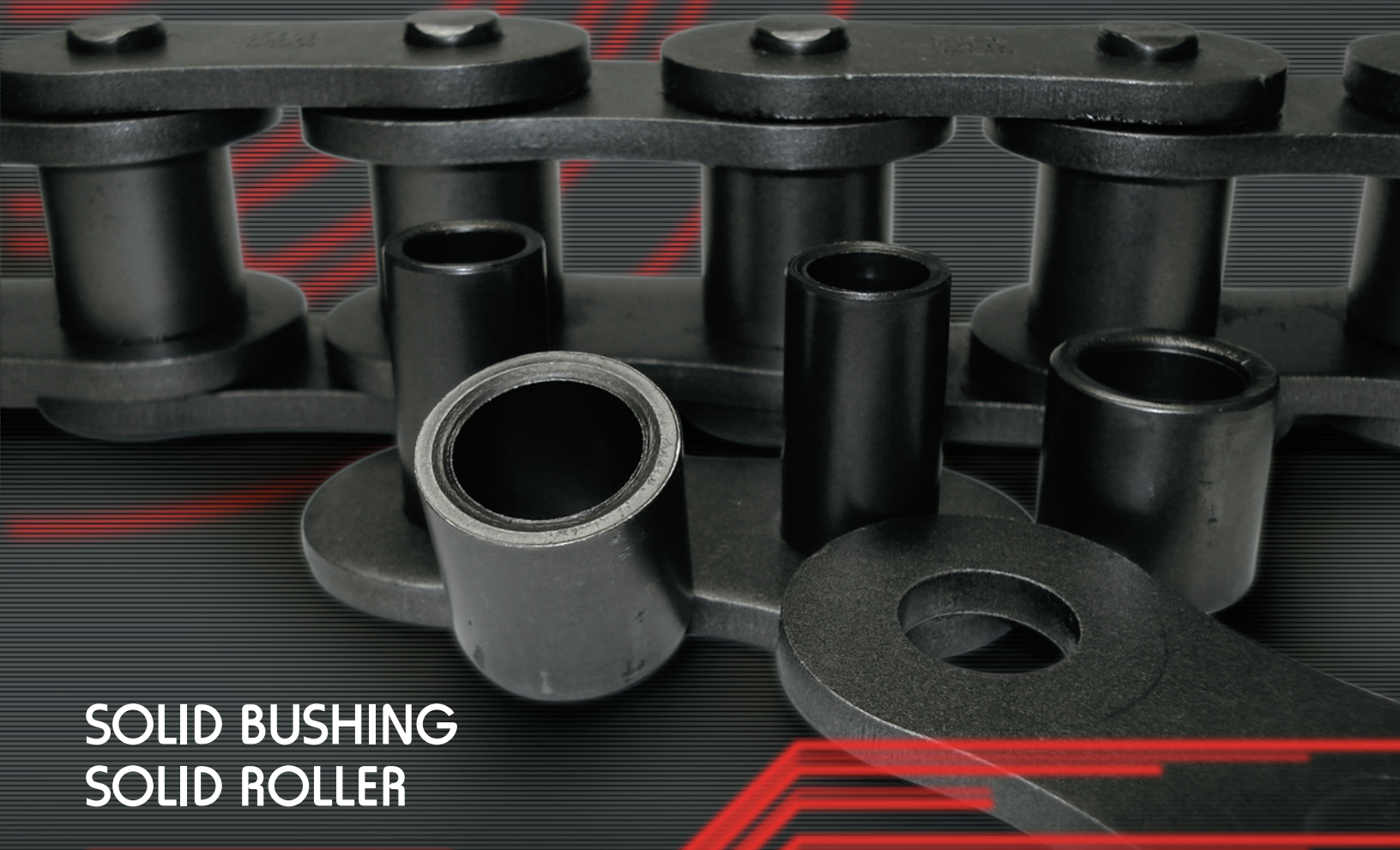
Catalogue No. PIC2010

RBL® PREMIUM

PRECISION INDUSTRIAL CHAINS



SOLID BUSHING
SOLID ROLLER

ringball corporation

- Self Lube Chains (Sintered Steel Bushing)

- Motorcycle Roller Chains

- Bushed Chains

- Leaf Chains

- Attachment Chains

- Technical information

PREMIUM SERIES SOLID BUSHING SOLID ROLLER

Chain No.	Competitor (Lbs)
16B	2 832
20B	4 406
24B	6 182
28B	7 711
32B	8 812

30%UP

RBL Premium (Lbs)
3 684
5 732
8 025
10 004
11 465

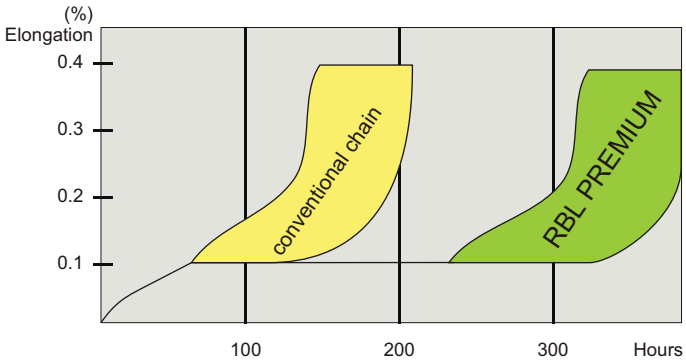
Chain No.	Competitor (Lbs)
80	3 305
100	5 080
120	6 834
140	9 037
160	11 914
180	13 668
200	16 096
240	22 255

30%UP

RBL Premium (Lbs)
4 294
6 609
8 880
11 757
15 511
17 759
20 906
29 000

① Solid Bushing and Roller
② High Allowable Load
③ New Connecting Link
④ Long Life
⑤ Excellent appearance

Wear resistance test



THE ULTIMATE ROLLER CHAIN PREMIUM SERIES

SOLID BUSHING SOLID ROLLER

RBL PREMIUM ROLLER CHAIN

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.

New Connecting Link

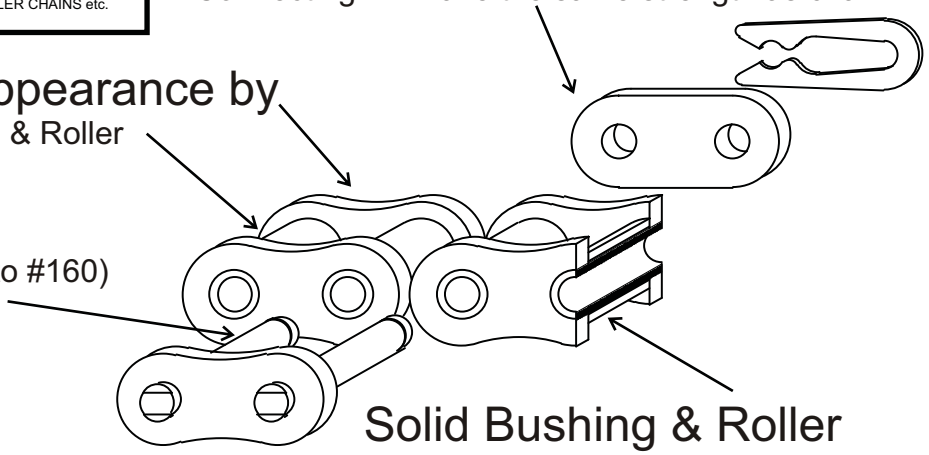
Connecting link have the same strength as chain

Excellent appearance by

Silver Color Plate & Roller

High Allowable Load

Special Pin (25% higher for #60 to #160)

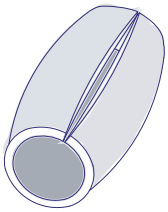


Solid Bushing & Roller Long Life

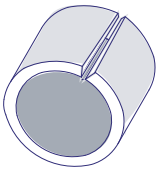
RBL Solid Bushing offers 2 times more life

The RBL PREMIUM Solid Bushing Solid Roller Chain is made in Japan

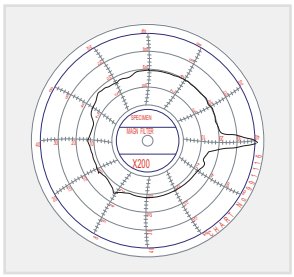
Conventional Chain

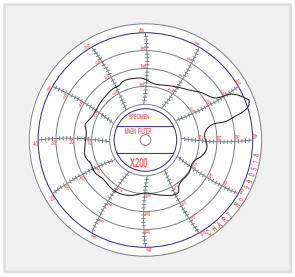


Curled Bushing

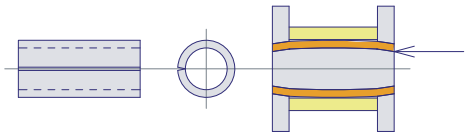


Curled Roller



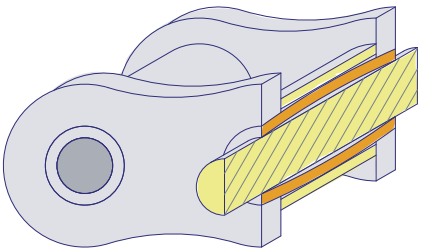


Roundness inside bushing



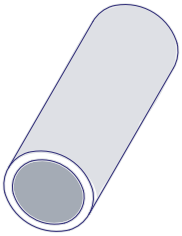
Before Assembly After Assembly

Bushing ID becomes barrel-shaped as a result of press fit and makes uneven contact between pin and bushing.

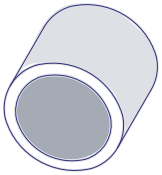


Wear aress causing elongation by barrel-shaped curled bushing.

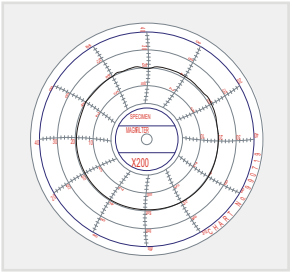
RBL PREMIUM Chain



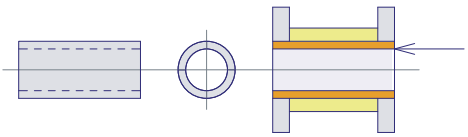
Solid Bushing



Solid Roller

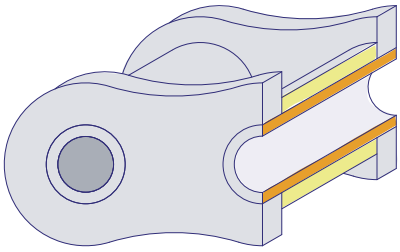


Excellent roundness inside bushing



Before Assembly After Assembly

RBL solid bushing assures perfect straight ID surface after assembly.



Optimal bearing surface due to perfectly cylindrical parts.

STANDARD ROLLER CHAINS

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

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

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

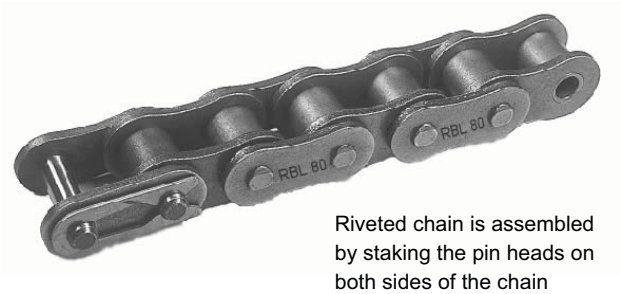
NOMENCLATURE

120-2 R 2L A-2

- A-2: Type of att.
- 2L: Space of att. (L=pitch)
- R: Type of pin link
- 2: strand
- 120: RBL chain No

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)

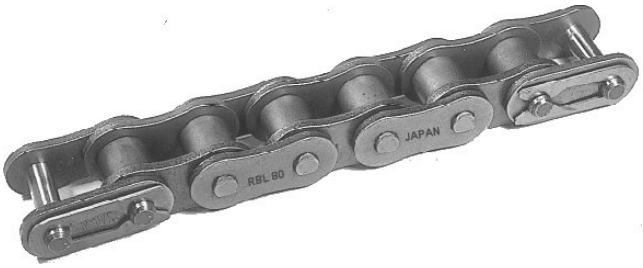
Ordinarily even number of pitches includes a C/L on one end.

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.

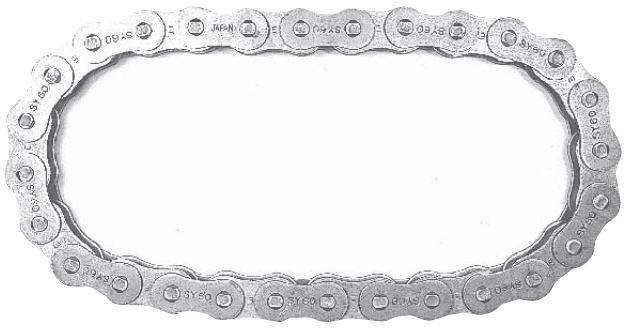
Roller chain with connecting links (C/L's)on both ends.

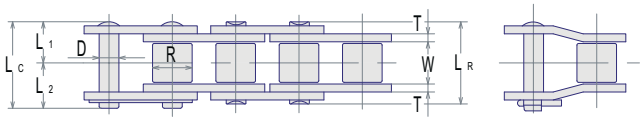
For odd pitches(not endless),2C/L's are incorporated on request.

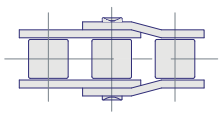


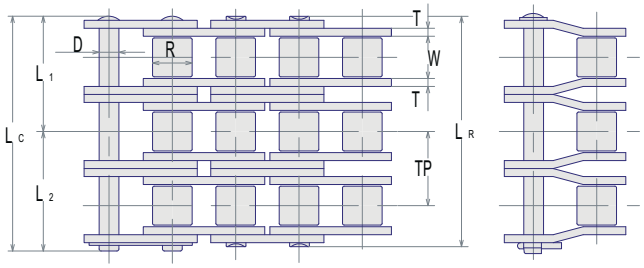
Roller chain endless

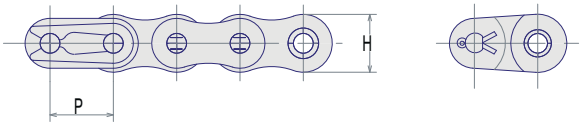
If an endless chain assembly is required, please specify whether it is to be riveted endless or cotter-connected.






2 Pitch Offset





Item	See Page
Attachment Chain	58 59
Rust Less	31 37 42
SL Self-Lube Chain	44
SLR Self-Lube Chain	46 48
Drive Chain Selection	66 67
Horsepower Rating	74

Standard Packing	25	35
1 Unit ☐10'☐	480P	350P
On a Reel	100’	100’

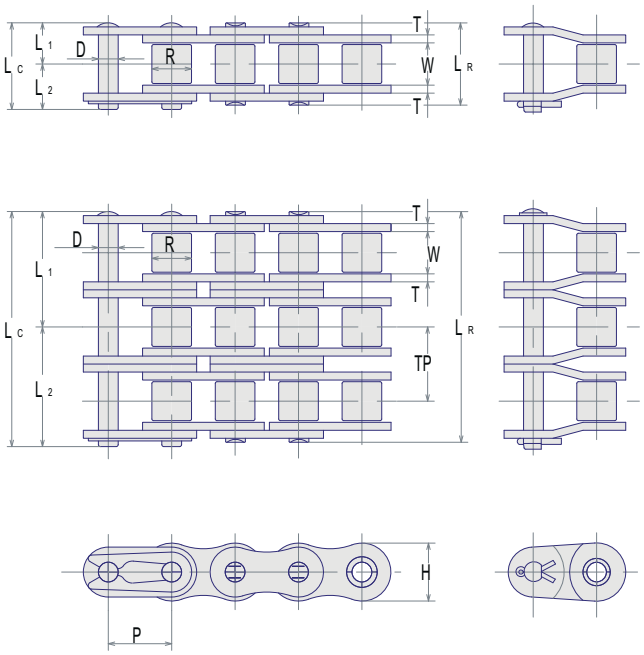
25 (BUSHED CHAIN)

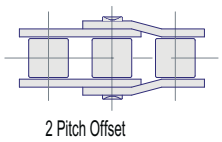
Chain No. (ANSI)	Dimensions - inch											Average Ultimate Strength	Maximum Allowable Load※	Average Chain Weight
	Pitch	Bushing		Pin					Plate		Trans. Pitch			
		Width	Dia.	Dia.		Length			Height	Thick.				
	P	W	R	D	LR	LC	L1	L2	H	T	TP	Lbs	Lbs	Lbs/ft
25	1/4	1/8	.125	.090	.300	.339	.150	.189	.230	.030	☐	1,020	136	.09
25-2					.552	.591	.276	.315			.252	2,037	230	.18

35 (BUSHED CHAIN)

Chain No. (ANSI)	Dimensions - inch											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	Lbs	Lbs	Lbs/ft
35	3/8	3/16	.200	.141	.472	.508	.236	.272	.347	.050	☐	2,400	560	.23
35-2					.874	.906	.437	.469			.398	4,800	950	.42
35-3					1.268	1.303	.634	.669				7,200	1,400	.62
35-4					1.669	1.701	.835	.866				9,600	1,850	.82
35-5					2.063	2.094	1.031	1.063				12,000	2,180	1.05
35-6					2.465	2.500	1.232	1.268				14,400	2,580	1.27

※Refer to page 72. “Selection of offset link”




2 Pitch Offset

Item	See Page
Attachment Chain	58 59
Rust Less	31 37 42
SL Self-Lube Chain	44
SLR Self-Lube Chain	46 48
Drive Chain Selection	66 67
Horsepower Rating	74

Standard Packing	40	41
1 Unit ☐10'☐	240P	240P
On a Reel	100’	100’

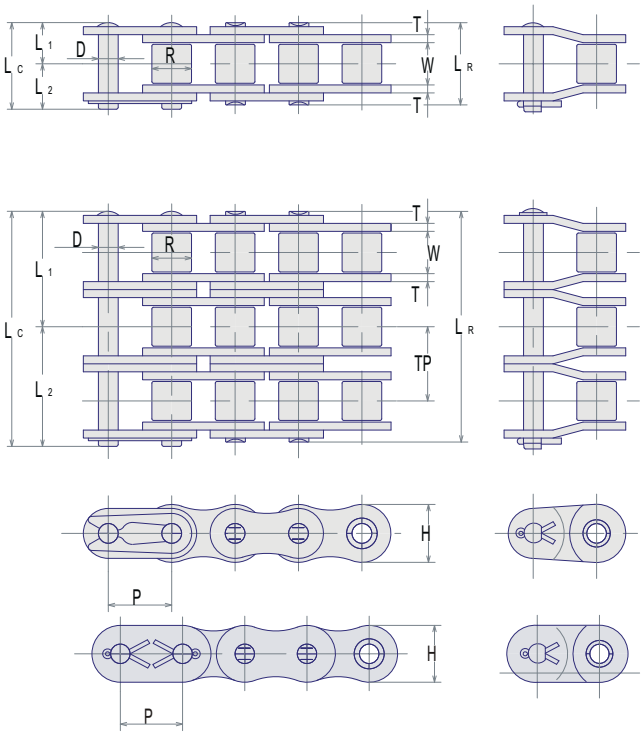
40

Chain No. (ANSI)	Dimensions - inch											Average Ultimate Strength	Maximum Allowable Load※	Average Chain Weight
	Pitch	Roller		Pin					Plate		Trans. Pitch			
		Width	Dia.	Dia.	Length				Height	Thick.				
	P	W	R	D	LR	LC	L1	L2	H	T	TP	Lbs	Lbs	Lbs/ft
40	1/2	5/16	.312	.156	.654	.705	.327	.378	.463	.060	☐	4,300	940	.40
40-2					1.213	1.268	.606	.661			.567	8,600	1,600	.82
40-3					1.772	1.835	.886	.949				12,900	2,350	1.24
40-4					2.362	2.394	1.181	1.213				17,200	3,100	1.65
40-5					2.937	2.976	1.469	1.508				21,500	3,670	2.11
40-6					3.504	3.539	1.752	1.787				25,800	4,320	2.54

41

Chain No. (ANSI)	Dimensions - inch											Average Ultimate Strength	Maximum Allowable Load※	Average Chain Weight
	Pitch	Roller		Pin					Plate		Trans. Pitch			
		Width	Dia.	Dia.	Length				Height	Thick.				
	P	W	R	D	LR	LC	L1	L2	H	T	TP	Lbs	Lbs	Lbs/ft
41	1/2	1/4	.306	.141	.472	.579	.266	.313	.347	.050	☐	2,560	485	.27

※Refer to page 72. “Selection of offset link”



Item	See Page
Attachment Chain	58 59
Rust Less	31 37 42
SL Self-Lube Chain	44
SLR Self-Lube Chain	46 48
Drive Chain Selection	66 67
Horsepower Rating	74

Standard Packing	50	60
1 Unit☐10'☐	192P	160P
On a Reel	100'	100'

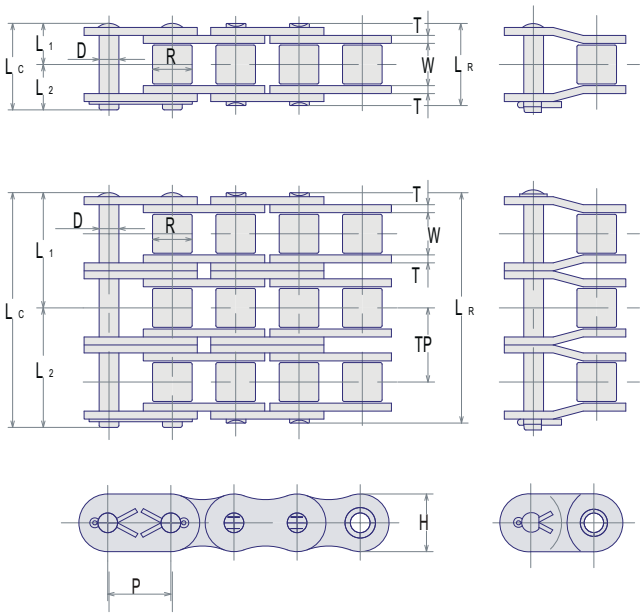
50

Chain No. (ANSI)	Dimensions - inch											Average Ultimate Strength	Maximum Allowable Load※	Average Chain Weight
	Pitch	Rollre		Pin					Plate		Trans. Pitch			
		Width	Dia.	Dia.	Length				Height	Thick.				
	P	W	R	D	LR	LC	L1	L2	H	T	TP	Lbs	Lbs	Lbs/ft
50	5/8	3/8	.400	.200	.800	.863	.400	.463	.577	.080	☐	7,200	1,620	0.98
50-2					1.504	1.583	.752	.831			.712	14,400	2,750	2.00
50-3					2.232	2.288	1.116	1.172				21,600	4,050	3.07
50-4					2.952	2.983	1.476	1.507				28,800	5,350	3.97
50-5					3.668	3.707	1.834	1.873				36,000	6,320	5.02
50-6					4.386	4.432	2.193	2.239				43,200	7,450	6.01

60

Chain No. (ANSI)	Dimensions - inch											Average Ultimate Strength	Maximum Allowable Load※	Average Chain Weight
	Pitch	Roller		Pin					Plate		Trans. Pitch			
		Width	Dia.	Dia.	Length				Height	Thick.				
	P	W	R	D	LR	LC	L1	L2	H	T	TP	Lbs	Lbs	Lbs/ft
60	3/4	1/2	.469	.234	1.000	1.059	.504	.555	.691	.094	☐	9,900	2,470	.98
60-2					1.890	1.957	.945	1.012			.898	19,800	4,200	1.98
60-3					2.772	2.858	1.386	1.472				29,700	6,180	2.98
60-4					3.716	3.756	1.858	1.898				39,600	8,150	3.98
60-5					4.608	4.654	2.304	2.350				49,500	9,630	4.98
60-6					5.520	5.547	2.760	2.787				59,400	11,360	5.98
60-8					7.284	7.347	3.642	3.705				77,500	12,000	6.98
60-10					9.086	9.141	4.543	4.598				96,800	14,500	7.98

※Refer to page 72. “Selection of offset link”
Cotter Pin connecting links also available



Item	See Page
Attachment Chain	58 59
Rust Less	31 37 42
SL Self-Lube Chain	44
SLR Self-Lube Chain	46 48
Drive Chain Selection	66 67
Horsepower Rating	74

Standard Packing	80	100
1 Unit ☐10'☐	120P	96P

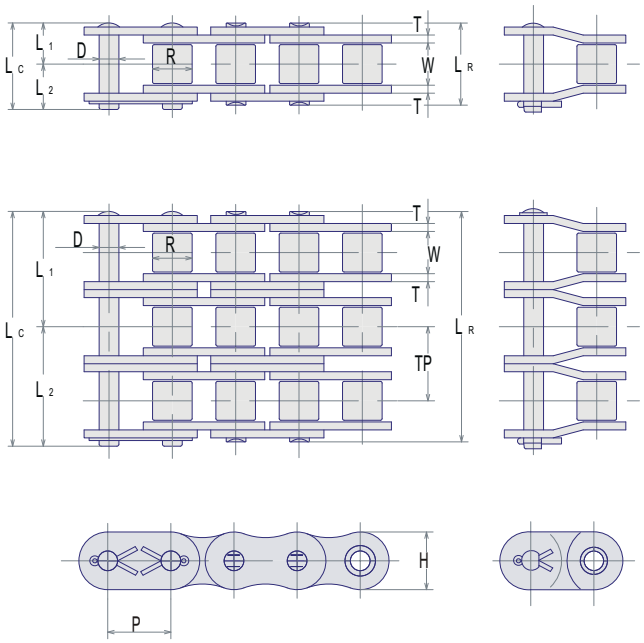
80

Chain No. (ANSI)	Dimensions - inch											Average Ultimate Strength	Maximum Allowable Load※	Average Chain Weight
	Pitch	Roller		Pin					Plate		Trans. Pitch			
		Width	Dia.	Dia.	Length				Height	Thick.				
	P	W	R	D	LR	LC	L1	L2	H	T	TP	Lbs	Lbs	Lbs/ft
80	1	5/8	.625	.312	1.276	1.388	.638	.750	.921	.125	☐	17,600	4,290	1.69
80-2					2.426	2.540	1.213	1.327			1.153	35,200	7,040	3.43
80-3					3.580	3.745	1.790	1.955				52,800	10,350	5.16
80-4					4.742	4.863	2.371	2.492				70,400	13,660	6.89
80-5					5.898	6.016	2.949	3.067				88,000	16,150	8.63
80-6					7.052	7.170	3.526	3.644				105,600	19,040	10.36
80-8					9.354	9.472	4.677	4.795				141,000	20,400	11.83
80-10					11.662	11.780	5.831	5.949				176,400	24,700	13.52

100

Chain No. (ANSI)	Dimensions - inch											Average Ultimate Strength	Maximum Allowable Load※	Average Chain Weight
	Pitch	Roller		Pin					Plate		Trans. Pitch			
		Width	Dia.	Dia.	Length				Height	Thick.				
	P	W	R	D	LR	LC	L1	L2	H	T	TP	Lbs	Lbs	Lbs/ft
100	1-1/4	3/4	.750	.375	1.544	1.685	.772	.913	1.154	.156	☐	26,400	6,600	2.62
100-2					2.950	3.102	1.475	1.627			1.409	52,800	10,800	5.19
100-3					4.360	4.512	2.180	2.332				79,200	15,900	7.77
100-4					5.804	5.938	2.902	3.036				105,600	20,990	10.33
100-5					7.206	7.347	3.603	3.744				132,000	24,800	12.92
100-6					8.616	8.756	4.308	4.448				158,400	29,260	15.49
100-8					11.434	11.579	5.717	5.862				212,000	31,400	20.67
100-10					14.252	14.398	7.126	7.272				265,000	38,200	23.24

※Refer to page 72. “Selection of offset link”



Item	See Page
Attachment Chain	58 59
Rust Less	31 37 42
SL Self-Lube Chain	44
SLR Self-Lube Chain	46 48
Drive Chain Selection	66 67
Horsepower Rating	74

Standard Packing	120	140
1 Unit(10')	80P	68P

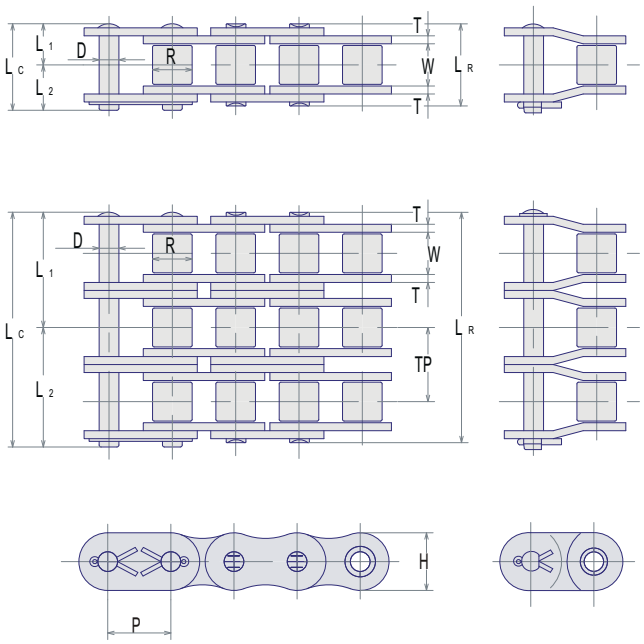
120

Chain No. (ANSI)	Dimensions - inch											Average Ultimate Strength	Maximum Allowable Load※	Average Chain Weight
	Pitch	Roller		Pin					Plate		Trans. Pitch			
		Width	Dia.	Dia.	Length				Height	Thick.				
	P	W	R	D	LR	LC	L1	L2	H	T	TP	Lbs	Lbs	Lb/ft
120	1-1/2	1	.875	.437	1.942	2.095	.971	1.124	1.382	.187	□	39,000	8,880	3.87
120-2					3.740	2.890	1.870	1.020			1.787	78,000	14,520	7.71
120-3					5.532	5.686	2.766	2.920				117,000	21,350	11.56
120-4					7.328	7.481	3.664	3.817				156,000	28,190	15.40
120-5					9.116	9.268	4.558	4.710				195,000	33,310	19.25
120-6					10.902	11.057	5.451	5.606				234,000	39,280	23.09
120-8					14.472	14.634	7.236	7.398				300,000	42,000	30.69
120-10					18.048	18.209	9.024	9.185				375,000	51,000	38.44

140

Chain No. (ANSI)	Dimensions - inch											Average Ultimate Strength	Maximum Allowable Load※	Average Chain Weight
	Pitch	Roller		Pin					Plate		Trans. Pitch			
		Width	Dia.	Dia.	Length				Height	Thick.				
	P	W	R	D	LR	LC	L1	L2	H	T	TP	Lbs	Lbs	Lb/ft
140	1-3/4	1	1.000	.500	2.120	2.288	1.060	1.228	1.610	.219	□	50,900	11,700	4.98
140-2					4.056	4.225	2.028	2.197			1.925	101,800	19,230	9.83
140-3					5.966	6.146	2.983	3.163				152,700	28,280	14.72
140-4					7.922	8.091	3.961	4.130				203,600	37,320	19.60
140-5					9.848	10.016	4.924	5.092				254,500	44,110	24.49
140-6					11.772	11.941	5.886	6.055				305,400	52,030	29.38
140-8					15.600	15.780	7.800	7.980				388,400	55,900	34.27
140-10					19.464	19.641	9.732	9.909				485,500	67,800	48.79

※Refer to page 72. “Selection of offset link”



Item	See Page
Attachment Chain	58 59
Rust Less	31 37 42
SL Self-Lube Chain	44
SLR Self-Lube Chain	46 48
Drive Chain Selection	66 67
Horsepower Rating	74

Standard Packing	160	180
1 Unit(10')	60P	54P

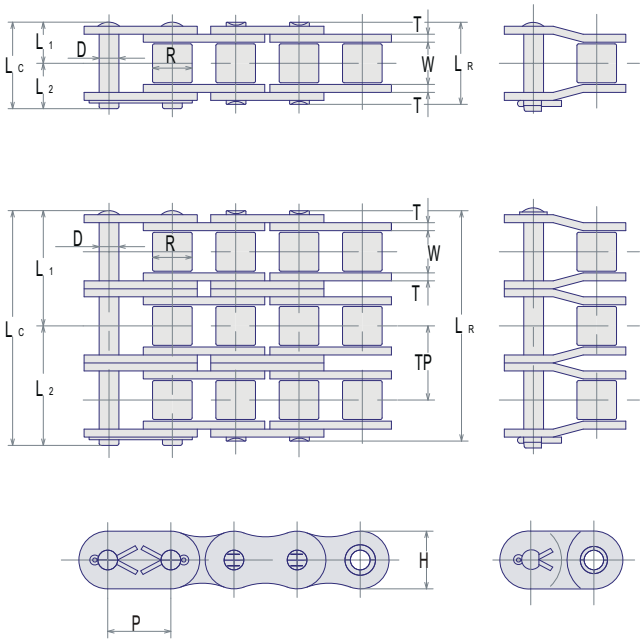
160

Chain No. (ANSI)	Dimensions - inch											Average Ultimate Strength	Maximum Allowable Load※	Average Chain Weight
	Pitch	Roller		Pin					Plate		Trans. Pitch			
		Width	Dia.	Dia.	Length				Height	Thick.				
	P	W	R	D	L_R	L_C	L_1	L_2	H	T	TP	Lbs	Lbs	Lb/ft
160	2	1-1/4	1.125	.562	2.535	2.705	1.268	1.437	1.839	.250	□	63,200	15,500	6.58
160-2					4.835	5.008	2.417	2.591			2.303	126,400	25,330	13.07
160-3					7.142	7.311	3.571	3.740				189,600	37,250	19.60
160-4					9.465	9.634	4.732	4.902				252,800	49,170	26.05
160-5					11.764	11.941	5.882	6.059				316,000	58,110	32.54
160-6					14.071	14.240	7.035	7.205				379,200	68,540	39.03
160-8					18.676	18.850	9.338	9.512				494,500	73,900	45.52
160-10					23.282	23.456	11.641	11.815				618,000	89,400	52.01

180

Chain No. (ANSI)	Dimensions - inch											Average Ultimate Strength	Maximum Allowable Load※	Average Chain Weight
	Pitch	Roller		Pin					Plate		Trans. Pitch			
		Width	Dia.	Dia.	Length				Height	Thick.				
	P	W	R	D	L_R	L_C	L_1	L_2	H	T	TP	Lbs	Lbs	Lb/ft
180	2-1/4	1-13/32	1.406	.687	2.858	3.087	1.429	1.658	2.067	.281	□	81,500	17,750	9.00
180-2					5.440	5.670	2.720	2.950			2.587	163,000	28,220	17.89
180-3					8.054	8.276	4.027	4.249				244,500	41,500	26.78
180-4					10.638	10.863	5.319	5.544				326,000	54,780	35.67
180-5					13.226	13.450	6.613	6.837				407,500	64,740	44.56
180-6					15.814	16.037	7.907	8.130				489,000	76,360	53.45

※Refer to page 72. "Selection of offset link"



Item	See Page
Attachment Chain	58 59
Rust Less	31 37 42
SL Self-Lube Chain	44
SLR Self-Lube Chain	46 48
Drive Chain Selection	66 67
Horsepower Rating	74

Standard Packing	200	240
1 Unit(10')	48P	40P

200

Chain No. (ANSI)	Dimensions - inch											Average Ultimate Strength	Maximum Allowable Load※	Average Chain Weight
	Pitch	Roller		Pin					Plate		Trans. Pitch			
		Width	Dia.	Dia.	Length				Height	Thick.				
	P	W	R	D	LR	LC	L1	L2	H	T	TP	Lbs	Lbs	Lb/ft
200	2-1/2	1-1/2	1.562	.781	3.084	3.418	1.542	1.876	2.354	.312	□	105,500	20,900	11.38
200-2					5.906	6.241	2.953	3.288			2.819	211,000	31,620	22.67
200-3					8.722	9.213	4.361	4.852				316,500	46,500	33.96
200-4					11.548	11.906	5.774	6.132				422,000	61,380	45.25
200-5					14.390	14.729	7.195	7.534				527,500	72,540	56.54
200-6					17.210	17.544	8.605	8.939				633,000	85,560	67.83

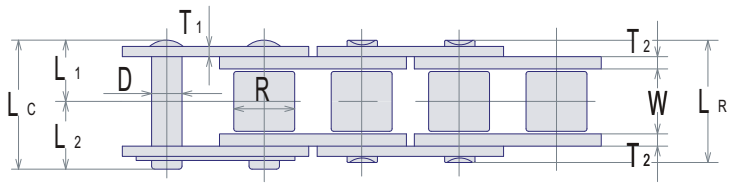
240

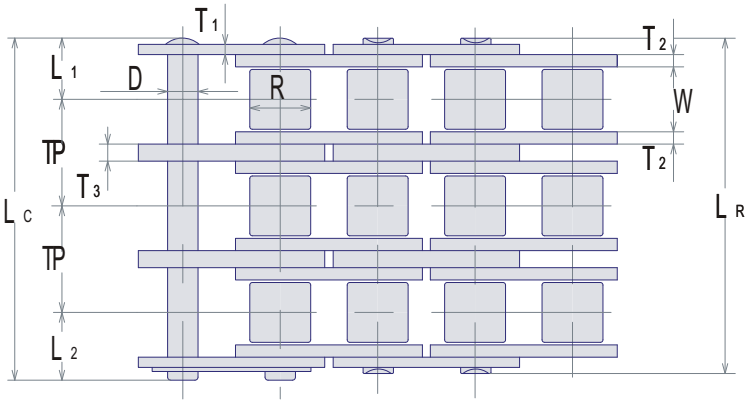
Chain No. (ANSI)	Dimensions - inch											Average Ultimate Strength	Maximum Allowable Load※	Average Chain Weight
	Pitch	Roller		Pin					Plate		Trans. Pitch			
		Width	Dia.	Dia.	Length				Height	Thick.				
	P	W	R	D	LR	LC	L1	L2	H	T	TP	Lbs	Lbs	Lb/ft
240	3	1-7/8	1.875	.937	3.800	4.098	1.900	2.198	2.768	.375	□	152,000	29,000	23.64
240-2					7.252	7.551	3.626	3.925			3.457	304,000	43,180	47.13
240-3					10.708	11.008	5.354	5.645				456,000	63,500	70.61
240-4					14.166	14.465	7.083	7.382				608,000	83,820	94.09
240-5					17.624	17.922	8.812	9.110				760,000	99,060	117.56
240-6					21.082	21.379	10.541	10.838				912,000	116,840	141.06

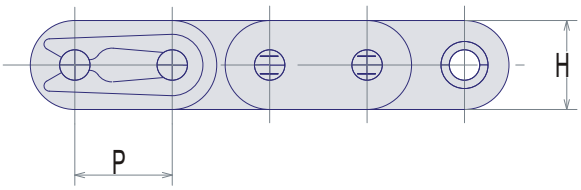
※Refer to page 72. “Selection of offset link”

BS Standard Roller Chains

RBL 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.







