter of high speed shaft[n1:rpm]
- f) RPM and diameter of low speed shaft[n2:rpm]
- g) Center distance of shaft [m]
- h) Chain-driving speed [S:m/min]

SELECTION PROCEDURE ACCORDING TO CHAIN SPEED



Roller Chain Quick Selection Chart





CONCISE SELECTION DATA

	SY Standa	ard(ANSI)	Each Series								
SY Chain No.	Max. Allowable	Ave. Ultimate	Ave.Ultimate Strength(kN)								
Load	Load	Load Strength		Load Strength E U		U	Н	HE	HU		
35	2.48	10.8				1.1	1.1				
40	4.17	19.1									
50	7.22	31.9	1.1								
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

	Interval Com	bustion Engine	
Driven Load Condition	Hydraulic Drive	Mechanical Drive	Motor or Turbine
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 f4: SAFETY FACTOR

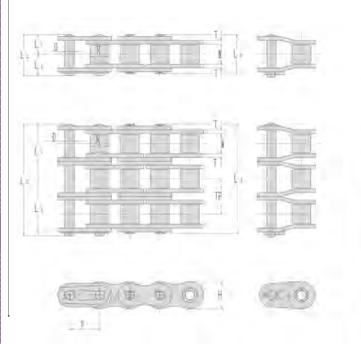
Chain Speed	f3	Chain Speed	f4
15m/min.	1.0	25m/min.	7≦
15-30	1,2	25-50	8≦
30-50	1.4		



Premium SBR[®]

ANSI Roller Chain

2Pitch Offset



Standard Packing	SY35	SY40
1 Unit (10')	320P	240P
On a Reel	250'	200'

35 (BUSHED CHAIN)

SY					Dimen	sions -	mm					Average	Maximum	Average
Chain	Dist	Bus	hing	Pin					Plate		Trans.	Ultimate	Allowable	Chain
	Pitch	Width	Dia.	Dia.	Length			Height	Thick.	Pitch	Strength	Load 💥	Weight	
	R	D	LR	LC	Li	Lz	Н	T	TP	kN	kN	kg/m		
SY35	9.525	4.78	5.08	3.58	12.0	12.9	6.0	6.9	9.0	1.25	÷	10.8	2.48	0.34
SY35-2	-				22.1	23.0	11.1	11.9	1		10.1	21.6	3.67	0.63
SY35-3					32.2	33.1	16.1	17.0				32.4	5.40	0.92
SY35-4					42.3	43.2	21.2	22.0				43.2	7.13	1.22
SY35-5					52.4	53.2	26.2	27.0				54.0	8.42	1.56
SY35-6			_		62.5	63.5	31.3	32.2				64.8	9.94	1.89

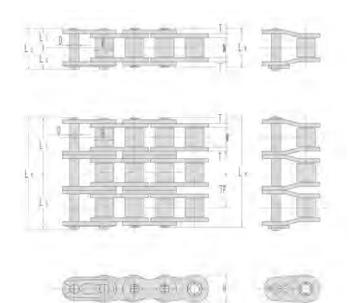
40

SY					Dimer	isions -	mm					Average	Maximum	Average
Chain No. (ANSI)PitchRollerWidthDia.Dia.WRD	Ditate	Rol	ler	Pin					Plate		Trans.	Ultimate	Allowable	Chain
	Width	Dia.	Dia.	Length			Height	Thick.	Pitch TP	Strength kN	Load ※ kN	Weight kg/m		
	D	LR	LC	L1	Lz	H T								
SY40	12.70	7.95	7.92	3.96	16.5	17.9	8.3	9.6	11.7	1.5	1. H	19.1	4.17	0.60
SY40-2		1.1			30.8	32.2	15.4	16.8	1.1		14.4	38.2	6.17	1.22
SY40-3					45.0	46.6	22.5	24.1			111	57.3	9.08	1.85
SY40-4					60.0	60.8	30.0	30.8				76.4	12.0	2.46
SY40-5					74.6	75.6	37.3	38.3				95.5	14.2	3.14
SY40-6			1.1	()	89.0	89.9	44.5	45.4				115.0	16.7	3.31

ANSI Roller Chain







	-			
10		- 10		
-11		- 100	1-0	
10	and a	-		_
-		1	-	

2Pitch Offset

Standard Packing	SY50	SY60
1 Unit (10')	192P	160P
On a Reel	100'	100'

50

18.10

SY					Dime	nsions -	mm					Average	Maximum	Average
Chain No. (ANSI)PitchRollreWidthDia.Dia.WRD	Dist	Ro	llre	Pin					Plate		Trans.	Ultimate	Allowable	Chain
	Pitch	Width	Dia.	Dia.		Length			Height	Thick.	Pitch	Strength	Load ※	Weight
	D	LR	LC	L1	L2	H T	TP	кN	kN	kg/m				
S Y 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
SY 50-2		111		1.1	38.4	40.0	19.2	20.8			18.1	63.8	10.7	2.00
SY50-3					56.7	58.2	28.4	29.8				95.7	15.7	3.07
SY50-4					75.0	75.7	37.5	38.2				128.	20.7	3.97
SY50-5				1.4.5	93.2	94.1	46.6	47.5				160.	24.5	5.02
SY50-6	1 h			-	111.4	112.5	55.7	56.8	· · · · · ·	·	-	191.	28.9	6.01

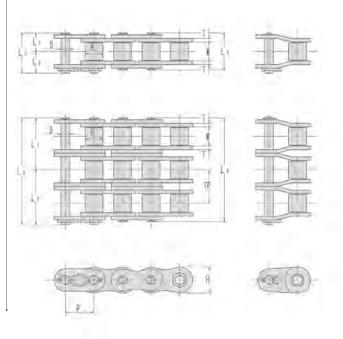
60

SY					Dimen	nsions -	mm					Average	Maximum	Average
Chain	Dist	Ro	ller			Pin			Pla	ite	Trans.	Ultimate	Allowable	Chain
No.	Pitch	Width	Dia.	Dia.		Lei	ngth		Height	Thick.	Pitch	Strength	Load ※	Weight
(ANSI)	Р	W	R	D	LR	Lċ	Li	Ĺż	Н	Т	TP	kN	kN	kg/m
SY60	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
SY60-2					48.2	49.7	24.0	25.7			22.8	86.2	14.7	2.95
SY60-3					71.2	72.6	35.2	37.4	- 11			129	21.6	4.43
SY60-4					94.4	95.4	47.2	48.2				172	28.5	5.92
SY60-5					117.0	118.2	58.5	59.7				216	33.7	7.41
SY60-6					140.0	140.9	70.1	70.8				259	39.7	8.90
SY60-8					185.0	186.6	92.5	94.1				345	53.5	13.36
SY60-10					230.8	232.2	115.4	116.8				431	64.7	16.34



Premium SBR[®]

ANSI Roller Chain



-	1.7	-	100
-	- 100	10-10	10.02
-			

ZPitch Offset

Standard Packing	S Y 80	S Y 100
1 Unit (10')	120P	96P

SY					Dimen	nsions -	mm					Average	Maximum	Average
Chain	Pitch	Ro	ller			Pin			Pla	te	Trans.	Ultimate	Allowable	Chain
No.	Pach	Width	Dia.	Dia.		Len	gth		Height	Thick.	Pitch	Strength	Load 💥	Weight
(ANSI)	Р	W	R	D	LR	LC	L1	Lž	Н	T	TP	kN	kN	kg/m
SY80	25.40	15.88	15.88	7.93	32.8	35.5	16.4	19.1	23.4	3.2		78.5	18.4	2.52
SY80-2					61.6	64.5	30.8	33.7			29.3	157	25.0	5.10
SY80-3					90.9	94.1	45.5	48.6				236	36.8	7.68
SY80-4					120.4	123.5	60.2	63.3				314	48.5	10.25
SY80-5					149.8	152.8	74.9	77.9				393	57.3	12.84
SY80-6					179.1	182.1	89.6	92.5				471	67.6	15.42
SY80-8					237.6	240.6	118.8	121.8				628	91.1	20.58
SY80-10					296.2	299.2	148.1	151.1				785	110	25.81

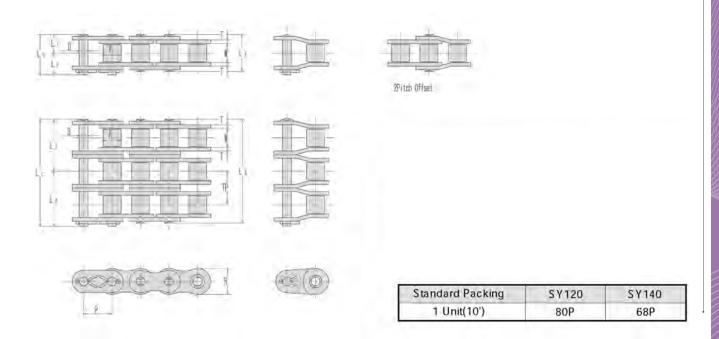
100

SY					Dime	nsions -	mm					Average	Maximum	Average
Chain	Ditals	Ro	ller			Pin			Pla	ite	Trans.	Ultimate	Allowable	Chain
No.	Pitch	Width	Dia.	Dia.		Le	ngth		Height	Thick.	Pitch	Strength	Load 🔆	Weight
(ANSI)	Р	W	R	D	LR	Lc	LT	Lz	Н	T	TP	kN	kN	kg/m
SY100	31.75	19.05	19.05	9.53	39.4	43.0	19.7	23.3	29.3	4.0	-	118	28.3	3.91
SY100-2		120		1.14	75.1	78.8	37.6	41.2			35.8	236	38.4	7.74
SY100-3					110.9	114.6	55.5	59.1			1000	354	56.5	11.58
SY100-4					147.4	150.8	73.7	77.1				472	74.6	15.40
SY100-5					183.0	186.6	91.5	95.1				590	88.1	19.26
SY100-6					218.8	222.4	109.4	113.0				708	104	23.10
SY100-8					290.4	294.1	145.2	148.9				944	140	30.81
SY100-10			1 1 1	1	362.0	365.7	181.0	184.7				1180	170	38.54