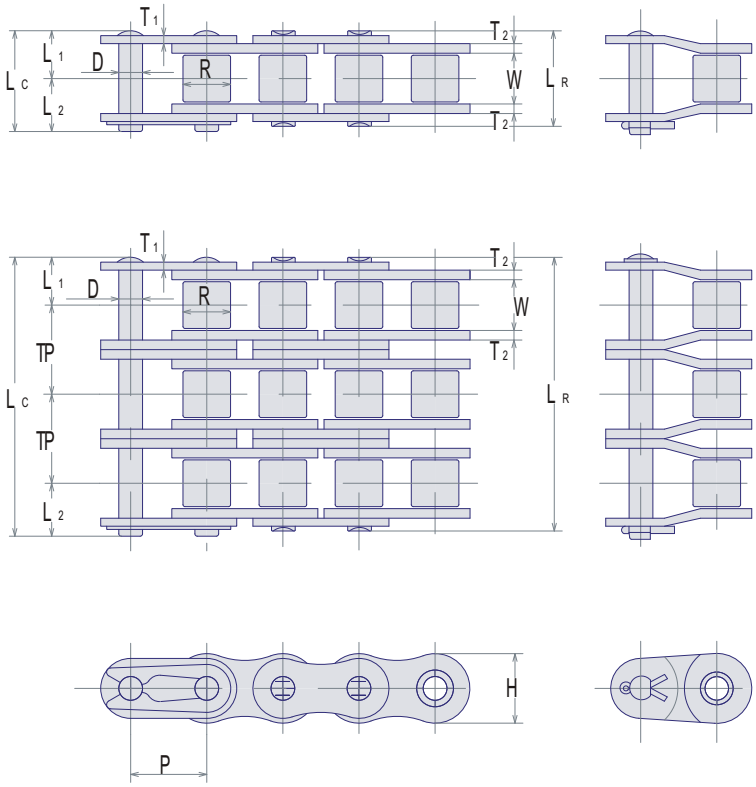
Item	See Page
Rust Less	31 37 42
Drive Chain Selection	66 67

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

06B

Chain No. (B S)	Pitch	Dimensions - inch												Minimum Ultimate Strength	Maximum Allowable Load	Average Chain Weight
		Roller		Pin						Plate			Trans. Pitch			
		Width	Dia.	Dia.	Length				Height	Thickness						
	P	W	R	D	LR	LC	L1	L2	H	T1	T2	T3	TP	Lbs	Lbs	Lbs/ft
06B	3/8	.225	.250	.129	.480	.516	.240	.276	.323	.039	.049	.063	.403	2,300	380	.26
-2					.898	.929	.449	.480						4,100	650	.50
-3					1.300	1.327	.650	.677						5,900	940	.74

Curled bushing is used.



Standard Packing	08B	10B
1 Unit (10')	240P	192P

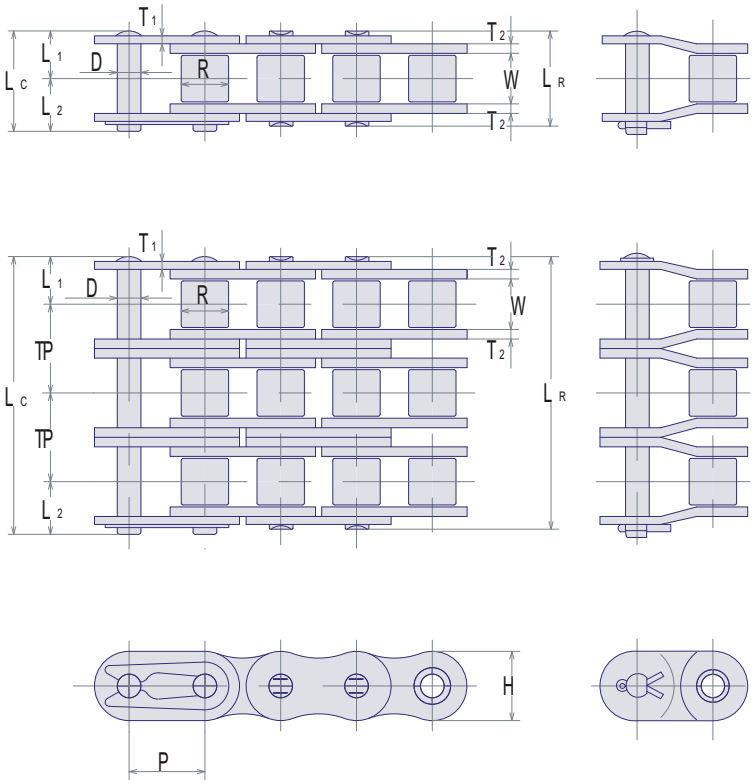
08B

Chain No. (B S)	Pitch	Dimensions - inch										Trans. Pitch	Minimum Ultimate Strength	Maximum Allowable Load	Average Chain Weight
		Roller		Pin					Plate						
		Width	Dia.	Dia.	Length				Height	Thickness					
	P	W	R	D	LR	LC	L1	L2	H	T1	T2	TP	Lbs	Lbs	Lbs/ft
08B	1 /2	.305	.335	.175	.646	.686	.329	.363	.457	.060		.548	4,300	706	.41
-2					1.204	1.240							7,700	1,200	.85
-3					1.756	1.787							11,200	1,765	1.26

10B

Chain No. (B S)	Pitch	Dimensions - inch										Trans. Pitch	Minimum Ultimate Strength	Maximum Allowable Load	Average Chain Weight
		Roller		Pin					Plate						
		Width	Dia.	Dia.	Length				Height	Thickness					
	P	W	R	D	LR	LC	L1	L2	H	T1	T2	TP	Lbs	Lbs	Lbs/ft
10B	5/8	.380	.400	.200	.750	.810	.375	.435	.571	.065		.653	6,000	1,100	.60
-2					1.400	1.452							11,400	1,870	1.20
-3					2.060	2.121							17,100	2,742	1.79

※Refer to page 72. “Selection of offset link”



Item	See Page
Attachment Chain	58 59
Rust Less	31 37 42
SL Self-Lube Chain	44
SLR Self-Lube Chain	46 48
Drive Chain Selection	66 67
Horsepower Rating	74

Standard Packing	12B	16B
1 Unit (10')	160P	120P

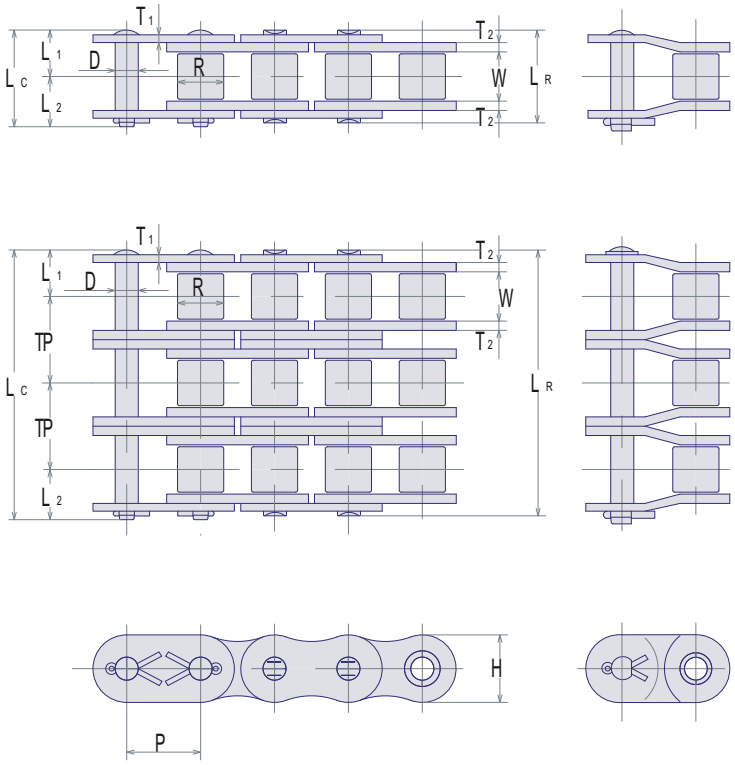
12B

Chain No. (B S)	Pitch	Dimensions - inch										Trans. Pitch	Minimum Ultimate Strength	Maximum Allowable Load	Average Chain Weight
		Roller		Pin					Plate						
		Width	Dia.	Dia.	Length				Height	Thickness					
	P	W	R	D	LR	LC	L1	L2	H	T1	T2	TP	Lbs	Lbs	Lbs/ft
12B	3/4	.460	.475	.225	.828	.905	.414	.491	.626	.070		.766	7,200	1,580	.77
-2					1.638	1.697							13,700	2,700	1.53
-3					2.402	2.457							20,500	3,950	2.26

16B

Chain No. (B S)	Pitch	Dimensions - inch										Trans. Pitch	Minimum Ultimate Strength	Maximum Allowable Load	Average Chain Weight
		Roller		Pin					Plate						
		Width	Dia.	Dia.	Length				Height	Thickness					
	P	W	R	D	LR	LC	L1	L2	H	T1	T2	TP	Lbs	Lbs	Lbs/ft
16B	1	.670	.625	.325	1.382	1.496	.691	.805	.792	.122	.154	1.255	17,500	3,680	1.74
-2					2.646	2.760							33,200	4,800	2.45
-3					3.914	4.028							49,800	7,050	5.16

※Refer to page 72. “Selection of offset link”



Standard Packing	20B	24B
1 Unit (10')	96P	80P

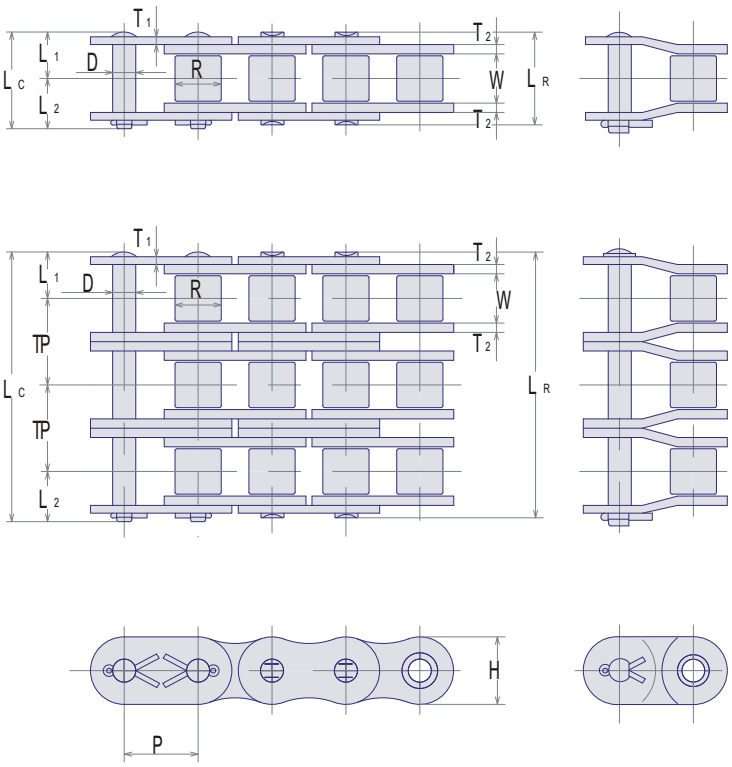
20B

Chain No. (B S)	Pitch	Dimensions - inch											Minimum Ultimate Strength	Maximum Allowable Load	Average Chain Weight
		Roller		Pin					Plate			Trans. Pitch			
		Width	Dia.	Dia.	Length				Height	Thickness					
	P	W	R	D	LR	LC	L1	L2	H	T1	T2	TP	Lbs	Lbs	Lbs/ft
20B	1-1/4	.770	.750	.400	1.582	1.713	.791	.922	1.024	.138	.178	1.435	24,400	5,700	2.53
-2					3.024	3.169							46,300	7,480	4.88
-3					4.464	4.622							69,500	11,015	7.30

24B

Chain No. (B S)	Pitch	Dimensions - inch											Minimum Ultimate Strength	Maximum Allowable Load	Average Chain Weight
		Roller		Pin					Plate			Trans. Pitch			
		Width	Dia.	Dia.	Length				Height	Thickness					
	P	W	R	D	LR	LC	L1	L2	H	T1	T2	TP	Lbs	Lbs	Lbs/ft
24B	1-1/2	1.000	1.000	.576	2.100	2.272	1.050	1.222	1.315	.193	.233	1.904	41,100	8,000	4.90
-2					4.008	4.193							77,900	10,520	9.76
-3					5.914	6.099							116,800	15,460	14.62

※Refer to page 72. “Selection of offset link”



Item	See Page
Attachment Chain	58 59
Rust Less	31 37 42
SL Self-Lube Chain	44
SLR Self-Lube Chain	46 48
Drive Chain Selection	66 67
Horsepower Rating	74

Standard Packing	28B	32B
1 Unit (10')	68P	60P

28B

Chain No. (B S)	Pitch	Dimensions - inch											Minimum Ultimate Strength	Maximum Allowable Load	Average Chain Weight
		Roller		Pin					Plate			Trans. Pitch			
		Width	Dia.	Dia.	Length				Height	Thickness					
	P	W	R	D	LR	LC	L1	L2	H	T1	T2	TP	Lbs	Lbs	Lbs/ft
28B	1-3/4	1.220	1.100	0.625	2.564	2.807	1.282	1.525	1.440	.250	.291	2.345	54,000	10,000	6.22
-2					4.914	5.229							102,600	13,100	12.40
-3					7.260	7.583							153,900	19,200	18.58

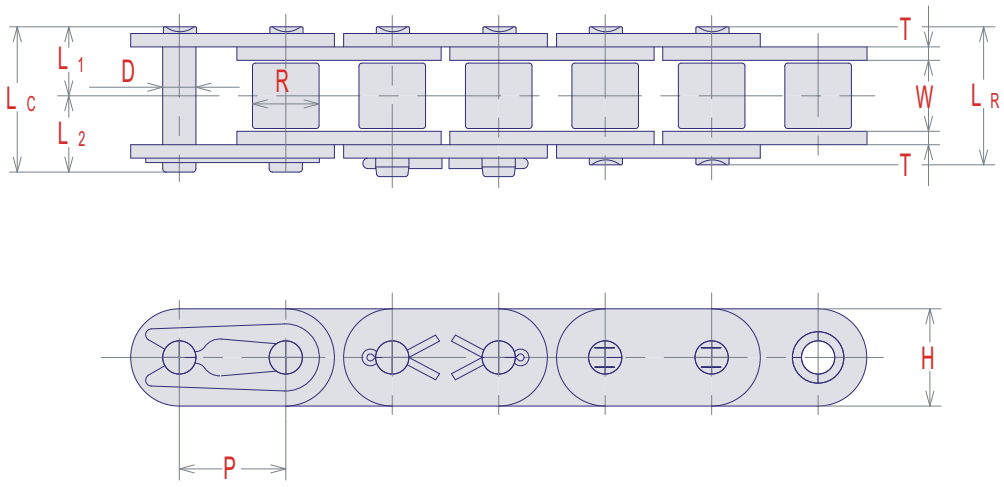
32B

Chain No. (B S)	Pitch	Dimensions - inch											Minimum Ultimate Strength	Maximum Allowable Load	Average Chain Weight
		Roller		Pin					Plate			Trans. Pitch			
		Width	Dia.	Dia.	Length				Height	Thickness					
	P	W	R	D	LR	LC	L1	L2	H	T1	T2	TP	Lbs	Lbs	Lbs/ft
32B	2	1.220	1.150	.701	2.568	2.834	1.284	1.550	1.642	.250	.272	2.305	62,500	11,400	6.68
-2					4.882	5.217							118,700	14,950	13.28
-3					7.188	7.535							178,100	22,000	19.90

※Refer to page 72. “Selection of offset link”

ANSI Straight Sidebar Chains

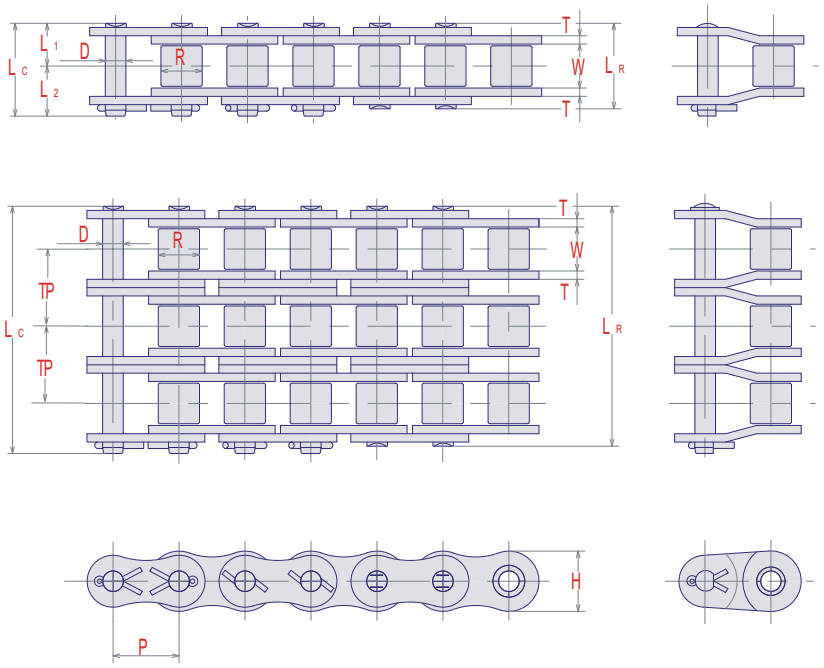
RBL ANSI straight sidebar chains are identical with ANSI standard chains except for the straight side plates. Provided with higher fatigue resistance than the standard chains.
Sprockets for ANSI standard chains may be used for these chains. For identification, a suffix of F is added to the standard chain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



Chain No.	Dimensions - inch										Average 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	T	Lbs	Lbs	Lbs/ft	
40F	1/2	.312	.312	.156	.650	.690	.325	.365	.463	.060	4,290	930	.40	Spcl
50F	5/8	.375	.400	.200	.800	.870	.400	.470	.577	.080	7,100	1,600	.66	
60F	3/4	.500	.469	.234	1.000	1.050	.500	.550	.691	.094	9,600	2,400	.98	
80F	1	.625	.625	.312	1.280	1.390	.640	.750	.921	.125	17,600	4,100	1.70	C
100F	1-1/4	.750	.750	.375	1.540	1.690	.770	.920	1.154	.156	26,500	6,300	2.60	
120F	1-1/2	1.000	.875	.437	1.940	2.100	.970	1.130	1.382	.187	37,500	8,500	3.90	

Heavy Series Roller Chains (H Series)

RBL 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

Chain No.	Dimensions - inch										Average 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	T	Lbs	Lbs	Lbs/ft	
50H	5/8	.375	.400	.200	.874	.949	.437	.512	.577	.094	7,800	1,400	.87	
60H	3/4	.500	.469	.234	1.288	1.209	.565	.644	.689	.125	12,300	2,400	1.21	C
80H	1	.625	.625	.312	1.398	1.516	.699	.817	.921	.156	20,200	4,100	1.89	
100H	1-1/4	.750	.750	.375	1.662	1.800	.831	.969	1.154	.187	30,700	6,300	2.78	
120H	1-1/2	1.000	.875	.437	2.072	2.244	1.036	1.208	1.382	.219	41,800	8,500	3.92	
140H	1-3/4	1.000	1.000	.500	2.244	2.426	1.122	1.304	1.610	.250	54,100	11,300	5.65	
160H	2	1.250	1.125	.562	2.666	2.867	1.333	1.534	1.839	.281	68,700	14,900	7.30	
180H	2-1/4	1.406	1.406	.687	2.980	3.213	1.490	1.723	2.067	.312	83,800	15,800	10.20	
200H	2-1/2	1.500	1.562	.781	3.332	3.670	1.666	2.004	2.354	.375	116,900	18,500	12.00	S
240H	3	1.875	1.875	.937	4.322	4.653	2.161	2.492	2.767	.500	163,200	25,300	21.63	

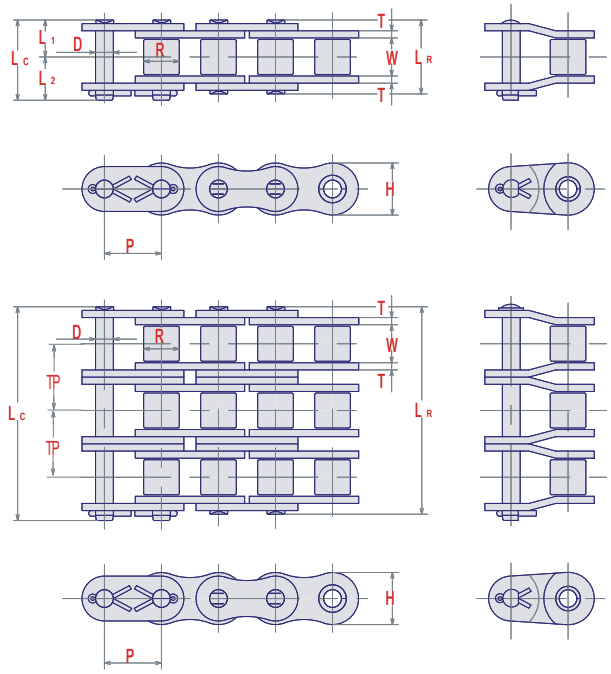
※Refer to page 80. “Selection of offset link”

MULTIPLE STRANDS

Chain No.	Dimensions - inch											Average Ultimate Strength	Maximum Allowable Load	Average Chain Weight
	Pitch	Roller		Pin					Plate		Trans. Pitch			
		Width	Dia.	Dia.	Length				Height	Thick.				
	P	W	R	D	L_R	L_C	L_1	L_2	H	T	TP	Lbs	Lbs	Lbs/ft
60H-2	3/4	.500	.469	.234	2.154	2.242	1.077	1.165	.689	.125	1.028	24,700	3,400	2.40
60H-3					3.174	3.272	1.587	1.685				37,000	5,000	3.60
60H-4					4.220	4.309	2.110	2.199				49,400	6,600	4.18
80H-2	1	.625	.625	.312	2.692	2.807	1.346	1.461	.921	.156	1.283	40,400	5,800	3.71
80H-3					3.976	4.094	1.988	2.106				60,900	8,500	5.53
80H-4					5.260	5.382	2.630	2.752				81,100	11,285	7.36
80H-5					6.542	6.664	3.271	3.393				101,300	13,300	9.19
80H-6					7.826	7.948	3.913	4.035				121,600	15,700	11.00
80H-8					10.394	10.516	5.197	5.319				162,300	21,100	14.70
100H-2	1-1/4	.750	.750	.375	3.212	3.346	1.606	1.740	1.154	.187	1.539	61,600	8,700	5.49
100H-3					4.756	4.898	2.378	2.520				93,000	12,900	8.21
100H-4					6.220	6.397	3.110	3.287				123,000	17,000	10.90
100H-5					7.818	7.964	3.909	4.055				153,900	20,100	13.70
100H-6					9.378	9.519	4.689	4.830				184,700	23,800	16.40
100H-8					12.456	12.598	6.228	6.370				246,300	32,100	21.80
100H-10					15.818	15.676	7.909	7.767				308,000	38,800	27.30
120H-2	1-1/2	1.000	.875	.437	4.020	4.177	2.010	2.167	1.382	.219	1.925	83,600	12,000	7.75
120H-3					5.930	6.087	2.965	3.122				125,400	17,600	10.60
120H-4					7.842	8.000	3.921	4.079				167,200	23,300	15.40
120H-5					9.756	9.945	4.878	5.067				209,000	27,600	17.30
120H-6					11.716	11.886	5.858	6.028				250,800	32,300	23.10
120H-8					15.566	15.735	7.783	7.952				334,000	43,800	30.80
120H-10					19.418	19.587	9.709	9.878				418,000	53,000	38.50
140H-2	1-3/4	1.000	1.000	.500	4.310	4.492	2.155	2.337	1.610	.250	2.055	108,300	15,700	11.10
140H-3					6.370	6.551	3.185	3.366				162,500	23,100	16.60
140H-4					8.426	8.611	4.213	4.398				216,000	30,500	22.10
140H-5					10.480	10.665	5.240	5.425				270,800	36,100	27.60
140H-6					12.536	12.721	6.268	6.453				325,000	42,700	33.10
140H-8					16.646	16.831	8.323	8.508				433,000	57,300	44.10
160H-2	2	1.250	1.125	.562	5.110	5.315	2.555	2.760	1.839	.281	2.437	137,500	20,900	14.20
160H-3					7.552	7.748	3.776	3.972				206,000	30,800	21.10
160H-4					9.992	10.189	4.996	5.193				275,000	40,600	28.10
160H-6					14.866	15.063	7.433	7.630				412,700	56,800	41.90
180H-2	2-1/4	1.406	1.406	.687	5.688	5.915	2.844	3.071	2.067	.312	2.700	167,700	22,900	20.80
180H-3					8.378	8.610	4.189	4.421				251,500	33,500	30.10
180H-4					11.078	11.315	5.539	5.776				335,000	44,200	40.10
200H-2	2-1/2	1.500	1.562	.781	6.424	6.764	3.212	3.552	2.354	.375	3.083	233,800	28,550	23.60
200H-3					9.504	9.854	4.752	5.102				350,000	41,800	41.90
200H-4					12.590	12.937	6.295	6.642				467,000	55,300	46.90
240H-2	3	1.875	1.875	.937	8.292	8.607	4.146	4.461	2.767	.500	3.984	326,400	38,800	41.60
240H-3					12.208	12.527	6.104	6.423				489,000	57,300	61.50
240H-4					16.276	16.606	8.138	8.468				652,000	75,500	81.50

RBL®
PREMIUM

Oil-Field Chains (E Series)

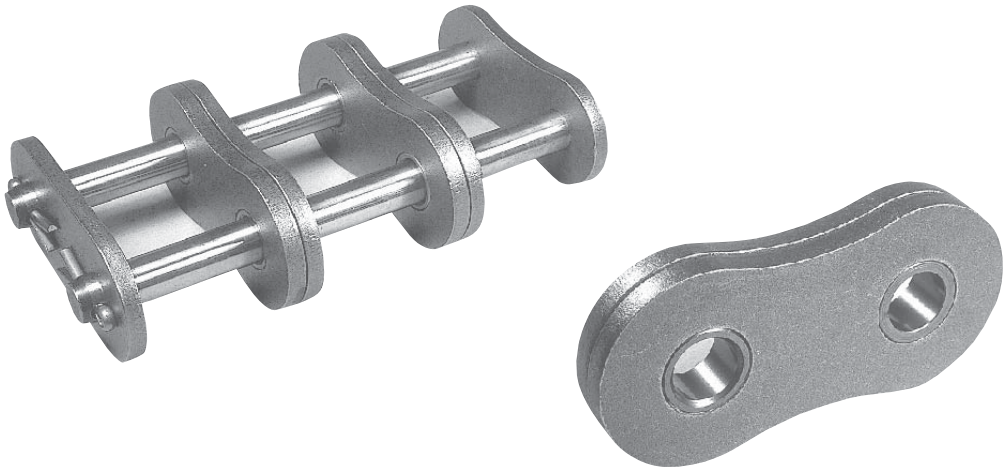


RBL Oil-field chains are manufactured in accordance with ANSI, API standards, and officially approved by The American Petroleum Institute for high quality , reliability and long trouble-free service life. Used in oil-field drilling and producing operations such as hoisting, pumping and drawworks.
RBL E & HE-series roller chains are manufactured in the same standards as Oil-field chains.

E TYPE

Chain No.	Dimensions - inch											Average Ultimate Strength	Maximum Allowable Load	Average Chain Weight
	Pitch	Roller		Pin					Plate		Trans. Pitch			
		Width	Dia.	Dia.	Length				Height	Thick.				
	P	W	R	D	L_R	L_C	L_1	L_2	H	T	TP	Lbs	Lbs	Lbs/ft
80E	1	.625	.625	.312	1.291	1.398	.646	.752	.921	.125	□	17,850	4,136	1.69
80E-2					2.425	2.539	1.213	1.327			1.153	35,745	6,002	3.42
80E-3					3.579	3.705	1.791	1.913				53,505	8,835	5.15
80E-4					4.740	4.862	2.370	2.492				71,489	11,645	6.87
80E-5					5.898	6.016	2.949	3.067				89,249	13,758	8.60
80E-6					7.051	7.169	3.528	3.642				107,009	16,231	10.33
80E-8					9.354	9.472	4.677	4.795				142,754	21,874	13.79
100E	1-1/4	.750	.750	.375	1.551	1.693	.776	.917	1.154	.156	□	26,752	6,362	2.62
100E-2					2.957	3.102	1.480	1.622			1.409	53,505	9,172	5.19
100E-3					4.366	4.512	2.185	2.327				80,257	13,489	7.76
100E-4					5.803	5.937	2.902	3.035				107,009	17,805	10.32
100E-5					7.205	7.346	3.602	3.744				133,761	21,042	12.90
100E-6					8.614	8.756	4.307	4.449				160,514	24,729	15.48
100E-8					11.433	11.579	5.717	5.862				214,018	33,497	20.64
100E-10					14.252	14.398	7.126	7.272				267,523	40,466	25.82
120E	1-1/2	1.000	.875	.437	1.949	2.102	.976	1.126	1.382	.187	□	39,117	8,543	3.86
120E-2					3.736	3.890	1.870	2.020			1.787	78,233	12,185	7.70
120E-3					5.524	5.677	2.764	2.913				117,350	17,940	11.52
120E-4					7.327	7.480	3.665	3.815				156,467	23,605	15.36
120E-5					9.114	9.268	4.559	4.709				195,584	27,876	19.20
120E-6					10.902	11.055	5.453	5.602				234,700	33,047	23.02
120E-8					14.469	14.634	7.236	7.398				312,934	44,512	30.69
120E-10					18.043	18.209	9.024	9.185				391,167	53,729	38.44

※Refer to page 80. “Selection of offset link”

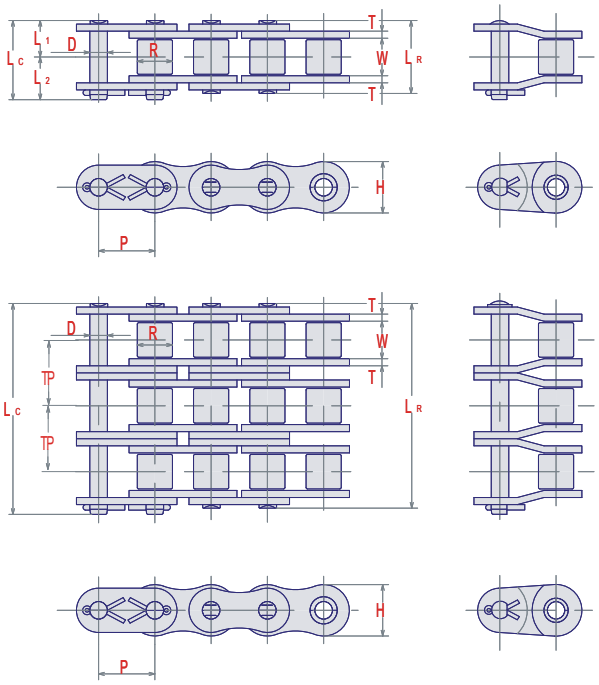


BCL Connecting links provided with press-fit type chains

Chain No.	Dimensions - inch											Average Ultimate Strength	Maximum Allowable Load	Average Chain Weight
	Pitch	Roller		Pin					Plate		Trans. Pitch			
		Width	Dia.	Dia.	Length				Height	Thick.				
	P	W	R	D	L_R	L_C	L_1	L_2	H	T	TP	Lbs	Lbs	Lbs/ft
140E	1-3/4	1.000	1.000	.500	2.126	2.295	1.063	1.232	1.610	.219	□	51,032	11,308	4.96
140E-2					4.056	4.221	2.028	2.193			1.925	102,063	16,456	9.80
140E-3					5.976	6.153	2.988	3.165				153,095	24,279	14.68
140E-4					7.922	8.091	3.961	4.130				204,126	31,923	19.54
140E-5					9.850	10.016	4.925	5.091				225,158	37,768	24.42
140E-6					11.772	11.941	5.886	6.055				306,190	44,512	29.29
140E-8					15.614	15.791	7.807	7.984				408,253	60,024	39.05
160E	2	1.250	1.125	.562	2.536	2.705	1.268	1.437	1.839	.250	□	66,094	14,905	6.56
160E-2					4.834	5.008	2.417	2.591			2.303	132,188	21,357	13.03
160E-3					7.142	7.311	3.571	3.740				198,281	31,473	19.54
160E-4					9.464	9.634	4.732	4.902				264,375	41,365	25.98
160E-6					11.764	11.941	5.882	6.059				396,563	57,776	38.91
180E	2-1/4	1.406	1.406	.687	2.858	3.086	1.429	1.657	2.067	.281	□	81,606	15,872	8.97
180E-2					5.440	5.669	2.720	2.949			2.587	163,211	22,931	17.84
180E-3					8.056	8.276	4.028	4.248				244,817	33,721	26.70
180E-4					10.638	10.862	5.319	5.543				326,423	44,287	35.56
200E	2-1/2	1.500	1.562	.781	3.094	3.425	1.547	1.878	2.354	.312	□	105,660	18,502	11.34
200E-2					5.914	6.248	2.957	3.291			2.816	211,320	29,225	22.60
200E-3					8.732	9.063	4.366	4.697				316,981	42,938	33.86
200E-4					11.552	11.906	5.776	6.130				422,641	56,652	45.12
240E	3	1.875	1.875	.937	3.796	4.099	1.898	2.201	2.768	.375	□	152,196	25,358	15.84
240E-2					7.252	7.551	3.626	3.925			3.457	304,391	40,241	31.58
240E-3					10.708	11.008	5.354	5.654				456,587	59,125	47.31
240E-4					14.166	14.465	7.083	7.382				608,783	78,009	63.04

RBL®
PREMIUM

OIL-FIELD CHAINS(HE SERIES)



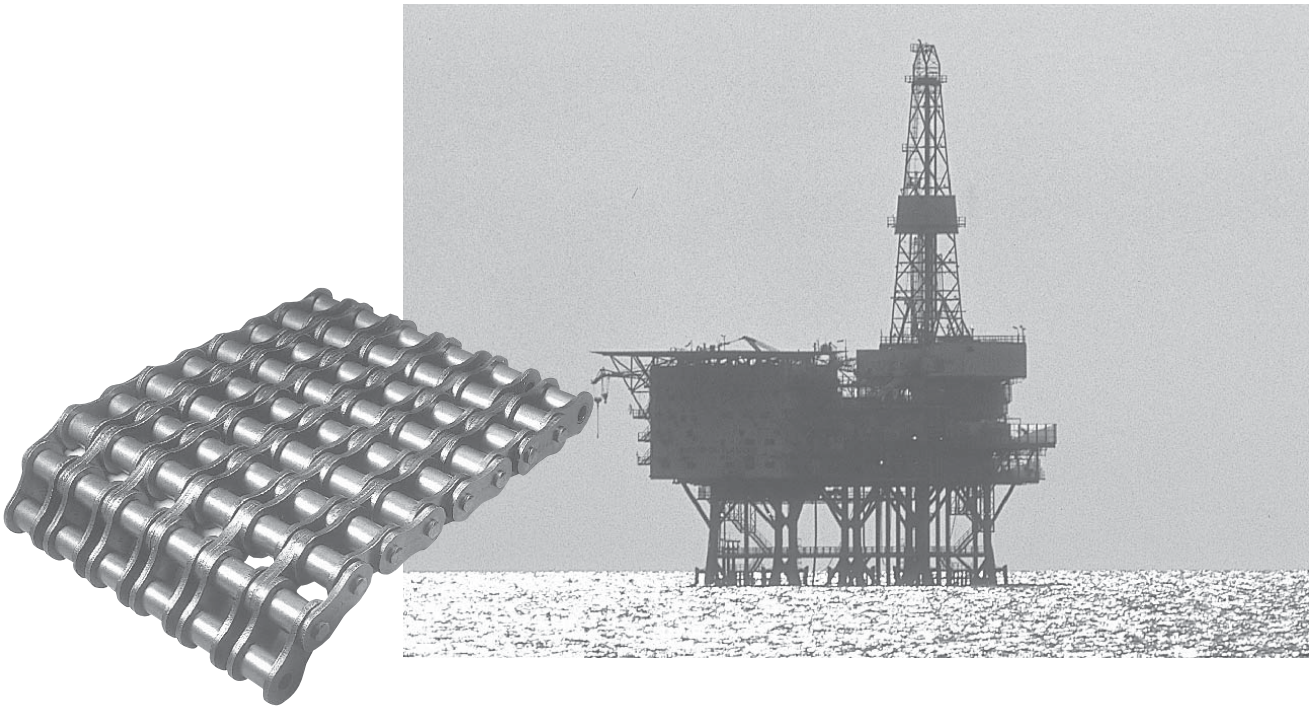
RBL Heavy series roller chains are designed with thicker side plates to insure greater capacity for absorbing shock loads without fatigue failure of side plates. Also manufactured to close tolerances in accordance with ANSI specifications and are mainly used for applications where space and design limitations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

HE TYPE

Chain No.	Dimensions - inch											Average Ultimate Strength	Maximum Allowable Load	Average Chain Weight
	Pitch	Roller		Pin					Plate		Trans. Pitch			
		Width	Dia.	Dia.	Length				Height	Thick.				
	P	W	R	D	L_R	L_C	L_1	L_2	H	T	TP	Lbs	Lbs	Lbs/ft
80HE	1	.625	.625	.312	1.402	1.532	.701	.831	.921	.156	□	20,952	4,136	1.88
80HE-2					2.692	2.807	1.346	1.461			1.283	41,814	6,385	3.71
80HE-3					3.976	4.094	1.988	2.106				62,946	9,397	5.53
80HE-4					5.260	5.382	2.630	2.752				83,854	12,387	7.36
80HE-5					6.544	6.666	3.272	3.394				104,761	14,635	9.19
80HE-6					7.826	7.948	3.913	4.035				125,668	17,265	11.01
80HE-8					10.394	10.516	5.197	5.319				167,707	23,380	14.66
100HE	1-1/4	.750	.750	.375	1.662	1.800	.831	.969	1.154	.187	□	31,923	6,362	2.77
100HE-2					3.212	3.346	1.606	1.740			1.539	63,846	10,139	5.49
100HE-3					4.756	4.898	2.378	2.520				95,769	14,905	8.21
100HE-4					6.276	6.425	3.138	3.287				127,691	19,671	10.94
100HE-5					7.818	7.964	3.909	4.055				159,614	23,155	13.66
100HE-6					9.378	9.520	4.689	4.831				191,537	27,427	16.38
100HE-8					12.456	12.598	6.228	6.370				255,383	36,869	21.83
100HE-10					15.536	15.677	7.768	7.909				319,229	44,737	27.27
120HE	1-1/2	1.000	.875	.437	2.070	2.244	1.035	1.209	1.382	.219	□	42,938	8,543	3.91
120HE-2					4.016	4.177	2.008	2.169			1.925	85,877	13,106	7.75
120HE-3					5.930	6.087	2.965	3.122				128,815	19,289	11.58
120HE-4					7.842	8.019	3.921	4.098				171,754	25,403	15.42
120HE-5					9.756	9.945	4.878	5.067				214,692	30,124	19.26
120HE-6					11.716	11.870	5.858	6.012				257,631	35,520	23.10
120HE-8					15.566	15.736	7.783	7.953				343,508	47,884	30.78
120HE-10					19.418	19.587	9.709	9.878				429,385	57,776	38.46

※Refer to page 80. “Selection of offset link”

Chain No.	Dimensions - inch											Average Ultimate Strength	Maximum Allowable Load	Average Chain Weight
	Pitch	Roller		Pin					Plate		Trans. Pitch			
		Width	Dia.	Dia.	Length				Height	Thick.				
	P	W	R	D	L_R	L_C	L_1	L_2	H	T	TP	Lbs	Lbs	Lbs/ft
140HE	1-3/4	1.000	1.000	.500	2.244	2.425	1.122	1.303	1.610	.250		56,600	11,300	5.63
140HE-2					4.307	4.488	2.154	2.335			2.055	113,300	17,200	11.12
140HE-3					6.370	6.551	3.185	3.366				170,000	25,400	16.60
140HE-4					8.425	8.610	4.213	4.398				226,600	33,500	22.08
140HE-5					10.480	10.665	5.240	5.425				283,300	39,600	27.57
140HE-6					12.535	12.720	6.268	6.453				340,000	46,500	33.05
140HE-8					16.646	16.831	8.323	8.508				453,200	62,900	44.07
160HE	2	1.250	1.125	.562	2.669	2.874	1.335	1.539	1.839	.281		71,700	14,900	7.28
160HE-2					5.110	5.311	2.555	2.756			2.437	143,400	22,500	14.21
160HE-3					7.551	7.748	3.776	3.972				215,100	33,000	21.13
160HE-4					9.992	10.189	4.996	5.193				286,800	43,600	28.07
160HE-6					14.866	15.063	7.433	7.630				430,200	60,700	41.93
180HE	2-1/4	1.406	1.406	.687	2.984	3.205	1.492	1.713	2.067	.312		99,100	15,900	10.17
180HE-2					5.677	5.898	2.839	3.059			2.700	198,300	27,200	20.14
180HE-3					8.378	8.610	4.189	4.421				297,400	40,200	30.11
180HE-4					11.079	11.315	5.539	5.776				396,500	53,000	40.09
200HE	2-1/2	1.500	1.562	.781	3.346	3.673	1.673	2.000	2.354	.375		125,700	18,500	11.96
200HE-2					6.425	6.772	3.213	3.559			3.083	251,300	31,000	23.58
200HE-3					9.504	9.854	4.752	5.102				377,000	45,800	35.20
200HE-4					12.591	12.937	6.295	6.642				502,600	60,400	46.86
240HE	3	1.875	1.875	.936	4.378	4.630	2.189	2.441	2.768	.500		198,500	25,300	21.63
240HE-2					8.331	8.618	4.165	4.453			3.984	397,000	43,100	41.58
240HE-3					12.307	12.602	6.154	6.449				595,500	63,600	61.52
240HE-4					16.299	16.587	8.150	8.437				794,000	83,800	81.46

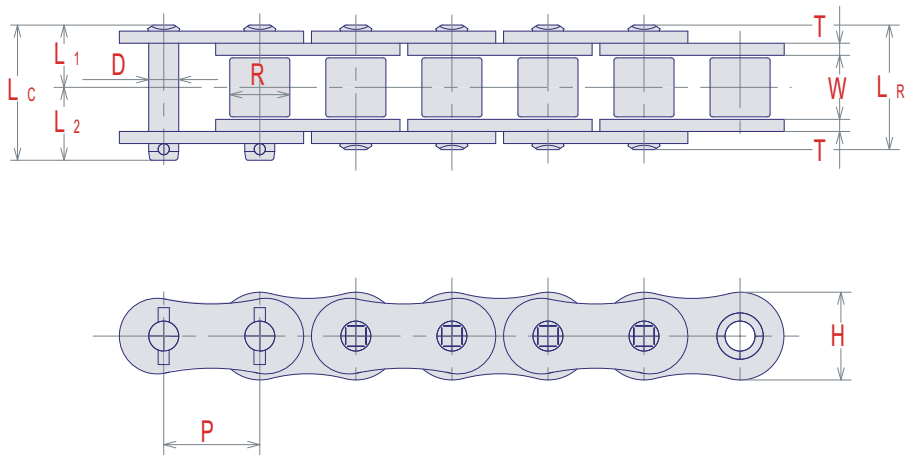


PREMIUM

SUPER ROLLER CHAINS

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

RBL 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.

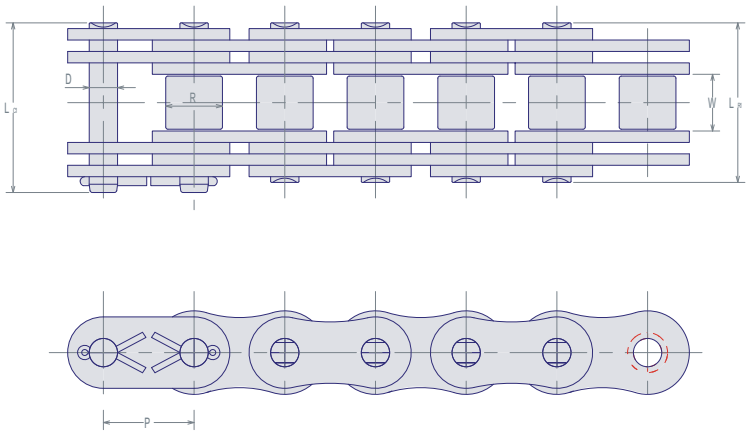
SINGLE STRANDS

Chain No. (ANSI)	Dimensions - inch										Average 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	T	Lbs	Lbs	Lbs/ft
SUPER 80	1	.625	.625	.312	1.280	1.400	.640	.760	.949	.125	18,900	4,180	1.89
SUPER 100	1-1/4	.750	.750	.375	1.584	1.694	.792	.902	1.185	.156	28,600	6,830	2.87
SUPER 120	1-1/2	1.000	.875	.437	1.986	2.131	.993	1.138	1.425	.187	41,800	8,810	4.24
SUPER 140	1-3/4	1.000	1.000	.500	2.150	2.324	1.075	1.249	1.661	.219	55,100	12,100	5.41
SUPER 160	2	1.250	1.125	.562	2.556	2.731	1.278	1.453	1.898	.250	70,500	15,800	7.26
SUPER 200	2-1/2	1.500	1.562	.781	3.124	3.326	1.562	1.764	2.374	.312	110,200	21,100	11.83
SUPER 240	3	1.875	1.875	.936	3.796	4.084	1.898	2.186	2.850	.375	163,100	29,700	17.21
SUPER 80H	1	.625	.625	.312	1.398	1.530	.699	.831	.949	.156	22,000	4,630	2.22
SUPER 100H	1-1/4	.750	.750	.375	1.714	1.842	.857	.985	1.185	.187	32,600	7,280	3.28
SUPER 120H	1-1/2	1.000	.875	.437	2.116	2.279	1.058	1.221	1.425	.219	44,000	9,480	4.67
SUPER 140H	1-3/4	1.000	1.000	.500	2.280	2.452	1.140	1.312	1.661	.250	57,300	12,800	5.97
SUPER 160H	2	1.250	1.125	.562	2.694	2.887	1.347	1.540	1.989	.281	72,700	16,500	7.87

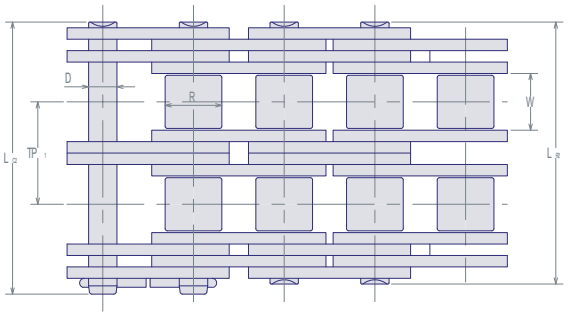
Double Capacity Chains

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 number of side plates as single strand chain.

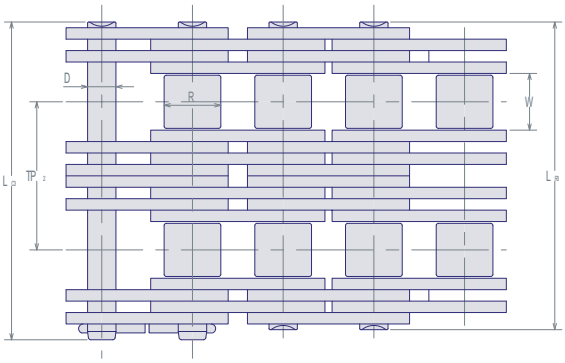
DC(x2)



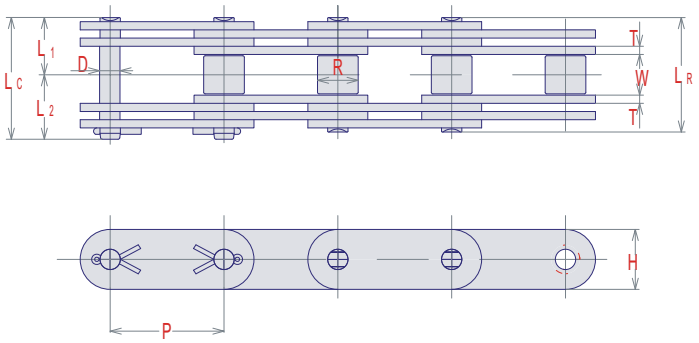
TC(x3)



FC(x4)



Chain No.	Dimensions - inch								Average Ultimate Strength (Lbs)			Maximum Allowable (Lbs)
	Pitch	Roller		Pin			Transverse Pitch					
		Width	Dia.	Dia.	Length							
	P	W	R	D	L_{R1}	L_{C1}	TP1	TP2	DC	TC	FC	DC
16BDC・TC・FC	1	.670	.625	.325	1.969	2.094	1.256	1.760	30,800	46,100	61,600	4,400
20BDC・TC・FC	1-1/4	.770	.750	.400	2.205	2.378	1.437	1.988	47,700	71,500	95,300	6,800
24BDC・TC・FC	1-1/2	1.000	1.000	.576	2.969	3.169	1.906	2.677	80,700	120,900	161,400	11,500
28BDC・TC・FC	1-3/4	1.220	1.100	.625	3.661	3.890	2.346	3.339	100,500	150,600	201,000	14,300
32BDC・TC・FC	2	1.220	1.150	.701	3.638	3.878	2.307	3.299	123,400	185,000	246,800	17,600
80DC・TC・FC	1	.625	.625	.312	1.795	1.917	1.154	1.657	35,300	52,700	70,600	5,000
100DC・TC・FC	1-1/4	.750	.750	.375	2.197	2.343	1.409	2.039	52,800	79,100	105,700	7,500
120DC・TC・FC	1-1/2	1.000	.875	.437	2.717	2.886	1.787	2.528	77,100	115,600	154,200	11,000
140DC・TC・FC	1-3/4	1.000	1.000	.500	3.008	3.193	1.925	2.807	101,400	152,000	202,800	14,500
160DC・TC・FC	2	1.250	1.125	.562	3.543	3.744	2.303	3.311	125,700	188,400	251,300	17,900
180DC・TC・FC	2-1/4	1.406	1.406	.687	4.000	4.240	2.591	3.724	163,200	244,800	326,400	23,200
200DC・TC・FC	2-1/2	1.500	1.562	.781	4.378	4.724	2.819	4.079	209,500	314,300	419,000	29,900
240DC・TC・FC	3	1.875	1.875	.937	5.339	5.638	3.457	4.953	304,200	456,100	608,300	43,400

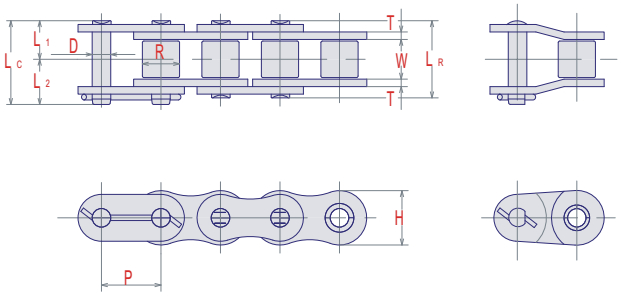


DOUBLE PITCH TYPE

Chain No.	Dimensions - inch										Average 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	T	Lbs	Lbs	Lbs/ft
2040 DC	1	.312	.312	.156	.906	.972	.453	.520	.449	.059	8,600	900	.34
2050 DC	1-1/4	.375	.400	.200	1.134	1.201	.567	.634	.591	.079	14,300	1,500	.57
2060H DC	1-1/2	.500	.469	.234	1.661	1.740	.831	.909	.669	.126	24,700	2,600	.98
2080H DC	2	.625	.625	.312	2.047	2.169	1.024	1.146	.890	.157	40,600	4,300	1.68
2100H DC	2-1/2	.750	.750	.375	2.441	2.583	1.220	1.362	1.126	.189	61,600	6,500	2.55
2120H DC	3	1.000	.875	.437	3.063	3.232	1.531	1.701	1.374	.220	83,600	8,800	3.69
2160H DC	4	1.250	1.125	.562	3.835	4.039	1.917	2.122	1.874	.283	137,600	14,500	6.21

S-SERIES ROLLER CHAINS

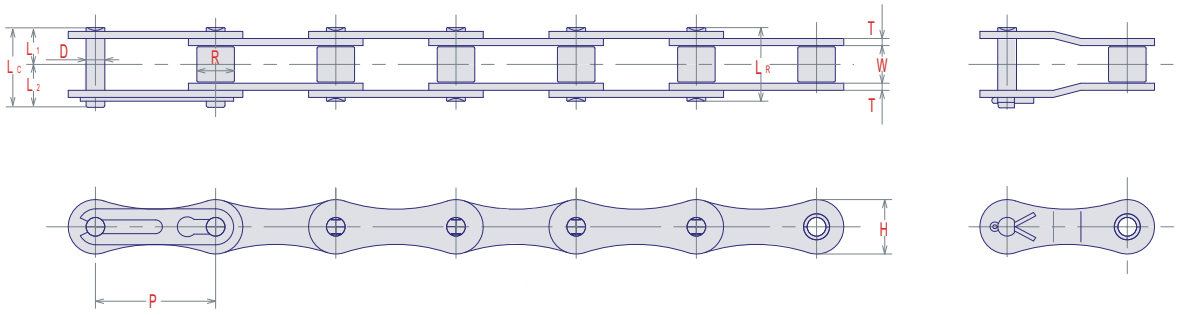
S-series roller chains are designed for high breaking strength and maximum endurance in pursuit of greater chain rigidity. Combination of plates one size thicker than standard's and thick, tough pins ensures accurate operations and long performance life under harsh, heavy loads. Single strand roller chains of this series run on standard single roller chain sprockets.



Chain No.	Dimensions - inch										Average 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	T	Lbs	Lbs	Lbs/ft
251S	2	1.250	1.125	.625	2.678	2.882	1.339	1.543	1.839	.283	75,800	13,200	7.58
264S	2-1/2	1.500	1.562	.875	3.378	3.720	1.689	2.031	2.354	.374	125,000	18,300	12.91

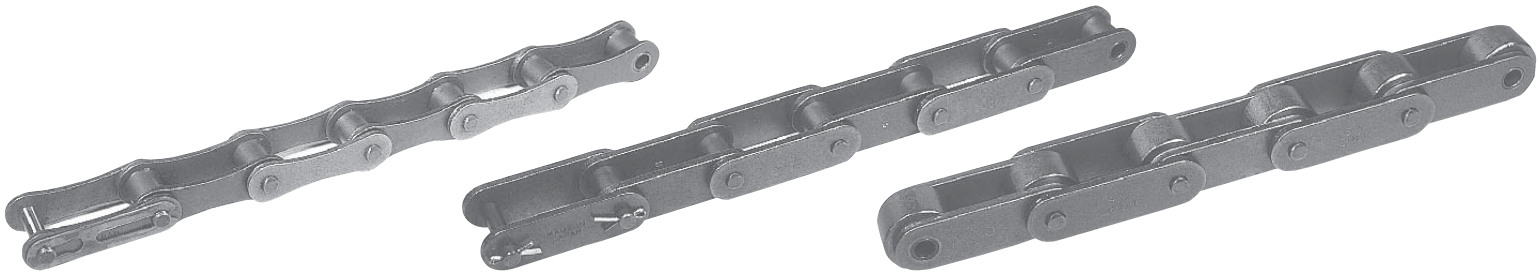
DOUBLE PITCH ROLLER CHAINS (DRIVE SERIES)

RBL Double-Pitch roller chain is similar to RBL standard roller chain, except the pitch is twice that of standard roller chain. These chains weigh less and are lower in cost than standard roller chain of the same strength. They are ideal for slow and moderate speed applications, particularly when shaft centers are relatively long.
There are two types of double-pitch chains. Transmission type has figure-eight shaped link plates. Conveyor type has straight edged link plates. Conveyor type chains are available with standard rollers or with oversized carrier rollers. Conveyor series chains with 1.5” pitch and larger are constructed with heavy series side plates. RBL Double-Pitch chains are manufactured to the highest standards, and with solid bushings and solid rollers.



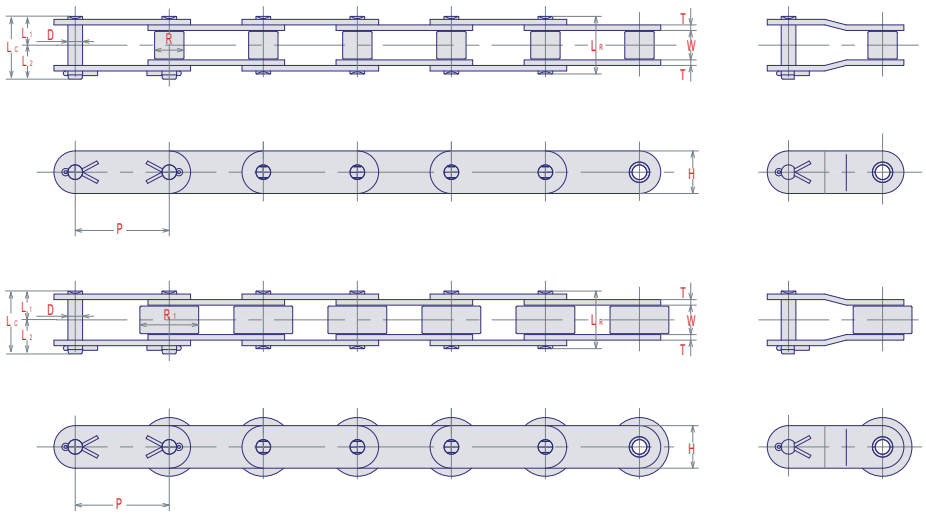
DRIVE SERIES

Chain No. (ANSI)	Dimensions - inch										Average 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	T	Lbs	Lbs	Lbs/ft
A2040	1	.312	.312	.156	.646	.701	.323	.378	.450	.060	3,700	600	.29
A2050	1-1/4	.375	.400	.200	.800	.867	.400	.467	.571	.080	6,100	960	.49
A2060	1-1/2	.500	.469	.234	1.000	1.083	.500	.583	.670	.094	9,000	1,400	.69
A2080	2	.625	.625	.312	1.256	1.385	.628	.750	.890	.125	15,300	2,400	1.15



RBL®
PREMIUM

DOUBLE PITCH ROLLER CHAINS (CONVEYOR SERIES)



STANDARD ROLLER TYPE

Chain No. (ANSI)	Dimensions - inch										Average Ultimate Strength	Maximum Allowable Load	Average Chain Weight
	Pitch	Roller		Pin					Plate				
		Width	Dia.	Dia.	Length				Height	Thick.			
	P	W	R	D	L_R	L_C	L_1	L_2	H	T	Lbs	Lbs	Lbs/ft
C2040	1	.312	.312	.156	.646	.701	.323	.378	.450	.060	3,800	800	.32
C2050	1-1/4	.375	.400	.200	.800	.867	.400	.467	.591	.080	6,200	1,400	.55
C2060H	1-1/2	.500	.469	.234	1.130	1.222	.565	.657	.670	.125	9,000	1,900	.93
C2080H	2	.625	.625	.312	1.398	1.528	.699	.829	.890	.156	15,400	3,300	1.56
C2100H	2-1/2	.750	.750	.375	1.662	1.800	.831	.969	1.126	.187	24,300	5,100	2.33
C2120H	3	1.000	.875	.437	2.072	2.244	1.036	1.208	1.374	.218	33,900	6,800	3.37
C2160H	4	1.250	1.125	.562	2.666	2.870	1.333	1.537	1.874	.281	58,000	11,900	5.34

CARRIER ROLLER TYPE

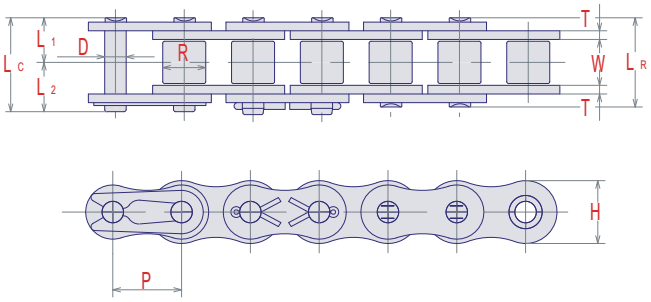
Chain No. (ANSI)	Dimensions - inch										Average Ultimate Strength	Maximum Allowable Load	Average Chain Weight
	Pitch	Roller		Pin					Plate				
		Width	Dia.	Dia.	Length				Height	Thick.			
	P	W	R	D	L_R	L_C	L_1	L_2	H	T	Lbs	Lbs	Lbs/ft
C2042	1	.312	.625	.156	.646	.701	.323	.378	.450	.060	3,800	800	.55
C2052	1-1/4	.375	.750	.200	.800	.867	.400	.467	.591	.080	6,200	1,400	.85
C2062H	1-1/2	.500	.875	.234	1.130	1.222	.565	.657	.670	.125	9,000	1,900	1.40
C2082H	2	.625	1.125	.312	1.398	1.528	.699	.829	.890	.156	15,400	3,300	2.27
C2102H	2-1/2	.750	1.562	.375	1.662	1.800	.831	.969	1.126	.187	24,300	5,100	3.78
C2122H	3	1.000	1.750	.437	2.072	2.244	1.036	1.208	1.374	.218	33,900	6,800	5.34
C2162H	4	1.250	2.250	.562	2.666	2.870	1.333	1.537	1.874	.281	58,000	11,900	8.46

Stainless Steel Chains

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 NEW HIGH POWER NEW SSS SERIES PRODUCTS

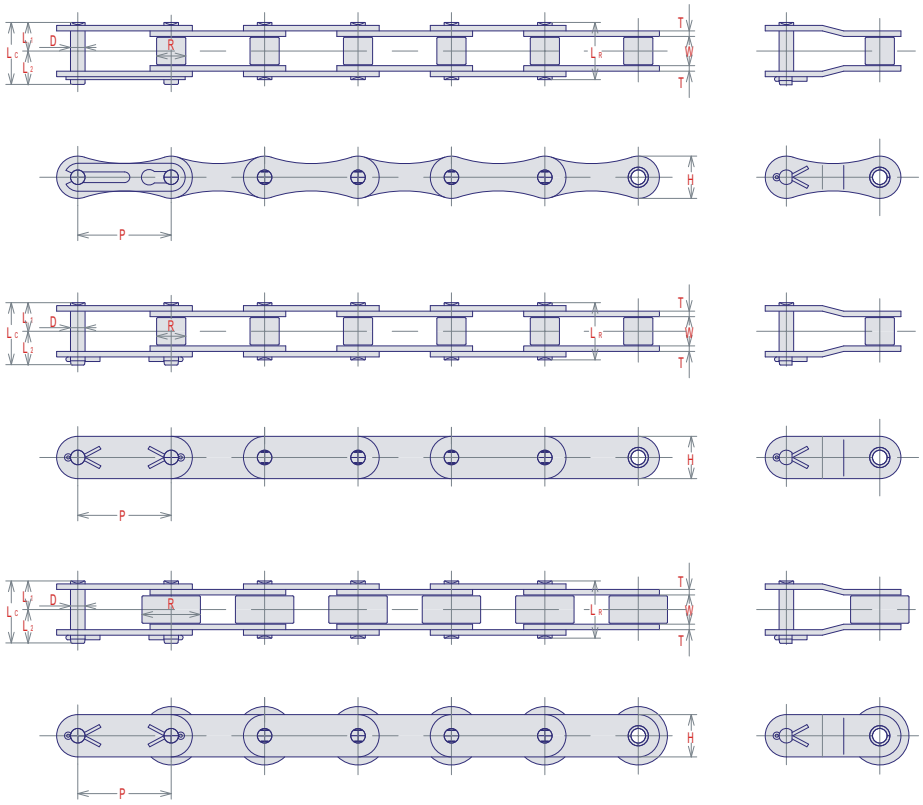
SSS series stainless steel roller chains with solid rollers, are anti-magnetic and have superior permeability than the common curled roller.
High Power New SSS Chain use a specially treated pin and roller.
Extremely long life is engaged by this surface treatment.
SSS series chain life is more than 2 times longer than that of normal SS series Chain.
50% Higher Allowable Loads



ANSI AND BS STAINLESS STEEL CHAIN

Chain No.	Dimensions - inch										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	T	Lbs	Lbs	Lbs/ft
25-SS	1/4	.125	▲.130	.091	.300	.340	.150	.190	.230	.030	880	22	.09
35-SS	3/8	.188	▲.200	.141	.472	.509	.236	.273	.354	.050	1,400	60	.23
40-SS	1/2	.312	.312	.156	.654	.705	.327	.378	.463	.060	2,800	100	.40
50-SS	5/8	.375	.400	.200	.804	.867	.402	.465	.577	.080	4,000	154	.66
60-SS	3/4	.500	.469	.234	1.008	1.059	.504	.555	.691	.094	5,500	200	.98
80-SS	1	.625	.625	.312	1.292	1.378	.646	.732	.921	.125	9,500	400	1.69
100-SS	1-1/4	.750	.750	.375	1.552	1.693	.776	.917	1.154	.156	11,500	600	2.62
※120-SS	1-1/2	1.000	.875	.437	1.952	2.102	.976	1.126	1.382	.187	15,400	900	3.86
※140-SS	1-3/4	1.000	1.000	.500	2.124	2.294	1.062	1.232	1.610	.220	19,800	1,000	4.96
※160-SS	2	1.250	1.125	.562	2.536	2.705	1.268	1.437	1.839	.252	24,700	1,400	6.56
	P	W	R	D	LR	LC	L1	L2	H	T	Lbs	Lbs	Lbs/ft
05B-SS	.315	.118	.197	.091	.300	.335	.150	.185	.280	.030	900	26	.11
06B-SS	3/8	.225	.250	.129	.480	.516	.240	.276	.323	.039/.049	1,450	60	.29
08B-SS	1/2	.305	.335	.175	.658	.692	.329	.363	.457	.060	2,580	110	.41
10B-SS	5/8	.380	.400	.200	.748	.796	.374	.422	.571	.065	3,670	150	.60
12B-SS	3/4	.460	.475	.225	.828	.905	.414	.491	.626	.070	4,100	200	.77
16B-SS	1	.670	.625	.325	1.382	1.496	.691	.805	.792	.122/.154	10,670	460	1.74

※304 Stainless steel
▲Chain is rollerless R shows bushing dia.



DOUBLE PITCH STAINLESS STEEL CHAIN

Chain No.	Dimensions - inch										Average 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	T	Lbs	Lbs	Lbs/ft
A2040-SS	1	.312	.312	.156	.646	.701	.323	.378	.450	.060	2,800	99	.29
A2050-SS	1-1/4	.375	.400	.200	.800	.867	.400	.467	.591	.080	4,450	154	.49
A2060-SS	1-1/2	.500	.469	.234	1.000	1.083	.500	.583	.670	.094	6,200	231	.69
A2080-SS	2	.625	.625	.312	1.256	1.378	.628	.750	.890	.125	10,670	396	1.15
C2040-SS	1	.312	.312	.156	.646	.729	.323	.406	.450	.060	2,800	99	.32
C2050-SS	1-1/4	.375	.400	.200	.804	.867	.402	.465	.591	.080	4,450	154	.55
C2060H-SS	1-1/2	.500	.469	.234	1.134	1.221	.567	.654	.670	.125	6,200	231	.93
C2080H-SS	2	.625	.625	.312	1.402	1.528	.701	.827	.890	.156	10,670	396	1.56
※C2100H-SS	2-1/2	.750	.750	.375	1.662	1.800	.831	.969	1.125	.187	12,900	583	2.32
※C2120H-SS	3	1.000	.875	.437	2.070	2.244	1.035	1.209	1.375	.219	17,000	1,300	3.30
※C2160H-SS	4	1.250	1.125	.562	2.670	2.870	1.335	1.535	1.875	.281	27,600	1,600	5.38
C2042-SS	1	.312	.625	.156	.646	.729	.323	.406	.450	.060	2,800	99	.55
C2052-SS	1-1/4	.375	.750	.200	.804	.867	.402	.465	.591	.080	4,450	154	.85
C2062H-SS	1-1/2	.500	.875	.234	1.134	1.221	.567	.654	.670	.125	6,200	231	1.40
C2082H-SS	2	.625	1.125	.312	1.402	1.528	.701	.827	.890	.156	10,670	396	2.25
※C2102H-SS	2-1/2	.750	1.562	.375	1.662	1.800	.831	.969	1.125	.187	12,900	583	3.78
※C2122H-SS	3	1.000	1.750	.437	2.070	2.244	1.035	1.209	1.375	.219	17,000	1,300	5.28
※C2162H-SS	4	1.250	2.250	.562	2.670	2.870	1.335	1.535	1.875	.281	27,600	1,600	8.57

※304 Stainless steel

Selection of Stainless Steel Chain

Chain selection should be made based on the bearing pressure as shown below

$$\text{Max. Allowable Load} : \frac{\overset{mm}{\boxed{\text{PIN DIA.}}} \times \overset{mm}{\boxed{\text{BUSHING LENGTH}}} \times \overset{Mpa}{\boxed{P}}}{1000} = \text{kN}$$

Max. Allowable Load ≧ f1 X f2 X f3 X f5 X [Calculated Chain Tension]

NEW Chain

		SS SERIES		SSS SERIES	600 SERIES
Material	Plate	SUS304	SUS316	SUS304	SUS304
	Pin	SUS304	SUS316	SUS304	600
	Bushing	SUS304	SUS316	SUS304	SUS304
	Roller	SUS304	SUS316	SUS304	600
Shape of roller		Solid	Solid	Solid	Solid
Bearing Pressure (P)		9.8	9.8	14.7	14.7
Non-Magnetize		○	◎	○	△
Corrosion Resistance		○	◎	○	△
Heat Resistance		○	◎	○	○
Wear Resistance		△	△	○	◎
Stress Corrosin Cracking Resistance		×	◎	×	×
Chain Number		#35 - #120	#35 - #120	#35 - #160	#40 - #100
		- C2100H	- C2080H	- C2100H	- C2100H

Rating☐
◎Excellent
○Good
△Fair
×Not Recommended

Service Factor (f1)

Condition	(f1)
Smooth	1.0
Some Impact	1.2
Large Impact	1.5

Service Factor (f2)

Chain Speed (m/s)	(f2)
0 - 1 5	1.0
15 - 3 0	1.2
30 - 5 0	1.4
50 - 7 0	1.6

Service Factor (f3)

Temperature (°C)	304SS	316SS	600
☐40 o☐20	1.0	1.0	×
☐20 - 400	1.0	1.0	1.0
400 - 500	1.2	1.2	1.8
500 - 600	1.5	1.5	×
600 - 700	1.8	1.8	×
700 - 800	×	2.0	×

×: Not Recommended

Service Factor (f4)

See next page

Corrosion Rating	(f4)
1	1.00
2	1.23
3	1.44
4	×

×: Not Recommended

Service Factor (f5)

Lubrication	(f5)
Lubricate	1.00
dry	1.44

STAINLESS CHAIN CORROSION RESISTANCE GUIDE

CORROSION RATING

Agent	Stainless Steel			Agent	Stainless Steel		
	304	600	316		304	600	316
Acidic Acid 20°C	1	1	1	Linseed Oil	1	1	1
Boiling	2	2	1	Lye 20°C	1	1	1
Acidic Vapors	3	4	2	Boiling	2	3	1
Acetone	1	1	1	Magnesium Chloride 20°C	2	3	1
Alcohol	1	1	1	Hot	3	4	2
Aluminum Chloride	3	4	2	Malic acid	1	1	1
Aluminum Sulfate 20°C	1	1	1	Marsh gas	1	1	1
Boiling	2	3	1	Mayonnaise	2	3	1
Ammonia	1	1	1	Mercury	1	1	1
Ammonium Chloride 20°C	1	1	1	Milk	1	1	1
Boiling	2	3	1	Mine water (acid)	1	1	1
Ammonium Nitrate	1	1	1	Molasses	1	1	1
Baking Soda	1	1	1	Nickel Chloride	2	3	1
Barium Carbonate	1	1	1	Nickel Sulfate	1	1	1
Barium Chloride 20°C	1	1	1	Nitric Acid 20°C	1	1	1
Hot	2	3	1	Concentrated Boiling	3	4	2
Beer	1	1	1	Fuming	3	4	2
Beet Juice	1	1	1	Oleic Acid	2	3	1
Benzine	1	1	1	Oils Mineral	1	1	1
Bleaching Powder	2	4	1	Vegetable	1	1	1
Blood(meat juices)	1	1	1	Refined	1	1	1
Boric Acid	1	1	1	Crude	2	3	1
Calcium Chloride(Alkaline)	2	2	1	Oxalic Acid	1	1	1
Calcium Chloride	3	4	2	Paraffin	1	1	1
Calcium Sulfate	1	1	1	Phenol (Carbolic acid)	1	1	1
Carbolic Acid	1	1	1	Phosphoric Acid boiling	4	4	3
Carbon Tetrachloride	1	2	1	Potash	1	1	1
Caustic Lime, Potassium	1	1	1	Potassium Chloride	2	3	1
Chlorine gas Dry	3	4	2	Potassium Cyanide	1	1	1
Moist	4	4	3	Potassium Nitrate	1	1	1
Chlorinated water	2	3	1	Potassium Sulfate	1	1	1
Chromic Acid 20°C	1	1	1	Potassium Sulfide	1	1	1
Boiling	3	4	1	Salt 20°C	1	2	1
Citric Acid 20°C	1	1	1	65°C	2	3	1
Boiling	3	4	1	Sea Water	2	3	1
Ferric Chloride	3	4	2	Sewage(sulfuric acid)	2	3	1
Formic Acid	2	3	1	Sodium Acetate	1	1	1
Fruit juices	1	2	1	Sodium Chloride 20°C	1	1	1
Fuel Oil	1	1	1	Boiling	2	3	1
Fuel oil with sulfuric	3	4	3	Sodium Cyanide	1	1	1
Gasoline	1	1	1	Sodium Fluoride	2	3	1
Glue	1	1	1	Sodium Hydroxide	1	1	1
Glue acidified	2	3	1	Sodium Peroxide	1	1	1
Glycerin	1	1	1	Sodium Sulfate	1	1	1
Grape juices	1	1	1	Sodium Sulfide	2	3	1
Gypsum(Calcium Sulfate)	1	1	1	Sodium Sulfite	1	1	1
Hydrochloric acid 2%	4	4	4	Soap	1	1	1
Hydrogen Peroxide 30%	1	2	1	Sulfuric Acid 20°C	2	3	1
Hydrogen Sulfide Dry	1	1	1	Boiling	4	4	2
Moist	4	4	4	Fuming	3	4	1
Iodine Dry	1	1	1	Vapor	2	3	1
Moist	4	4	3	Vinegar(Acetic Acid)	1	1	1
Ketchup	1	1	1	Whiskey	1	1	1
Lactic acid 20°C	1	1	1	Wood Pulp	1	1	1
65°C	3	4	1	Zinc Chloride 20°C	1	1	1
Lard	1	1	1	Boiling	3	4	2

AQUA-PROOF ROLLER CHAINS

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
Glos 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

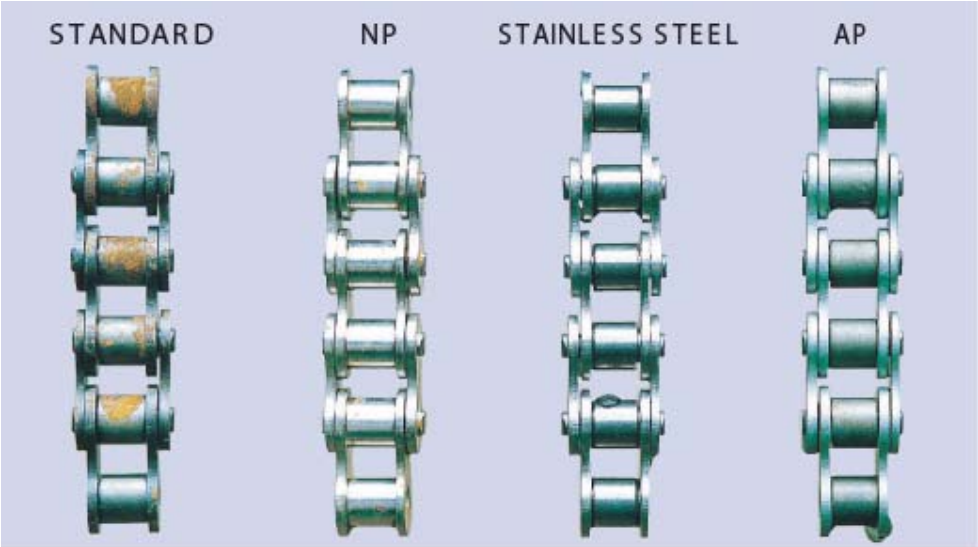
Caution

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

Applicable Chains

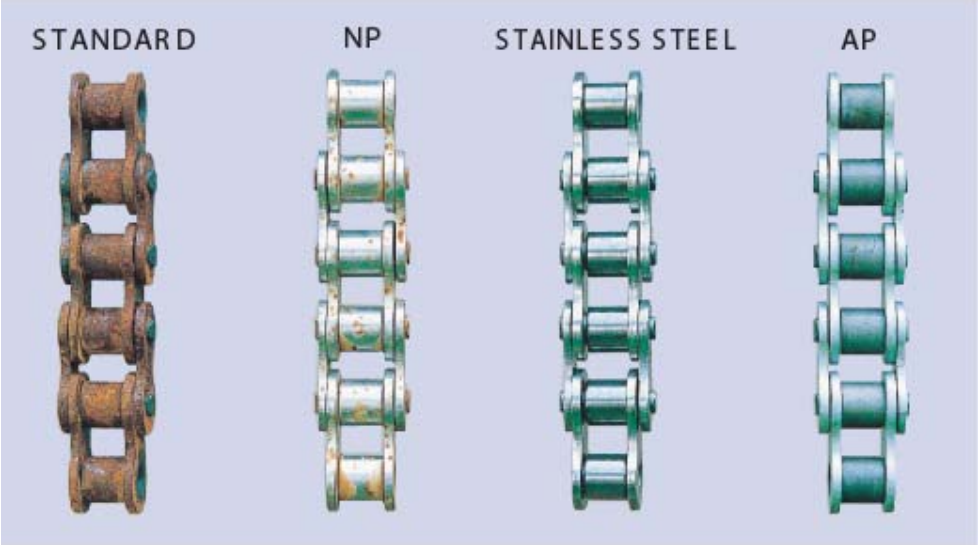
40AP~240AP
Attachment chain is available.
For identification, a suffix is added to the chain numbers.