ANSI Roller Chain







120

SY					Dime	nsions -	mm					Average	Maximum	Average
Chain		Ro	ller			Pin			Pla	ate	Trans.	Ultimate	Allowable	Chain
No.	Pitch	Width	Dia.	Día.		Len	gth		Height	Thick.	Pitch	Strength	Load ※	Weight
(ANSI)	Р	W	R	D	LR	Lc	L1	L2	H	Т	TP	kN	kN	kg/m
SY120	38.10	25.40	22.23	11.10	49.5	53.4	24.8	28.6	35,1	4.8	-	167	38.0	5.76
SY120-2				111	94.9	98.8	47.5	51.3	10.11		45.4	334	51.7	11.49
SY120-3					140.3	144.2	70.2	74.0	(L)		1.0	501	76.0	17.20
SY120-4					186.1	190.0	93,1	96.9				668	100	22.92
SY120-5				1.1	231.5	235.4	115.8	119.6				835	119	28.65
SY120-6				1.0	276.9	280.8	138.5	142.3				1002	140	34.36
SY120-8			·		367.5	371.7	183.8	187.9				1336	188	45.81
SY120-10					458.3	462.5	229.2	233.3				1670	228	57.38

140

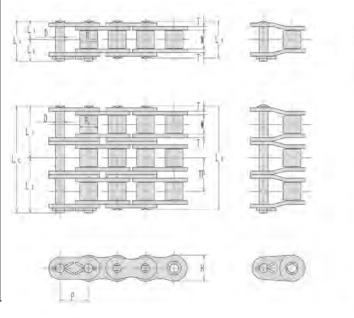
SY					Dime	nsions -	mm					Average	Maximum	Average
Chain	Dark	Rol	ler	1		Pin			Pla	ate	Trans.	Ultimate	Allowable	Chain
No.	Pitch	Width	Dia.	Dia.	-	Lei	ngth		Height	Thick.	Pitch	Strength	Load ※	Weight
(ANSI)	Р	W	R	D	LR	Lc	L1	L2	н	Т	TP	kN	kN	kg/m
SY140	44.45	25.40	25.4	12.70	54.0	58.3	27.0	31.3	40.9	5.6	1.1-	216	50.3	7.41
SY140-2					102.9	107.2	51.5	55.7			48.9	432	68.3	14.63
SY140-3					151.7	156.3	75.9	80.4	1.1		100	648	101	21.91
SY140-4					201.2	205.5	100.6	104.9				864	133	29.17
SY140-5					250.1	254.4	125.1	129.3				1080	157	36.45
SY140-6					299.0	303.3	149.5	153.8	0.1			1296	185	43.72
SY140-8					396.5	401.1	198.3	202.8				1728	249	58.28
SY140-10				1	494.3	498.9	247.2	251.7				2160	302	72.82



Premium SBR[®]

ANSI Roller Chain

29itch Offset



Standard Packing	SY160	SY180
1 Unit(10')	60P	54P

160

SY					Dime	nsions -	mm					Average	Maximum	Average
Chain	Davis	Ro	ller	-		Pin			Pla	ate	Trans.	Ultimate	Allowable	Chain
No.	Pitch	Width	Dia.	Dia.		Len	igth		Height	Thick.	Pitch	Strength	Load 💥	Weight
(ANSI)	Р	W	R	D	LR	Lc	Lı	L2	Н	Т	TP	kN	kN	kg/m
SY160	50.80	31.75	28.58	14.28	64.3	68.7	32.2	36.5	46.7	6,4	$\overline{\tau}$	275	66.3	9.79
SY160-2			16.1		122.8	127.2	61,4	65.8	0.1		58.5	550	90.1	19.45
SY160-3					181.3	185.7	90.7	95.0			1	825	133	29.17
SY160-4					240.3	244.7	120.2	124.5				1100	175	38.77
SY160-5					298.8	303.3	149.4	153.9				1375	207	48.43
SY160-6					357.4	361.7	178.7	183.0				1650	244	58.08
SY160-8					474.4	478.8	237.2	241.6				2200	329	77.39
SY160-10					591.4	595.8	295.7	300.1				2750	398	102,86

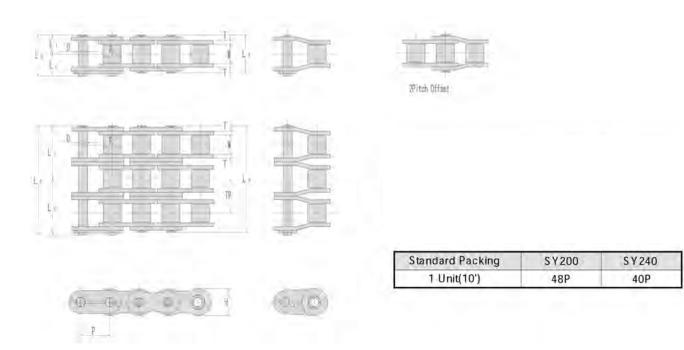
180

SY					Dimer	nsions -	mm					Average	Maximum	Average
Chain	Pitch	Ro	ller			Pin		-	Pla	te	Trans.	Ultimate	Allowable	Chain
No.	Pich	Width	Dia.	Dia.		Lei	ngth		Height	Thick.	Pitch	Strength	Load ※	Weight
(ANSI)	Р	W	R	D	LR:	Lc	Li	L2	Н	T	TP	kN	kN	kg/m
SY180	57.15	35.70	35.70	17.45	72.5	78.4	36.3	42.1	52.5	7.2	1.2	353	70.6	13.39
SY180-2					138.2	144.0	69.1	74.9		1.11	65.8	706	98.4	26.62
SY180-3					204.5	210.2	102.3	107.9				1059	145	39.85
SY180-4					270.2	275.9	135.1	140.8				1412	191	53.08
SY180-5			1.11		336.0	341.6	173.6	173.7				1765	226	66.31
SY180-6			- Idea		401.8	407.3	200.9	206.4		1.000	-	2118	266	79.54

ANSI Roller Chain







200

SY					Dimer	nsions -	mm					Average	Maximum	Average
Chain		Ro	ller			Pin		_	Pla	te	Trans.	Ultimate	Allowable	Chain
No.	Pitch	Width	Dia.	Dia.		Ler	igth		Height	Thick.	Pitch	Strength	Load 💥	Weight
(ANSI)	Р	W	R	D	LR	LC	Li	Ĺż	Н	T	TP	kN	kN	kg/m
SY200	63.50	38.10	39.67	19.83	78.5	87.0	39.3	47.7	59.8	8.0	÷	451	82.3	16.93
SY200-2					150.2	158.7	75.1	83.6			71.6	902	122	33.73
SY200-3					221.7	230.2	110.9	119.3				1353	179	50.53
SY200-4					293.3	302.4	146.7	155.7				1804	236	67.34
SY200-5					365.5	374.0	182.8	191.2				2255	279	84.14
SY200-6			_		437.1	445.6	218.6	227.0				2706	329	100.94

240

SY					Dimen	nsions -	mm					Average	Maximum	Average
Chain	Disci	Ro	ller	Pin						Plate		Ultimate	Allowable	Chain
No.	Pitch	Width	Dia.	Dia. D		Len	ngth		Height	Thick.	Pitch	Strength	kN	Weight kg/m
(ANSI)	Р	W	R		LR	LC	L1	Lż	Н	T	TP	kN		
SY240	76.20	47.63	47.63	23.78	96.4	104.1	48.2	55.9	70.3	9.5		677	112.8	23.64
SY240-2					184.2	191.8	92.1	99.7	10.1		87.8	1354	167	47.13
SY240-3					272.0	279.6	136.0	143.6				2031	245	70.61
SY240-4					359.8	367.4	179.9	187.5				2708	324	94.09
SY240-5					447.6	455.2	223.8	231.4	1.1			3385	383	117.56
SY240-6	1.0				535.5	543.0	267.8	275.2	1.1			4062	451	141.06



Feature

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

Results of corrosion 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 de	veloped(hours)
Nickel plated	48	5
Special surface treated	600~4	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.

THE ULTIMATE ROLLER CHAIN LONG LIFE SERIES

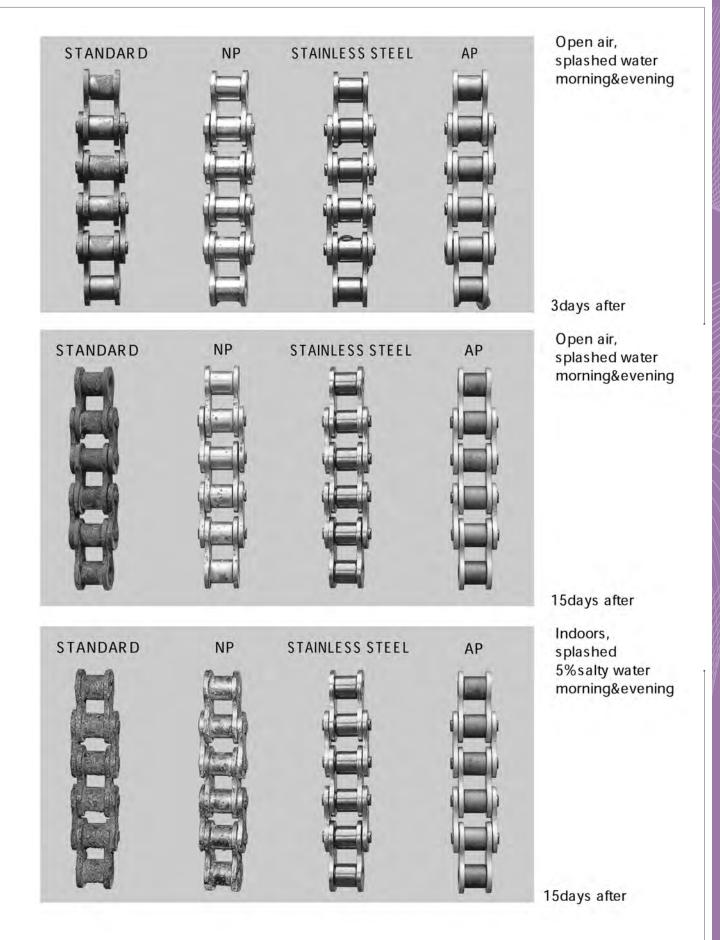


BS STANDARD ROLLER CHAINS ANSI STANDARD ROLLER CHAINS HEAVY-SERIES ROLLER CHAINS S-SERIES ROLLER CHAINS SUPER ROLLER CHAINS OIL-FIELD CHAINS ROLLERLESS CHAINS STRAIGHT SIDEBAR CHAINS DOUBLE PITCH ROLLER CHAINS etc.

Aqua Series Chain

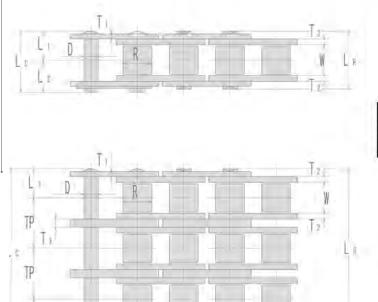








SY BS standard roller chains are standardized in accordance with ISO 606 B and fully interchangeable with chains manufactured according to BS 228 and DIN 8187. Supplied, in rivet type, to European countries as well as replacement on machinery employing BS standard chains.