Anti-corrosive test



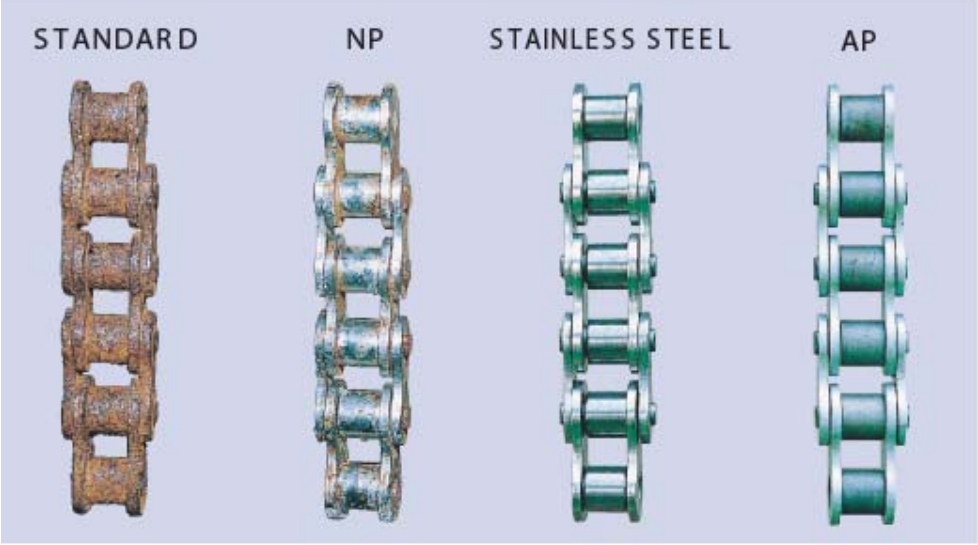
Open air,
splashed water
morning&evening

3days after



Open air,
splashed water
morning&evening

15days after

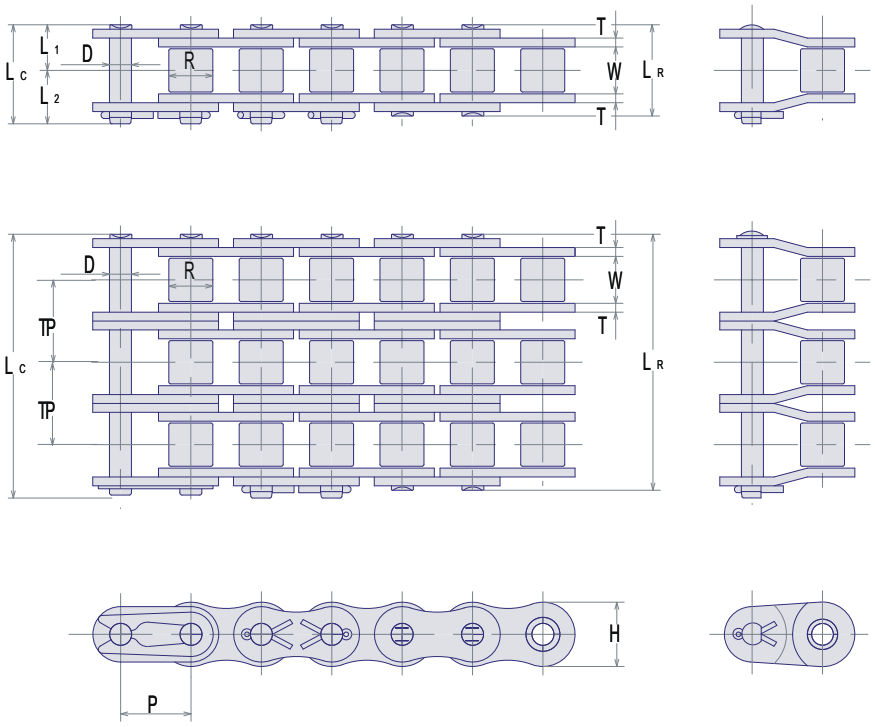


Indoors,
splashed
5%salty water
morning&evening

15days after

Nickel-Plated ANSI Chains

Ideal for outdoor operations and in situations where machinery and equipment must be run in a lightly corrosive atmosphere or where good chain appearance may be desired.
For identification, a suffix NP is added to the chain numbers.

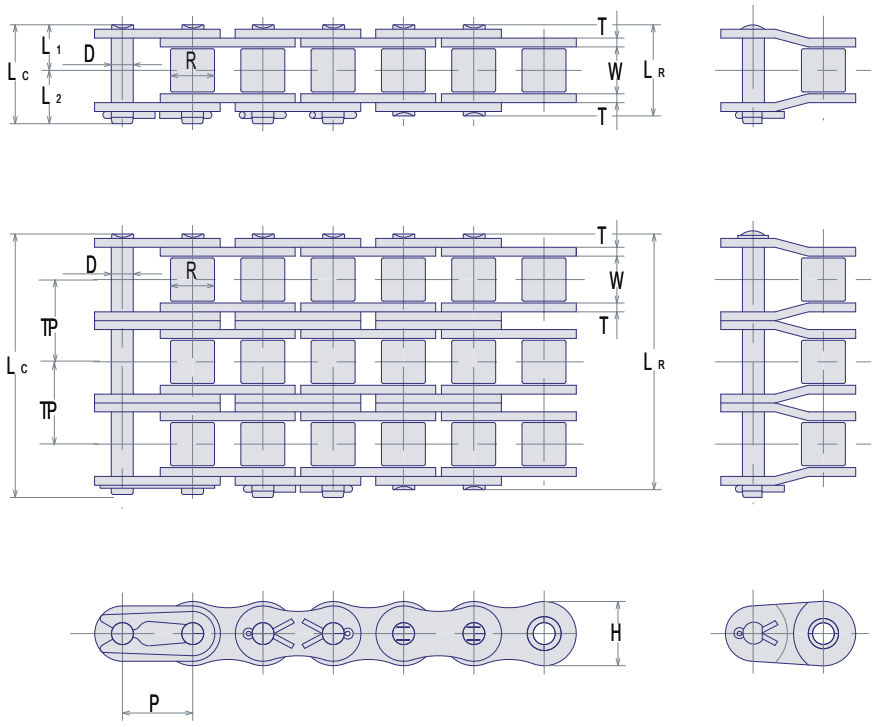


NP ANSI STANDARD

Chain No.	Dimensions - inch											Average Ultimate Strength	Maximum Allowable Load	Average Chain Weight
	Pitch	Roller		Pin					Plate		Trans. Pitch			
		Width	Dia.	Dia.	Length				Height	Thick.				
	P	W	R	D	LR	LC	L1	L2	H	T	TP	Lbs	Lbs	Lb/ft
25NP	1/4	.125	*.130	.091	.300	.340	.150	.190	.230	.030		1,050	140	.09
35NP	3/8	.188	*.200	.141	.472	.509	.236	.273	.354	.050		2,400	400	.23
40NP	1/2	.312	.312	.156	.654	.705	.327	.378	.463	.060		4,300	700	.40
50NP	5/8	.375	.400	.200	.804	.867	.402	.465	.577	.080		7,200	1,200	.66
60NP	3/4	.500	.469	.234	1.008	1.059	.504	.555	.691	.094		9,700	1,600	.98
80NP	1	.625	.625	.312	1.292	1.378	.646	.732	.921	.125		17,600	2,900	1.69
100NP	1-1/4	.750	.750	.375	1.552	1.693	.776	.917	1.154	.156		26,500	4,300	2.62
35NP-2	3/8	.188	*.200	.141	.874	.906	.437	.469	.354	.050	.398	4,900	700	.42
40NP-2	1/2	.312	.312	.156	1.213	1.268	.606	.661	.463	.060	.567	8,600	1,200	.82
50NP-2	5/8	.375	.400	.200	1.504	1.583	.752	.831	.577	.080	.712	14,300	2,000	1.34
60NP-2	3/4	.500	.469	.234	1.890	1.945	.945	1.012	.691	.094	.898	19,400	2,800	1.98
80NP-2	1	.625	.625	.312	2.426	2.540	1.213	1.327	.921	.125	1.153	35,300	4,900	3.42
100NP-2	1-1/4	.750	.750	.375	2.950	3.102	1.475	1.627	1.154	.156	1.409	53,100	7,300	5.19

*Chain is rollerless ;R shows bushing dia.

Nickel-Plated BS Chains

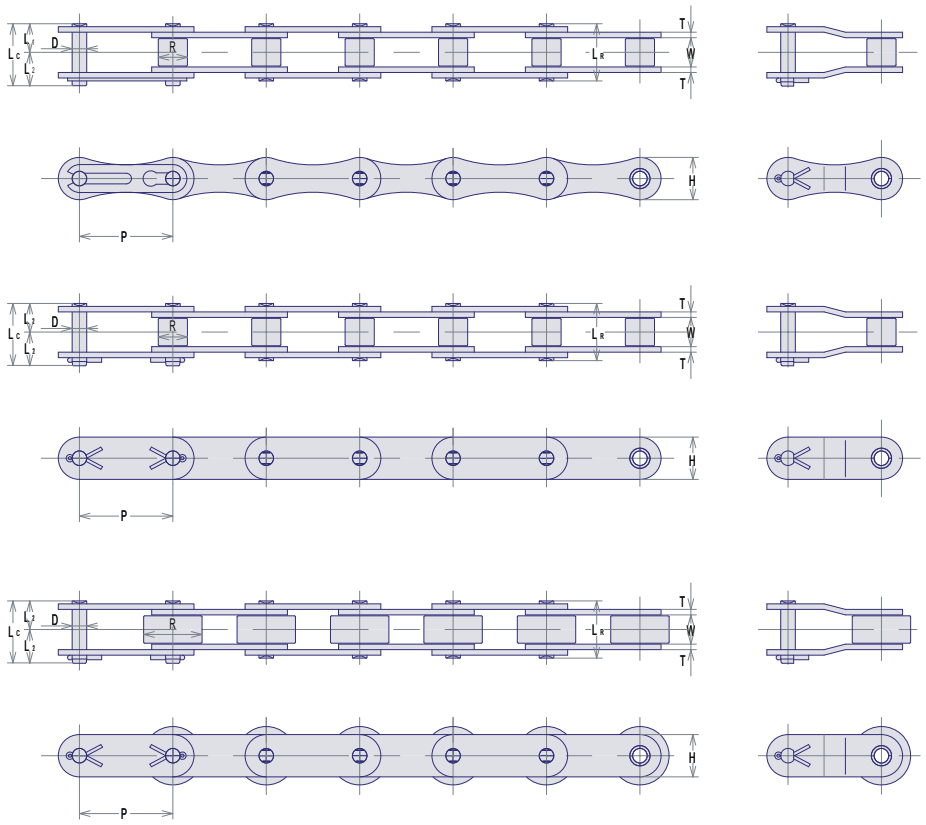


NP BS STANDARD

Chain No.	Dimensions - inch												Minimum Ultimate Strength	Maximum Allowable Load	Average Chain Weight
	Pitch	Roller		Pin					Plate			Trans. Pitch			
		Width	Dia.	Dia.	Length				Height	Thickness					
	P	W	R	D	L_R	L_C	L_1	L_2	H	T_1	T_2	TP	Lbs	Lbs	Lb/ft
06B-NP	3/8	.225	.250	.129	.480	.516	.240	.276	.323	.039	.049		2,000	400	.29
08B-NP	1/2	.305	.335	.175	.658	.692	.329	.363	.457	.060	.060		4,000	700	.41
10B-NP	5/8	.380	.400	.200	.748	.796	.374	.422	.571	.065	.065		5,000	1,100	.60
12B-NP	3/4	.460	.475	.225	.828	.905	.414	.491	.626	.070	.070		6,500	1,600	.76
16B-NP	1	.670	.625	.325	1.382	1.496	.691	.805	.792	.122	.154		13,500	2,800	1.74
20B-NP	1-1/4	.770	.750	.400	1.582	1.713	.791	.922	1.039	.138	.177		21,400	4,400	2.52
06B-NP-2	3/8	.225	.250	.129	.906	.933	.453	.480	.323	.039	.0449	.403	3,800	700	.54
08B-NP-2	1/2	.305	.335	.175	1.204	1.256	.602	.654	.457	.060	.060	.548	7,000	1,200	.84
10B-NP-2	5/8	.380	.400	.200	1.402	1.469	.701	.768	.571	.065	.065	.653	10,000	1,900	1.20
12B-NP-2	3/4	.460	.475	.225	1.638	1.697	.819	.878	.626	.070	.070	.766	13,000	2,700	1.53
16B-NP-2	1	.670	.625	.325	2.646	2.760	1.323	1.437	.792	.122	.154	1.255	23,800	4,800	3.44
20B-NP-2	1-1/4	.770	.750	.400	3.024	3.173	1.512	1.661	1.039	.138	.177	1.435	38,200	7,500	4.86

※Refer to page 72. “Selection of offset link”

Nickel-Plated Double Pitch Chains



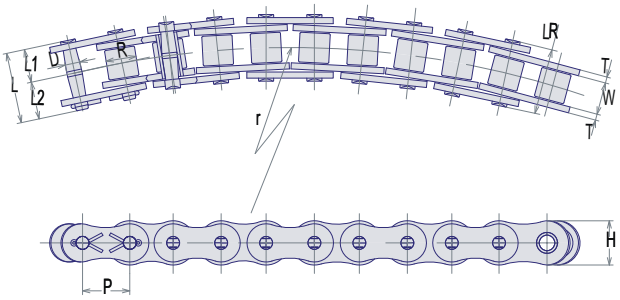
NP DOUBLE PITCH

Chain No.	Dimensions - inch										Average 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	T	Lbs	Lbs	Lb/ft
A2040-NP	1	.312	.312	.156	.646	.701	.323	.378	.450	.060	3,800	600	.29
A2050-NP	1-1/4	.375	.400	.200	.800	.867	.400	.467	.571	.080	6,200	1,000	.49
A2060-NP	1-1/2	.500	.469	.234	1.000	1.083	.500	.583	.670	.094	9,000	1,400	.69
A2080-NP	2	.625	.625	.312	1.256	1.385	.628	.750	.890	.125	15,400	2,400	1.15
C2040-NP	1	.312	.312	.156	.646	.701	.323	.378	.450	.060	3,800	600	.32
C2050-NP	1-1/4	.375	.400	.200	.800	.867	.400	.467	.591	.080	6,200	1,000	.55
C2060H-NP	1-1/2	.500	.469	.234	1.130	1.222	.565	.657	.670	.125	9,000	1,900	.92
C2080H-NP	2	.625	.625	.312	1.398	1.528	.699	.829	.890	.156	15,400	3,400	1.55
C2100H-NP	2-1/2	.750	.750	.375	1.662	1.800	.831	.969	1.126	.187	24,300	5,200	2.32
C2042-NP	1	.312	.625	.156	.646	.701	.323	.378	.450	.060	3,800	600	.55
C2052-NP	1-1/4	.375	.750	.200	.800	.867	.400	.467	.591	.080	6,200	1,000	.84
C2062H-NP	1-1/2	.500	.875	.234	1.130	1.222	.565	.657	.670	.125	9,000	1,900	1.39
C2082H-NP	2	.625	1.125	.312	1.398	1.528	.699	.829	.890	.156	15,400	3,400	2.25
C2102H-NP	2-1/2	.750	1.562	.375	1.662	1.800	.831	.969	1.126	.187	24,300	5,200	3.78

PREMIUM

Side Bow Chains

RBL 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.



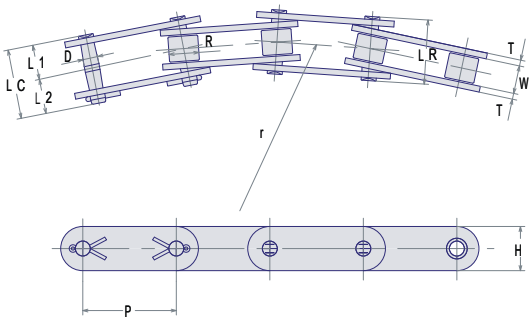
SB STANDARD

Chain No.	Dimensions - inch											Average Ultimate Strength	Maximum Allowable Load	Average Chain Weight
	Pitch	Roller		Pin					Plate		Min.Curve Radius			
		Width	Dia.	Out Dia.	Length				Height	Thick.				
	P	W	R	D	LR	LC	L1	L2	H	T	r	Lbs	Lbs	Lb/ft
40-SB	1/2	.312	.312	.141	.670	.736	.335	.401	.457	.060	13.780	3,500	400	.41
50-SB	5/8	.375	.400	.175	.814	.890	.407	.483	.571	.080	15.748	5,400	700	.68
60-SB	3/4	.500	.469	.200	1.024	1.095	.512	.583	.689	.094	19.685	7,300	950	.94
80-SB	1	.625	.625	.281	1.308	1.390	.654	.736	.921	.125	23.622	14,000	1,700	1.66

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

Side Bow Double Pitch Chains

RBL 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.

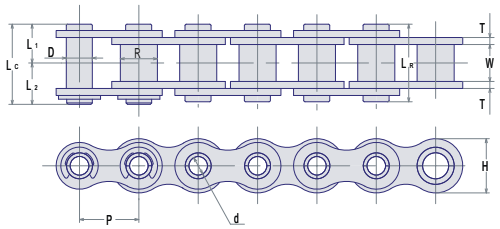


SB DOUBLE PITCH

Chain No.	Dimensions - inch											Average Ultimate Strength	Maximum Allowable Load	Average Chain Weight
	Pitch	Roller		Pin					Plate		Min.Curve Radius			
		Width	Dia.	Out Dia.	Length				Height	Thick.				
	P	W	R	D	LR	LC	L1	L2	H	T	r	Lbs	Lbs	Lb/ft
C2040-SB	1	.312	.312	.156	.646	.729	.323	.406	.450	.060	27.560	3,300	400	.55
C2050-SB	1-1/4	.375	.400	.200	.804	.867	.402	.465	.591	.080	31.496	5,000	700	.84
C2060-SB	1-1/2	.500	.469	.234	1.134	1.221	.567	.654	.670	.125	39.370	6,600	900	1.35
C2042-SB	1	.312	.625	.156	.646	.729	.323	.406	.450	.060	27.560	3,300	400	.55
C2052-SB	1-1/4	.375	.750	.200	.804	.867	.402	.465	.591	.080	31.496	5,000	700	.84
C2062-SB	1-1/2	.500	.875	.234	1.134	1.221	.567	.654	.670	.125	39.370	6,600	900	1.35

HOLLOW PIN CHAINS

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 the insertion of cross rods or attachments to pre-assembled chain at desired spacing.
For identification, the suffix HP is added to the chain numbers.



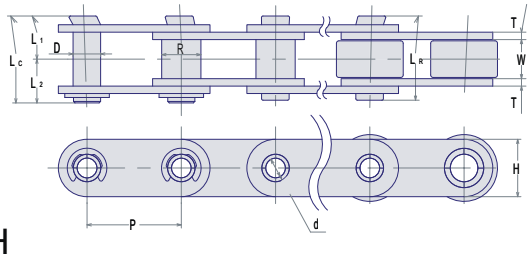
HP STANDARD

Chain No.	Dimensions - inch											Average Ultimate Strength	Maximum Allowable Load	Average Chain Weight
	Pitch	Roller		Hollow Pin		Length				Plate				
		Width	Dia.	Outside	Inside					Height	Thick.			
	P	W	R	D	d	LR	LC	L1	L2	H	T	Lbs	Lbs	Lb/ft
40-HP	1/2	.312	.312	.222	.158	.654	.689	.327	.362	.472	.060	3,000	400	.39
50-HP	5/8	.375	.400	.280	.202	.808	.857	.404	.453	.591	.080	4,400	700	.65
60-HP	3/4	.500	.469	.327	.238	1.016	1.063	.508	.555	.718	.094	7,500	950	.98
80-HP	1	.625	.625	.446	.318	1.276	1.396	.638	.758	.949	.125	11,400	1,700	1.66

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

DOUBLE PITCH HOLLOW PIN CHAINS

Hollow pin chains with oil less parts are quality chains functioning by combining both advantages of hollow pin chains and self-lube chains. They operate on the same sprockets as double-pitch roller chains.

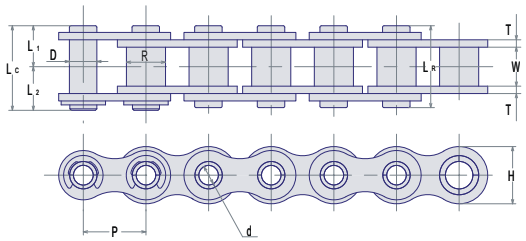


HP DOUBLE PITCH

Chain No.	Dimensions - inch											Average Ultimate Strength	Maximum Allowable Load	Average Chain Weight
	Pitch	Roller		Hollow Pin		Length				Plate				
		Width	Dia.	Outside	Inside					Height	Thick.			
	P	W	R	D	d	LR	LC	L1	L2	H	T	Lbs	Lbs	Lb/ft
C2040-HP	1	.312	.312	.222	.158	.654	.689	.327	.362	.472	.060	3,000	400	0.46
C2050-HP	1-1/4	.375	.400	.280	.202	.808	.857	.404	.453	.591	.080	4,000	700	0.76
C2060-HP	1-1/2	.500	.469	.327	.238	1.016	1.063	.508	.555	.670	.094	7,500	950	1.12
C2080-HP	2	.625	.625	.446	.318	1.276	1.396	.638	.758	.890	.125	11,400	1,700	1.98
C2042-HP	1	.312	.625	.222	.158	.654	.689	.327	.362	.472	.060	3,000	400	0.81
C2052-HP	1-1/4	.375	.750	.280	.202	.808	.857	.404	.453	.591	.080	4,000	700	1.25
C2062-HP	1-1/2	.500	.875	.327	.238	1.016	1.063	.508	.555	.670	.094	7,500	950	1.79
C2082-HP	2	.625	1.125	.446	.318	1.276	1.396	.638	.758	.890	.125	11,400	1,700	3.17
C2082H-HP	2	.625	1.125	.446	.318	1.410	1.485	.705	.780	.949	.157	13,000	1,700	3.22

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

Stainless Hollow Pin Chains

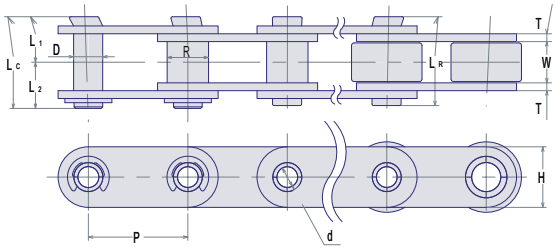


HP-SS STANDARD

Chain No.	Dimensions - inch											Average Ultimate Strength	Maximum Allowable Load	Average Chain Weight
	Pitch	Roller		Pin						Plate				
		Width	Dia.	Outside	Inside	Length				Height	Thick.			
	P	W	R	D	d	L_R	L_C	L_1	L_2	H	T	Lbs	Lbs	Lb/ft
40HP-SS	1/2	.312	.312	.222	.158	.654	.689	.327	.362	.472	.060	1,650	100	.39
50HP-SS	5/8	.375	.400	.280	.202	.808	.857	.404	.453	.591	.080	2,650	155	.65
60HP-SS	3/4	.500	.469	.327	.238	1.016	1.063	.508	.555	.718	.094	3,800	230	.98
80HP-SS	1	.625	.625	.446	.318	1.276	1.396	.638	.758	.949	.125	7,000	400	1.65

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

Double Pitch Stainless Hollow Pin Chains



HP-SS DOUBLE PITCH

Chain No.	Dimensions - inch											Average Ultimate Strength	Maximum Allowable Load	Average Chain Weight
	Pitch	Roller		Pin						Plate				
		Width	Dia.	Outside	Inside	Length				Height	Thick.			
	P	W	R	D	d	L_R	L_C	L_1	L_2	H	T	Lbs	Lbs	Lb/ft
C2040HP-SS	1	.312	.312	.222	.158	.654	.689	.327	.362	.472	.060	1,650	100	.31
C2050HP-SS	1-1/4	.375	.400	.280	.202	.808	.857	.404	.453	.591	.080	2,650	155	.51
C2060HP-SS	1-1/2	.500	.469	.327	.238	1.016	1.063	.508	.555	.670	.094	3,800	230	.75
C2080HP-SS	2	.625	.625	.446	.318	1.276	1.396	.638	.758	.890	.125	7,000	400	1.33
C2042HP-SS	1	.312	.625	.222	.158	.654	.689	.327	.362	.472	.060	1,650	100	.54
C2052HP-SS	1-1/4	.375	.750	.280	.202	.808	.857	.404	.453	.591	.080	2,650	155	.84
C2062HP-SS	1-1/2	.500	.875	.327	.238	1.016	1.063	.508	.555	.670	.094	3,800	230	1.20
C2082HP-SS	2	.625	1.125	.446	.318	1.276	1.396	.638	.758	.890	.125	7,000	400	2.12
C2082H-HP-SS	2	.625	1.125	.446	.318	1.410	1.485	.705	.780	.949	.157	7,000	400	2.16

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

Sintered Steel Bushing Self-Lube Chains

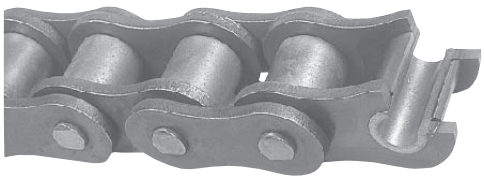
Oil-impregnated sintered steel bushing roller chain is self-lubricating. No additional lubrication is necessary. SL type self-lube chain is made with a one-piece sintered bushing, i.e. bushed chain. The extra solid volume of the bushing offers longer life capacity as compared to SLR type chain. The SLR is a self-lube chain with rollers to reduce friction and to smooth the action of the chain over the sprockets. There are two types of SLR chain: one, with an inner link plate thickness that is of the next larger size chain to maintain the same strength of standard roller chain; and another with the same thickness of the standard link plate that provides approximately 80% of the maximum allowable load of standard roller chain.

(Chain size)	#40 - #120SL #40 - #120SLR and 08B - 32B SLR
(Sprocket)	Standard size
(Other applicable chains)	Hollow Pin Chain, Attachment Chain
(Operating temperature)	– 10℃ to + 60℃
(Range of speed)	From slow speed 25m/min to high speed 75m/min

(Selection and Caution)

1) In dusty environments, dusts absorb the lubrication of sintered steel bushings resulting in premature wear.
2) Used in water, the chain wears quickly.
3) When lubrication depletes in the sintered steel bushing, the chain wears abruptly.
4) When ambient temperature is over 80℃, lubrication seeps out quickly.
5) The sintered bushings are heat-treated, and allow standard chain selection.
6) Due to the use of sintered steel bushing, an application associated with shock load is not appropriate.

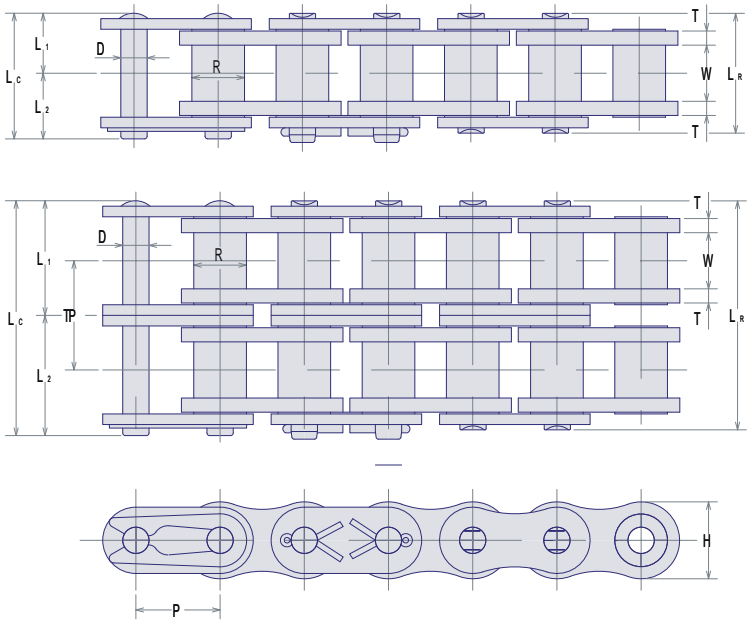
SL Standard Chain



SLR Standard Chain

RBL®
PREMIUM

Sintered Steel Bushing
SL ANSI Standard Roller Chains



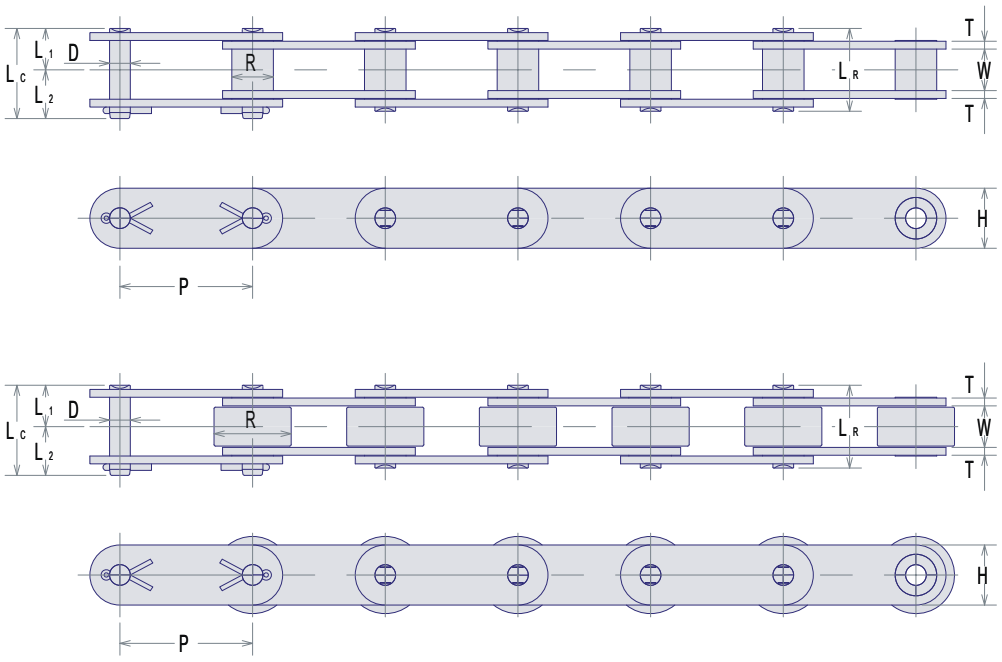
SINGLE STRANDS

Chain No.	Dimensions - inch											Average Ultimate Strength	Maximum Allowable Load	Average Chain Weight
	Pitch	Roller		Pin					Plate		Trans. Pitch			
		Width	Dia.	Dia.	Length				Height	Thick.				
	P	W	R	D	L_R	L_C	L_1	L_2	H	T	TP	Lbs	Lbs	Lb/ft
40-SL	1/2	.303	.312	.156	.654	.705	.327	378	.463	.030	–	2,900	700	.42
50-SL	5/8	.375	.400	.200	.804	.867	.402	.465	.577	.050	–	4,400	1,100	.69
60-SL	3/4	.500	.469	.234	1.008	1.059	.504	.555	.691	.060	–	6,400	1,500	.98
80-SL	1	.625	.625	.312	1.292	1.378	.646	.732	.921	.080	–	11,500	2,700	1.74
100-SL	1-1/4	.750	.750	.375	1.552	1.693	.776	.917	1.154	.094	–	18,500	4,000	2.54
120-SL	1-1/2	1.000	.875	.437	1.952	2.102	.976	1.126	1.425	.189	–	26,500	5,700	3.74
140-SL	1-3/4	1.000	1.000	.500	2.126	2.295	1.063	1.232	1.661	.220	–	36,400	7,700	5.09
160-SL	2	1.250	1.125	.562	2.536	2.705	1.268	1.437	1.902	.252	–	47,400	9,900	6.58

MULTIPLE STRANDS

Chain No.	Dimensions - inch											Average Ultimate Strength	Maximum Allowable Load	Average Chain Weight
	Pitch	Roller		Pin					Plate		Trans. Pitch			
		Width	Dia.	Dia.	Length				Height	Thick.				
	P	W	R	D	L_R	L_C	L_1	L_2	H	T	TP	Lbs	Lbs	Lb/ft
40-SL-2	1/2	.312	.312	.156	1.212	1.267	.606	.661	.463	.030	.567	5,700	1,100	.87
50-SL-2	5/8	.375	.400	.200	1.512	1.575	.756	.819	.577	.050	.712	8,800	1,900	1.41
60-SL-2	3/4	.500	.469	.234	1.890	1.957	.945	1.012	.691	.060	.898	12,800	2,600	2.01
80-SL-2	1	.625	.625	.312	2.426	2.540	1.213	1.327	.921	.080	1.153	22,900	4,500	3.48
100-SL-2	1-1/4	.750	.750	.375	2.960	3.102	1.480	1.622	1.154	.094	1.409	37,000	6,700	5.29
120-SL-2	1-1/2	1.000	.875	.437	3.740	3.890	1.870	2.020	1.425	.189	1.787	53,100	9,700	7.71
140-SL-2	1-3/4	1.000	1.000	.500	4.056	4.221	2.028	2.193	1.661	.220	1.925	72,800	13,100	9.85
160-SL-2	2	1.250	1.125	.562	4.834	5.000	2.417	2.583	1.902	.252	2.303	94,900	16,900	13.07

Sintered Steel Bushing
SL Double Pitch Roller Chains



CONVEYOR SERIES (STANDARD ROLLER TYPE)

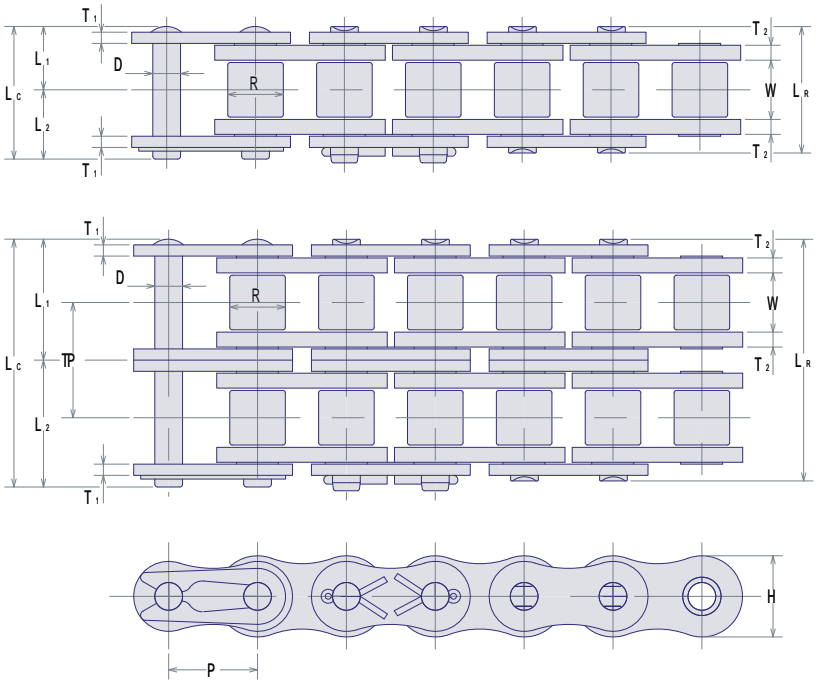
Chain No.	Dimensions - inch										Average Ultimate Strength	Maximum Allowable Load	Average Chain Weight
	Pitch	Roller		Pin					Plate				
		Width	Dia.	Dia.	Length				Height	Thick.			
	P	W	R	D	LR	LC	L1	L2	H	T	Lbs	Lbs	Lb/ft
C2040-SL	1	.312	.312	.156	.646	.701	.323	.378	.450	.060	2,900	700	.32
C2050-SL	1-1/4	.375	.400	.200	.800	.867	.400	.467	.591	.080	4,400	1,100	.55
C2060-SL	1-1/2	.500	.469	.234	1.130	1.222	.565	.657	.670	.125	6,400	1,500	.80
C2080-SL	2	.625	.625	.312	1.398	1.528	.699	.829	.890	.156	11,500	2,700	1.33

CONVEYOR SERIES (CARRIER ROLLER TYPE)

Chain No.	Dimensions - inch										Average 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	T	Lbs	Lbs	Lb/ft
C2042-SL	1	.312	.625	.156	.646	.701	.323	.378	.450	.060	2,900	700	.32
C2052-SL	1-1/4	.375	.750	.200	.800	.867	.400	.467	.591	.080	4,400	1,100	.55
C2062-SL	1-1/2	.500	.875	.234	1.130	1.222	.565	.657	.670	.125	6,400	1,500	.80
C2082-SL	2	.625	1.125	.312	1.398	1.528	.699	.829	.890	.156	11,500	2,700	1.33

RBL®
PREMIUM

Sintered Steel Bushing
SLR ANSI Standard Roller Chains (T.S)



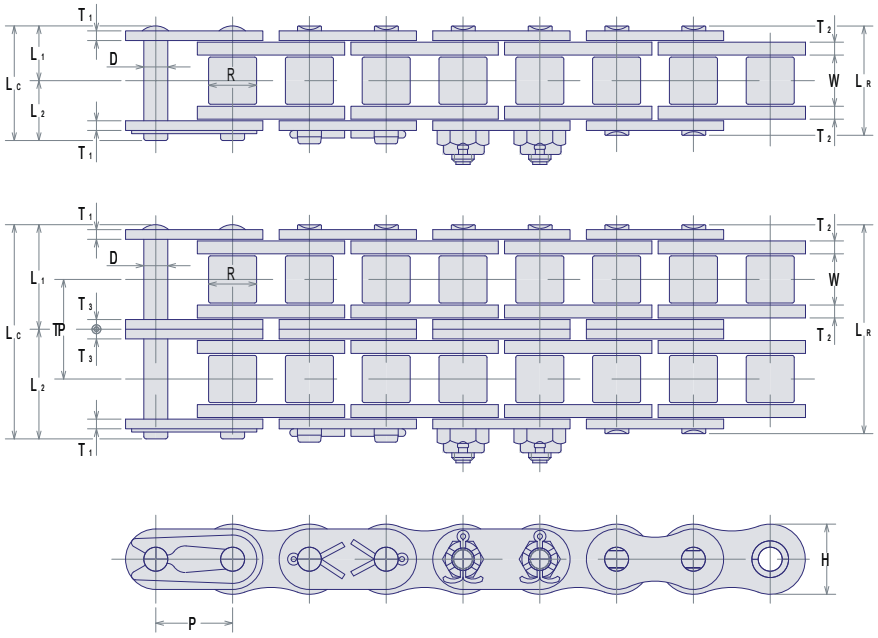
SINGLE STRANDS

Chain No.	Dimensions - inch												Average Ultimate Strength	Maximum Allowable Load	Average Chain Weight
	Pitch	Roller		Pin					Plate			Trans. Pitch			
		Width	Dia.	Dia.	Length				Height	Thickness					
	P	W	R	D	L_R	L_C	L_1	L_2	H	T_1	T_2	TP	Lbs	Lbs	Lb/ft
40-SLR	1/2	.303	.312	.156	.654	.705	.327	.378	.463	.030	.079	–	4,300	800	.47
50-SLR	5/8	.375	.400	.200	.804	.867	.402	.465	.577	.050	.094	–	7,200	1,400	.74
60-SLR	3/4	.500	.469	.234	1.008	1.059	.504	.555	.691	.060	.126	–	9,700	1,900	1.14
80-SLR	1	.625	.625	.312	1.292	1.378	.646	.732	.921	.080	.157	–	17,600	3,300	1.81
100-SLR	1-1/4	.750	.750	.375	1.552	1.693	.776	.917	1.154	.094	.189	–	26,500	5,100	2.88
120-SLR	1-1/2	1.000	.875	.437	1.952	2.102	.976	1.126	1.425	.189	.220	–	37,500	6,800	4.02

MLTIPLE STRANDS

Chain No.	Dimensions - inch												Average Ultimate Strength	Maximum Allowable Load	Average Chain Weight
	Pitch	Roller		Pin					Plate			Trans. Pitch			
		Width	Dia.	Dia.	Length				Height	Thickness					
	P	W	R	D	L_R	L_C	L_1	L_2	H	T_1	T_2	TP	Lbs	Lbs	Lb/ft
40-SLR-2	1/2	.303	.312	.156	1.308	1.363	.654	.709	.463	.030	.079	.614	8,000	1,400	.87
50-SLR-2	5/8	.375	.400	.200	1.598	1.661	.799	.862	.577	.050	.094	.756	14,300	2,400	1.34
60-SLR-2	3/4	.500	.469	.234	2.062	2.122	1.031	1.091	.691	.060	.126	.980	19,400	3,300	2.21
80-SLR-2	1	.625	.625	.312	2.566	2.696	1.283	1.413	.921	.080	.157	1.224	35,300	5,600	3.42
100-SLR-2	1-1/4	.750	.750	.375	3.094	3.244	1.547	1.697	1.154	.094	.189	1.480	53,100	8,600	5.49
120-SLR-2	1-1/2	1.000	.875	.437	3.906	4.063	1.953	2.110	1.425	.189	.220	1.890	75,100	11,600	7.84

Sintered Steel Bushing
SLR BS Standard Roller Chains



SINGLE STRANDS

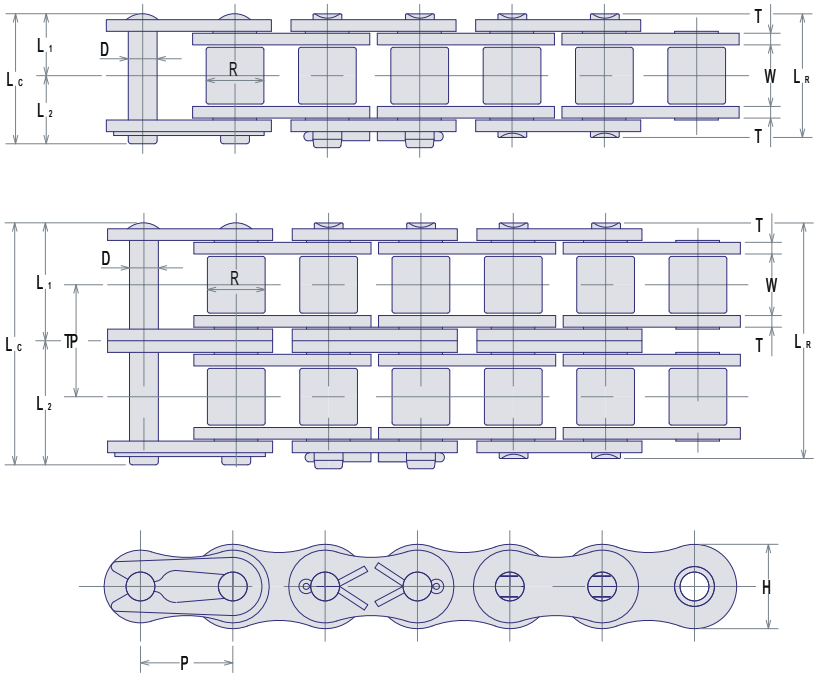
Chain No.	Dimensions - inch													Average Ultimate Strength	Maximum Allowable Load	Average Chain Weight
	Pitch	Roller		Pin					Plate				Trans. Pitch			
		Width	Dia.	Dia.	Length				Height	Thickness						
	P	W	R	D	LR	LC	L1	L2	H	T1	T2	T3	TP	Lbs	Lbs	Lb/ft
08B-SLR	1/2	.305	.335	.175	.662	.709	.331	.378	.465	.059	.059	–	–	3,800	700	.40
10B-SLR	5/8	.380	.400	.200	.748	.815	.374	.441	.571	.065	.065	–	–	5,500	1,000	.60
12B-SLR	3/4	.460	.475	.225	.866	.929	.433	.496	.685	.071	.071	–	–	7,300	1,400	.74
16B-SLR	1	.670	.625	.325	1.386	1.500	.693	.807	.827	.122	.154	–	–	16,800	2,700	1.74
20B-SLR	1-1/4	.770	.750	.400	1.582	1.732	.791	.941	1.154	.138	.185	–	–	28,800	4,300	2.55
24B-SLR	1-1/2	1.000	1.000	.576	2.102	2.287	1.051	1.236	1.382	.185	.232	–	–	44,000	5,700	4.89
28B-SLR	1-3/4	1.220	1.100	.625	2.566	2.775	1.283	1.492	1.457	.248	.291	–	–	48,500	7,800	6.23
32B-SLR	2	1.220	1.150	.701	2.528	2.740	1.264	1.476	1.661	.248	.272	–	–	61,700	9,900	6.63

MULTIPLE STRANDS

Chain No.	Dimensions - inch													Average Ultimate Strength	Maximum Allowable Load	Average Chain Weight
	Pitch	Roller		Pin					Plate				Trans. Pitch			
		Width	Dia.	Dia.	Length				Height	Thickness						
	P	W	R	D	LR	LC	L1	L2	H	T1	T2	T3	TP	Lbs	Lbs	Lb/ft
08B-SLR-2	1/2	.305	.335	.175	1.204	1.256	.602	.654	.465	.059	.059	.049	.548	7,600	1,100	.87
10B-SLR-2	5/8	.380	.400	.200	1.402	1.469	.701	.768	.571	.065	.065	.065	.653	11,100	1,700	1.21
12B-SLR-2	3/4	.460	.475	.225	1.638	1.697	.819	.878	.685	.071	.071	.071	.766	14,600	2,400	1.94
16B-SLR-2	1	.670	.625	.325	2.646	2.760	1.323	1.437	.827	.122	.154	.122	1.255	33,500	4,700	3.42
20B-SLR-2	1-1/4	.770	.750	.400	3.024	3.173	1.512	1.661	1.154	.138	.185	.138	1.435	57,700	7,300	4.89
24B-SLR-2	1-1/2	1.000	1.000	.576	4.008	4.193	2.004	2.189	1.382	.185	.232	.185	1.904	87,900	9,700	9.72
28B-SLR-2	1-3/4	1.220	1.100	.625	4.914	5.118	2.457	2.661	1.457	.248	.291	.185	2.345	97,000	13,300	12.40
32B-SLR-2	2	1.220	1.150	.701	4.866	5.087	2.433	2.654	1.661	.248	.272	.185	2.305	123,500	16,800	13.27

RBL®
PREMIUM

Sintered Steel Bushing
SLR ANSI Standard Roller Chains (C.S)



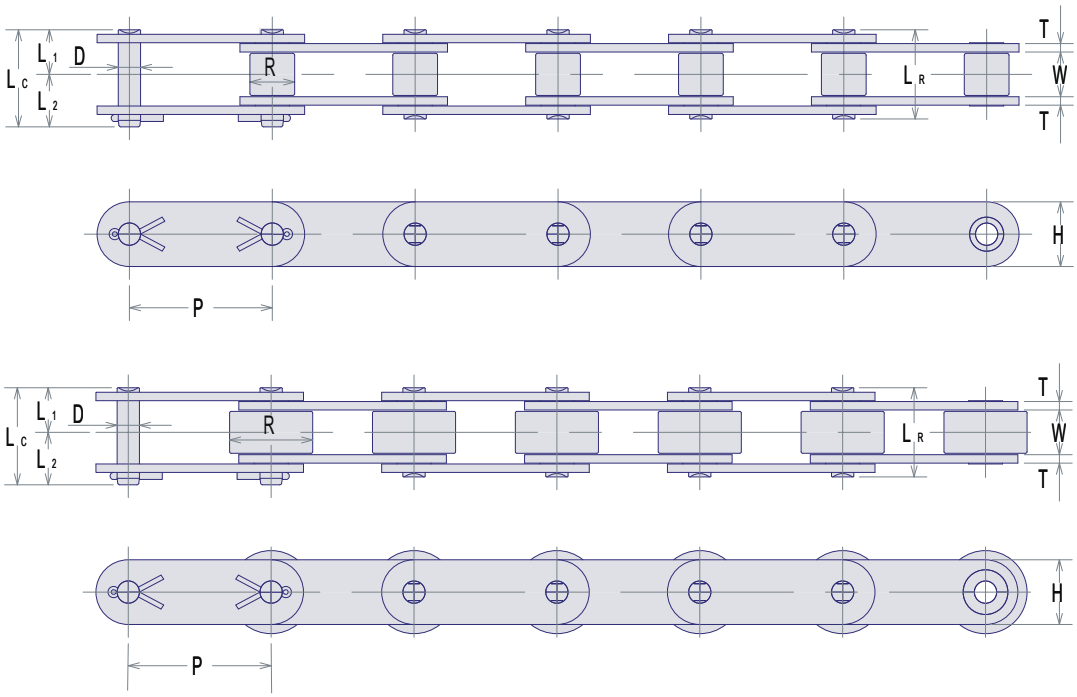
SINGLE STRANDS

Chain No.	Dimensions - inch											Average Ultimate Strength	Maximum Allowable Load	Average Chain Weight
	Pitch	Roller		Pin					Plate		Trans. Pitch			
		Width	Dia.	Dia.	Length				Height	Thick.				
	P	W	R	D	L_R	L_C	L_1	L_2	H	T	TP	Lbs	Lbs	Lb/ft
40-SLR	1/2	.303	.312	.156	.654	.713	.327	.386	.463	.059	–	3,500	800	.40
50-SLR	5/8	.375	.400	.200	.812	.878	.406	.472	.577	.079	–	5,700	1,400	.67
60-SLR	3/4	.500	.469	.234	1.024	1.083	.512	.571	.691	.094	–	8,400	1,900	1.01
80-SLR	1	.625	.625	.312	1.300	1.414	.650	.764	.921	.126	–	14,300	3,300	1.68
100-SLR	1-1/4	.750	.750	.375	1.566	1.696	.783	.913	1.154	.157	–	22,500	5,100	2.61
120-SLR	1-1/2	1.000	.875	.437	1.960	2.094	.980	1.114	1.425	.189	–	35,300	6,800	3.89

MULTIPLE STRANDS

Chain No.	Dimensions - inch											Average Ultimate Strength	Maximum Allowable Load	Average Chain Weight
	Pitch	Roller		Pin					Plate		Trans. Pitch			
		Width	Dia.	Dia.	Length				Height	Thick.				
	P	W	R	D	L_R	L_C	L_1	L_2	H	T	TP	Lbs	Lbs	Lb/ft
40-SLR-2	1/2	.303	.312	.156	1.228	1.287	.614	.673	.463	.059	.567	7,100	1,400	.74
50-SLR-2	5/8	.375	.400	.200	1.544	1.603	.772	.831	.577	.079	.713	11,500	2,400	1.27
60-SLR-2	3/4	.500	.469	.234	1.944	2.003	.972	1.031	.691	.094	.898	12,300	3,400	1.88
80-SLR-2	1	.625	.625	.312	2.448	2.578	1.224	1.354	.921	.126	1.154	28,600	5,800	3.28
100-SLR-2	1-1/4	.750	.750	.375	2.968	3.114	1.484	1.630	1.154	.157	1.409	45,000	8,800	5.09
120-SLR-2	1-1/2	1.000	.875	.437	3.756	3.921	1.878	2.043	1.425	.189	1.787	70,600	12,000	7.44

Sintered Steel Bushing
SLR Double Pitch Roller Chains



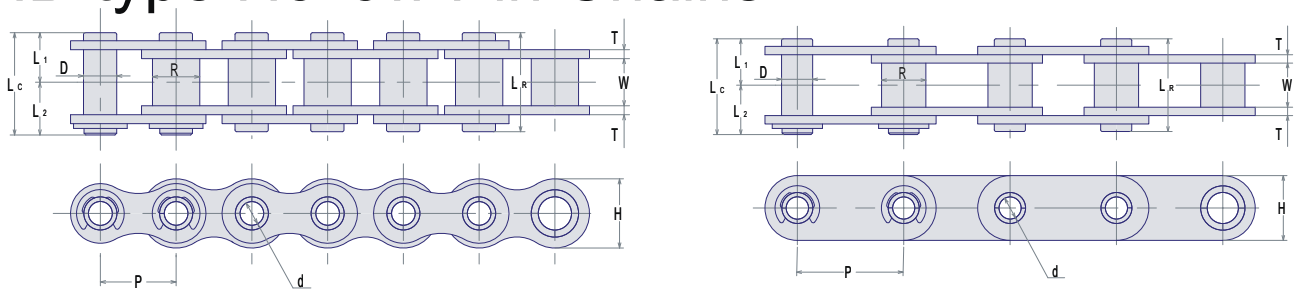
CONVEYOR SERIES (STANDARD ROLLER TYPE)

Chain No.	Dimensions - inch										Average 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	T	Lbs	Lbs	Lb/ft
C2040-SLR	1	.312	.312	.156	.654	.729	.327	.402	.450	.060	3,500	600	.34
C2050-SLR	1-1/4	.375	.400	.200	.812	.886	.406	.480	.591	.080	5,700	1,000	.54
C2060H-SLR	1-1/2	.500	.469	.234	1.150	1.240	.575	.665	.670	.125	8,400	1,400	.94
C2080H-SLR	2	.625	.625	.312	1.410	1.536	.705	.831	.890	.156	14,300	2,400	1.61
C2100H-SLR	2-1/2	.750	.750	.375	1.686	1.835	.843	.992	1.126	.187	22,500	3,800	2.35

CONVEYOR SERIES (CARRIER ROLLER TYPE)

Chain No.	Dimensions - inch										Average 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	T	Lbs	Lbs	Lb/ft
C2042-SLR	1	.312	.312	.156	.654	.729	.327	.402	.450	.060	3,500	600	.67
C2052-SLR	1-1/4	.375	.400	.200	.812	.886	.406	.480	.591	.080	5,700	1,000	1.08
C2062H-SLR	1-1/2	.500	.469	.234	1.150	1.240	.575	.665	.670	.125	8,400	1,400	1.88
C2082H-SLR	2	.625	.625	.312	1.410	1.536	.705	.831	.890	.156	14,300	2,400	3.22
C2102H-SLR	2-1/2	.750	.750	.375	1.686	1.835	.843	.992	1.126	.187	22,500	3,800	4.70

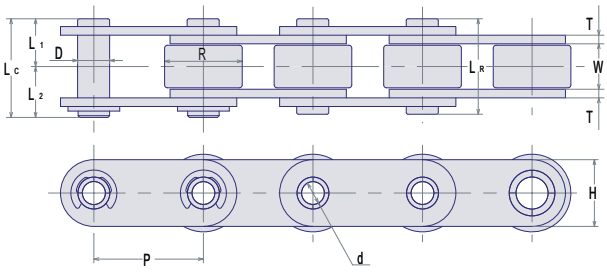
Sintered Steel Bushing
HB-type Hollow Pin Chains



HP-SL DOUBLE PITCH

Chain No.	Dimensions - inch											Average Ultimate Strength	Maximum Allowable Load	Average Chain Weight
	Pitch	Roller		Pin						Plate				
		Width	Dia.	Outside	Inside	Length				Height	Thick.			
	P	W	R	D	d	L_R	L_C	L_1	L_2	H	T	Lbs	Lbs	Lb/ft
HB40-SL	1/2	.303	.312	.222	.158	.662	.693	.331	.362	.472	.060	2,900	400	.34
HB50-SL	5/8	.375	.400	.280	.202	.796	.839	.398	.441	.591	.080	4,400	700	.54
HB60-SL	3/4	.500	.469	.327	.238	1.024	1.071	.512	.559	.718	.094	6,400	900	.74
HB80-SL	1	.625	.625	.446	.318	1.276	1.351	.638	.713	.949	.125	11,500	1,700	1.34
HB2040-SL	1	.312	.312	.222	.158	.662	.693	.331	.362	.472	.060	2,900	400	.46
HB2050-SL	1-1/4	.375	.400	.280	.202	.796	.839	.398	.441	.591	.080	4,400	700	.76
HB2060-SL	1-1/2	.500	.469	.327	.238	1.024	1.071	.512	.559	.718	.094	6,400	900	1.12
HB2080-SL	2	.625	.625	.446	.318	1.276	1.351	.638	.713	.949	.125	11,500	1,700	1.98

Sintered Steel Bushing
HR-type Hollow Pin Chains

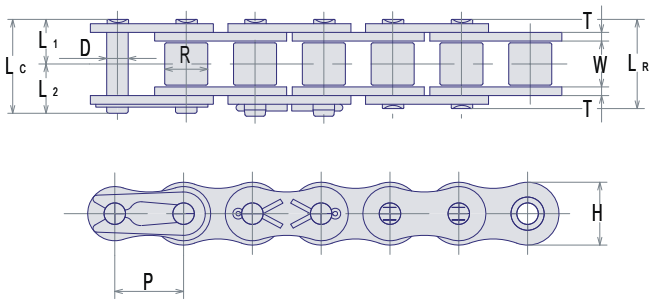


HR-TYPE HOLLOW PIN CHAINS

Chain No.	Dimensions - inch											Average Ultimate Strength	Maximum Allowable Load	Average Chain Weight
	Pitch	Roller		Pin						Plate				
		Width	Dia.	Outside	Inside	Length				Height	Thick.			
	P	W	R	D	d	L_R	L_C	L_1	L_2	H	T	Lbs	Lbs	Lb/ft
HR2042-SL	1	.312	.625	.222	.158	.654	.689	.327	.362	.472	.060	3,000	400	.81
HR2052-SL	1-1/4	.375	.750	.280	.202	.808	.857	.404	.453	.591	.080	4,000	700	1.25
HR2062-SL	1-1/2	.500	.875	.327	.238	1.016	1.063	.508	.555	.670	.094	7,500	950	1.79
HR2082-SL	2	.625	1.125	.446	.318	1.276	1.396	.638	.758	.890	.125	11,400	1,700	3.17

Motorcycle Roller Chains

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



Standard type

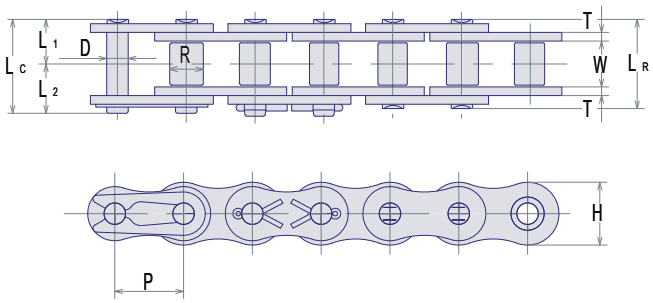
Chain No.	Dimensions - inch										Minimum Ultimate Strength	Maximum Allowable Load	Average Chain Weight
	Pitch	Roller		Pin					Plate				
		Width	Dia.	Dia.	Length				Height	Thick.			
	P	W	R	D	LR	LC	L1	L2	H	T	Lbs	Lbs	Lbs/ft
410	1/2	.134	.305	.143	.366	.421	.183	.238	.374	.039	2,200	-	.20
415	1/2	.189	.305	.156	.504	.563	.252	.311	.461	.059	4,100	800	.35
420	1/2	.250	.305	.156	.567	.626	.283	.343	.461	.059	4,100	800	.35
428	1/2	.313	.335	.178	.634	.693	.317	.376	.461	.059	4,200	900	.42
428H	1/2	.313	.335	.178	.713	.772	.356	.415	.461	.079	5,100	1,000	.51
520	5/8	.250	.400	.200	.667	.724	.333	.391	.575	.079	6,700	1,400	.59
520H	5/8	.250	.400	.200	.730	.787	.394	.423	.575	.094	8,200	1,600	.68
530	5/8	.375	.400	.200	.799	.856	.400	.457	.575	.079	6,700	1,400	.66
530H	5/8	.375	.400	.200	.864	.921	.432	.490	.575	.094	8,200	1,600	.77

The above sizes are available also sealed with O-ring to improve wear resistance

PREMIUM

Bushed Chains

The RBL bushed chain is the standard roller chain without rollers. Thus, the bushed chain is reduced in weight, while keeping the strength unchanged, for suspending purposes.



Standard type

Chain No.	Dimensions - inch										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	T	Lbs	Lbs	Lbs/ft
55	5/8	.375	.278	.200	.799	.856	.400	.456	.575	.079	6,700	1,400	.56
65	3/4	.500	.330	.235	.996	1.055	.498	.557	.689	.094	9,300	2,000	.83
85	1	.625	.443	.313	1.266	1.388	.633	.755	.906	.126	16,300	3,300	1.39
105	1-1/4	.750	.530	.376	1.583	1.699	.791	.907	1.138	.157	25,400	5,100	2.17
125	1-1/2	1.000	.624	.437	1.984	2.118	.992	1.126	1.378	.189	35,300	6,800	3.18

Leaf Chains

RBL Leaf chains are well suited for any application requiring flexible, high strength linkage for reciprocating motion or lift at relatively low speed. RBL Leaf chains are low cost and long life. They are widely used for lift trucks, masts, construction machines, mining machines, counterweight/ counterbalance, and other lifting applications.

CONSTRUCTION AND LACING COMBINATIONS

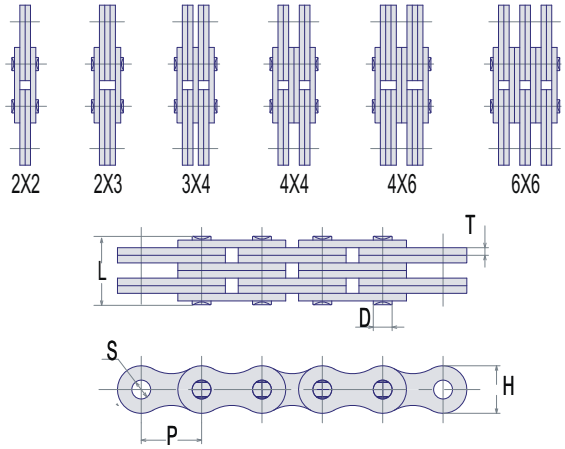
Built of interlaced plates held together by riveted pins. The chain nomenclature indicates the lacing combinations.

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.



Chain No.	Lacing	Dimensions - inch						Average Ultimate Strength	Maximum Allowable Load	Average Weight
		Pitch	Pin		Plate		Hole Dia			
			Dia.	Length	Height	Thickness				
		P	D	L	H	T	S	Lbs	Lbs	Lb/ft
AL422	2×2	1/2	.156	.33	.404	.060	.159	4,200	400	.24
AL444	4×4			.58				8,400	800	.47
AL466	6×6			.83				12,600	900	.70
AL522	2×2	5/8	.200	.43	.500	.080	.203	6,800	700	.39
AL544	4×4			.76				13,700	1,200	.78
AL566	6×6			1.10				21,200	1,400	1.16
AL622	2×2	3/4	.234	.50	.600	.094	.238	9,700	1,000	.54
AL644	4×4			.89				19,400	1,700	1.13
AL666	6×6			1.28				29,000	2,000	1.65
AL822	2×2	1	.312	.67	.800	.125	.315	16,300	1,700	.95
AL844	4×4			1.16				32,600	3,000	1.93
AL866	6×6			1.69				49,000	3,500	2.83
AL1022	2×2	1-1/4	.375	.80	1.000	.156	.378	24,300	2,600	1.65
AL1044	4×4			1.45				48,600	4,600	3.22
AL1066	6×6			2.11				72,800	5,400	4.85
AL1222	2×2	1-1/2	.437	.95	1.193	.187	.442	34,200	3,700	2.24
AL1244	4×4			1.71				68,300	6,500	4.41
AL1266	6×6			2.50				102,500	7,700	6.58
AL1422	2×2	1-3/4	.500	1.12	1.390	.218	.505	46,100	5,000	3.34
AL1444	4×4			2.03				92,200	8,700	6.41
AL1466	6×6			2.93				138,300	10,400	9.47
AL1622	2×2	2	.562	1.27	1.587	.250	.570	60,500	6,400	4.25
AL1644	4×4			2.29				121,200	11,200	8.46
AL1666	6×6			3.33				181,900	13,200	12.64

Chain No.	Lacing	Dimensions - inch						Average Ultimate Strength	Maximum Allowable Load	Average Weight
		Pitch	Pin		Plate		Hole Dia			
			Dia.	Length	Height	Thickness				
		P	D	L	H	T	S	Lbs	Lbs	Lb/ft
BL422	2×2	1/2	.200	.413	.457	.080	.203	6,200	1,000	.43
BL423	2×3			.492				6,200	1,000	.53
BL434	3×4			.661				9,100	1,200	.72
BL444	4×4			.748				12,200	1,300	.82
BL446	4×6			.906				12,200	1,300	1.06
BL466	6×6			1.083				18,500	2,200	1.27
BL522	2×2	5/8	.234	.488	.571	.094	.238	9,600	1,500	.68
BL523	2×3			.591				9,600	1,500	.80
BL534	3×4			.787				14,400	1,900	1.08
BL544	4×4			.874				19,200	2,100	1.21
BL546	4×6			1.087				19,200	2,100	1.51
BL566	6×6			1.276				28,600	3,500	1.78
BL622	2×2	3/4	.312	.654	.708	.125	.315	15,900	2,200	1.03
BL623	2×3			.768				15,900	2,200	1.27
BL634	3×4			1.031				23,800	2,800	1.80
BL644	4×4			1.150				31,700	3,100	2.04
BL646	4×6			1.437				31,700	3,100	2.78
BL666	6×6			1.693				47,700	5,500	3.07
BL822	2×2	1	.375	.772	.948	.156	.378	25,600	3,800	1.72
BL823	2×3			.937				25,600	3,800	2.12
BL834	3×4			1.280				38,700	4,600	2.93
BL844	4×4			1.425				51,300	5,300	3.32
BL846	4×6			1.772				51,300	5,300	4.17
BL866	6×6			2.106				76,900	9,000	4.98
BL1022	2×2	1-1/4	.437	.945	1.154	.187	.441	35,300	5,800	2.50
BL1023	2×3			1.126				35,300	5,800	3.11
BL1034	3×4			1.524				55,100	7,100	4.36
BL1044	4×4			1.720				70,600	8,200	4.96
BL1046	4×6			2.102				70,600	8,200	6.17
BL1066	6×6			2.496				105,900	13,200	7.42
BL1222	2×2	1-1/2	.500	1.094	1.382	.220	.505	46,500	8,300	3.20
BL1223	2×3			1.346				46,500	8,300	4.33
BL1234	3×4			1.791				74,600	9,900	6.06
BL1244	4×4			2.016				93,100	11,400	6.88
BL1246	4×6			2.465				93,100	11,400	7.95
BL1266	6×6			2.898				139,600	16,400	9.65
BL1422	2×2	1-3/4	.562	1.252	1.610	.250	.567	60,700	11,000	5.27
BL1423	2×3			1.528				60,700	11,000	5.96
BL1434	3×4			2.035				91,000	13,200	7.78
BL1444	4×4			2.299				121,200	15,200	8.62
BL1446	4×6			2.803				121,200	15,200	11.97
BL1466	6×6			3.339				182,100	21,400	14.96
BL1622	2×2	2	.687	1.409	1.839	.281	.694	88,100	13,200	6.55
BL1623	2×3			1.720				88,100	13,200	8.09
BL1634	3×4			2.319				138,900	15,900	11.29
BL1644	4×4			2.594				176,500	18,100	12.63
BL1646	4×6			3.157				176,500	18,100	16.04
BL1666	6×6			3.787				264,400	30,900	19.12

SELECTION OF LEAF CHAIN

CONDITION OF USE

Chain speed [m/min.]
Number of working cycles in a day Max. Chain load [kN]

CALCULATION OF TENSILE STRENGTH

$P_D = T \times f_s \times f_F$

P_D[kN]Calculated tensile strength

T[kN]= Max. chain load

DETERMINATION OF CHAIN SIZE

$P_D \leqq P_B$

P_B[kN]Tensile strength of chain chosen

DESIGN END CLEVIS

fs: SERVICE FACTOR

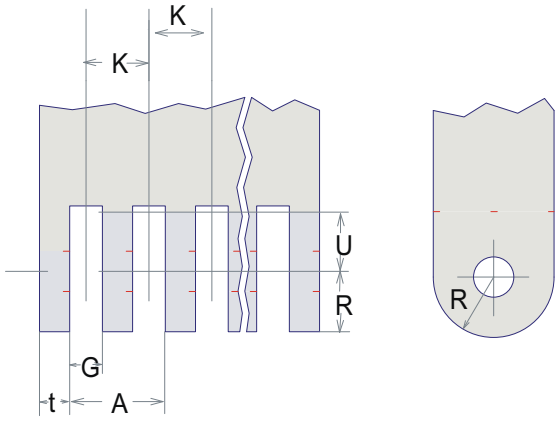
Type of load	Example of use	fs	Suitable Chain size
Smooth load	Smooth starts & stops and slow and gentle load variations.	1.0	AL series LL series
Smooth shocks	Frequent starts & stops load variations and reverse motions.	1.3	AL series LL series BL series
Heavy shocks	Sudden starts & stops, load variations and reverse motions.	1.5	BL series

fF: SAFETY FACTOR

Type of load	No. of reciprocating max./day	fF	Chain speed
AL	10 100	9 12	max. 30m/min
BL	1000	9	

DIMENSION OF ANCHOR CLEVIS

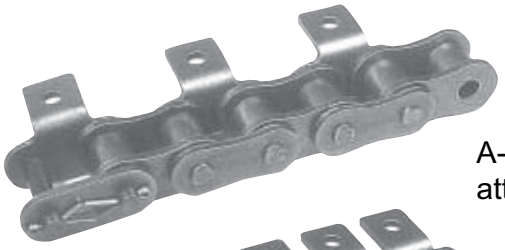
Lacing	
	G=2(Tmax.+ 4CL + 0.008P)
2×2	G=3(Tmax.+ 5CL + 0.008P)
2×3	A=K+G
3×4	K=3(Tmax.+ CL)
	G=K-(Tmax.+ 0.004P)
4×4	A=K+G
6×6	K=4(Tmax.+ CL)
	G=K-2(Tmax.+ 0.004P)
4×6	A=K+G
	K=5(Tmax.+ CL)
	G=K-2(Tmax.+ 0.004P)
8×8	A=K+G
	K=4(Tmax.+ CL)
	G=K-2(Tmax.- 0.004P)



GENERAL CLEVIS PROPORTIONS

P= chain pitch
Tmax.= maximum link plate thickness
R= end of radius =0.5P
t = minimum thickness of outside flange= Tmax
U= minimum depth of slot for clearance= 0.5P
CL= clearance
= 0.038 for 15.875 pitch and smaller
0.051 for 19.05 pitch or larger

STANDARD ATTACHMENT



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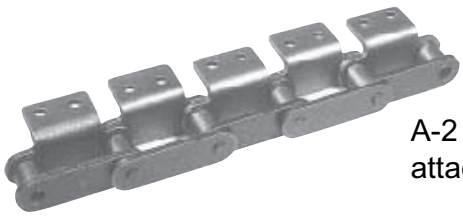

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attachment

K-1 (B-2)
attachment

K-2 (B2-2)
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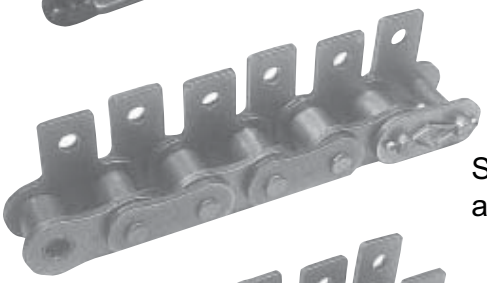

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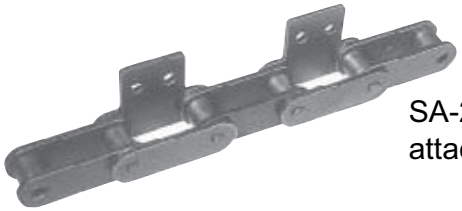

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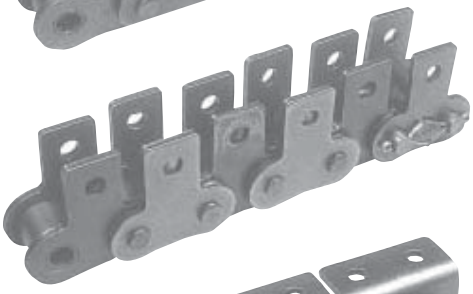

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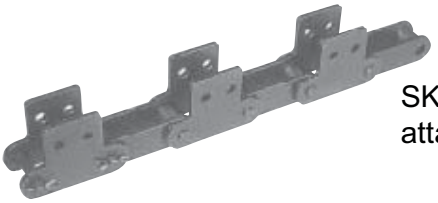

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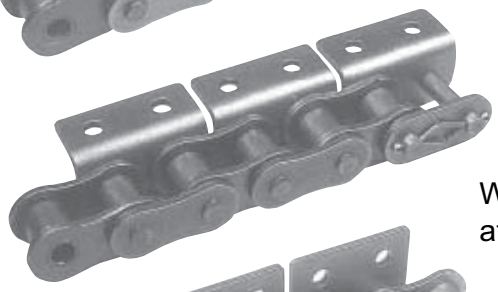