Standard Packing	06B
1 Unit (10')	320P
1 Unit (5m)	526P



SY		1				Minimum	Maximum	Average								
	Pitch	Rol	ler			Pir	n				Plate		Trans.	Ultimate	Allowable	Chain
	P	Width	Dia.	Dia.	Length Height					Th	icknes	s	Pitch	Strength	Load	Weight
		W	R	D	LR	Lc	L1	L2	Н	T1	T2	T3	TP	кN	kN	kg/m
06B	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
-2	12.11	1	100	2.1	22.9	23.7	1.11						1.00	16.9	2.9	0.78
-3	1		1.000	1.1	33.2	33.7								24.9	4,2	1.18

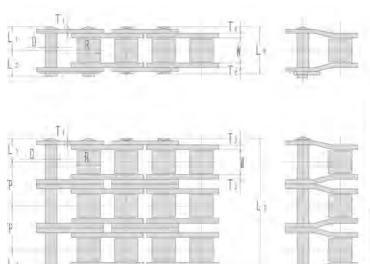
SY CHAIN

11

ACD

BS Standard Roller Chain





Standard Packing	08B	10B
1 Unit (10')	240P	192P
1 Unit (5m)	394P	316P



08B

SY					[Dimensi	ions - m	nm					Minimum	Maximum	Average
Chain	Pitch	Rol	ler	Pin						Plate				Allowable	Chain
No. (B S)		Width	Dia.	Dia. D	. Length			Height	Thickness		Pitch	Strength	Load	Weight	
	P	W	R		LR	LC	L1	L2	н	T1	T2	TP	kN	kN	kg/m
08B	12.70	7.75	8.51	4.45	16.7	18.0	8.4	9.6	11.8	1.5		13.92	17.8	3.14	0.61
-2					30.6	31.9	111		100				31.1	5,35	1.26
-3					44.5	45.8						_	44.5	7.85	1.88

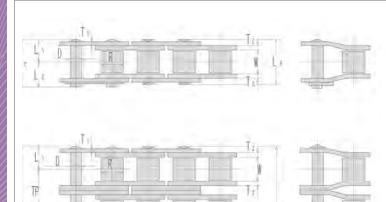
10B

SY					1	Dimensi	ions - n	nm					Minimum	Maximum	Average Chain
Chain	Pitch	Ro	ller			Pin				Plate		Trans.	CONTRACT CONTRACTOR OF	Allowable	
No. (BS)		Width W	Dia.	Dia.	Length				Height	Thickness		Pitch	Strength	Load	Weight
	Р		R	D	LR	LC	Lı	L2	H T1 T2	TP	kN	kN	kg/m		
10B	15.875	9,65	10,16	5.08	19.0	20.7	9.5	11.2	14,7	1.	65	16,59	22.2	4.90	0.89
-2			1111		35.6	37.3	141		1.1			11	44.5	8.33	1.79
-3			1.00		52.4	54.4							66.7	12.2	2.66



Premium SBR[®]

BS Standard Roller Chain



Standard Packing	12B	16B
1 Unit (10')	160P	120P
1 Unit (5m)	262P	198P





1 Unit (10')	160P	120F
1 Unit (5m)	262P	198F

12B

TP

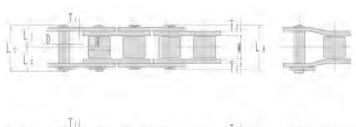
SY					1	Dimens	ions - n	nm					Minimum	Maximum	Average
Chain	Pitch	Ro	ller		Pin					Plate			Ultimate	Allowable	Chain
No. (B S) P	1.4	Width	Dia.	Dia. D	Length				Height	Thickness		Pitch	Strength	Load	Weight
	Р	W	R		LR	LC	Li	L2	Н	T1	T2	TP	kN	kN	kg/m
12B	19.05	11.68	12.07	5,72	22.0	23.6	11.0	12.6	16.1	1.8		19,46	28.9	7.06	1.14
-2		15-1		1.1	41.6	43.1	1						57.8	12.0	2.28
-3				_	61.1	62.7							86.7	17.6	3.36

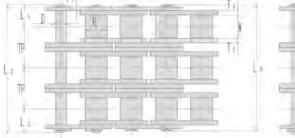
16B

SY					Minimum	Maximum	Average								
Chain	Pitch	Ro	ller		Pin					Plate		Trans.	Ultimate	Allowable	Chain
No. (B S)		Width W	Dia.	Dia.	-	Length		Height	Thickness		Pitch	Strength	Load	Weight	
	Р		R	D	LR	LC	L1	L2	Н	Ti	T2	TP	kN	kN	kg/m
16B	25.40	17.02	15.88	8.26	35.1	38.2	17.6	20.6	21.0	3.2	4.0	31.88	60	12.6	2.59
-2		100			67.2	70.1							106	21.4	5.13
-3					99.2	102.5							160	31.5	7.68

BS Standard Roller Chain







Standard Packing	20B	24B
1 Unit (10')	96P	80P
1 Unit (5m)	158P	132P



	i onic (oni)	1001	1921
1.17	00000		

20B

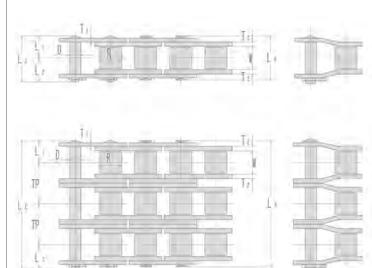
SY		1				Dimens	ions - n	nm					Minimum	Maximum	Average
Chain	Pitch	Ro	ller			Pin				Plate		Trans.	The state of the second second	Allowable	Chain
No.		Width	Dia.	Dia.		Len	gth		Height	Thick	ness	Pitch	Strength	Load	Weight
(B S)	Р	W	R	D	LR	LC	L1	L2	Н	T1	T2	TP	kN	kN	kg/m
20B	31.75	19.56	19.05	10.16	40,2	44.0	20.1	23.9	26.4	3.5	4.5	36.45	95	19.6	3.76
-2		1201			76.8	80.6			111			(***	170	33.3	7.26
-3					113.3	117.2							250	49.0	10.86

24B

SY						Dimens	ions - n	nm					Minimum	Maximum	Average
Chain	Pitch	Ro	ller			Pin				Plate		Trans.	the second state of the	Allowable	Chain
No.		Width	Dia.	Dia.		Len	gth		Height	Thick	ness	Pitch	Strength	Load	Weight
(B S)	Р	W	R	D	LR	LC	L1	L2	H	T1	T2	TP	κN	kN	kg/m
24B	38.10	25.40	25.40	14.63	53.4	58.1	26.7	31.4	33.4	4,9	5.9	48.36	160	27.5	7.29
-2	1.1			- n	101.8	106.5	111		1.1				280	46.8	14.53
-3				1. I.I.	150.2	154.9						_	425	68.8	21.76



BS Standard Roller Chain



Premium

SBR[®]

Standard Packing	28B	32B
1 Unit (10')	68P	60P
1 Unit (5m)	114P	100P





28B

SY						Dimens	ions - n	nm					Minimum	Maximum	Average
Chain	Pitch	Ro	ller			Pin				Plate		Trans.	Ultimate	Allowable	Chain
No.		Width	Dia.	Dia.		Len	gth		Height	Thick	ness	Pitch	Strength	Load	Weight
(B S)	Р	W	R	D	LR	LC	Li	Lž	н	Ti	T2	TP	kN	kN	kg/m
28B	44.45	31.00	27.94	15.88	65.1	70.5	32.6	37.9	37.0	6.3	7.4	59.56	200	34.3	9.26
-2	1.1	1.11	6. T	-1	124.7	130.0	111			1.1		11.0	360	58.3	18.45
-3				1.1.1	184.2	189.6	11.1			100			530	85.8	27.65

32B

SY	-					Dimens	ions - n	nm					Minimum	Maximum	Average	
Chain	Pitch	Ro	ller	-		Pin				Plate		Trans.	Ultimate	Allowable	Chain	
No.		Width	Dia.	Dia.		Len	gth		Height	Thick	ness	Pitch	Strength	Load	Weight	
(B S)	Р	р	W	R	D	LR	LC	L1	L2	Н	T1	T2	TP	kN	kN	kg/m
32B	50.80	31.00	29.21	17.81	65.0	71.1	32.5	38.6	42.2	6.3	6.9	58.55	250	39.2	9.92	
-2	1.1		1	1.1	123.4	129.7			1111			1	450	66.6	19.76	
-3				1.1	182.0	188.3							670	98.0	29.61	



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		Double Capacity	Double Strand
ANSI / BS Type	Pitch	Same	
&	Sprocket	Single	Double
Double Pitch	Space	Small	Large
Roller Chain	Weight	Light	Heavy



Premium SBR[®]

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)

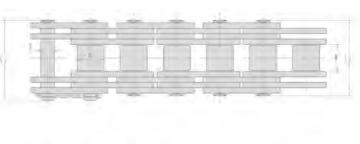
Double Capacity Roller Chain

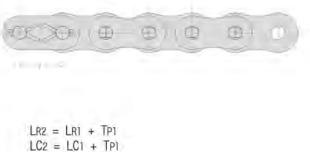


Double Capacity Chain is a single strand chain that offers the same ultimate tensile strength as a double strand chain with a saving of 50%.

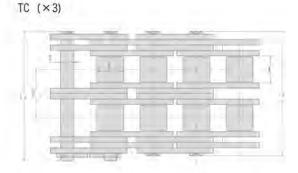
Double Capacity Chain consists of twice the amount of side plates as single strand chain.