WA-2
attachment

GK-1
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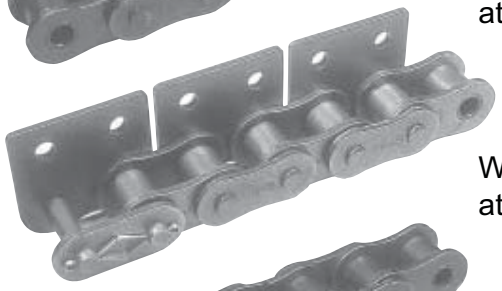

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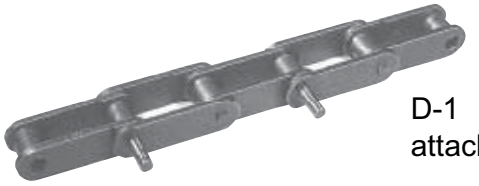

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attachment

D-1
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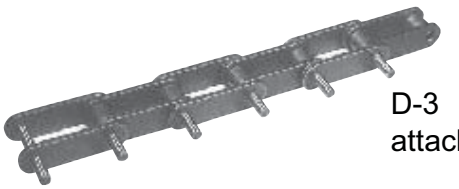
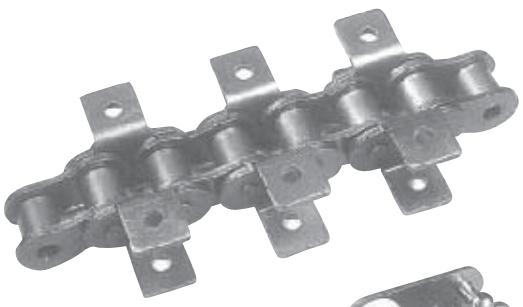
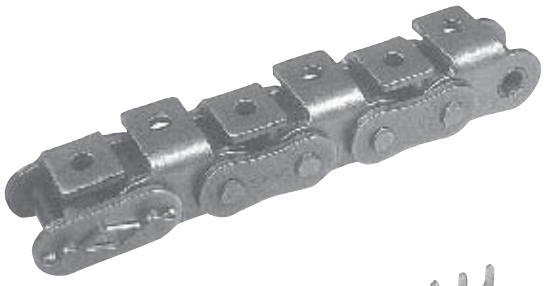
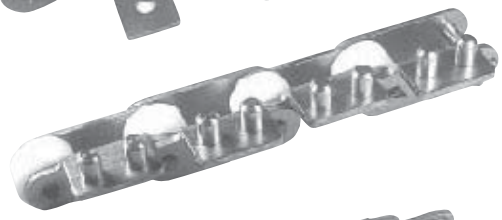
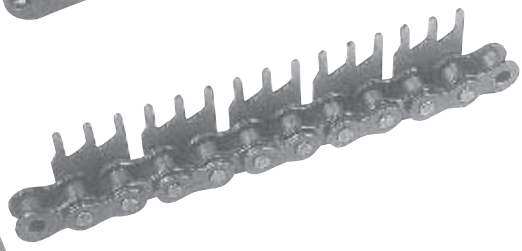
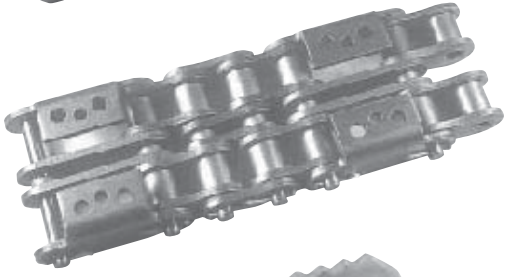
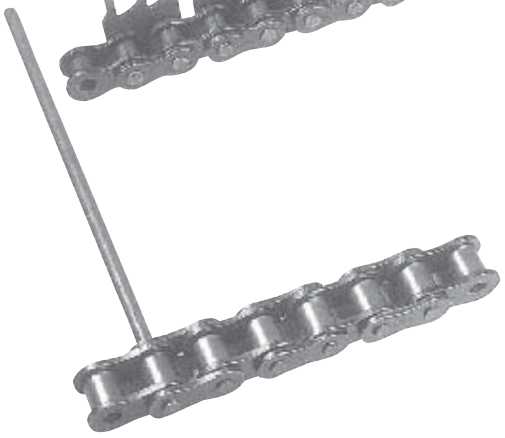
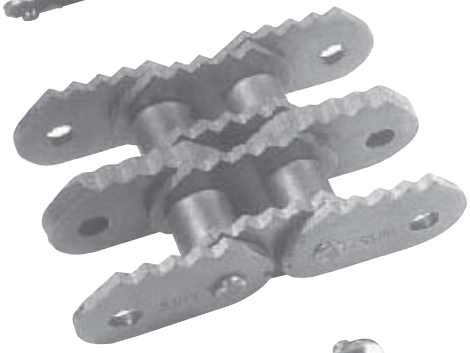
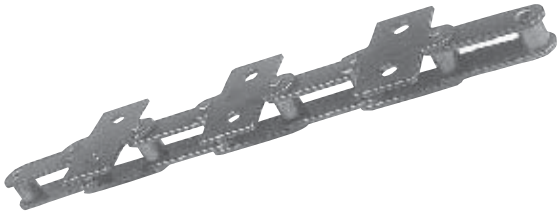
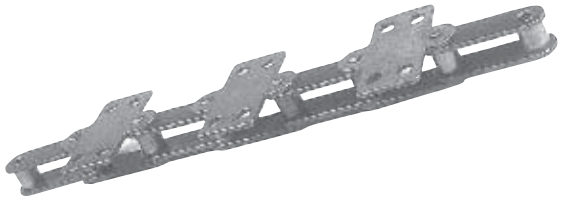
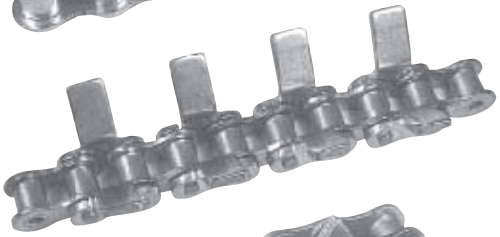
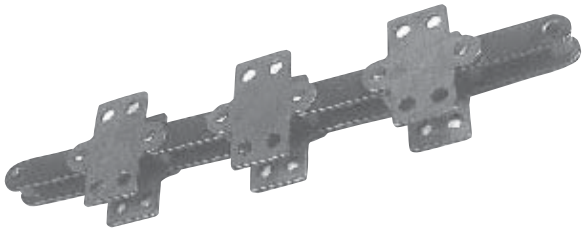


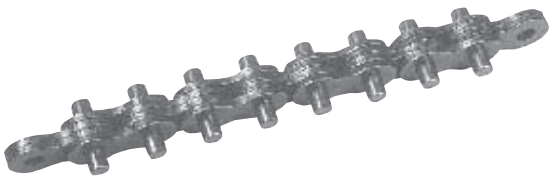
D-3
attachment

D-3
attachment

SPECIAL ATTACHMENT

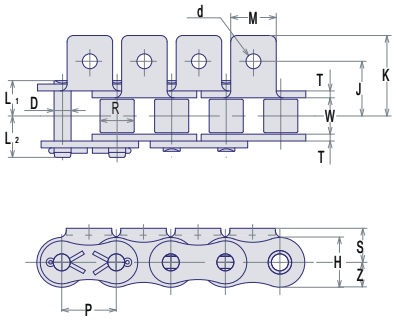






RBL®
PREMIUM

ANSI Standard Attachment Chains

A-1 attachment



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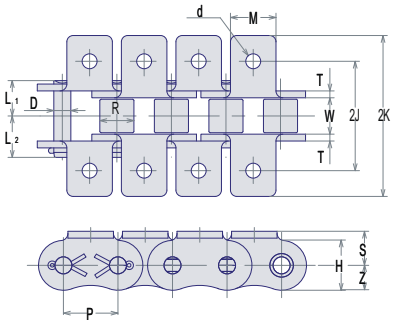

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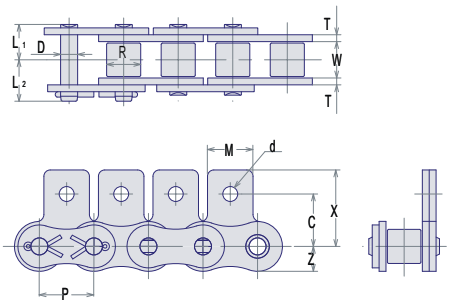

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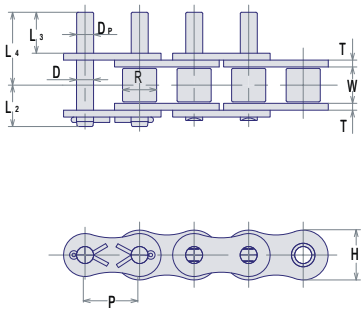

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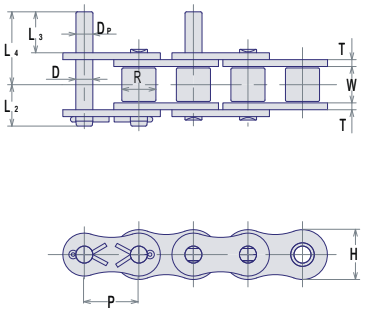

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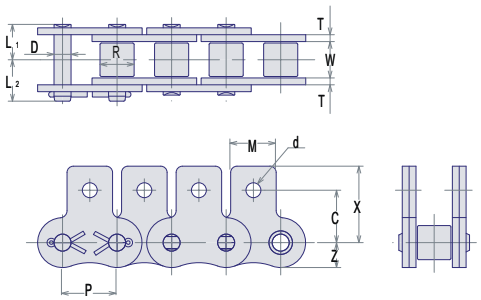

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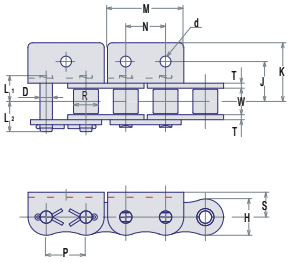

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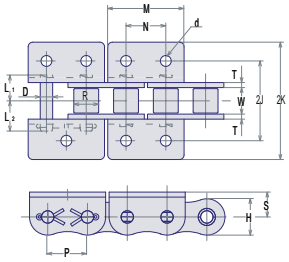

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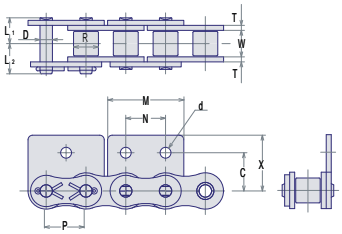

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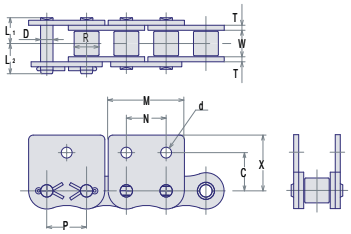


BASIC SPECS FOR ATTACHMENTS

Chain No. (ANSI)	Dimensions - inch								Average Ultimate Strength	Average Chain Weight
	Pitch	Roller		Pin			Plate			
		Width	Dia.	Dia.	Length		Height	Thick.		
	P	W	R	D	L_1	L_2	H	T	Lbs	Lb/ft
35	1/4	.188	*.200	.141	.236	.273	.354	.050	2,400	.23
40	1/2	.312	.312	.156	.327	.378	.463	.060	4,300	.40
50	5/8	.375	.400	.200	.402	.465	.577	.080	7,200	.66
60	3/4	.500	.469	.234	.504	.555	.691	.094	9,700	.98
80	1	.625	.625	.312	.646	.732	.921	.125	17,600	1.69
100	1-1/4	.750	.750	.375	.776	.917	1.154	.156	26,500	2.62
120	1-1/2	1.000	.875	.437	.976	1.126	1.382	.187	37,500	3.86
140	1-3/4	1.000	1.000	.500	1.062	1.232	1.610	.220	48,600	4.96
160	2	1.250	1.125	.562	1.268	1.437	1.839	.252	61,800	6.56

A-1, K-1 ATTACHMENT

Chain No.	Common Dimensions (inch)				Original Dimensions (inch)				Additional Weight	
	M	d	S	Z	A-1		K-1		A-1	K-1
					J	K	2J	2K	g/pc	
35	.311	.134	.252	.177	.375	.563	.750	1.126	0.9	1.8
40	.374	.142	.311	.228	.500	.681	1.000	1.362	1.2	2.4
50	.500	.205	.406	.287	.625	.917	1.250	1.835	4	8
60	.626	.205	.469	.343	.750	1.106	1.500	2.213	6.5	13
80	.752	.268	.626	.461	1.000	1.413	2.000	2.827	13	26
100	1.000	.346	.780	.575	1.250	1.744	2.500	3.488	27	54
120	1.126	.413	.906	.689	1.500	2.154	3.000	4.307	47	94
140	1.366	.472	1.126	.803	1.750	2.488	3.500	4.976	65	130
160	1.500	.551	1.252	.917	2.000	2.831	4.000	5.661	88	176

SA-1,SK-1 ATTACHMENT

Chain No.	Common Dimensions (inch)					Additional Weight	
	M	d	C	X	Z	SA-1	SK-1
						g/pc	
35	.311	.134	.375	.571	.177	0.9	1.8
40	.374	.142	.500	.728	.228	1.2	2.4
50	.500	.205	.625	.906	.287	4	8
60	.626	.205	.750	1.051	.343	6.5	13
80	.752	.268	1.000	1.358	.461	13	26
100	1.000	.346	1.250	1.693	.575	27	54
120	1.126	.413	1.500	2.024	.689	47	94
140	1.366	.472	1.750	2.484	.803	65	130
160	1.500	.551	2.000	2.736	.917	88	176

D-1,D-3 ATTACHMENT

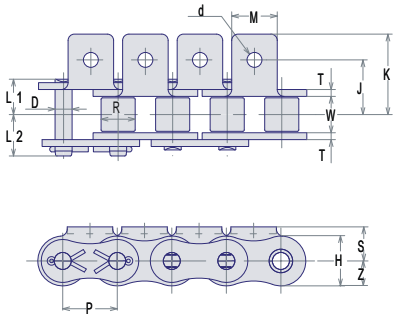
Chain No.	Common Dimensions (inch)				Additional Weight	
	Dp	L3	L4	H	D-1	D-3
					g/pc	
35	.141	.374	.579	.354	0.8	1.6
40	.156	.374	.661	.461	1	2
50	.200	.469	.827	.575	2	4
60	.234	.563	1.020	.689	3	6
80	.312	.752	1.335	.921	7	14
100	.375	.937	1.650	1.154	12	24
120	.437	1.126	2.024	1.382	20	40
140	.500	1.311	2.264	1.610	30	60
160	.562	1.500	2.654	1.839	45	90

WA-1,WA-2,WK-1,WK-2,WSA-1,WSA-2,WSK-1,WSK-2 ATTACHMENT

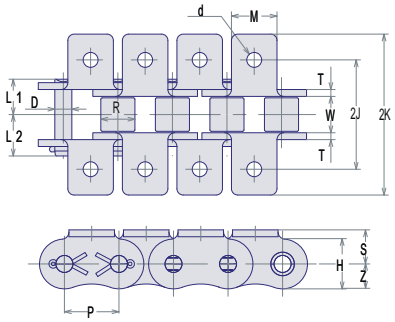
Chain No.	Common Dimensions (inch)				Original Dimensions (inch)					
	M	d	N	S	WA		WK		WSA, WSK	
					J	K	2J	2K	C	X
40	.957	.142	.500	.311	.500	.681	1.000	1.362	.500	.681
50	1.197	.205	.625	.406	.625	.917	1.250	1.835	.625	.909
60	1.457	.205	.750	.469	.750	1.106	1.500	2.213	.720	1.067
80	1.913	.268	1.000	.626	1.000	1.413	2.000	2.827	.969	1.358
100	2.402	.346	1.250	.780	1.252	1.744	2.500	3.488	1.252	1.693

BS Standard Attachment Chains

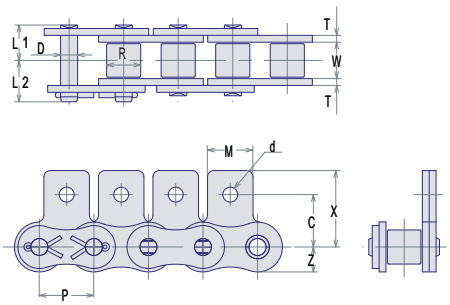
A-1 attachment



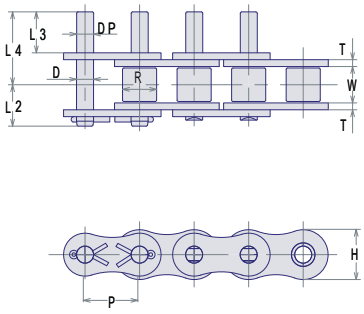
K-1 attachment



SA-1 attachment



D-3 attachment



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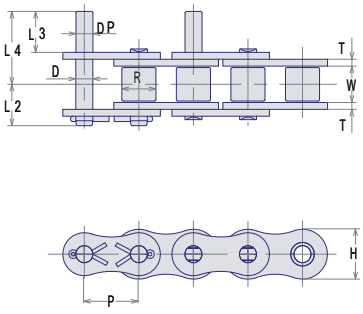
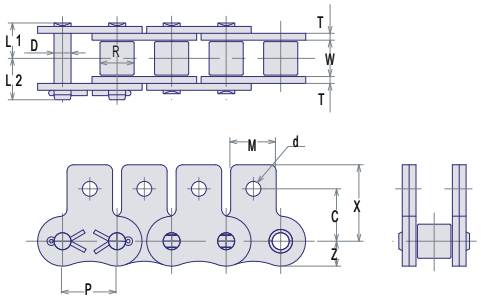
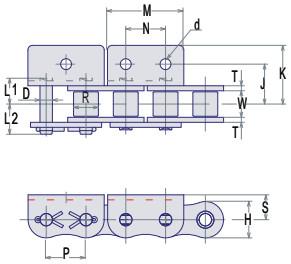


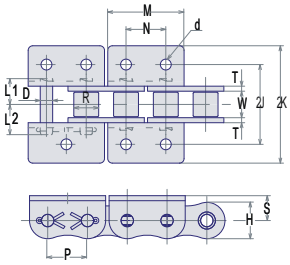
SK-1 attachment



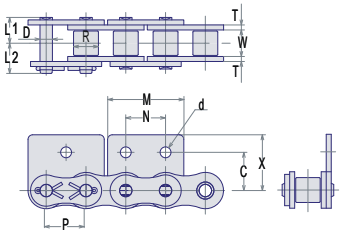
WA attachment



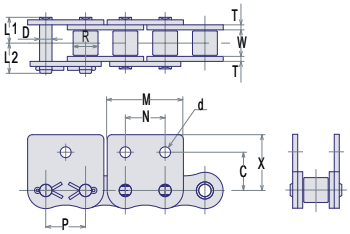
WK attachment



WSA attachment



WSK attachment



Chain No.	Pitch	Dimensions - inch											Minimum Ultimate Strength	Maximum Allowable Load	Average Chain Weight
		Roller		Pin					Plate			Trans. Pitch			
		Width	Dia.	Dia.	Length				Height	Thickness					
(BS)	P	W	R	D	L_R	L_C	L_1	L_2	H	T_1	T_2	TP	Lbs	Lbs	Lb/ft
08B	1/2	.305	.335	.175	.658	.692	.329	.363	.457	.060	.060	.548	4,300	706	.41
10B	5/8	.380	.400	.200	.748	.796	.374	.422	.571	.065	.065	.653	6,000	1,100	.60
12B	3/4	.460	.475	.225	.828	.905	.414	.491	.626	.070	.070	.766	7,200	1,580	.77
16B	1	.670	.625	.325	1.382	1.496	.691	.805	.792	.122	.154	1.255	17,500	3,680	1.74
20B	1-1/4	.770	.750	.400	1.582	1.713	.791	.922	1.039	.138	.177	1.435	24,400	5,700	2.53

A-1, K-1 ATTACHMENT

Chain No.	Common Dimensions (inch)			Original Dimensions (inch)				Additional Weight	
	M	d	S	A-1		K-1		A-1	K-1
				J	K	2J	2K	g/pc	
08B	.433	.169	.335	.543	.823	1.087	1.646	2.0	4.0
10B	.551	.209	.413	.622	.953	1.244	1.906	3.2	6.4
12B	.709	.252	.480	.693	1.075	1.386	2.150	4.5	9.0
16B	.945	.331	.669	1.142	1.650	2.283	3.299	20	40
20B	1.181	.413	.827	1.358	1.941	2.717	3.882	25	50

SA-1,SK-1 ATTACHMENT

Chain No.	Common Dimensions (inch)					Additional Weight	
	M	d	C	X	Z	SA-1	SK-1
						g/pc	
08B	.433	.169	.539	.819	.232	2.0	4.0
10B	.551	.209	.650	.980	.291	3.2	6.4
12B	.709	.252	.728	1.106	.319	4.5	9.0
16B	.945	.331	1.079	1.575	.406	20	40
20B	1.181	.413	1.299	1.870	.520	25	50

D-1,D-3 ATTACHMENT

Chain No.	Common Dimensions (inch)				Additional Weight	
	Dp	L3	L4	H	D-1	D-3
					g/pc	
08B	.175	.583	.858	.465	1.8	3.6
10B	.200	.693	1.020	.579	2.8	5.6
12B	.225	.815	1.201	.634	4.1	8.2
16B	.326	1.311	1.941	.811	14.0	28.0
20B	.400	1.508	2.228	1.039	24.3	48.6

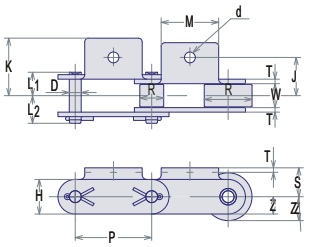
WA-2,WK-2,WSA-2,WSK-2 ATTACHMENT

Chain No.	Common Dimensions (inch)				Original Dimensions (inch)					
	M	d	N	S	WA		WK		WSA, WSK	
					J	K	2J	2K	C	X
08B	.965	.169	.500	.335	.543	.823	1.087	1.646	.539	.819
10B	1.205	.209	.625	.413	.622	.953	1.244	1.906	.650	.980
12B	1.386	.252	.750	.480	.693	1.075	1.386	2.150	.728	1.106
16B	1.827	.331	1.000	.669	1.142	1.650	2.283	3.299	1.079	1.575
20B	2.291	.413	1.250	.827	1.358	1.941	2.717	3.882	1.299	1.870

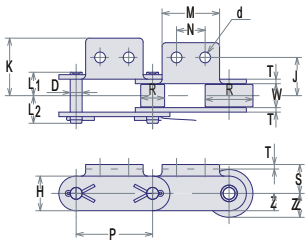
RBL®
PREMIUM

DOUBLE PITCH ATTACHMENT CHAINS

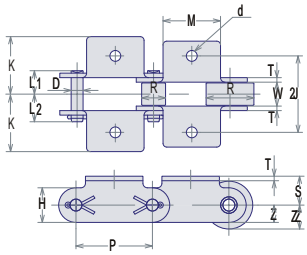
A-1 attachment



A-2 attachment



K-1 attachment



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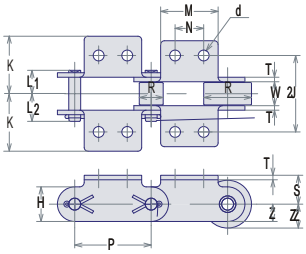
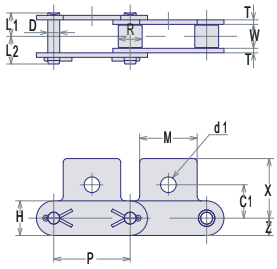
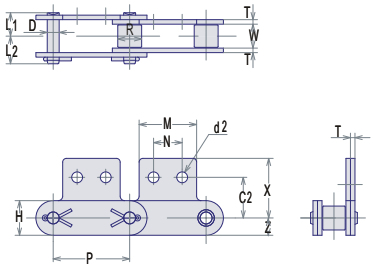


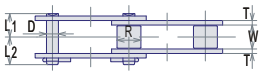
SA-1 attachment



SA-2 attachment



GK-1 attachment



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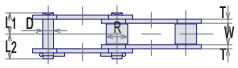
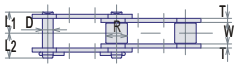
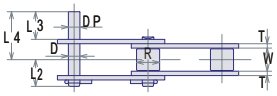


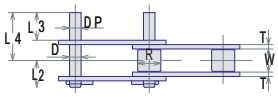
SK-2 attachment



D-1 attachment



D-3 attachment



BASIC SPECS FOR ASSEMBLING ATTACHMENT

Chain No. (ANSI)	Dimensions - inch								Average Ultimate Strength	Average Chain Weight
	Pitch	Roller		Pin			Plate			
		Width	Dia.	Dia.	Length		Height	Thick.		
	P	W	R	D	L_1	L_2	H	T	Lbs	Lb/ft
C2040	1	.312	.312	.156	.323	.378	.450	.060	3,800	.32
C2042			.625							.55
C2050	1-1/4	.375	.400	.200	.400	.467	.591	.080	6,200	.55
C2052			.750							.85
C2060H	1-1/2	.500	.469	.234	.565	.657	.670	.125	9,000	.93
C2062H			.875							1.40
C2080H	2	.625	.625	.312	.699	.829	.890	.156	15,400	1.56
C2082H			1.125							2.27
C2100H	2-1/2	.750	.750	.375	.831	.969	1.126	.187	24,300	2.33
C2102H			1.562							3.78
C2120H	3	1.000	.875	.437	1.036	1.208	1.374	.218	33,900	3.37
C2122H			1.750							5.34
C2160H	4	1.250	1.125	.562	1.333	1.537	1.874	.281	58,000	5.34
C2162H			2.250							8.46

A-1,A-2,K-1,K-2, ATTACHMENT

Chain No.		Dimensions - inch								
Standard Roller	Carrier Roller	M	d	N	S	Z	ZZ	A-1, A-2		K-1, K-2
								J	K	2J
C2040	C2042	.752	.142	.374	.358	.224	□ .313	.500	.752	1.000
C2050	C2052	.937	.205	.469	.437	.295	□ .375	.626	.953	1.252
C2060H	C2062H	1.126	.205	.563	.579	.335	□ .437	.843	1.228	1.685
C2080H	C2082H	1.500	.268	.752	.752	.445	□ .563	1.094	1.598	2.189
C2100H	C2102H	1.874	.346	.937	.921	.563	□ .781	1.311	1.969	2.622
C2120H	C2122H	2.252	.413	1.126	1.094	.685	□ .875	1.563	2.437	3.126
C2160H	C2162H	3.000	.551	1.500	1.437	.937	□ 1.125	2.063	2.996	4.126

SA-1,SA-2,SK-1,SK-2 ATTACHMENT

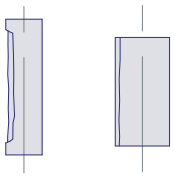
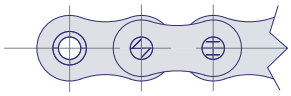
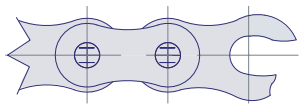
Chain No.		Dimensions - inch								
Standard Roller	Carrier Roller	M	X	Z	ZZ	SA-1, SK-1		SA-2, SK-2		
						C1	d1	C2	d2	N
C2040	C2042	.752	.780	.224	□ .313	.437	.205	.531	.142	.374
C2050	C2052	.937	.969	.295	□ .375	.563	.268	.626	.205	.469
C2060H	C2062H	1.126	1.205	.335	□ .437	.689	.346	.752	.205	.563
C2080H	C2082H	1.500	1.583	.445	□ .563	.874	.413	1.000	.268	.752
C2100H	C2102H	1.874	1.980	.563	□ .781	1.126	.551	1.252	.346	.937
C2120H	C2122H	2.252	2.406	.685	□ .875	1.311	.630	1.469	.413	1.126
C2160H	C2162H	3.000	3.000	.937	□ 1.125	1.752	.827	2.000	.551	1.500

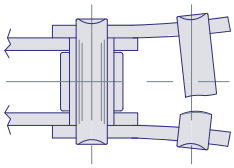
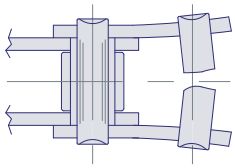
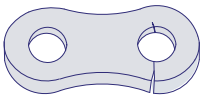
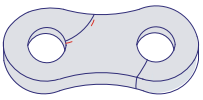
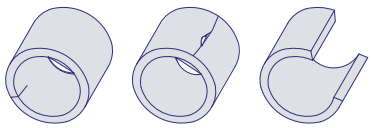
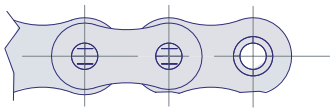
D-1,D-3,GK-1 ATTACHMENT

Chain No.		Dimensions - inch				Additional Weight	
Standard Roller	Carrier Roller	D-1, D-3			GK-1	D-1	D-3
		Dp	L_3	L_4	d	g/pc	
C2040	C2042	.156	.374	.661	.161	0.9	1.8
C2050	C2052	.200	.469	.831	.200/ .205/ .244/ .252/ .315/ .323	1.8	3.6
C2060H	C2062H	.234	.563	1.083	.238/ .252/ .284/ .319	3.0	6
C2080H	C2082H	.312	.752	1.402	.315 .319	7	14
C2100H	C2102H	.375	.937	1.701	.398	12	24
C2120H	C2122H	.437	1.126	2.087	.476	20	40
C2160H	C2162H	.562	1.500	2.717	□	44	88

Trouble Shooting Hints

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	· Properly lubricate · 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
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

Problem	Possible Causes of Problem	Suggested Remedy
 Broken Pins	· Extreme overload	· Inspect the drive to determine the cause of high load · Redesign drive using a higher capacity chain
 Broken Pins(center)	· Loading is greater than pins dynamic capacity	· Inspect the drive to determine the cause of high load · Redesign drive using a higher capacity chain
 Broken Offset Link Pins	· Overload	· One-pitch offset links are not recommended · Redesign drive using a higher capacity chain
 Fatigue Failure	· Loading is greater than chain's dynamic capacity	· Inspect the drive to determine the cause of high load · Redesign drive using a higher capacity chain
 Cracking	· Stress corrosion cracking	· Protect the chain from corrosion · Install anti-corrosive chains
 Broken Rollers	· Foreign material between chain and sprocket tooth · Fatigue failure	· Redesign chain speed and load · Shield drive from foreign matter
 Worn Plates	· Bottom of plates worn due to rubbing on guides.	· Chain should be replaced when wear becames over 5% of the plates height

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 74 to 78, have been worked out under the following conditions.

1) To be driven in normal atmosphere of -25C ° to 60C ° 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 Strands 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[n1:rpm]
f) RPM and diameter of low speed shaft[n2rpm]
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 multiply kW by corrected factor f1 applied according to condition of use

KW1=kW0 x f1
=kW0 x f1 x f2

To obtain chain and high-speed sprocket teeth N_1 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=n1/n2
N2=R x N1

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

☐Check

Make special sprocket

Obtain corrected power kW_1 of single strand by referring to multiple strand factor f_2

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 depending on chain driving conditions

1) For low speed drive with few stops and starts, make the chain selection in a way to satisfy the following formula:
Tx f1 x f3≦Max. allowable chain load.
2) For low speed drive with frequent stops and starts.
Tx f1 x f3 x f4≦Ave. ultimate strength.

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

N1[☐]☐Number of teeth on small sprocket.
N2[☐]☐Number of teeth on large sprocket.
P [mm]☐Chain pitch
S [m/min]☐Chain speed
☐N 1・P・n1/1000
T [kN]☐Max. working load.
☐60×kW0/S

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

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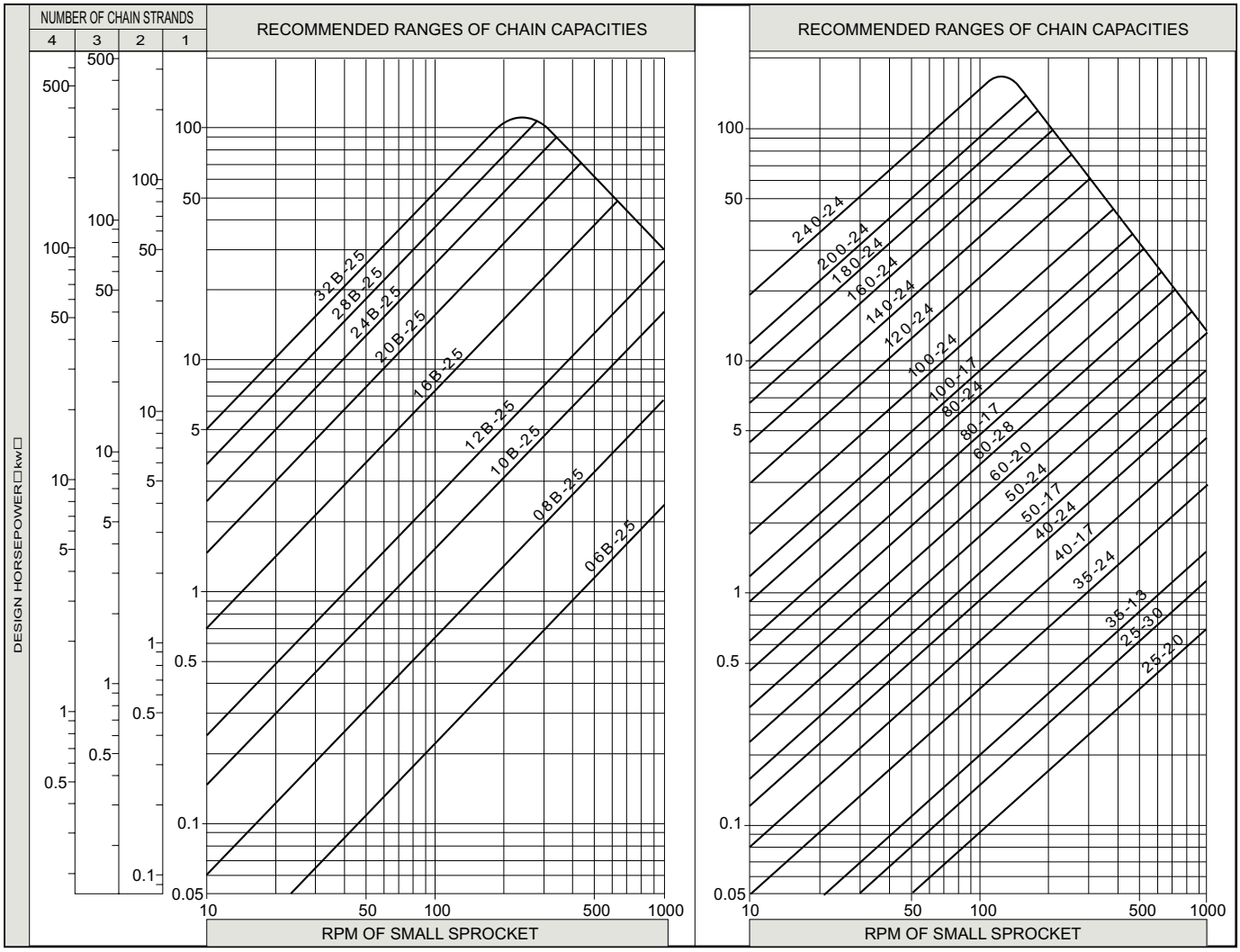
Roller Chain Quick Selection Chart



CONCISE SELECTION DATA

Chain No.	Standard(ANSI)		Each Series			
	Max. Allowable Load	Ave. Ultimate Strength	Ave.Ultimate Strength(kN)			
			E	HE	H	U
35	560	2,400				
40	940	4,300				
50	1,620	7,200			7,800	
60	2,470	9,900			12,300	
80	4,290	17,600	11,850	20,900	20,200	18,900
100	6,600	26,400	26,750	31,900	30,700	28,600
120	8,880	39,000	39,100	42,900	41,800	41,800
140	11,700	50,900	51,000	56,600	54,100	55,100
160	15,500	63,200	66,000	71,700	68,700	70,500
180	17,750	81,500		99,100	83,800	
200	20,900	105,500		125,700	116,900	
240	29,000	152,000		198,500	163,200	

f1: SERVICE FACTOR

Driven Load Condition	Internal Combustion Engine		Motor or Turbine
	Hydraulic Drive	Mechanical Drive	
Uniform Smooth	1.0	1.2	1.0
Moderate Shock	1.2	1.4	1.3
Heavy Shock	1.4	1.7	1.5

f3: SPEED COEFFICIENT

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

f4: SAFETY FACTOR

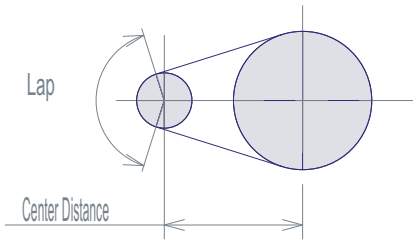
Chain Speed	f4
25m/min.	7≦
25□50	8≦

INSTALLATION AND ARRANGEMENT

To design excellent chain drives, chains and sprockets should be properly arranged and installed.

CENTER DISTANCE AND CHAIN LAP

Chain lap on the small sprocket must be at least 120 degrees.



Sprockets can be spaced at any distance as long as their teeth do not touch. Optimum distance is 30 to 50 times of pitch of the chain used except when there is a pulsating load. In case of pulsating drive, distance of less than 20 chain pitches is adequate.

TENSION AND SLACK

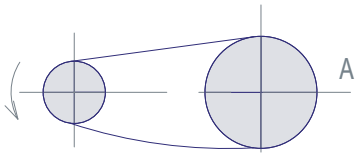
Proper amount of chain tension should be maintained. Inadequate tension will step up wear, while excessive sag will result in pulsating impact, stranding and breakage.

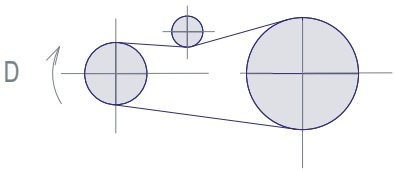
Adequate slack is 4 % of the span for normal drives. In the following cases, the slack should be about 2 % of the span.

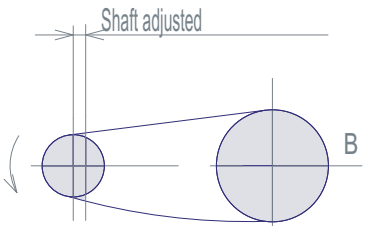
1) Vertical position or near to vertical position.
2)Center distance exceeding 1 meter.
3)Heavy load application with frequent starts and stops.
4)Application with sudden reverse motions.

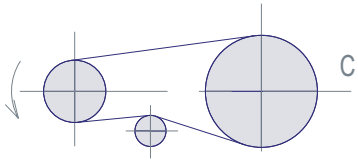
DRIVE POSITIONS

Horizontal





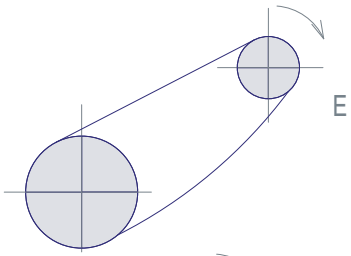


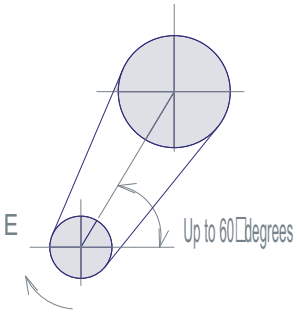


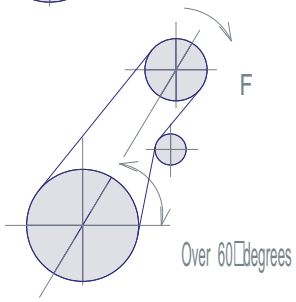
Horizontal arrangements

A. Generally roller chain slack is on the lower side.
B. When the center distance is short chain slack is adjusted by expanding it.
C. When the center distance is long, chain slack is adjusted by installing a tightner.
D. When chain slacks on the upper side, adjust it by a tightner.

Inclined and Vertical

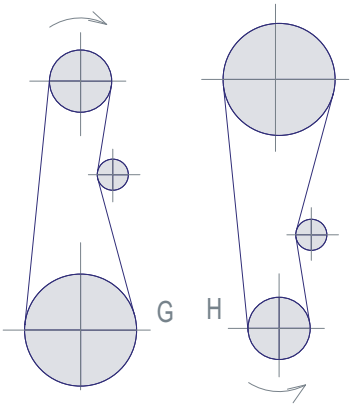






Inclined arrangements:

E. Inclined operation should be within 60 °, possible.
F. Too much slack will cause chain to ride up on the lower sprocket or come off. It should be adjusted by a tightner.



Vertical arrangements:

G, H

Excessive chain sag should be automatically adjusted by a tightner. It is mandatory when the driving shaft(small sprocket) is placed on the bottom side.

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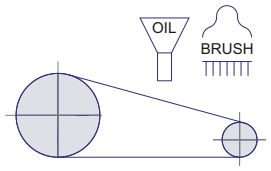
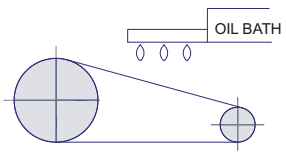
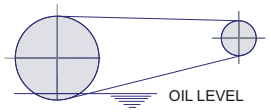
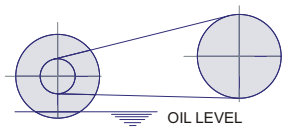
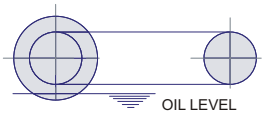
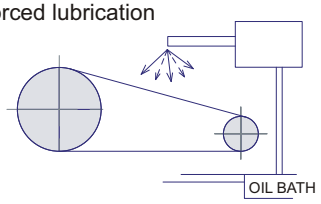
LUBRICATION

Proper lubrication of roller chains is a very important factor in getting their best possible performance and longer lifetime.
No matter how well a transmission system is designed, if it is not properly lubricated, its service life will be shortened.
Abrasion between the pin and bushing causes roller chains to stretch. Therefore, these parts should be well lubricated.
The gap between the pin-link plate and roller-link plate on the slack side of the chain should be filled with lubricant.
The oil forms a film which minimizes wear of the pin and bushing thus increasing the chain service life.
It also reduces noises and cools down the chain running at high speed.

POINTS OF LUBRICATION

1)Fill and change oil periodically.
2)Generally, heavy oil and grease are not suitable as a lubricant.
3)Avoid mixing oil of different manufacturers and types.
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. • Up to 4ltr/min should be filled without oil shortage or heating up. • Closed circulating lubrication stem needs a clean tank or case.

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			
□50	SAE10	SAE20	SAE30	SAE50	SAE10	SAE20	SAE30	SAE40
60□80	20	30	40	50	10	20	30	40
100	20	30	40	50	20	30	40	50
120□	30	40	50	50	20	30	40	50

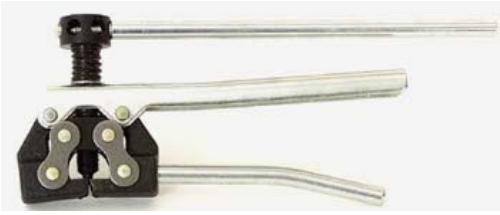
Chain	Rustless Chains				Maintenance Free Chains			Heavy Series Chains		
No	AQUA	NP	SS	SSS	SL	SLR	MF	H	Oil-field	SUPER
35	O	O	O							
40	O	O	O	O	O	O				
50	O	O	O	O	O	O				
60	O	O	O	O	O	O		O		
80	O	O	O	O	O	O	O	O	O	O
100	O	O	O		O	O	O	O	O	O
120	O	O	O		O	O	O	O	O	O
140	O	O	O		O		O	O	O	O
160	O	O	O		O		O	O	O	O
180	O							O	O	O
200	O							O	O	O
240	O							O	O	O
06B		O	O	O						
08B	O	O	O	O		O				
10B	O	O	O	O		O				
12B	O	O	O	O		O				
16B	O	O	O			O	O			
20B	O	O	O			O	O			
24B	O					O	O	O		
28B	O					O	O			
32B	O					O		O		
C2040	O	O	O		O	O				
C2050	O	O	O			O				
C2060	O	O	O		O	O				
C2080	O	O	O		O	O				
C2100	O	O	O							
C2120	O		O							
C2160	O		O							
use temperature	-10 - 70°C		-40 - 400°C		-10 - 70°C		-10 - 170°C	-10 - 70°C		
Allowable load *2	100%	90%	10%	15%	70%	80%	100%	108%	108%	135%
Chain speed (m/min) *1	#35 110	#40 84	#50 76	#60 67	#80 51	#100 43	#120 38	#140 32	#160 30	#200 25

*1 Manual or Drip Lubrication
*2 Standard roller chain is the base

Interchange

BRAND	RBL	TSUBAKI	DAIDO	ENUMA
STD	40 R	RS 40	DID 40	EK 40
Straight Sidebar	40 F	RF 40	40F	40 C
Enviroment resistant	50 AP AQUA PROOF	50WP	50E	-
		50DP	50WE	-
Nickel-plated	40 NP	40 NP	40 N	40 NP
Sintered (Bushed)	40 SL	Lambda	-	-
Sintered (Roller)	40 SLR	RSD 40	40 UR	
Heavy duty	100 HE	RS 100HT	DID 100 HK	
SUPER	SUPER 100	SUPER 100	Hi PWR S 100	
SUPERH	SUPER100H	SUPER100H	Hi PWR S 100HK	
SUS304	50 SS	50 SS	50SS	50 SS300
SUS316	50 SS316	50 NS		
600	50 SS600	50 AS		
Side Bow Chains	50 SB	50 SB	50 FX	50 SB
Hollow Pin Chains	50 HP	50 HP	50 HP	50 HP
Motorcycle Chain	410	65,43,37		
	415	45,42		

Chain Breakers



Type	Suitable Chain
CB1	25-60
CB2	60-100
CB3	120-160

Chain Holder

The Roller Chain Holder for ANSI chain sizes 35 through 60.This compact tool will save time and effort by allowing you to repair roller chain without removing it from your machine. Part# CH1

If mis-selected, mis-installed and improperly safeguarded, Chain will break and serious injury or property damage can result.

Please read an instruction manual carefully before installation.

Roller Chain Application Information

Please select the chain (compare with Technical Data)when you use.
If the chain abused through improper installation , operating or maintenance procedures, failure can lead to personal injury or property damage.

Ultimate Tensile Strength

Ultimate tensile strength is the one time pull required to break the chain therefore these are not the allowable working load.
Safety factor must be considered when selecting roller chain.
A roller chain should never be loaded above 50% of Ultimate strength for even one cycle.
When to use a multiple-strand roller chain, please consider the multiple-strand factor.

Guarding

The chain can break in normal service due to the effects of wear ,fatigue or unexpected overloads. Therefore a roller chain drive should have adequate guarding to prevent personal injury or property damage.

Connecting Link

When a slip-fit connecting link coverside for ease of assembly is used, a chain's working capacity is reduced as much as 20% on some models. RBL CHAIN offeres New Connecting Links with slip-fit coverside as strong as the base chain, recommend this New Connecting Link to use.

Offset Link

One-pitch offset links are very handy, pin and offset linkplates have to be slip-fitted.
It's allowable working load is approximately 30% less.
Therefore one-pitch offset links are not recommended especially frequent, impact load and high speed driving.
The two-pitch offset link is combination of a roller link and an offset link connected with a riveted pin.
So two-pitch offset link can be used in high speed or heavy duty applications.

Cotter Pin, Spring Clip

Keep angle 90 ° approx. to spread out prongs of cotter pin.Do not reuse the cotter and do not use the commercial cotters on the market.
Be sure to insert spring clip properly into and seat in the groove on the end of Pin after installation of Connecting Link cover plate onto pins, and do not spring one leg of the clip over the pin end to avoid breakdown of the leg.
Do not spread out clip's legs too much, to prevent spring clip falling off and unexpected accident.
Install spring clips with solid end pointing in the direction of chain travel.

Rust Corrosion

If a chain is corroded, its capacity is reduced.
If corrosion is severe, the link plates may crack even though the chain is not under load.
In view this, carbon steel chain should not be exposed to corrosive conditions, acid fumes, salt spray sea water .
Chain corrosion from normal atmospheric conditions may be minimized by proper lubrication.

CAUTION

1) Always lock out machinery power switch before attempting removal, installation, or any servicing of chain
2) Wear eye and face protection when grinding, driving or disassembling pins.
3) Always wear gloves, protective clothing and safety shoes with steel toe when working with chains.
4) Make absolutely sure that chain is properly supported to prevent uncontrolled movement of chain and parts.
5) Chain pressers and breaking tools are recommended to be in good working order and to be used according to instructions.
6) Avoid plating or welding assembled chains or components.
7) Never repair damaged chains by replacing only the component parts.
8) Damaged chain may be yielded and therefore should not be reworked.

Maintenance Check List

Inspect on regularly scheduled basis, for worn, damaged or broken parts ,possible interference by other systems components, and proper lubrication.
Normal maintenance procedures can prevent most of the conditions described below.
Carefully inspect roller chain drives on the same schedule as associated equipment.

Sprocket Misalignment

Wear on the sides of sprocket teeth generally indicates improper installation of sprockets and/or shafts. If shafts are out of parallel or not in the same plane, non-symmetrical wear will appear on sprockets or chain rollers.
After proper alignment is made re-tighten set screws in sprocket hubs.

Chain wear and Elongation

Normal wear will cause some increase in chain length. However,if a sudden increase in elongation occurs , look for severe wear on the tips of sprocket teeth. This may be cased by any of the following : excessive loading or shock loading , displacement and/or wear in bearings, displacement of take-up ,or under-designed drives.
Excessive elongation may be an indication that chain and/or sprockets should be replaced.
Before replacing chain or sprockets ,recalculate initial drive design. Check chain tension if there is too much accumulated slack in the drive.

Broken Chain Parts

Generally caused by an overloaded drive ; extreme misalignment ; excessive elongation
causing chain to jump sprocket teeth; heavy shock;
improper drive design geometry; foreign objects.
Recalculate initial drive design and make necessary correction .Inspect sprockets and shafts for proper alignment or looseness.

Link Plate Wear

Wear on inside of the link plates and on one side of sprocket teeth may be caused by a misalignment of sprockets.
Realign sprockets and shafts. Inspect chain carefully ,readjust chain properly or replace.

Removing Chain

Turn the drive until a connecting link is fully engaged with one of the sprockets so as to relieve the tension on the connecting pin.

Excessive Noise

Can be caused by broken links and chain rollers,extreme misalignment, elongation, chain jumping sprocket teeth , loose sprockets, broken teeth ,accumulation of dirt packed into the chain or sprockets teeth, interference by foreign objects, contacting a fixed object
Check for worn broken or missing parts. Check alignment of shafts and/or sprockets.

Lubrication

On slow speed drives, where manual lubrication is used, if drip lubrication is used check for adequate oil flow and proper application to the chain.
With bath or pump lubrication, check oil level and add oil if needed. Check oil for contamination and change oil if needed.
If pump lubrication is used, check each orifice to be sure if it is clear and is directing oil onto the chain properly.

Recommended Replacement

Measure the chain wear elongation and if elongation exceeds functional limits or is greater than 3% (0.36 inch in one foot) replace the entire chain.
Do not connect a new section of chain to a worn chain because it may run roughly and damage the drive. Do not continue to run a chain worn beyond
3% elongation because the chain will not engage the sprockets properly and it may damage the sprockets.

Cutting Riveted Chain

The two pins of a pin link must be driven out of the link plate. Strike the pins alternately to avoid distortion of the roller link plates as well as the plates of the adjacent links.
Chain cutting tools can also be used. Follow their instruction carefully.

Inserting New Links

Insert only on new roller chain. Pitch variance between a new link and an old link,especially one which is elongated due to wear, will cause shock when the new link engages he sprockets.

Installing New Chain

Chain and/or related parts should be visually inspected for damage, which could have occurred during shipping prior to installation.
Never install new chain on worn sprockets as this will permanently damage chain. With new chain and sprockets installed, check for proper tension and alignment.

MAXIMUM KILOWATT RATING OF 35

No. of Teeth Smalll Spkt.	Maximum R.P.M.-Small Sprocket																			
	50	100	300	500	700	900	1200	1500	1800	2100	2500	3000	3500	4000	4500	5000	5500	6000	6500	7000
	Lubrication System																			
	A							B												
9	0.08	0.16	0.42	0.67	0.91	1.14	1.47	1.80	2.12	2.43	2.13	1.62	1.29	1.05	0.88	0.75	0.65	0.57	0.51	0.46
10	0.09	0.18	0.47	0.75	1.01	1.27	1.65	2.01	2.37	2.73	2.50	1.90	1.51	1.23	1.03	0.88	0.77	0.67	0.60	0.53
11	0.10	0.20	0.52	0.83	1.12	1.41	1.83	2.23	2.63	3.02	2.88	2.19	1.74	1.42	1.19	1.02	0.88	0.77	0.69	0.61
12	0.11	0.21	0.58	0.91	1.24	1.55	2.01	2.45	2.89	3.32	3.28	2.50	1.98	1.62	1.36	1.16	1.01	0.88	0.78	0.70
13	0.13	0.23	0.63	0.99	1.35	1.69	2.19	2.67	3.15	3.62	3.70	2.82	2.23	1.83	1.53	1.31	1.13	1.00	0.88	0.79
14	0.14	0.25	0.68	1.08	1.46	1.83	2.37	2.90	3.41	3.92	4.14	3.15	2.50	2.04	1.71	1.46	1.27	1.11	0.99	0.88
15	0.15	0.27	0.73	1.16	1.57	1.97	2.55	3.12	3.68	4.23	4.59	3.49	2.77	2.27	1.90	1.62	1.41	1.23	1.09	0.98
16	0.16	0.29	0.79	1.25	1.69	2.11	2.74	3.35	3.94	4.53	5.05	3.84	3.05	2.50	2.09	1.79	1.55	1.36	1.21	1.08
17	0.17	0.31	0.84	1.33	1.80	2.26	2.92	3.57	4.21	4.84	5.54	4.21	3.34	2.73	2.29	1.96	1.70	1.49	1.32	1.18
18	0.18	0.33	0.89	1.41	1.91	2.40	3.11	3.80	4.48	5.14	6.02	4.59	3.64	2.98	2.50	2.13	1.85	1.62	1.44	1.29
19	0.19	0.35	0.95	1.50	2.03	2.54	3.30	4.03	4.75	5.45	6.38	4.98	3.95	3.23	2.71	2.31	2.00	1.76	1.56	1.40
20	0.20	0.37	1.00	1.58	2.14	2.69	3.48	4.26	5.02	5.76	6.74	5.37	4.26	3.49	2.92	2.50	2.16	1.90	1.68	1.51
21	0.21	0.39	1.05	1.67	2.26	2.83	3.67	4.49	5.29	6.08	7.11	5.78	4.59	3.75	3.15	2.69	2.33	2.04	1.81	1.62
22	0.22	0.41	1.11	1.76	2.38	2.98	3.86	4.72	5.56	6.39	7.48	6.20	4.92	4.03	3.37	2.88	2.50	2.19	1.94	1.74
23	0.23	0.43	1.16	1.84	2.49	3.13	4.05	4.95	5.84	6.70	7.84	6.63	5.26	4.30	3.61	3.08	2.67	2.34	2.08	1.86
24	0.24	0.45	1.22	1.93	2.61	3.27	4.24	5.19	6.11	7.02	8.21	7.06	5.61	4.59	3.84	3.28	2.85	2.50	2.21	1.98
25	0.25	0.47	1.27	2.02	2.73	3.42	4.43	5.42	6.39	7.34	8.58	7.51	5.96	4.88	4.09	3.49	3.03	2.65	2.35	2.11
26	0.26	0.49	1.33	2.10	2.85	3.57	4.63	5.65	6.66	7.65	8.95	7.96	6.32	5.17	4.34	3.70	3.21	2.82	2.50	2.23
28	0.29	0.54	1.44	2.28	3.08	3.87	5.01	6.12	7.22	8.29	9.70	8.90	7.06	5.78	4.84	4.14	3.59	3.15	2.79	2.50
30	0.31	0.58	1.55	2.45	3.32	4.17	5.40	6.60	7.78	8.93	10.45	9.87	7.83	6.41	5.37	4.59	3.98	3.49	3.10	2.77
32	0.33	0.62	1.66	2.63	3.56	4.47	5.79	7.07	8.34	9.58	11.20	10.87	8.63	7.06	5.92	5.05	4.38	3.84	3.41	3.05
35	0.37	0.68	1.83	2.90	3.93	4.92	6.38	7.79	9.18	10.55	12.34	12.44	9.87	8.08	6.77	5.78	5.01	4.40	3.90	3.49
40	0.42	0.79	2.12	3.35	4.53	5.68	7.36	9.00	10.61	12.19	14.26	15.20	12.06	9.87	8.27	7.06	6.12	5.37	4.77	4.26
45	0.48	0.89	2.40	3.80	5.15	6.46	8.36	10.22	12.05	13.84	16.19	18.13	14.39	11.78	9.87	8.43	7.31	6.41	5.69	5.09

MAXIMUM KILOWATT RATING OF 40

No. of Teeth Smalll Spkt.	Maximum R.P.M.-Small Sprocket																			
	10	25	50	100	200	300	400	500	700	900	1000	1200	1400	1600	1800	2100	2400	2700	3000	3500
	Lubrication System																			
	A							B												
9	0.05	0.11	0.20	0.37	0.69	1.00	1.30	1.58	2.14	2.69	2.95	3.48	3.75	3.07	2.58	2.04	1.67	1.40	1.20	0.95
10	0.05	0.12	0.22	0.42	0.78	1.12	1.45	1.77	2.40	3.01	3.31	3.90	4.40	3.60	3.02	2.39	1.96	1.64	1.40	1.11
11	0.06	0.13	0.25	0.46	0.86	1.24	1.61	1.97	2.66	3.34	3.67	4.32	4.97	4.15	3.48	2.76	2.26	1.89	1.62	1.28
12	0.06	0.15	0.27	0.51	0.95	1.36	1.77	2.16	2.92	3.67	4.03	4.75	5.46	4.73	3.96	3.15	2.58	2.16	1.84	1.46
13	0.07	0.16	0.30	0.55	1.03	1.49	1.93	2.35	3.19	4.00	4.39	5.18	5.95	5.33	4.47	3.55	2.90	2.43	2.08	1.65
14	0.08	0.17	0.32	0.60	1.12	1.61	2.09	2.55	3.45	4.33	4.76	5.61	6.44	5.96	5.00	3.96	3.25	2.72	2.32	1.84
15	0.08	0.19	0.35	0.65	1.20	1.74	2.25	2.75	3.72	4.66	5.13	6.04	6.94	6.61	5.54	4.40	3.60	3.02	2.58	2.04
16	0.09	0.20	0.37	0.69	1.29	1.86	2.41	2.95	3.99	5.00	5.50	6.48	7.44	7.28	6.10	4.84	3.96	3.32	2.84	2.25
17	0.09	0.21	0.40	0.74	1.38	1.99	2.57	3.15	4.26	5.34	5.87	6.92	7.95	7.98	6.69	5.31	4.34	3.64	3.11	2.47
18	0.10	0.23	0.42	0.79	1.47	2.11	2.74	3.35	4.53	5.68	6.25	7.36	8.45	8.69	7.28	5.78	4.73	3.96	3.39	2.69
19	0.10	0.24	0.45	0.83	1.56	2.24	2.90	3.55	4.80	6.02	6.62	7.80	8.96	9.43	7.90	6.27	5.13	4.30	3.67	2.91
20	0.11	0.25	0.47	0.88	1.64	2.37	3.07	3.75	5.08	6.36	7.00	8.25	9.47	10.18	8.53	6.77	5.54	4.64	3.96	3.15
21	0.12	0.27	0.50	0.93	1.73	2.50	3.23	3.95	5.35	6.71	7.38	8.69	9.99	10.95	9.18	7.28	5.96	5.00	4.27	3.39
22	0.12	0.28	0.52	0.98	1.82	2.62	3.40	4.16	5.63	7.05	7.76	9.14	10.50	11.74	9.84	7.81	6.39	5.36	4.57	3.63
23	0.13	0.29	0.55	1.02	1.91	2.75	3.57	4.36	5.90	7.40	8.14	9.59	11.02	12.42	10.52	8.35	6.83	5.73	4.89	3.88
24	0.14	0.31	0.57	1.07	2.00	2.88	3.74	4.57	6.18	7.75	8.52	10.04	11.53	13.01	11.21	8.90	7.28	6.10	5.21	4.14
25	0.14	0.32	0.60	1.12	2.09	3.01	3.90	4.77	6.46	8.10	8.90	10.49	12.05	13.59	11.92	9.46	7.74	6.49	5.54	4.40
26	0.15	0.34	0.63	1.17	2.18	3.14	4.07	4.98	6.74	8.45	9.29	10.95	12.58	14.18	12.64	10.03	8.21	6.88	5.88	4.66
28	0.16	0.36	0.68	1.27	2.36	3.41	4.41	5.39	7.30	9.15	10.06	11.86	13.62	15.36	14.13	11.21	9.18	7.69	6.57	5.21
30	0.17	0.39	0.73	1.37	2.55	3.67	4.75	5.81	7.87	9.86	10.84	12.78	14.68	16.55	15.67	12.44	10.18	8.53	7.28	5.78
32	0.18	0.42	0.78	1.46	2.73	3.93	5.10	6.23	8.43	10.57	11.63	13.70	15.74	17.75	17.27	13.70	11.21	9.40	8.02	6.37
35	0.20	0.46	0.86	1.61	3.01	4.33	5.61	6.86	9.29	11.65	12.81	15.09	17.34	19.55	19.75	15.67	12.83	10.75	9.18	7.28
40	0.23	0.53	1.00	1.86	3.48	5.01	6.49	7.93	10.73	13.46	14.79	17.43	20.03	22.58	24.13	19.15	15.67	13.13	11.21	8.90
45	0.27	0.61	1.13	2.12	3.95	5.69	7.37	9.00	12.19	15.28	16.80	19.80	22.74	25.65	28.51	22.85	18.70	15.67	13.38	10.62

MAXIMUM KILLOWATT RATING OF 50

No. of Teeth Smalll Spkt.	Maximum R.P.M.-Small Sprocket																			
	10	25	50	100	200	300	400	500	700	900	1000	1200	1400	1600	1800	2100	2400	2700	3000	3500
	Lubrication System																			
	A							B												
9	0.09	0.21	0.39	0.72	1.35	1.95	2.52	3.08	4.17	5.23	5.75	5.66	4.49	3.67	3.08	2.44	2.00	1.68	1.43	1.14
10	0.10	0.23	0.43	0.81	1.51	2.18	2.82	3.45	4.67	5.86	6.44	6.62	5.26	4.30	3.61	2.86	2.34	1.96	1.68	1.33
11	0.11	0.26	0.48	0.90	1.68	2.42	3.13	3.83	5.18	6.49	7.14	7.64	6.06	4.96	4.16	3.30	2.70	2.26	1.93	1.53
12	0.12	0.28	0.53	0.99	1.84	2.65	3.44	4.20	5.69	7.13	7.84	8.71	6.91	5.66	4.74	3.76	3.08	2.58	2.20	1.75
13	0.14	0.31	0.58	1.08	2.01	2.89	3.75	4.58	6.20	7.78	8.55	9.82	7.79	6.38	5.34	4.24	3.47	2.91	2.48	1.97
14	0.15	0.33	0.62	1.17	2.18	3.13	4.06	4.96	6.72	8.43	9.26	10.92	8.71	7.13	5.97	4.74	3.88	3.25	2.78	2.20
15	0.16	0.36	0.67	1.26	2.34	3.38	4.38	5.35	7.24	9.08	9.98	11.76	9.66	7.90	6.62	5.26	4.30	3.61	3.08	2.44
16	0.17	0.39	0.72	1.35	2.51	3.62	4.69	5.73	7.76	9.73	10.70	12.61	10.64	8.71	7.30	5.79	4.74	3.97	3.39	2.69
17	0.18	0.41	0.77	1.44	2.68	3.87	5.01	6.12	8.29	10.39	11.43	13.46	11.65	9.54	7.99	6.34	5.19	4.35	3.71	2.95
18	0.19	0.44	0.82	1.53	2.85	4.11	5.33	6.51	8.82	11.05	12.15	14.32	12.69	10.39	8.71	6.91	5.66	4.74	4.05	3.21
19	0.20	0.47	0.87	1.62	3.03	4.36	5.65	6.90	9.35	11.72	12.88	15.18	13.77	11.27	9.44	7.49	6.13	5.14	4.39	3.48
20	0.22	0.49	0.92	1.71	3.20	4.61	5.97	7.30	9.88	12.39	13.62	16.05	14.87	12.17	10.20	8.09	6.62	5.55	4.74	3.76
21	0.23	0.52	0.97	1.81	3.37	4.86	6.29	7.69	10.41	13.06	14.35	16.91	16.00	13.09	10.97	8.71	7.13	5.97	5.10	4.05
22	0.24	0.55	1.02	1.90	3.55	5.11	6.62	8.09	10.95	13.73	15.09	17.79	17.15	14.04	11.77	9.34	7.64	6.40	5.47	4.34
23	0.25	0.57	1.07	1.99	3.72	5.36	6.94	8.49	11.49	14.40	15.84	18.66	18.34	15.01	12.58	9.98	8.17	6.85	5.85	4.64
24	0.26	0.60	1.12	2.09	3.90	5.61	7.27	8.89	12.03	15.08	16.58	19.54	19.54	16.00	13.41	10.64	8.71	7.30	6.23	4.94
25	0.27	0.63	1.17	2.18	4.07	5.86	7.60	9.29	12.57	15.76	17.33	20.42	20.78	17.01	14.25	11.31	9.26	7.76	6.62	5.26
26	0.29	0.65	1.22	2.28	4.25	6.12	7.93	9.69	13.11	16.44	18.08	21.30	22.04	18.04	15.12	12.00	9.82	8.23	7.03	5.58
28	0.31	0.71	1.32	2.47	4.60	6.63	8.59	10.49	14.21	17.81	19.58	23.08	24.63	20.16	16.89	13.41	10.97	9.20	7.85	6.23
30	0.33	0.76	1.42	2.66	4.96	7.14	9.25	11.31	15.31	19.19	21.10	24.86	27.31	22.36	18.74	14.87	12.17	10.20	8.71	6.91
32	0.36	0.82	1.53	2.85	5.31	7.66	9.92	12.12	16.41	20.58	22.62	26.66	30.09	24.63	20.64	16.38	13.41	11.23	9.59	7.61
35	0.39	0.90	1.68	3.14	5.85	8.43	10.93	13.35	18.08	22.67	24.92	29.37	33.74	28.17	23.61	18.74	15.33	12.85	10.97	8.71
40	0.46	1.04	1.94	3.62	6.76	9.74	12.62	15.43	20.88	26.18	28.79	33.92	38.97	34.42	28.85	22.89	18.74	15.70	13.41	10.64
45	0.52	1.18	2.21	4.12	7.68	11.06	14.33	17.52	23.72	29.73	32.69	38.52	44.25	41.07	34.42	27.31	22.36	18.74	16.00	12.69

RBL® PREMIUM

MAXIMUM KILOWATT RATING OF 60

No. of Teeth Smalll Spkt.	Maximum R.P.M.-Small Sprocket																			
	10	25	50	100	150	200	300	400	500	600	700	800	900	1000	1100	1200	1400	1600	1800	2000
	Lubrication System																			
	A							B												
9	0.17	0.39	0.72	1.35	1.95	2.52	3.63	4.71	5.75	6.78	7.79	8.78	9.77	8.60	7.46	6.54	5.19	4.25	3.56	3.04
10	0.19	0.44	0.81	1.51	2.18	2.83	4.07	5.27	6.45	7.60	8.73	9.84	10.94	10.07	8.73	7.66	6.08	4.98	4.17	3.56
11	0.21	0.48	0.90	1.68	2.42	3.13	4.51	5.85	7.15	8.42	9.68	10.91	12.13	11.62	10.07	8.84	7.02	5.74	4.81	4.11
12	0.23	0.53	0.99	1.84	2.66	3.44	4.96	6.42	7.85	9.25	10.63	11.99	13.33	13.24	11.48	10.07	7.99	6.54	5.48	4.68
13	0.25	0.58	1.08	2.01	2.90	3.75	5.41	7.00	8.56	10.09	11.59	13.07	14.53	14.93	12.94	11.36	9.01	7.38	6.18	5.28
14	0.27	0.63	1.17	2.18	3.14	4.07	5.86	7.59	9.27	10.93	12.55	14.16	15.74	16.69	14.47	12.70	10.07	8.25	6.91	5.90
15	0.30	0.67	1.26	2.35	3.38	4.38	6.31	8.17	9.99	11.77	13.52	15.25	16.96	18.51	16.04	14.08	11.17	9.15	7.66	6.54
16	0.32	0.72	1.35	2.52	3.62	4.70	6.76	8.76	10.71	12.62	14.50	16.35	18.18	19.99	17.67	15.51	12.31	10.07	8.44	7.21
17	0.34	0.77	1.44	2.69	3.87	5.01	7.22	9.36	11.44	13.48	15.48	17.46	19.41	21.34	19.36	16.99	13.48	11.03	9.25	7.90
18	0.36	0.82	1.53	2.86	4.12	5.33	7.68	9.95	12.17	14.33	16.47	18.57	20.65	22.70	21.09	18.51	14.69	12.02	10.07	8.60
19	0.38	0.87	1.62	3.03	4.36	5.65	8.14	10.55	12.90	15.20	17.46	19.69	21.89	24.07	22.87	20.07	15.93	13.04	10.93	9.33
20	0.40	0.92	1.72	3.20	4.61	5.98	8.61	11.15	13.63	16.06	18.45	20.81	23.14	25.44	24.70	21.68	17.20	14.08	11.80	10.07
21	0.42	0.97	1.81	3.38	4.86	6.30	9.07	11.75	14.37	16.93	19.45	21.94	24.39	26.81	26.58	23.32	18.51	15.15	12.70	10.84
22	0.45	1.02	1.90	3.55	5.11	6.62	9.54	12.36	15.11	17.80	20.45	23.07	25.64	28.20	28.50	25.01	19.85	16.24	13.61	11.62
23	0.47	1.07	2.00	3.72	5.36	6.95	10.01	12.97	15.85	18.68	21.46	24.20	26.91	29.58	30.46	26.73	21.21	17.36	14.55	12.42
24	0.49	1.12	2.09	3.90	5.62	7.28	10.48	13.58	16.60	19.56	22.47	25.34	28.17	30.97	32.47	28.50	22.61	18.51	15.51	13.24
25	0.51	1.17	2.18	4.08	5.87	7.60	10.95	14.19	17.35	20.44	23.48	26.48	29.44	32.37	34.52	30.30	24.04	19.68	16.49	14.08
26	0.54	1.22	2.28	4.25	6.12	7.93	11.43	14.80	18.10	21.32	24.50	27.63	30.72	33.77	36.61	32.13	25.50	20.87	17.49	14.93
28	0.58	1.32	2.47	4.61	6.63	8.59	12.38	16.04	19.60	23.10	26.54	29.93	33.27	36.58	39.86	35.91	28.50	23.32	19.55	16.69
30	0.62	1.42	2.66	4.96	7.15	9.26	13.34	17.28	21.12	24.89	28.59	32.24	35.85	39.41	42.94	39.82	31.60	25.87	21.68	18.51
32	0.67	1.53	2.85	5.32	7.66	9.93	14.30	18.53	22.65	26.68	30.66	34.57	38.44	42.26	46.04	43.87	34.82	28.50	23.88	20.39
35	0.74	1.68	3.14	5.86	8.44	10.94	15.75	20.41	24.95	29.40	33.77	38.08	42.34	46.55	50.72	50.18	39.82	32.60	27.32	23.32
40	0.85	1.94	3.63	6.77	9.75	12.63	18.20	23.57	28.82	33.96	39.01	43.99	48.91	53.78	58.59	61.31	48.66	39.82	33.37	28.50
45	0.97	2.21	4.12	7.69	11.07	14.35	20.67	26.77	32.73	38.56	44.30	49.96	55.55	61.07	66.54	71.96	58.06	47.52	39.82	34.00

MAXIMUM KILOWATT RATING OF 80

No. of Teeth Smalll Spkt.	Maximum R.P.M.-Small Sprocket																			
	10	25	50	100	150	200	300	400	500	600	700	800	900	1000	1100	1200	1400	1600	1800	2000
	Lubrication System																			
	A						B													
9	0.40	0.91	1.69	3.16	4.55	5.89	8.48	10.99	13.44	15.83	18.19	15.13	12.68	10.83	9.39	8.24	6.54	5.35	4.48	3.83
10	0.45	1.02	1.90	3.54	5.09	6.60	9.51	12.32	15.06	17.74	20.38	17.72	14.85	12.68	10.99	9.65	7.66	6.27	5.25	4.48
11	0.49	1.13	2.10	3.92	5.65	7.32	10.54	13.65	16.69	19.66	22.59	20.45	17.14	14.63	12.68	11.13	8.83	7.23	6.06	5.17
12	0.54	1.24	2.31	4.31	6.20	8.04	11.58	15.00	18.33	21.60	24.82	23.30	19.53	16.67	14.45	12.68	10.06	8.24	6.90	5.89
13	0.59	1.35	2.52	4.70	6.76	8.76	12.62	16.35	19.99	23.55	27.06	26.27	22.02	18.80	16.29	14.30	11.35	9.29	7.78	6.65
14	0.64	1.46	2.73	5.09	7.33	9.49	13.67	17.71	21.65	25.51	29.31	29.36	24.60	21.01	18.21	15.98	12.68	10.38	8.70	7.43
15	0.69	1.57	2.94	5.48	7.89	10.23	14.73	19.08	23.33	27.49	31.58	32.56	27.29	23.30	20.19	17.72	14.06	11.51	9.65	8.24
16	0.74	1.69	3.15	5.88	8.46	10.96	15.79	20.46	25.01	29.47	33.86	35.87	30.06	25.67	22.25	19.53	15.49	12.68	10.63	9.07
17	0.79	1.80	3.36	6.27	9.04	11.71	16.86	21.85	26.70	31.47	36.15	39.28	32.92	28.11	24.37	21.38	16.97	13.89	11.64	9.94
18	0.84	1.92	3.58	6.67	9.61	12.45	17.94	23.24	28.40	33.47	38.45	42.80	35.87	30.63	26.55	23.30	18.49	15.13	12.68	10.83
19	0.89	2.03	3.79	7.07	10.19	13.20	19.01	24.63	30.11	35.48	40.76	45.97	38.90	33.21	28.79	25.27	20.05	16.41	13.75	11.74
20	0.94	2.15	4.01	7.48	10.77	13.95	20.10	26.04	31.83	37.50	43.08	48.59	42.01	35.87	31.09	27.29	21.65	17.72	14.85	12.68
21	0.99	2.26	4.22	7.88	11.35	14.71	21.18	27.45	33.55	39.53	45.42	51.21	45.20	38.59	33.45	29.36	23.30	19.07	15.98	13.64
22	1.04	2.38	4.44	8.29	11.94	15.47	22.28	28.86	35.28	41.57	47.76		48.47	41.38	35.87	31.48	24.98	20.45	17.14	14.63
23	1.09	2.50	4.66	8.70	12.52	16.23	23.37	30.28	37.01	43.61	50.10	56.50	51.81	44.24	38.34	33.65	26.70	21.86	18.32	15.64
24	1.15	2.61	4.88	9.10	13.11	16.99	24.47	31.70	38.75	45.66	52.46	59.16	55.23	47.15	40.87	35.87	28.47	23.30	19.53	16.67
25	1.20	2.73	5.10	9.51	13.70	17.76	25.57	33.13	40.50	47.72		61.83	58.71	50.13	43.45	38.14	30.26	24.77	20.76	17.72
26	1.25	2.85	5.32	9.93	14.30	18.52	26.68	34.57	42.25	49.79	57.20	64.50	62.27	53.17	46.08	40.45	32.10	26.27	22.02	18.80
28	1.35	3.09	5.76	10.75	15.49	20.07	28.90	37.45	45.77	53.94	61.96	69.88	69.59	59.42	51.50	45.20	35.87	29.36	24.60	21.01
30	1.46	3.33	6.21	11.59	16.69	21.62	31.14	40.34	49.32	58.11	66.76	75.28	77.18	65.90	57.12	50.13	39.78	32.56	27.29	23.30
32	1.56	3.57	6.66	12.42	17.89	23.18	33.39	43.25	52.88	62.30	71.58	80.72	85.03	72.60	62.93	55.23	43.82	35.87	30.06	25.67
35	1.72	3.93	7.33	13.68	19.71	25.54	36.78	47.65	58.25	68.64	78.85	88.92	97.26	83.04	71.98	63.17	50.13	41.03	34.39	29.36
40	1.99	4.54	8.47	15.81	22.77	29.50	42.49	55.04	67.28	79.28	91.08	102.71	114.20	101.5	87.94	77.18	61.25	50.13	42.01	35.87
45	2.26	5.16	9.62	17.95	25.86	33.50	48.25	62.51	76.41	90.04	103.44	116.65	129.7	121.1	104.9	92.09	73.08	59.82	50.13	42.80