DC (×2)

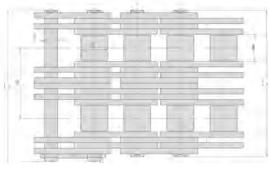




LR3 = LR1 + TP2LC3 = LC1 + TP2



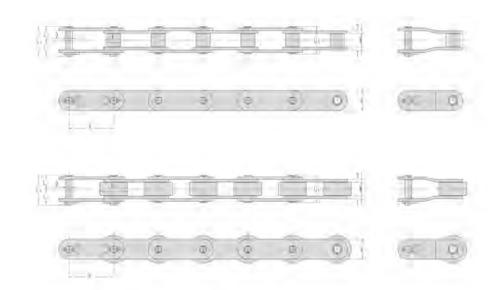




			Din	nensions	- mm					Average		Maximum
SY Chain	Ditals	Ro	ller		Pin		Trans	verse		Ultimate		Allowable
No.	Pitch	Width	Dia,	Dia.	Len	gth	Pi	tch		Strength	(kN)	Load (kN)
	Р	W	R	D	LR1	LC1	TP1	TP2	DC	TC	FC	DC
16BDC · TC · FC	25.40	17.02	15.88	8.26	50.0	53.2	31.9	44.7	137	205	274	19.5
20BDC · TC · FC	31.75	19.56	19.05	10.16	56.0	60.4	36.5	50.5	212	318	424	30.2
24BDC · TC · FC	38.10	25.40	25.40	14.63	75.4	80.5	48.4	68.0	359	538	718	51.2
28BDC · TC · FC	44.45	31.00	27.94	15.88	93.0	98.8	59.6	84.8	447	670	894	63.8
32BDC ·TC ·FC	50.80	31.00	29.21	17.81	92.4	98.5	58.6	83.8	549	823	1098	78.4
80DC · TC · FC	25.40	15.88	15.88	7.93	45.6	48.7	29.3	42.1	157	235	314	22.4
100DC · TC · FC	31.75	19.05	19.05	9.53	55.8	59.5	35.8	51.8	235	352	470	33.5
120DC · TC · FC	38.10	25.40	22.23	11.10	69.0	73.3	45.4	64.2	343	514	686	49.0
140DC · TC · FC	44.45	25.40	25.40	12.70	76,4	81.1	48.9	71.3	451	676	902	64.4
160DC · TC · FC	50.80	31.75	28.58	14.28	90.0	95.1	58.5	84.1	559	838	1118	79.8
180DC · TC · FC	57.15	35.70	35.70	17.45	101.6	107.7	65.8	94.6	726	1089	1452	103.0
200DC · TC · FC	63.50	38.10	39.67	19.83	111.2	120.0	71.6	103.6	932	1398	1864	133.0
240DC · TC · FC	76.20	47.63	47.63	23.78	135.6	143.2	87.8	125.8	1353	2029	2706	193.0



Double Pitch Roller Chain



STANDARD ROLLER TYPE

Premium

SBR[®]

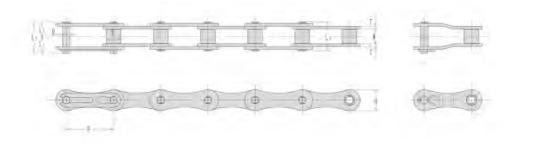
SY				C)imensio	ons - mn	n				Average	Maximum	Average
Chain	Davis	Ro	ler			Pin			Pla	ate	Ultimate	Allowable	Chain
No.	Pitch	Width	Dia.	Dia,		Leng	gth		Height	Thick.	Strength	Load	Weight
(ANSI)	р	W	R	D	LR	Lc	L1	L2	Н	T	kN	kN	kg/m
C2040	25.40	7.95	7.92	3.96	16.5	18.5	8.2	10.3	11.4	1.5	16.9	3.63	0.48
C2050	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
C2060H	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
C2080H	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
C2100H	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
C2120H	76.20	25.40	22.23	11.10	52.6	57.0	26.3	30.7	34.9	5.6	151.0	30.4	4.92
C2160H	101.60	31.75	28.58	14.28	67.7	72.9	33.9	39.0	47.6	7.2	257.9	53.0	8.02

CARRIER ROLLER TYPE

SY				1	Dimensio	ons - mn	1				Average	Maximum	Average
Chain	Dia in	Ro	ller			Pin			Pla	te	Ultimate	Allowable	Chain
No.	Pitch	Width	Dia.	Dia.		Leng	jth		Height	Thick.	Strength	Load	Weight
(ANSI)	Р	W	R	D	LR	LC	Li	L2	H T	kN	kN	kg/m	
C2042	25.40	7.95	15.88	3.96	16.5	18.5	8.2	10.3	11.4	1,5	16.9	3,63	0.82
C2052	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
C2062H	38.10	12.70	22.23	5.95	28.7	31.0	14.4	16.6	17.0	3.2	40,2	8,63	2.08
C2082H	50.80	15.88	28.58	7.93	35.5	38.8	17.8	21.0	22.6	4.0	68,6	14.7	3.36
C2102H	63.50	19.05	39.67	9.53	42.2	45.7	21.1	24.6	28.6	4.8	107.9	22.6	5.64
C2122H	76.20	25.40	44.45	11.10	52.6	57.0	26.3	30.7	34.9	5.6	151.0	30.4	7.87
C2162H	101.60	31.75	57.15	14.28	67.7	72.9	33.9	39.0	47.6	7.2	257.9	53.0	12.77

Double Pitch Roller Chain





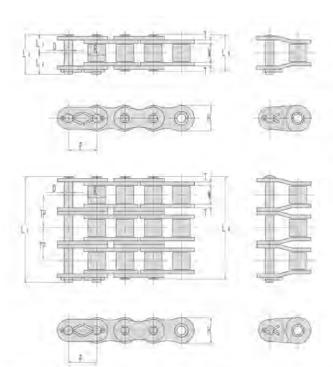
DRIVE SERIES

SY				[Dimensio	ons - mn	n				Average	Maximum	Average
Chain	Disch	Ro	ller			Pin			Pla	ite	Ultimate	Allowable	Chain
No.	Pitch	Width	Dia.	Dia.		Leng	gth		Height	Thick.	Strength	Load	Weight
(ANSI)	Р	W	R	D	LR	Lc	LI	L2	Н	Т	kN	kN	kg/m
A2040	25.40	7.95	7.92	3.96	16.5	17.9	8.3	9.6	11.4	1.5	16.7	3.63	0.43
A2050	31.75	9.53	10.16	5.08	20.4	22.0	10.2	11.8	15.0	2.0	27.5	6.28	0.73
A2060	38.10	12.70	11.91	5.95	25.5	26.9	12.8	14.1	17.0	2.4	40.2	8.64	1.03
A2080	50.80	15.88	15.88	7.93	32.8	35.2	16.4	18.8	22.6	3.2	68.2	14.7	1.71





HE Extra Heavy Series Chain



Premium

SBR[®]

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.

ΗΕ ΤΥΡΕ

			_	_	Dime	nsions -	mm					Average	Maximum	Average
SY	Pitch	Ro	ller			Pin			Pla	te	Trans.	Ultimate	Allowable	Chain
Chain No.		Width	Dia,	Dia.	1	Le	ngth		Height	Thick.	Pitch	Strength	Load	Weight
NO.	Р	W	R	D	LR	LC	Li	L2	н	Т	TP	kN	kN	kg/m
SY BOHE	25.4	15.88	15.88	7.93	35.5	38.8	17.8	21.1	23.4	4.0	E E	93.2	18.4	2.80
SY BOHE 2					68.4	71.3	34.2	37.1	100		32.6	186	28.4	5.54
SY BOHE-3					101.0	104.0	50.5	53.5				280	41.8	8,26
SY BOHE-4					133.6	136.7	66.8	69.9				373	55,1	10.98
SY BOHE-5					166.2	169.3	83.1	86.2				466	65,1	13.71
SY BOHE-6					199.0	201.9	99.4	102.5	1.			559	76.8	16.43
SY BOHE-8					264.0	267.1	132.0	135.1				746	104	21.88
SY 100HE	31.75	19.05	19.05	9,53	42.2	45.7	21.1	24.6	29.3	4.8	1 2	142	28.3	4.14
5Y100HE-2					81.6	85.0	40.8	44.2			39,1	284	45.1	8.20
SY 100HE-3					120.7	124.4	60.4	64.0				426	66.3	12.26
SY100HE-4					159.0	163.5	79.7	83.5				568	87.5	16.33
SY 100HE-5					198.5	202.3	99.3	103.0				710	103	20.39
SY100HE-6					238.2	241.8	119.1	122.7				852	122	24.45
SY 100HE-8					316.4	320.0	158.2	161.8				1136	164	32.58
SY100HE-10			201	1	394.6	398.2	197.3	200.9	-	1		1420	199	40.70
SY120HE	38.10	25.40	22.23	11.10	52.6	57.0	26.3	30.7	35.1	5.6	-	191	38.0	5.83
SY120HE-2					102.0	106.1	51.0	55.1			48.9	382	58.3	11.56
SY120HE-3					150.6	154.6	75.3	79.3	1.1		100	573	85.8	17.29
SY120HE-4					199.2	203.7	99.6	104.1	1			764	113	23.02
Y120HE-5					247.8	252.6	123.9	128.7				955	134	28.75
Y120HE-6					297.6	301.5	148.8	152.7				1146	158	34.48
SY120HE-8					395.4	399.7	197.7	202.0				1528	213	45.94
SY120HE-10					493.2	497.5	246.6	250.9	Carl.			1910	257	57.40

HE Extra Heavy Series Chain





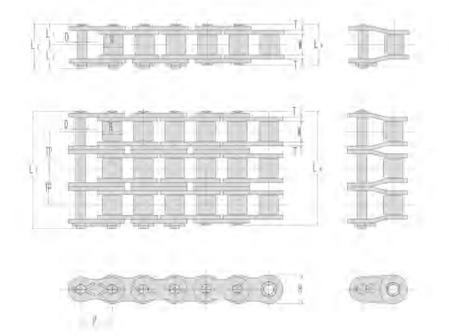
					Dime	nsions -	mm					Average	Maximum	Average
SY	Pitch	Ro	ller			Pin			Pla	te	Trans.	Ultimate	Allowable	Chain
Chain No.	FIGH	Width	Dia.	Dia.		Le	ngth		Height	Thick.	Pitch	Strength	Load	Weight
140.	Р	W	R	D	LR	LC	LI	L2	Н	Т	TP	kN	кN	kg/m
SY140HE	44.45	25.40	25,40	12.70	57.0	61.6	28.5	33.1	40.9	6.4		252	50.3	8.41
SY140HE-2			11.1		109.4	114.0	54.7	59.3	1	1	52.2	504	76.7	16.59
SY140HE-3					161.8	166.4	80,9	85.5				756	113	24.77
SY140HE-4					214.0	218.7	107.0	111.7	16			1008	149	32.96
SY140HE-5					266.2	270.9	133.1	137.8				1260	176	41.15
SY140HE-6					318.4	323.1	159.2	163.9				1512	207	49.33
SY140HE-8	1				422.8	427.5	211.4	216.1				2016	280	65.78
SY160HE	50.80	31.75	28.58	14.28	67.7	72.9	33.9	39.1	46.7	7.2		319	66.3	10.86
SY160HE-2		1.0	1		129.8	134.9	64.9	70.0			61.9	638	100.	21.21
SY160HE-3					191.8	196.8	95.9	100.9			127.22	957	147	31.54
SY160HE-4					253.7	258.8	126.9	131.9				1276	194	41.89
SY160HE-6				a state of	377.5	382.6	188.8	193.8				1914	270	62.58
S Y 180H E	57.15	35.70	35.70	17.45	75.7	81.3	37.9	43.5	52.5	8.0	1	441	70.6	15.18
SY180HE-2	1.1		6.0		144.2	149.8	72.1	77.7	100		68.6	882	121	30.06
SY180HE-3					212.8	218.7	106.4	112.3				1323	179	44.94
SY180HE-4	1.000				281.4	287.4	140.7	146.7	1			1764	236	59.83
SY200HE	63.50	38.10	39.67	19.83	84.9	93.2	42.5	50.8	59.8	9.5		559	82.3	17.85
SY200HE-2	10		1		163.1	172.0	81.6	90.4			78.3	1118	138	35.20
SY200HE-3					241.4	250.3	120.7	129.6				1677	204	52.53
SY200HE-4	dan in				319.8	328.6	159.9	168.7	1			2236	269	69.94
SY240HE	76.20	47.63	47.63	23.78	110.2	117.7	55.6	62.0	70.3	12.7	1	883	112.8	32.29
SY240HE-2			(mapping)	1	211.6	218.9	105.8	113.1			101.2	1766	192	62.06
SY240HE-3					312.6	320.1	156.3	163.8				2649	283	91.82
SY240HE-4					414.0	421.3	207.0	214.3				3532	373	121.58





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

					Dimensi	ons - mm					Average	Maximum	Average	Туре
SY	Distant	Ro	ller			Pin			PI	ate	Ultimate	Allowable	Chain	of
Chain No.	Pitch	Width	Dia.	Dia.		Len	gth		Height	Thick.	Strength	Load	Weight	Conn
NO.	Р	W	R	D	LR	LC	Li	L2	н	T	kN	кN	kg/m	Link
SY 60H	19.05	12.70	11.91	5.95	28.8	30.8	14.4	16.4	17.5	3.2	54.9	10.7	1.80	C
SY 80H	25.40	15.88	15.88	7.93	35.7	38.7	17.9	20.8	23.4	4.0	90.2	18.4	2.81	
SY100H	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	
SY120H	38.10	25.40	22.23	11.10	52.8	57.2	26.4	30.8	35.1	5.6	186	38.0	5.83	
SY140H	44.45	25.40	25.40	12.70	57.2	61.8	28.6	33.2	40.9	6.4	241	50.3	8.41	
SY160H	50.80	31.75	28.58	14.28	67.9	73.0	34.0	39.0	46.7	7.2	306	66.3	10.86	
SY180H	57.15	35.70	35.70	17.45	75.6	81.5	37.8	43.7	52,5	8.0	373	70.6	15.18	
SY200H	63.50	38.10	39.67	19.83	84.8	93.4	42.4	51.0	59.8	9.5	520	82.3	17.85	S
SY240H	76.20	47.63	47.63	23.78	109.8	118.2	54.9	63.3	70.3	12.7	726	112.8	32.29	

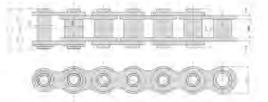


MULTIPLE STRANDS

					Dime	nsions -	mm					Average	Maximum	Average
SY Chain	Pitch	Ro	ller	-		Pin		_	Pla		Trans.	Ultimate	Allowable	Chain
No.	T ICTI	Width	Dia.	Dia.		Ler	gth	_	Height	Thick.	Pitch	Strength	Load	Weight
12.57	Р	W	R	D	LR	LC	Li	L2	Н	T	TP	kN	ĸN	kg/m
5Y 60H-2	19.05	12.70	11.91	5.95	54.9	57.0	27.4	29.6	17.5	3.2	26.1	110	15.2	3.59
SY 60H-3			1.1		80.6	83.1	40.3	42.8				165	22.3	5.39
SY 60H-4	1.00				107.1	109.3	53.6	55.7				220	29.4	7.18
SY 80H-2	25.40	15.88	15.88	7.93	68.4	71.3	34.2	37.1	23.4	4.0	32.6	180	25.8	5.54
SY BOH-3				1.1	101.0	104.0	50.5	53.5	0.00		1000	271	38.0	8.20
SY BOH-4					133.6	136.7	66.8	69.9				361	50.2	10.9
SY BOH-5					166.2	169.3	83.1	86.2				451	59.3	13.7
SY 80H-6					198.8	201.9	99.4	102.5				541	69.9	16.4
SY 80H-8					264.0	267.1	132.0	135.1	-		1.1	722	94.2	21.8
SY100H-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
SY100H-3		1.0	177		120.7	124.4	60.4	64.0	1.1		1.1	414	57.5	12.2
SY100H-4					159.4	163.2	79.7	83.5				548	75.9	16.3
SY100H-5					198.5	202.3	99.3	103.0				685	89.7	20.3
SY100H-6					238.2	241.8	119.1	122.7				822	106	24.4
SY100H-8					316.4	320.0	158.2	161.8				1096	143	32.5
SY100H-10					394.6	398.2	197.3	200.9				1370	173	40.7
SY120H-2	38.10	25,40	22,23	11,10	102.0	106.1	51.0	55.1	35.1	5,6	48.9	372	53,4	11.5
SY120H-3				1.1	150.6	154.6	75,3	79.3			1.00	558	78.5	17.2
SY120H-4					199.2	203.2	99,6	103.6				744	104	23.0
SY120H-5					247.8	252.6	123.9	128.7				930	123	28.7
SY120H-6					297.6	301.9	148,8	153.1				1116	144	34.4
SY120H-8					395.4	399.7	197.7	202.0				1488	195	45.9
SY120H-10					493.2	497.5	246.6	250.9				1860	236	57.40
SY140H-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
SY140H-3		1.1.1.1.1.1.1			161.8	166.4	80.9	85.5				723	103	24.7
SY140H-4					214.0	218.7	107.0	111.7				964	136	32.9
SY140H-5					266.2	270.9	133.1	137.8				1205	161	41.13
SY140H-6					318.4	323.1	159.2	163.9				1446	190	49.3
SY140H-8					422.8	427.5	1.1.1.1.1.1.1	216.1	1			1928	255	65.78
SY160H-2	50.8	31.75	28.58	14.28	129.8	134.9	64.9	70.0	46.7	7.2	61.9	612	93.3	21.2
SY160H-3					191.8	196.8	95.9	100.9				918	137	31.54
SY160H-4		1.000			253.7	258.8	126.9	131.9			1.1	1224	181	41.8
SY160H-6					377.5	382.6	188.8	193.8				1836	253	62.5
SY180H-2	57.15	35.70	35.70	17.45	144.2	149.8	72.1	77.7	52.5	8.0	68.6	746	102	31.00
SY180H-3		0.000	0.000	100.00	212.8	218.7	106.4	112.3	00000	1.11	1.000	1119	149	44.9
SY180H-4		1.00			281.4	287.4	140.7	146.7				1492	197	59.8
SY200H-2	63.50	38.10	39.67	19.84	163.1	172.0	81.6	90.4	59.8	9.5	78.3	1040	127	35.2
SY200H-3		1000			241.4	250.3	120.7	129.6			1.5.5	1560	186	62.53
SY200H-4					319.8	328.4	159.9	168.7				2080	246	69.94
SY240H-2	76.20	47.63	47.63	23.78	211.0	219.4	105.5	113.9	70.3	12.7	101.2	1452	173	62.00
SY240H-3	, J,LU	11.00	11100	Lorro	312.2	320.6	156.1	164.5	10.0	- Cont	15 ML	2178	255	91.82
SY240H-4					413.4	421.8	206.7	215.1				2904	336	121.58
STETUT-4					410.4	761.0	200.1	E 13.1				2304	550	121.0



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.



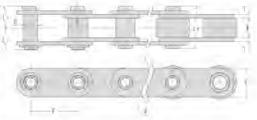
HP STANDARD

					Dimen	sions -	mm					Average	Maximum	Average
SY	Disch	Ro	ller			Hollow	v Pin			Pla	te	Ultimate	Allowable	Chain
Chain No.	Pitch	Width	Dia.	Outside	Inside	1	Length	1		Height	Thick.	Strength	Load	Weight
	Р	W	R	D	d	LR	LC	Li	L2	н	T	kN	kN	kg/m
SY40-HP	12.70	7.95	7.92	5.63	4.03	16.7	17.6	8.4	9.2	12.0	1.5	12.7	1.77	0.58
SY50-HP	15.875	9.53	10.16	7.09	5.13	20.1	21.3	10.1	11.2	15.0	2.0	19.6	3.14	0.97
SY60-HP	19.05	12.70	11.91	8.29	6.04	26.0	27.2	13.0	14.2	18.1	2.4	28.4	4.22	1.46
SY80-HP	25.40	15.88	15.88	11.34	8.08	32.4	34.3	16.2	18.1	24.1	3.2	51.0	7.65	2.47

HP standard are rollerless;R given above shows bushing dia.

Double Pitch Hollow Pin Chains

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.

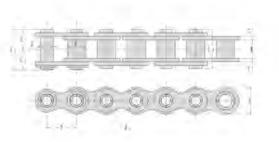


HP DOUBLE PITCH

					Dimen	sions -	mm					Average	Maximum	Average
SY	Pitch	Ro	ller			Hollow	v Pin			Pla	te	Ultimate	Allowable	Chain
Chain No.	Plich	Width	Dia.	Outside	Inside		Len	gth		Height	Thick.	Strength	Load	Weight
110.	Р	W	R	D	d	LR	LC	LI	Lz	Н	Т	kN	kN	kg/m
C2040-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
C2050-HP	31.75	9.53	10.16	7.09	5.13	20.1	21.3	10.1	11.2	15.0	2.0	19.6	3.14	0.76
C2060-HP	38.10	12.70	11.91	8.29	6.04	26.0	27.2	13.0	14.2	18.1	2.4	28.4	4.22	1.12
C2080-HP	50.80	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
C2042-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
C2052-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
C2062-HP	38.10	12.70	22.23	8.29	6.04	26.0	27.2	13.0	14.2	18.1	2,4	28.4	4.22	1.79
C2082-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
C2082H-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 Chains C2040-HP thru C2080-HP are rollerless; R given above shows bushing dia.



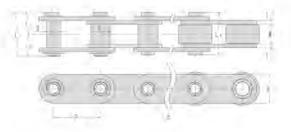


HP-SS STANDARD

5.0					Dimen	sions -	mm					Average	Maximum	Average
SY	Die L	Rol	ler			Pi	'n			Pla	te	Ultimate	Allowable	Chain
Chain No.	Pitch	Width	Dia.	Outside	Inside		Length			Height	Thick.	Strength	Load	Weight
	Р	W	R	D	d	LR	Lc	L1	L2	н	T	kN	kN	kg/m
40HP-SS	12.70	7.95	7.92	5.63	4.03	16.7	17.6	8.4	9.2	12.0	1.5	7.65	0.44	0.58
50HP-SS	15.875	9.53	10.16	7.09	5.13	20.1	21.3	10.1	11.2	15.0	2.0	11.8	0.69	0.97
60HP-SS	19.05	12.70	11.91	8.29	6.04	26.0	27.2	13.0	14.2	18.1	2.4	17.1	1.03	1.46
80HP-SS	25.40	15.88	15.88	11.34	8.08	32.4	34.3	16.2	18.1	24.1	3.2	31.0	1.77	2.47

HP standard are rollerless; R given above shows bushing dia.

Double Pitch Stainless Hollow Pin Chain



HP-SS DOUBLE PITCH

					Dimen	sions -	mm					Average	Maximum	Average
SY		Ro	ler			Pi	n			Pla	ite	Ultimate	Allowable	Chain
Chain No.	Pitch	Width	Dia.	Outside	Inside	-	Length		-	Height	Thick.	Strength	Load	Weight
110.	Р	W	R	D	d	LR	Lc	L1	L2	н	T	ĸN	kN	kg/m
C2040HP-SS	25.40	7.95	7.92	5.63	4.03	16.7	17.6	8.4	9.2	12.0	1.5	7.65	0.44	0.46
C2050HP-SS	31.75	9.53	10.16	7.09	5.13	20.1	21.3	10.1	11.2	15.0	2.0	11.8	0.69	0.76
C2060HP-SS	38.10	12.70	11.91	8.29	6.04	26.0	27.2	13.0	14.2	18.1	2.4	17.1	1.03	1.12
C2080HP-SS	50.80	15.88	15.88	11.34	8.08	32.4	34.3	16.2	18.1	24.1	3.2	31.0	1.77	1.98
C2042HP-SS	25.40	7.95	15.88	5.63	4.03	16.7	17.6	8.4	9.2	12.0	1.5	7.65	0.44	0.81
C2052HP-SS	31.75	9.53	19.05	7.09	5.13	20.1	21.3	10.1	11.2	15.0	2.0	11.8	0.69	1.25
C2062HP-SS	38.10	12.70	22.23	8.29	6.04	26.0	27.2	13.0	14.2	18.1	2.4	17.1	1.03	1.79
C2082HP-SS	50.80	15.88	28.58	11.34	8.08	32.4	34.3	16.2	18.1	24.1	3.2	31.0	1.77	3.17
C2082H-HP-SS	50.80	15.88	28.58	11.34	8.08	35.8	37.7	17.9	19.8	24.1	4.0	31.0	1.77	3.22

SY Chains C2040-HP thru C2080-HP are rollerless; R given above shows bushing dia.



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.

CONSTRUCT DN AND LACING COMBINATIONS

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

AL SER ES (LGHT DUTY)

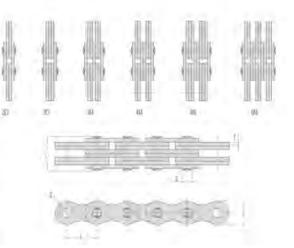
Consisting of link plates of the same contour and thickness as the pin link plates of ANSI roller chains in same pitch. Mainly used for relatively constant, low, medium load with less shock.

BL SER ES (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 SER ES (SO 606)

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



-				Dimensio	ons - mm			Average	Maximum	Average
SY Chain	Lacing	Dista	Р	in	Pla	ate	Hole	Ultimate	Allowable	Weight
No.	Lacing	Pitch	Dia.	Length	Height	Thickness	Dia	Strength	Load	
. Cot.		Р	D	L	Н	T	S	ĸŇ	ĸN	kg/m
AL422	2×2	12.70	3.96	8.4	10.3	1.5	4.03	18.6	1.86	0.36
AL444	4×4			14.6				37.3	3.43	0.70
AL466	6×6			21.2				55.9	3.92	1.04
AL 522	2×2	15,875	5.08	10.5	12.7	2.0	5.15	30.4	3,04	0.58
AL 544	4×4	1.1		19.0			1.00	60.8	5.30	1.16
AL 566	6×6	1.00		27.6				94.1	6.28	1.73
AL 622	2×2	19.05	5.95	12.4	15.2	2.4	6.04	43.1	4,41	0.81
AL644	4×4			22.2		1.1.1	1.2	86.3	7.45	1.68
AL666	6×6			32.6				129	8.73	2.46
AL822	2×2	25.40	7.93	16.6	20.2	3.2	8.00	72.6	7.35	1.42
AL 844	4×4	1 () () () () () () () () () (29.4				145	13.2	2.88
AL866	6×6			43.0				218	15.4	4.23
AL1022	2×2	31.75	9.53	19.6	24.5	4.0	9.59	108	11.6	2.46
AL1044	4×4			36.2				216	20.6	4.81
AL1066	6×6			53.5				324	24.0	7.24
AL1222	2×2	38.10	11.10	24.0	29.2	4.8	11.22	152	16.5	3.35
AL1244	4×4	100 million (1997)		43.7		1.1.1.1		304	29.1	6.58
AL1266	6×6			63.4				456	34.2	9.82
AL1422	2×2	44.45	12.70	27.8	34.2	5.6	12.82	205	22.1	4.99
AL1444	4×4	100		51.2				410	38.9	9.56
AL1466	6×6			73.6				615	46.1	14,13
AL1622	2×2	50.80	14.28	31.8	40.3	6.4	14.47	269	28.3	6.35
AL1644	4×4	The second second		58.4		1.2.2.1		539	49.9	12.62
AL1666	6×6			84.8				809	58.8	18.8



SY		-		20.000000020	ons - mm	-		Average	Maximum	Average
Chain	Lacing	Pitch		in		ate	Hole	Ultimate	Allowable	Weight
No.		_	Dia.	Length	Height	Thickness	Dia	Strength	Load	
		Р	D	L	н	T	S	кN	кN	kg/m
BL422	2×2	12.70	5.08	10.5	11.7	2.0	5,15	27.5	4.51	0.6
BL423	2×3			12.5				27.5	4.51	0.7
BL434	3×4			16.8				40.7	5.30	1.0
BL444	4×4			19.0				54.4	5.98	1.2
BL446	4×6			23.0	_			54.4	5.98	1.5
BL466	6×6			27.5			1	82.5	9.81	1.8
BL 522	2×2	15.875	5.95	12.4	14.6	2.4	6.04	42.7	6.86	1.0
BL 523	2×3			15.0				42.7	6.86	1.1
BL 534	3×4			20.0				64.0	8.33	1.6
BL 544	4×4			22.2				85.3	9.41	1.8
BL546	4×6			27.6				85.3	9.41	2.2
BL 566	6×6			32.4		-	-	127	15.7	2.6
BL 622	2×2	19.05	7.93	16.6	17.5	3.2	8.00	70.6	9.81	1.5
BL 623	2×3			19.5			-	70.6	9.81	1.8
BL634	3×4			26.2				106	12.3	2.6
BL644	4×4			29.2				141	13.7	3.0
BL646	4×6			36.5				141	13.7	4.1
BL666	6×6			43.0	1.11		1.00	212	24.5	4.5
BL822	2×2	25.40	9.53	19.6	24.1	4.0	9.59	114	17.0	2.5
BL823	2×3			23.8				114	17.0	3.1
BL834	3×4			32.5				172	20.6	4.3
BL844	4×4			36.2				228	23.5	4.9
BL846	4×6			45.0				228	23.5	6.2
BL866	6×6			53.5	-			342	40.2	7.4
BL1022	2×2	31,75	11.10	24.0	29.3	4.8	11,20	157	26.0	3.7
BL1023	2×3	51,15	11.10	28.6	20.0	4.0	11.20	157	26.0	4.6
BL1034	3×4			38.7				245	31.4	6.5
BL1044	4×4			43.7				314	36.3	7.4
BL1044	4×6			53.4				314	36.3	9.2
BL1046	6×6			63.4	-		64 A.S. 44	471	58.8	11.0
BL1222	2×2	38,10	12.70	27.8	35.1	5.6	12.82	207	36.8	4.7
BL1223	2×2	30,10	12.70	34.2	55,1	5.0	12.02	207	36.8	6.4
	3×4			45.5				332	44.1	9.0
BL1234	4×4			51.2				414	50.5	
BL1244	10.000			62.6				1 C	50.5	10.2
BL1246	4×6			73.6				414		11.8
BL1266	6×6	44.45	14.00		10.0	C 4	14.20	621	73.1	14.4
BL1422	2×2	44.45	14.28	31.8	40.9	6,4	14.39	270	49.0	7.8
BL1423	2×3	_		38.8				270	49.0	8.9
BL1434	3×4			51.7				405	58.8	11.6
BL1444	4×4			58.4				539	67.7	12.8
BL1446	4×6			71.2				539	67.7	17.8
BL1466	6×6			84.8			17.75	810	95.1	22.3
BL1622	2×2	50,80	17.45	35.8	46.7	7.2	17.62	392	58.8	9.7
BL1623	2×3			43.7				392	58.8	12.0
BL1634	3×4			58.9				618	70.6	16.8
BL1644	4 × 4			65.9				785	80.4	18.8
BL1646	4×6			80.2				785	80.4	23.9
BL1666	6×6			96.2			1.00	1176	137.3	28.5









NEO Corrosion

Resistant Chain

Amazingly High Corrosion Resistance









What is NEO?

"NEO" C-Z coating is a combination of C-COAT and Z-COAT that improves their already high corrosion resistance properties.

C-COAT is a non-aqueous chromating method, the porous properties of Z-COAT are utilized are to form a film that demonstrates excellent corrosion resistance characteristics.

- NEW C-Z exhibits superior corrosion resistance properties, particularly in high temperatures, compared to existing electro zinc plating
- Even more outstanding than existing phosphating etc. As a corrosion resistant surface treatment
- No hydrogen embrittlement
- No drop in strength caused through high temperature treatments
- Has all the other excellent properties of C-COAT and Z-COAT

Applications

- · Washdown areas, abattoirs, dairies, etc
- High humidity environments
- · Agricultural machinery
- Oven conveyors or Drives For Industry Acidic and salty environments

Available in: 08B-1 to 20B-1, 40-1 to 100-1 and C2040 to C2080

NEO Corrosion Resistant Chain







"NEO' CZ COAT's Film Structure and Rust Prevention Mechanism

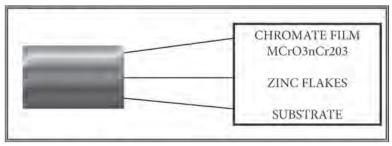
The Z-COAT film is formed by projecting Z-IRON onto the surface of the material to transfer a zinc layer. The transferred zinc is laminated an bonded in a thin layer onto the treated surface. The layer makes a metal to metal contact exhibiting good current carrying properties among the zinc flakes, and between the zinc flakes and substrate, and thus the galvanic protective current of the zinc flows for the correct amount.

C-COAT film is formed by treating with cool chron to partially reduce chromic acid on the treated surface, and by forming an amorphous polymer with composition of mCrO3nCr203, namely a chromate film.

'NEO' is a combination of both C-COAT and Z-COAT that forms a chromate film on the surface of the laminated zinc flakes and in voids. Coll chron demonstrates extremely low surface tension due to it being a non-aqueous solution, and penetrates into fine gaps, and passivates its surface.

The corrosion protection mechanism of 'NEO' has the compounded result of the following three factors:

- · Galvanic protection of the zinc properly controlled by chromic acid
- Passivation of the substrate by the chromic acid
- The barrier effect of the zinc flakes

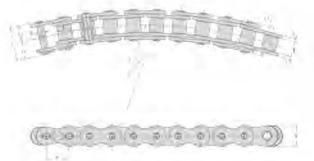


Through the combined use of C-COAT & Z-COAT, 'NEO' Chain offers an amazingly high degree of corrosion resistance.

Available in: 08B-1 to 20B-1, 40-1 to 100-1 and C2040 to C2080



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.



SB STANDARD

						Dimen	isions -	mm					Average	Maximum	Average
	SY	Date	Ro	ller			Pin			Pla	te	Min.Curve		Allowable	Chain
	hain No.	Pitch	Width	Dia.	Out Dia.		Len	gth		Height	Thick.	Radius	Strength	Load	Weight
		Р	W	R	D	LR:	LC	L1	L2	H	Т	r	kN	kN	kg/m
SY	40-SB	12.70	7.95	7.92	3.96	16.9	18.9	8.5	10.4	11.7	1.5	350	14.9	1.77	0.63
SY	50-SB	15.875	9.53	10.16	5.08	21.1	23.1	10.6	12.5	14.6	2.0	400	22.1	3.14	1.03
SY	60-SB	19.05	12.70	11.91	5.95	26.3	28.1	13.2	14.9	17.5	2.4	500	29.4	4.22	1.46
SY	80-SB	25.40	15.88	15.88	7.93	33.4	36.4	16.7	19.7	23.4	3.2	600	57.9	7.65	2.42

OStainless steel, nickel plated, and with attachments are supplied on request.

Side Bow Double Pitch Chains

SY Double pitch side bow chains are manufactured to the same high standards as our regular side bow chains but are better suited when shaft centers are relatively long. Available in standard roller or carrier roller type.





SB DOUBLE PITCH

					Dimen	sions -	mm					Average	Maximum	Average
SY Chain Pitch No. P	Ditate	Roller		Pin					Plate		Min.Curve	Ultimate	Allowable	Chain
	Pitch	Width	Dia.	Out Dia.	Length			Height	Thick.	Radius	Strength	Load	Weight	
	Р	P W R		D	LR	Lc	L1	Lz	н	T	ŕ	kN	ĸN	kg/m
C2040-SB	25.40	7.95	7.92	3.96	16.9	18.9	8.5	10.4	11.4	1.5	700	14.9	1.77	0.48
C2050-SB	31.75	9.53	10.16	5.08	21.1	23.1	10.6	12.5	15.0	2.0	800	22.1	3.14	0.82
C2060-SB	38.10	12.70	11.91	5.95	26.3	28.1	13.2	14.9	17.0	2.4	1000	29.4	4.22	1.20
C2042-SB	25.40	7.95	15.88	3.96	16.9	18.9	8,5	10.4	11.4	1,5	700	14.9	1.77	0.82
C2052-SB	31.75	9.53	19.05	5.08	21.1	23.1	10.6	12.5	15.0	2.0	800	22.1	3.14	1.26
C2062-SB	38,10	12.70	22.23	5.95	26.3	28.1	13,2	14.9	17.0	2.4	1000	29.4	4.22	2.01

Stainless Steel Chain



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

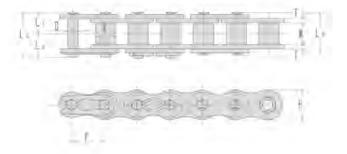
SSS series stainless steel roller chains with solid rollers.

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



				I	Dimensio	ons - mn	n				Minimum	Maximum	Average
SY	Ditate	Ro	ller	1		Pin			Plate		Ultimate	Allowable	Chain
Chain No.	Pitch	Width	Dia.	Dia.	Length			Height	Thick.	Strength	Load	Weight	
110.	Р	W	R	D	LR	Lc	LT	L2	Н	T	kN	kN	kg/m
06B-SS	9.525	5.72	6.35	3.28	12.6	13.4	6.3	7.1	8.2	1.0/1.25	6.18	0.27	0.43
08B-SS	12.70	7.75	8.51	4.45	16.7	17.8	8.4	9.4	11.8	1.5	10.3	0.52	0.61
10B-SS	15.875	9.65	10.16	5.08	19.0	20.6	9.5	11.1	14.7	1.65	15.7	0.68	0.89
12B-SS	19.05	11.68	12.07	5.72	22.0	23.6	11.0	12.6	16.1	1.8	18,1	0.88	1.14
16B-SS	25.40	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
C	Р	W	R	D	LR	LC	L1	L2	Н	T1/T2	κN	kN	kg/m
SY 35-SS	9.525	4.78	▲5.08	3.58	12.2	13.7	6.1	7.6	9.0	1.25	5.68	0.26	0.34
SY 40-SS	12.70	7.95	7.92	3.96	16.9	18.5	8.5	10.0	11.7	1.5	11.1	0.44	0.60
SY 50-SS	15.875	9.53	10.16	5.08	20.8	22.3	10.4	11.9	14.6	2.0	17.6	0.68	0.98
SY 60-SS	19.05	12.70	11.91	5.95	26.0	27.9	13.0	14.9	17.5	2.4	24.5	1.03	1.46
SY 80-SS	25.40	15.88	15.88	7.93	32.8	35.5	16.4	19.1	23.4	3.2	42.3	1.77	2.52
SY 100-SS	31.75	19.05	19.05	9,53	40.0	43.3	20.0	23.3	29.3	4.0	51.0	2.55	3.91
₩SY 120-S	s 38.10	25.40	22.23	11.10	50.4	54.2	25.2	29.0	35.1	4.8	68.6	3.92	5.76
₩SY 140-S	s 44.45	25.40	25.40	12.70	54.0	58.3	27.0	31.3	40.9	5.6	88.2	4.66	7.41
₩SY 160-S	s 50.80	31.75	28.58	14,28	64.3	68.7	32.2	36.5	46.7	6.4	109.8	6.37	9.79

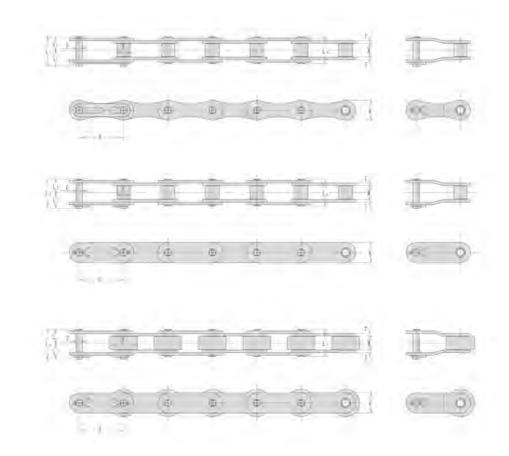
BS AND ANSI STAINLESS STEEL CHAIN

▲C hain is rollerless R shows bushing dia.

%304 Stainless steel.



Stainless Steel Chain



DOUBLE PITCH STAINLESS STEEL CHAIN

Premium

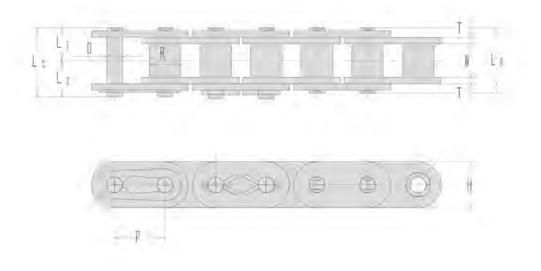
SBR[®]

				Di	mension	ns - mm	6				Average	Maximum	Average
SY	Dista	Ro	ller			Pin			Pla	te	Ultimate	Allowable	Chain
Chain No.	Pitch	Width	Dia.	Dia.		Len	gth		Height	Thick.	Strength	Load	Weight kg/m
NO.	р	W	R	D	LR	Lc	L1	L2	н	T	kŇ	кN	
A2040-SS	25.40	7.95	7.92	3.96	16.9	18.5	8.5	10.0	11.4	1.5	12.4	0.44	0.43
A2050-SS	31.75	9.53	10.16	5.08	20.8	22.3	10,4	11.9	15.0	2.0	20.3	0.68	0.73
A2060-SS	38.10	12.70	11.91	5.95	26.0	27.9	13.0	14.9	17.0	2.4	27.4	1.03	1.03
A2080-SS	50.80	15.88	15.88	7.93	32.8	35.5	16.4	19.1	22.6	3.2	47.1	1.77	1.71
C2040-SS	25.40	7.95	7,92	3.96	16.9	18.5	8.5	10.0	11.4	1.5	12.4	0.44	0.48
C2050-SS	31.75	9.53	10.16	5.08	20.8	22.3	10.4	11.9	15.0	2.0	20.3	0.68	0.82
C2060H-SS	38.10	12.70	11.91	5.95	28.8	30.9	14.4	16.5	17.0	3.2	27.4	1.03	1.38
C2080H-SS	50.80	15.88	15.88	7.93	35.7	38.8	17.9	20.9	22.6	4.0	47.1	1.77	2.32
C2100H-SS	63.50	19.05	19.05	9.53	42.4	46.0	21.2	24.8	28.6	4.8	56.9	2.55	3.46
C2120H-SS	76.20	25.40	22.23	11.10	52.8	57.2	26.4	30.8	34.9	5.6	76.5	3.92	4.92
C2160H-SS	101.60	31.75	28.58	14.28	67.9	73.1	34.0	39.1	47.6	7.2	123	6.37	8.02
C2042-SS	25.40	7.95	15.88	3.96	16.9	18.5	8.5	10.0	11.4	1.5	12.4	0.44	0.82
C2052-SS	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
C2062H-SS	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
C2082H-SS	50.80	15.88	28.58	7.93	35.7	38.8	17.9	20.9	22.6	4.0	47.1	1.77	3.36
C2102H-SS	63.50	19.05	39.67	9.53	42.4	46.0	21.2	24.8	28.6	4.8	56.9	2.55	5.64
C2122H-SS	76.20	25.40	44.45	11.10	52.8	57.2	26.4	30.8	34.9	5.6	76.5	3.92	7.87
C2162H-SS	101.60	31.75	57.15	14.28	67.9	73.1	34.0	39.1	47.6	7.2	123	6.37	12.77



SY ANSI straight sidebar chains are identical with ANSI standard chains except for the straight side plates. Provided with higher fatigue resistance than the standard chains.

Sprockets for ANSI standard chains may be used for these chains. For identification, a suffix of F is added to the standard chain numbers as listed below.

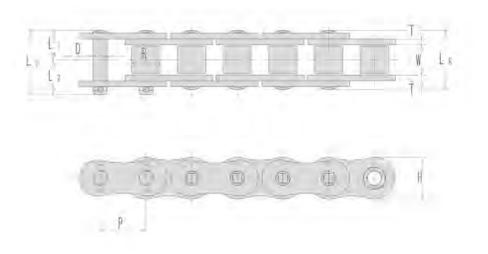


		-				Dimensi	ons - mm					Average	Maximum	Average	Type of
	ŝΥ	Ditala	Ro	ller			Pin			Pl	ate	Ultimate	Allowable	Chain	
	nain Io.	Pitch	Width	Dia.	Dia.		Len	gth		Height	Thick.	Strength	Load	Weight	Conr
1	10.	Р	W	R	D	LR	LC	L1	L2	н	T	кN	ĸN	kN kg/m	
SY	35F	9.525	4.78	5.08	3.58	12.0	12.9	6.0	6.9	9.0	1.25	10.8	2.23	0.38	Spcl
SY	40F	12.70	7.95	7.92	3.96	16.5	17.7	8.3	9.4	11.7	1.5	19.1	4.17	0.67	
SY	50F	15.875	9.53	10.16	5.08	20.4	21.9	10.2	11.7	14.6	2.0	31.9	7.22	1.1	
SY	60F	19.05	12.70	11.91	5.95	25.5	26.9	12.8	14.1	17.5	2.4	43.1	10.7	1.63	
SY	80F	25.40	15.88	15.88	7.93	32.8	35.0	16.4	18.6	23.4	3.2	78.5	18.4	2.82	С
SY	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	
SY	120F	38.10	25.40	22.23	11.1	49.5	53.4	24.8	28.6	35.1	4.8	167	38.0	6.45	
SY	140F	44.45	25.40	25.40	12.7	54.0	58.3	27.0	31.3	40.9	5.6	216	50.3	8.29	
SY	160F	50.80	31.75	28.58	14.28	64.3	68.7	32.2	36.5	46.7	6.4	275	66.3	10.96	
SY	200F	63.50	38.1	39.67	19.83	78.5	87.0	39.3	47.7	59.8	8.0	451	82.3	18.96	
SY	240F	76.20	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.

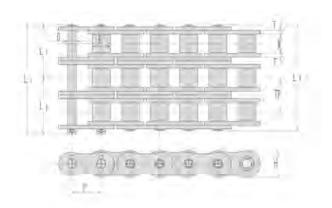
- 2. Riveted type chain will be provided unless otherwise specified. Cottered type chain will be provided upon request.
- 3. Press-fitted type connecting links will be supplied.

SINGLE STRANDS

SY					Di	imensio	ns - mm					Average	Maximum	Average
Chai	n		Rol	ler			Pin			Plate		Ultimate	Allowable	Chain
No. (ANSI)		Pitch	Width	Dia. R	Dia.	Dia. Length					Thick.	Strength	Load	Weight
		Р	W		D	LR	Lc	L1 L2	н	Т	kN	kN	kg/m	
SUPER	80	25.40	15.88	15.88	7.93	32.6	35.5	16.3	19,2	24.1	3.2	84.3	18.6	2.81
SUPER	100	31.75	19.05	19.05	9.53	39.8	43.2	19.9	23.3	30.1	4.0	127	30.4	4.26
SUPER	120	38.10	25.40	22.23	11.10	49.7	53.7	24.9	28.8	36.2	4.8	186	39.2	6.30
SUPER	140	44.45	25.40	25.40	12.70	54.0	58.3	27.0	31.3	42.2	5.6	245	53.9	8.04
SUPER	160	50.80	31.75	28.58	14.28	64.4	69.0	32.2	36.8	48.2	6.4	314	70.6	10.8
SUPER	200	63.50	38.10	39.67	19.83	78.6	86.2	39.3	46.9	60.3	8.0	490	94.1	17.6
SUPER	240	76.20	47.63	47.63	23.78	96.4	103.4	48.2	55.2	72.4	9.5	726	132	25.6
SUPER	80H	25.40	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	38.10	25.40	22.23	11.10	52.8	57.3	26.4	30.9	36.2	5.6	196	42.2	6.94
SUPER	140H	44.45	25.40	25.40	12.70	57.2	61.9	28.6	33.3	42.2	6.4	255	56.9	8.87
SUPER	160H	50.80	31.75	28.58	14.28	67.9	72.8	34.0	38.8	48.2	7.1	324	73.5	11.7

Super Roller Chain





MULTIPLE STRANDS

	Dimensions - mm												Maximum	Average
SY Chain	Pitch	Ro	ller			Pin			Pla	te	Trans.	Ultimate	Allowable	Chain
No.	FIGH	Width	Dia,	Dia.		Le	ngth		Height	Thick.	Pitch	Strength	Load	Weight
1275	Р	W	Ŕ	D	LR	LC	L1	L2	н	Т	TP	kN	kN	kg/m
SUPERBO-2	25.40	15.88	15.88	7.93	62.0	64.9	31.0	33.9	24.1	3.2	29.3	169	31.6	5.63
SUPER80-3				1.27	91.3	94.2	45.7	48.5		1.2.1		253	46.5	8.41
SUPER80-4					120.6	123.5	60.3	63.2				337	61.4	11.18
SUPER 100-2	31.75	19.05	19.05	9.53	75.4	79.0	37.7	41.3	30.1	4.0	35.8	254	51.7	8.38
SUPER100-3	-			1	111.2	114.8	55.6	59.2	1.1	1.6	1.000	381	76.0	12.57
SUPER 100-4		h dire."		1	147.0	150.6	73.5	77.1	1		1	508	100	16.77
SUPER 120-2	38.10	25.40	22.23	11.10	95.4	99.4	47.7	51.7	36.2	4.8	45.4	372	66.6	12.44
SUPER120-3		1.1			140.8	144.8	70.4	74.4	1.00			558	98.0	18.65
SUPER120-4					186.2	190.2	93.1	97.1	L			744	129	24.85
SUPER140-2	44.45	25.40	25,40	12.70	103.3	107.6	51.7	55.9	42.2	5.6	48.9	490	91.6	15.92
SUPER140-3	1.1			1.1	152.2	156.5	76.1	80.4				735	135	23.84
SUPER140-4					201.1	205.4	100.6	104.8				980	178	30.72
SUPER160-2	50.80	31.75	28,58	14.28	123.2	127.8	61.6	66.2	48.2	6.4	58.5	628	120	21.44
SUPER160-3					181.7	186.3	90.9	95.4	1.			942	177	32.10
SUPER160-4				1	240.2	244.8	120.1	124.7				1256	233	42.84
SUPER200-2	63.50	38.10	39.67	19.83	150.6	158.2	75.3	82.9	60.3	8.0	71.6	980	160	34.91
SUPER200-3				100	222.2	229.8	111.1	118.7		1.14		1470	235	52.44
SUPER200-4					293.8	301.4	146.9	154.5				1960	311	69.74
SUPER240-2	76.20	47.63	47.63	23.78	184.2	191.2	92.1	99.1	72.4	9.5	87.8	1452	224	50.88
SUPER240.3	1.0				272.0	279.0	136.0	143.0			1.000	2178	330	76.12
SUPER240-4					359.8	366.8	179.9	186.9		_		2904	436	101.40
SUPER 80H-2	25.40	15.88	15.88	7.93	68.6	399.4	34.3	365.1	24.1	4.0	32.6	196.2	35.02	6.67
SUPER 80H-3	-	-	-		101.2	432.0	50.6	381.4	1.2.2	100		294.3	51.5	9.96
SUPER100H-2	31.75	19.05	19.05	9.53	81.6	85.4	40.8	44.6	30.1	4.8	39.1	290	55.08	9.6
SUPER100H-3					120.7	124.5	60.4	64.1	2	1	1.4	435	81.0	14.4
SUPER120H-2	38.10	25.40	22.23	11.10	102.0	173.4	51.0	122.4	36.2	5.6	48.9	392	71.74	13.71
SUPER120H-3	1.00			1.1.1	150.9	222.3	75.5	79.6			1.00	588	105.5	20.55
SUPER140H-2	44.45	25.40	25.40	12.70	109.6	274.5	54.8	219.7	42.2	6.4	52.2	510	96.73	17.56
SUPRR140H-3	11.00				161.8	326.7	80.9	245.8		1.1	127	765	142.25	26.3
SUPER160H-2	50.80	31.75	28.58	14.28	223.7	388.6	111.9	276.8	48.2	7.1	61.9	648	124.95	23.15
SUPER160H-3	100	1.11		151	285.6	450.5	142.8	100.7	1 - 1 - 21	1	100.00	972	183.75	34.67



Premium SBR°

Lubrication

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.
- Generally, heavy oil and grease are not suitable as a lubricant.
- Avoid mix of oil with another kind or other maker's.
- Adequate lubrication quantity is also essential for a chain's longer service life.

Туре	Method	Amount
	Manual lubrication	 Periodically to keep chain joints from drying
A	Dripping lubrication	 Usually 4-20 drops of oil per minute. Excess oil should be reserved in a simple case.
	Oil bath lubrication	●Effective at medium and low speeds. ●To be dipped 6~12 mm.
в	Lubrication by For large spee	slinger disc ratio ●Effective at rather high speeds. ●To be dipped 12~25mm a about 200m/min. circumferentia speed of slinger disc.
	Lubrication by For small spee	d slinger disc ratio •Case should be cleaned to re- move 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.
	1	emperature[C]
	SY -10 0 40	50 -10 0 40 50

SY Chain No.	-10 0	0 40	40 50	50 60	-10 0	0 40	40 50	50 60		
Lubrication Type		ТҮРЕ	A · B		TYPE C					
~SY50	SAE 10	SAE20	SAE 30	SAE 50	SAE10	SAE20	SAE 30	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 centers or take-up Inspect & remove obstruction Tighten bolts and check bearings
C hain 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
C hain stiffens	 Excessive load Misalignment Inadequate lubrication Corrosin 	 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