MAXIMUM KILLOWATT RATING OF 100

No. of Teeth Smalll Spkt.	Maximum R.P.M.-Small Sprocket																			
	10	25	50	100	150	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1600	1800
	Lubrication System																			
			A			B													C	
9	0.76	1.74	3.24	6.05	8.71	11.28	16.25	21.05	25.73	27.85	22.10	18.09	15.16	12.94	11.22	9.85	8.73	7.81	6.40	5.36
10	0.85	1.95	3.63	6.77	9.76	12.64	18.21	23.59	28.84	32.62	25.89	21.19	17.76	15.16	13.14	11.53	10.23	9.15	7.49	6.28
11	0.95	2.16	4.02	7.51	10.82	14.01	20.18	26.15	31.96	37.63	29.86	24.44	20.49	17.49	15.16	13.31	11.80	10.56	8.64	7.24
12	1.04	2.37	4.42	8.25	11.88	15.39	22.17	28.72	35.11	41.37	34.03	27.85	23.34	19.93	17.27	15.16	13.45	12.03	9.85	8.25
13	1.13	2.58	4.82	8.99	12.95	16.78	24.17	31.32	38.28	45.11	38.37	31.40	26.32	22.47	19.48	17.09	15.16	13.57	11.10	9.31
14	1.23	2.80	5.22	9.74	14.03	18.18	26.19	33.93	41.47	48.87	42.88	35.10	29.41	25.11	21.77	19.10	16.94	15.16	12.41	10.40
15	1.32	3.01	5.62	10.50	15.12	19.59	28.21	36.55	44.68	52.65	47.56	38.92	32.62	27.85	24.14	21.19	18.79	16.81	13.76	11.53
16	1.42	3.23	6.03	11.25	16.21	21.00	30.25	39.19	47.91	56.45	52.39	42.88	35.94	30.68	26.60	23.34	20.70	18.52	15.16	12.71
17	1.51	3.45	6.44	12.02	17.31	22.42	32.30	41.84	51.15	60.27	57.38	46.96	39.36	33.60	29.13	25.56	22.67	20.29	16.60	13.91
18	1.61	3.67	6.85	12.78	18.41	23.85	34.35	44.51	54.40	64.11	62.51	51.17	42.88	36.61	31.73	27.85	24.70	22.10	18.09	15.16
19	1.71	3.89	7.26	13.55	19.52	25.28	36.42	47.18	57.68	67.96	67.80	55.49	46.50	39.71	34.42	30.20	26.79	23.97	19.62	16.44
20	1.80	4.11	7.67	14.32	20.63	26.72	38.49	49.87	60.96	71.83	73.22	59.93	50.22	42.88	37.17	32.62	28.93	25.89	21.19	17.76
21	1.90	4.34	8.09	15.10	21.74	28.17	40.58	52.57	64.26	75.72	78.78	64.48	54.04	46.14	39.99	35.10	31.13	27.85	22.80	19.10
22	2.00	4.56	8.51	15.87	22.86	29.62	42.67	55.28	67.57	79.62	84.47	69.14	57.94	49.47	42.88	37.63	33.38	29.86	24.44	20.49
23	2.10	4.78	8.93	16.65	23.99	31.08	44.77	57.99	70.89	83.54	90.29	73.90	61.94	52.88	45.84	40.23	35.68	31.92	26.13	21.90
24	2.20	5.01	9.34	17.44	25.12	32.54	46.87	60.72	74.23	87.46	96.25	78.78	66.02	56.37	48.86	42.88	38.03	34.03	27.85	23.34
25	2.29	5.23	9.77	18.22	26.25	34.01	48.98	63.46	77.57	91.41	102.32	83.75	70.19	59.93	51.94	45.59	40.43	36.18	29.61	24.82
26	2.39	5.46	10.19	19.01	27.39	35.48	51.10	66.21	80.93	95.36	108.52	88.83	74.44	63.56	55.09	48.35	42.88	38.37	31.40	26.32
28	2.59	5.91	11.04	20.60	29.67	38.44	55.36	71.72	87.67	103.31	118.68	99.27	83.19	71.03	61.57	54.04	47.92	42.88	35.10	29.41
30	2.79	6.37	11.89	22.19	31.96	41.41	59.64	77.27	94.46	111.30	127.9	110.1	92.26	78.78	68.28	59.93	53.15	47.56	38.92	32.62
32	3.00	6.83	12.75	23.79	34.27	44.40	63.95	82.85	101.28	119.33	137.1	121.3	101.6	86.78	75.22	66.02	58.55	52.39	42.88	35.94
35	3.30	7.53	14.05	26.21	37.75	48.91	70.45	91.27	111.57	131.5	151.0	138.7	116.3	99.27	86.05	75.52	66.97	59.93	49.05	41.11
40	3.81	8.69	16.22	30.28	43.61	56.50	81.38	105.43	128.9	151.9	174.5	169.5	142.1	121.3	105.1	92.26	81.83	73.22	59.93	50.22
45	4.33	9.87	18.43	34.38	49.52	64.16	92.42	119.73	146.4	172.5	198.1	202.3	169.5	144.7	125.4	110.1	97.64	87.37	71.51	59.93

MAXIMUM KILOWATT RATING OF 120

No. of Teeth Smalll Spkt.	Maximum R.P.M.-Small Sprocket																				
	10	25	50	100	150	200	300	400	500	600	700	800	900	1000	1100	1200	1300	1400	1500	1600
	Lubrication System																			
		A							B								C			
9	1.29	2.93	5.47	10.21	14.71	19.05	27.44	35.55	42.36	32.23	25.57	20.93	17.54	14.98	12.98	11.39	10.10	9.04	8.15	7.40
10	1.44	3.29	6.13	11.44	16.48	21.35	30.75	39.83	48.69	37.74	29.95	24.51	20.54	17.54	15.20	13.34	11.83	10.59	9.55	8.67
11	1.60	3.64	6.79	12.68	18.26	23.66	34.08	44.15	53.97	43.54	34.55	28.28	23.70	20.24	17.54	15.39	13.65	12.22	11.02	10.00
12	1.75	4.00	7.46	13.93	20.06	25.99	37.44	48.50	59.29	49.61	39.37	32.23	27.01	23.06	19.99	17.54	15.56	13.92	12.55	11.39
13	1.91	4.36	8.14	15.19	21.87	28.34	40.82	52.88	64.64	55.94	44.39	36.34	30.45	26.00	22.54	19.78	17.54	15.70	14.15	12.85
14	2.07	4.72	8.82	16.45	23.70	30.70	44.22	57.29	70.03	62.52	49.61	40.61	34.03	29.06	25.19	22.10	19.60	17.54	15.82	14.36
15	2.23	5.09	9.50	17.72	25.53	33.08	47.64	61.72	75.45	69.34	55.02	45.04	37.74	32.23	27.93	24.51	21.74	19.45	17.54	15.92
16	2.39	5.46	10.18	19.00	27.37	35.46	51.08	66.18	80.90	76.39	60.62	49.61	41.58	35.50	30.77	27.01	23.95	21.43	19.32	17.54
17	2.55	5.83	10.87	20.29	29.23	37.86	54.54	70.65	86.37	83.66	66.39	54.34	45.54	38.88	33.70	29.58	26.23	23.47	21.16	19.21
18	2.72	6.20	11.57	21.58	31.09	40.27	58.01	75.15	91.87	91.15	72.33	59.20	49.61	42.36	36.72	32.23	28.58	25.57	23.06	20.93
19	2.88	6.57	12.26	22.88	32.96	42.70	61.50	79.67	97.39	98.85	78.44	64.20	53.81	45.94	39.82	34.95	30.99	27.73	25.01	22.70
20	3.04	6.94	12.96	24.18	34.83	45.13	65.00	84.21	102.94	106.75	84.71	69.34	58.11	49.61	43.00	37.74	33.47	29.95	27.01	24.51
21	3.21	7.32	13.66	25.49	36.72	47.57	68.52	88.77	108.51	114.86	91.15	74.60	62.52	53.38	46.27	40.61	36.01	32.23	29.06	26.38
22	3.37	7.70	14.36	26.81	38.61	50.02	72.05	93.34	114.10	123.16	97.73	79.99	67.04	57.24	49.61	43.54	38.62	34.55	31.16	28.28
23	3.54	8.08	15.07	28.12	40.51	52.48	75.59	97.93	119.71	131.65	104.47	85.51	71.66	61.19	53.04	46.55	41.28	36.94	33.31	30.23
24	3.71	8.46	15.78	29.45	42.41	54.95	79.15	102.54	125.34	140.33	111.36	91.15	76.39	65.22	56.53	49.61	44.00	39.37	35.50	32.23
25	3.87	8.84	16.49	30.77	44.33	57.43	82.72	107.16	130.99	149.19	118.39	96.90	81.21	69.34	60.10	52.75	46.78	41.86	37.74	34.26
26	4.04	9.22	17.20	32.11	46.24	59.91	86.29	111.80	136.66	158.23	125.57	102.77	86.13	73.54	63.74	55.94	49.61	44.39	40.03	36.34
28	4.38	9.99	18.64	34.78	50.10	64.90	93.49	121.11	148.05	174.45	140.33	114.86	96.26	82.19	71.24	62.52	55.45	49.61	44.74	40.61
30	4.72	10.76	20.08	37.47	53.97	69.92	100.72	130.48	159.50	187.94	155.63	127.38	106.75	91.15	79.00	69.34	61.49	55.02	49.61	45.04
32	5.06	11.54	21.53	40.18	57.87	74.97	107.99	139.90	171.02	201.51	171.45	140.33	117.60	100.41	87.04	76.39	67.74	60.62	54.66	49.61
35	5.57	12.71	23.72	44.26	63.75	82.59	118.96	154.12	188.40	221.99	196.12	160.52	134.52	114.86	99.56	87.38	77.49	69.34	62.52	56.75
40	6.44	14.68	27.40	51.12	73.64	95.40	137.42	178.03	217.62	256.43	239.61	196.12	164.36	140.33	121.64	106.75	94.68	84.71	76.39	69.34
45	7.31	16.67	31.11	58.06	83.63	108.34	156.06	202.17	247.14	291.21	285.91	234.02	196.12	167.45	145.14	127.38	112.97	101.09	91.15	82.74

MAXIMUM KILOWATT RATING OF 140

No. of Teeth Smalll Spkt.	Maximum R.P.M.-Small Sprocket																				
	10	25	50	100	150	200	250	300	350	400	450	500	550	600	700	800	900	1000	1100	1200	
	Lubrication System																				
		A								B									C		
9	1.99	4.54	8.46	15.80	22.75	29.48	36.03	42.46	48.78	55.00	56.13	47.92	41.54	36.45	28.93	23.68	19.84	16.94	14.69	12.89	
10	2.23	5.08	9.48	17.70	25.49	33.03	40.37	47.57	54.65	61.63	65.74	56.13	48.65	42.70	33.88	27.73	23.24	19.84	17.20	15.10	
11	2.47	5.63	10.51	19.62	28.26	36.61	44.75	52.73	60.58	68.32	75.84	64.75	56.13	49.26	39.09	31.99	26.81	22.89	19.84	17.42	
12	2.71	6.19	11.55	21.55	31.04	40.22	49.16	57.93	66.55	75.05	83.44	73.78	63.95	56.13	44.54	36.45	30.55	26.08	22.61	19.84	
13	2.96	6.75	12.59	23.50	33.85	43.85	53.60	63.16	72.56	81.82	90.97	83.19	72.11	63.29	50.22	41.11	34.45	29.41	25.49	22.37	
14	3.20	7.31	13.64	25.46	36.67	47.50	58.07	68.42	78.60	88.64	98.55	92.97	80.59	70.73	56.13	45.94	38.50	32.87	28.49	25.01	
15	3.45	7.88	14.70	27.42	39.50	51.18	62.56	73.71	84.68	95.50	106.18	103.11	89.37	78.44	62.25	50.95	42.70	36.45	31.60	27.73	
16	3.70	8.44	15.76	29.40	42.35	54.87	67.07	79.04	90.80	102.39	113.84	113.59	98.46	86.41	68.57	56.13	47.04	40.16	34.81	30.55	
17	3.95	9.02	16.82	31.39	45.22	58.58	71.61	84.38	96.94	109.32	121.54	124.40	107.83	94.64	75.10	61.47	51.51	43.98	38.12	33.46	
18	4.20	9.59	17.89	33.39	48.10	62.31	76.17	89.76	103.11	116.28	129.28	135.54	117.49	103.11	81.82	66.97	56.13	47.92	41.54	36.45	
19	4.46	10.17	18.97	35.40	50.99	66.06	80.75	95.15	109.31	123.27	137.06	146.99	127.41	111.82	88.74	72.63	60.87	51.97	45.05	39.53	
20	4.71	10.75	20.05	37.42	53.90	69.82	85.35	100.57	115.54	130.29	144.87	158.75	137.60	120.76	95.83	78.44	65.74	56.13	48.65	42.70	
21	4.97	11.33	21.14	39.44	56.81	73.60	89.97	106.01	121.79	137.34	152.70	167.89	148.05	129.93	103.11	84.39	70.73	60.39	52.34	45.94	
22	5.22	11.91	22.23	41.47	59.74	77.39	94.61	111.48	128.07	144.42	160.57	176.54	158.75	139.32	110.56	90.49	75.84	64.75	56.13	49.26	
23	5.48	12.50	23.32	43.51	62.68	81.20	99.26	116.96	134.37	151.52	168.47	185.23	169.69	148.93	118.19	96.73	81.07	69.22	60.00	52.65	
24	5.74	13.08	24.42	45.56	65.63	85.02	103.93	122.46	140.69	158.65	176.39	193.94	180.88	158.75	125.98	103.11	86.41	73.78	63.95	56.13	
25	5.99	13.67	25.52	47.61	68.58	88.85	108.61	127.98	147.03	165.80	184.34	202.68	192.30	168.77	133.93	109.62	91.87	78.44	67.99	59.67	
26	6.25	14.27	26.62	49.67	71.55	92.70	113.31	133.52	153.39	172.98	192.32	211.45	203.95	179.00	142.05	116.26	97.43	83.19	72.11	63.29	
28	6.77	15.45	28.84	53.81	77.51	100.42	122.75	144.64	166.17	187.39	208.34	229.07	227.94	200.05	158.75	129.93	108.89	92.97	80.59	70.73	
30	7.30	16.65	31.07	57.98	83.51	108.19	132.25	155.83	179.02	201.89	224.46	246.79	252.79	221.86	176.06	144.10	120.76	103.11	89.37	78.44	
32	7.83	17.85	33.31	62.16	89.54	116.00	141.80	167.08	191.95	216.46	240.67	264.60	278.48	244.41	193.95	158.75	133.04	113.59	98.46	86.41	
35	8.62	19.67	36.70	68.48	98.64	127.79	156.21	184.06	211.45	238.46	265.12	291.49	317.60	279.57	221.86	181.59	152.18	129.93	112.62	98.84	
40	9.96	22.72	42.39	79.10	113.94	147.61	180.44	212.62	244.26	275.45	306.25	336.71	366.87	341.57	271.06	221.86	185.93	158.75	137.60	120.76	
45	11.31	25.80	48.14	89.83	129.39	167.63	204.92	241.46	277.39	312.81	347.79	382.39	416.64	407.58	323.44	264.73	221.86	189.42	164.19	144.10	

MAXIMUM KILLOWATT RATING OF 160

No. of Teeth Smalll Spkt.	Maximum R.P.M.-Small Sprocket																				
	10	25	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900	
	Lubrication System																				
		A								B								C			
9	2.89	6.58	12.28	22.92	33.01	42.76	52.27	61.60	70.76	74.52	62.45	53.32	46.22	40.56	35.98	32.19	29.03	26.35	24.06	22.08	
10	3.23	7.37	13.76	25.68	36.99	47.92	58.57	69.02	79.29	87.28	73.15	62.45	54.13	47.51	42.13	37.70	34.00	30.86	28.18	25.86	
11	3.58	8.17	15.25	28.46	41.00	53.11	64.93	76.50	87.89	99.11	84.39	72.05	62.45	54.81	48.61	43.50	39.22	35.60	32.51	29.84	
12	3.94	8.98	16.76	31.27	45.04	58.35	71.32	84.04	96.55	108.88	96.15	82.10	71.16	62.45	55.39	49.56	44.69	40.56	37.04	34.00	
13	4.29	9.79	18.27	34.09	49.10	63.61	77.76	91.63	105.27	118.71	108.4	92.57	80.24	70.42	62.45	55.88	50.39	45.74	41.76	38.33	
14	4.65	10.61	19.79	36.93	53.19	68.91	84.24	99.26	114.04	128.6	121.2	103.5	89.67	78.70	69.80	62.45	56.31	51.12	46.67	42.84	
15	5.01	11.43	21.32	39.79	57.31	74.25	90.76	106.94	122.86	138.5	134.4	114.7	99.45	87.28	77.41	69.26	62.45	56.69	51.76	47.51	
16	5.37	12.25	22.86	42.66	61.45	79.61	97.31	114.66	131.7	148.5	148.0	126.4	109.6	96.15	85.27	76.30	68.80	62.45	57.02	52.34	
17	5.73	13.08	24.41	45.55	65.60	84.99	103.90	122.42	140.6	158.6	162.1	138.4	120.0	105.3	93.39	83.57	75.35	68.40	62.45	57.32	
18	6.10	13.91	25.96	48.45	69.78	90.40	110.51	130.2	149.6	168.7	176.6	150.8	130.7	114.7	101.8	91.05	82.10	74.52	68.04	62.45	
19	6.47	14.75	27.52	51.36	73.98	95.84	117.16	138.0	158.6	178.8	191.6	163.6	141.8	124.4	110.3	98.74	89.03	80.82	73.79	67.73	
20	6.83	15.59	29.09	54.28	78.19	101.30	123.83	145.9	167.6	189.0	206.9	176.6	153.1	134.4	119.2	106.6	96.15	87.28	79.69	73.15	
21	7.20	16.43	30.66	57.22	82.42	106.78	130.5	153.8	176.7	199.3	221.5	190.1	164.7	144.6	128.2	114.7	103.5	93.91	85.75	78.70	
22	7.57	17.28	32.24	60.17	86.67	112.28	137.3	161.7	185.8	209.5	233.0	203.8	176.6	155.0	137.5	123.0	110.9	100.7	91.94	84.39	
23	7.95	18.13	33.83	63.13	90.93	117.80	144.0	169.7	194.9	219.8	244.4	217.8	188.8	165.7	147.0	131.5	118.6	107.6	98.28	90.21	
24	8.32	18.98	35.42	66.10	95.21	123.34	150.8	177.7	204.1	230.2	255.9	232.2	201.3	176.6	156.7	140.2	126.4	114.7	104.8	96.15	
25	8.70	19.84	37.02	69.08	99.50	128.9	157.6	185.7	213.3	240.5	267.4	246.9	214.0	187.8	166.6	149.0	134.4	122.0	111.4	102.2	
26	9.07	20.70	38.62	72.07	103.80	134.5	164.4	193.7	222.5	251.0	279.0	261.8	226.9	199.2	176.6	158.1	142.5	129.4	118.1	108.4	
28	9.83	22.42	41.84	78.07	112.45	145.7	178.1	209.8	241.1	271.9	302.3	292.6	253.6	222.6	197.4	176.6	159.3	144.6	132.0	121.2	
30	10.59	24.15	45.07	84.11	121.15	157.0	191.9	226.1	259.7	292.9	325.6	324.5	281.3	246.9	218.9	195.9	176.6	160.3	146.4	134.4	
32	11.35	25.90	48.33	90.18	129.9	168.3	205.7	242.4	278.5	314.0	349.2	357.5	309.9	272.0	241.2	215.8	194.6	176.6	161.3	148.0	
35	12.51	28.53	53.24	99.35	143.1	185.4	226.6	267.0	306.8	345.9	384.6	408.9	354.5	311.1	275.9	246.9	222.6	202.1	184.5	169.3	
40	14.45	32.96	61.50	114.76	165.3	214.1	261.8	308.5	354.4	399.6	444.3	488.5	433.1	380.1	337.1	301.6	272.0	246.9	225.4	206.9	
45	16.41	37.43	69.84	130.3	187.7	243.2	297.3	350.3	402.4	453.8	504.6	554.8	516.8	453.5	402.2	359.9	324.5	294.6	269.0	246.9	

RBL® PREMIUM

MAXIMUM KILOWATT RATING OF 180

No. of Teeth Smalll Spkt.	Maximum R.P.M.-Small Sprocket 10	25	50	100	150	200	250	300	350	400	450	500	550	600	650	700	750	800	850	900
	Lubrication System	A		B													C			
9	3.89	8.87	16.55	30.88	44.48	57.63	70.45	83.01	95.37	81.89	68.62	58.59	50.79	44.57	39.53	35.37	31.89	28.95	26.43	24.26
10	4.36	9.94	18.54	34.61	49.85	64.58	78.94	93.02	106.86	95.91	80.37	68.62	59.48	52.20	46.30	41.43	37.35	33.91	30.96	28.42
11	4.83	11.02	20.56	38.36	55.25	71.58	87.50	103.10	118.44	110.6	92.73	79.17	68.62	60.23	53.41	47.79	43.10	39.12	35.72	32.78
12	5.30	12.10	22.58	42.14	60.69	78.63	96.12	113.26	130.1	126.1	105.7	90.21	78.19	68.62	60.86	54.46	49.10	44.57	40.70	37.35
13	5.78	13.19	24.62	45.94	66.17	85.73	104.80	123.5	141.9	142.2	119.1	101.7	88.17	77.38	68.62	61.40	55.37	50.26	45.89	42.12
14	6.27	14.29	26.67	49.77	71.69	92.87	113.53	133.8	153.7	158.9	133.1	113.7	98.53	86.48	76.69	68.62	61.88	56.17	51.29	47.07
15	6.75	15.40	28.73	53.62	77.23	100.06	122.3	144.1	165.6	176.2	147.7	126.1	109.3	95.91	85.06	76.11	68.62	62.29	56.88	52.20
16	7.24	16.51	30.81	57.49	82.81	107.28	131.1	154.5	177.5	194.1	162.7	138.9	120.4	105.7	93.70	83.84	75.60	68.62	62.66	57.51
17	7.73	17.63	32.89	61.38	88.41	114.54	140.0	165.0	189.5	212.6	178.2	152.1	131.8	115.7	102.6	91.82	82.80	75.16	68.62	62.99
18	8.22	18.75	34.99	65.29	94.04	121.83	148.9	175.5	201.6	227.4	194.1	165.7	143.6	126.1	111.8	100.0	90.21	81.89	74.77	68.62
19	8.71	19.88	37.09	69.22	99.70	129.2	157.9	186.0	213.7	241.0	210.5	179.7	155.8	136.7	121.3	108.5	97.83	88.80	81.08	74.42
20	9.21	21.01	39.20	73.16	105.38	136.5	166.9	196.6	225.9	254.7	227.3	194.1	168.2	147.7	131.0	117.2	105.7	95.91	87.57	80.37
21	9.71	22.15	41.33	77.12	111.08	143.9	175.9	207.3	238.1	268.5	244.6	208.8	181.0	158.9	140.9	126.1	113.7	103.2	94.22	86.48
22	10.21	23.29	43.45	81.09	116.80	151.3	185.0	218.0	250.4	282.4	262.3	223.9	194.1	170.3	151.1	135.2	121.9	110.6	101.0	92.73
23	10.71	24.43	45.59	85.08	122.5	158.8	194.1	228.7	262.7	296.3	280.4	239.4	207.5	182.1	161.5	144.5	130.3	118.3	108.0	99.12
24	11.21	25.58	47.74	89.08	128.3	166.2	203.2	239.4	275.1	310.2	298.8	255.2	221.2	194.1	172.1	154.0	138.9	126.1	115.1	105.7
25	11.72	26.73	49.89	93.09	134.1	173.7	212.4	250.2	287.5	324.2	317.7	271.3	235.1	206.4	183.0	163.8	147.7	134.0	122.4	112.3
26	12.23	27.89	52.05	97.12	139.9	181.2	221.5	261.1	299.9	338.2	337.0	287.7	249.4	218.9	194.1	173.7	156.6	142.2	129.8	119.1
28	13.25	30.22	56.38	105.22	151.6	196.3	240.0	282.8	324.9	366.4	376.6	321.5	278.7	244.6	216.9	194.1	175.0	158.9	145.1	133.1
30	14.27	32.55	60.75	113.35	163.3	211.5	258.6	304.7	350.0	394.7	417.6	356.6	309.1	271.3	240.6	215.3	194.1	176.2	160.9	147.7
32	15.30	34.90	65.13	121.54	175.1	226.8	277.2	326.7	375.3	423.2	460.1	392.8	340.5	298.8	265.0	237.1	213.8	194.1	177.2	162.7
35	16.86	38.45	71.75	133.9	192.9	249.8	305.4	359.9	413.4	466.2	518.4	449.3	389.5	341.8	303.2	271.3	244.6	222.0	202.7	186.1
40	19.47	44.41	82.88	154.7	222.8	288.6	352.8	415.7	477.6	538.6	598.8	549.0	475.9	417.6	370.4	331.4	298.8	271.3	247.7	227.3
45	22.11	50.44	94.12	175.6	253.0	327.8	400.6	472.1	542.3	611.6	680.0	655.1	567.8	498.3	442.0	395.5	356.6	323.7	295.5	271.3

MAXIMUM KILOWATT RATING OF 200

No. of Teeth Smalll Spkt.	Maximum R.P.M.-Small Sprocket 10	15	20	30	40	50	70	100	150	200	250	300	350	400	450	500	550	600	650
	Lubrication System	A				B										C			
9	4.87	7.01	9.08	13.08	16.94	20.71	28.04	38.65	55.67	72.13	88.17	103.89	108.8	89.09	74.66	63.75	55.25	48.49	43.01
10	5.45	7.85	10.17	14.66	18.99	23.21	31.42	43.31	62.38	80.82	98.79	116.4	127.5	104.3	87.44	74.66	64.71	56.80	50.37
11	6.04	8.71	11.28	16.24	21.04	25.73	34.82	48.01	69.15	89.58	109.51	129.0	147.1	120.4	100.9	86.13	74.66	65.52	58.11
12	6.64	9.56	12.39	17.84	23.12	28.26	38.26	52.74	75.96	98.41	120.3	141.7	162.8	137.2	114.9	98.14	85.07	74.66	
13	7.24	10.43	13.51	19.46	25.21	30.81	41.71	57.50	82.82	107.29	131.2	154.5	177.5	154.7	129.6	110.7	95.92	84.18	
14	7.84	11.30	14.63	21.08	27.31	33.38	45.18	62.29	89.72	116.2	142.1	167.4	192.3	172.8	144.8	123.7	107.2	94.08	
15	8.45	12.17	15.76	22.71	29.42	35.96	48.68	67.11	96.66	125.2	153.1	180.4	207.2	191.7	160.6	137.2	118.9	104.3	
16	9.06	13.05	16.90	24.35	31.54	38.56	52.19	71.95	103.64	134.3	164.1	193.4	222.2	211.2	177.0	151.1	131.0	114.9	
17	9.67	13.93	18.05	25.99	33.68	41.17	55.73	76.82	110.65	143.4	175.2	206.5	237.2	231.3	193.8	165.5	143.4	125.9	
18	10.29	14.82	19.20	27.65	35.82	43.79	59.27	81.71	117.7	152.5	186.4	219.6	252.3	252.0	211.2	180.3	156.3	137.2	
19	10.91	15.71	20.35	29.31	37.97	46.42	62.84	86.62	124.8	161.6	197.6	232.8	267.5	273.3	229.0	195.5	169.5	148.7	
20	11.53	16.60	21.51	30.98	40.14	49.07	66.42	91.56	131.9	170.9	208.9	246.1	282.7	295.1	247.3	211.2	183.0		
21	12.15	17.50	22.67	32.66	42.31	51.72	70.01	96.51	139.0	180.1	220.2	259.4	298.0	317.5	266.1	227.2	196.9		
22	12.78	18.40	23.84	34.34	44.49	54.38	73.62	101.49	146.2	189.4	231.5	272.8	313.4	340.5	285.3	243.6	211.2		
23	13.40	19.31	25.01	36.03	46.68	57.06	77.24	106.48	153.4	198.7	242.9	286.2	328.8	363.9	305.0	260.4	225.7		
24	14.04	20.22	26.19	37.72	48.87	59.74	80.87	111.48	160.6	208.0	254.3	299.7	344.3	387.9	325.1	277.6	240.6		
25	14.67	21.13	27.37	39.42	51.08	62.44	84.52	116.5	167.8	217.4	265.8	313.2	359.8	405.7	345.6	295.1	255.8		
26	15.30	22.04	28.56	41.13	53.29	65.14	88.18	121.6	175.1	226.8	277.3	326.7	375.3	423.3	366.6	313.0	271.3		

MAXIMUM KILLOWATT RATING OF 240

No. of Teeth Smalll Spkt.	Maximum R.P.M.-Small Sprocket 5	10	15	20	25	30	40	50	60	80	100	125	150	175	200	250	300	350	400	450
	Lubrication System	A					B													
9	4.20	7.84	11.29	14.62	17.88	21.07	27.29	33.36	39.31	50.93	62.25	76.10	89.67	103.01	116.2	142.0	158.7	125.9	103.1	86.38
10	4.71	8.78	12.65	16.39	20.03	23.60	30.58	37.38	44.05	57.06	69.75	85.27	100.47	115.4	130.2	159.1	185.9	147.5	120.7	101.2
11	5.22	9.73	14.02	18.16	22.20	26.16	33.89	41.43	48.82	63.2	77.32	94.51	111.37	127.9	144.3	176.4	207.8	170.2	139.3	116.7
12	5.73	10.69	15.40	19.95	24.39	28.74	37.23	45.52	53.63	69.48	84.94	103.83	122.3	140.5	158.5	193.7	228.3	193.9	158.7	
13	6.25	11.66	16.79	21.76	26.59	31.34	40.60	49.63	58.47	75.76	92.60	113.20	133.4	153.2	172.8	211.2	248.9	218.6	178.9	
14	6.77	12.63	18.19	23.57	28.81	33.95	43.98	53.76	63.35	82.07	100.32	122.6	144.5	166.0	187.2	228.8	269.7	244.3	200.0	
15	7.29	13.61	19.60	25.39	31.04	36.57	47.38	57.92	68.25	88.42	108.08	132.1	155.7	178.8	201.7	246.5	290.5	271.0	221.8	
16	7.82	14.59	21.01	27.22	33.28	39.21	50.80	62.10	73.17	94.80	115.9	141.7	166.9	191.8	216.2	264.3	311.5	298.5	244.3	
17	8.35	15.58	22.44	29.07	35.53	41.87	54.24	66.30	78.13	101.21	123.7	151.2	178.2	204.7	230.9	282.2	332.6	326.9	267.6	
18	8.88	16.57	23.86	30.92	37.79	44.53	57.69	70.52	83.10	107.66	131.6	160.9	189.6	217.8	245.6	300.2	353.7	356.2	291.5	
19	9.41	17.56	25.30	32.78	40.07	47.21	61.16	74.77	88.10	114.13	139.5	170.5	201.0	230.9	260.3	318.3	375.0	386.3	316.2	
20	9.95	18.56	26.74	34.64	42.35	49.90	64.65	79.02	93.12	120.6	147.5	180.3	212.4	244.0	275.2	336.4	396.4	417.2	341.5	
21	10.49	19.57	28.19	36.52	44.64	52.60	68.14	83.30	98.15	127.2	155.4	190.0	223.9	257.2	290.1	354.6	417.8	448.9	367.4	
22	11.03	20.58	29.64	38.40	46.94	55.31	71.65	87.59	103.21	133.7	163.5	199.8	235.4	270.5	305.0	372.9	439.3	481.3	393.9	
23	11.57	21.59	31.10	40.29	49.25	58.03	75.18	91.90	108.29	140.3	171.5	209.6	247.0	283.8	320.0	391.2	460.9	514.5	421.1	
24	12.11	22.60	32.56	42.18	51.56	60.76	78.71	96.22	113.38	146.9	179.6	219.5	258.6	297.1	335.1	409.6				
25	12.66	23.62	34.03	44.08	53.89	63.50	82.26	100.56	118.5	153.5	187.7	229.4	270.3	310.5	350.2	428.1				
26	13.21	24.65	35.50	45.99	56.22	66.25	85.82	104.91	123.6	160.2	195.8	239.3	282.0	324.0	365.3	446.6				

SUPER ROLLER CHAIN
MAXIMUM KILOWATT RATING OF SUPER 80

No. of Teeth Smalll Spkt.	Maximum R.P.M.-Small Sprocket												
	10	25	50	100	150	200	250	300	350	400	500	600	700
	Lubrication System												
	A			B							C		
13	0.9	2.1	3.9	7.2	10.4	13.4	16.4	19.3	22.2	25.1	30.6	36.1	32.1
14	1.0	2.2	4.2	7.8	11.2	14.5	17.8	21.0	24.1	27.1	33.2	39.1	35.9
15	1.1	2.4	4.5	8.4	12.1	15.7	19.2	22.6	25.9	29.2	35.7	42.1	39.8
16	1.1	2.6	4.8	9.0	13.0	16.8	20.5	24.2	27.8	31.4	38.3	45.2	51.9
17	1.2	2.8	5.2	9.6	13.8	17.9	21.9	25.8	29.7	33.5	40.9	48.2	55.4
18	1.3	2.9	5.5	10.2	14.7	19.1	23.3	27.5	31.6	35.6	43.5	51.3	58.9
19	1.4	3.1	5.8	10.8	15.6	20.2	24.7	29.1	33.5	37.7	46.1	54.4	62.5
20	1.4	3.3	6.1	11.5	16.5	21.4	26.1	30.8	35.4	39.9	48.8	57.5	66.0
21	1.5	3.5	6.5	12.1	17.4	22.5	27.5	32.5	37.3	42.1	51.4	60.6	69.6
22	1.6	3.6	6.8	12.7	18.3	23.7	29.0	34.1	39.2	44.2	54.1	63.7	73.2
24	1.8	4.0	7.5	14.0	20.1	26.0	31.8	37.5	43.1	48.6	59.4	70.0	80.4
26	1.9	4.4	8.2	15.2	21.9	28.4	34.7	40.9	47.0	53.0	64.7	76.3	87.6
30	2.2	5.1	9.5	17.8	25.6	33.1	40.5	47.7	54.8	61.8	75.6	89.0	102.3
32	2.4	5.5	10.2	19.0	27.4	35.5	43.4	51.2	58.8	66.3	81.0	95.5	109.7
35	2.6	6.0	11.2	21.0	30.2	39.1	47.8	56.4	64.7	73.0	89.3	105.2	120.8
40	3.0	7.0	13.0	24.2	34.9	45.2	55.2	65.1	74.8	84.3	103.1	121.5	139.6

MAXIMUM KILOWATT RATING OF SUPER 100

No. of Teeth Smalll Spkt.	Maximum R.P.M.-Small Sprocket												
	10	25	50	100	150	200	250	300	350	400	450	500	600
	Lubrication System												
	A			B					C				
13	1.5	3.5	6.5	12.1	17.5	22.7	27.7	32.7	37.5	42.3	47.0	51.7	48.4
14	1.7	3.8	7.1	13.2	19.0	24.6	30.0	35.4	40.6	45.8	51.0	56.0	54.0
15	1.8	4.1	7.6	14.2	20.4	26.5	32.3	38.1	43.8	49.4	54.9	60.4	59.9
16	1.9	4.4	8.1	15.2	21.9	28.4	34.7	40.9	46.9	52.9	58.9	64.7	76.3
17	2.0	4.7	8.7	16.2	23.4	30.3	37.0	43.6	50.1	56.5	62.8	69.1	81.4
18	2.2	5.0	9.3	17.3	24.9	32.2	39.4	46.4	53.3	60.1	66.8	73.5	86.6
19	2.3	5.3	9.8	18.3	26.4	34.2	41.8	49.2	56.5	63.7	70.9	77.9	91.8
20	2.4	5.6	10.4	19.3	27.9	36.1	44.1	52.0	59.7	67.4	74.9	82.4	97.0
21	2.6	5.9	10.9	20.4	29.4	38.1	46.5	54.8	63.0	71.0	79.0	86.8	102.3
22	2.7	6.2	11.5	21.4	30.9	40.0	48.9	57.6	66.2	74.7	83.0	91.3	107.6
24	3.0	6.8	12.6	23.6	33.9	44.0	53.7	63.3	72.7	82.0	91.2	100.3	118.2
26	3.2	7.4	13.8	25.7	37.0	47.9	58.6	69.0	79.3	89.4	99.4	109.3	128.8
30	3.8	8.6	16.1	30.0	43.2	55.9	68.4	80.6	92.6	104.4	116.1	127.6	150.4
32	4.0	9.2	17.2	32.1	46.3	60.0	73.3	86.4	99.2	111.9	124.4	136.8	161.2
35	4.5	10.2	19.0	35.4	51.0	66.1	80.8	95.2	109.3	123.3	137.1	150.7	177.6
40	5.1	11.7	21.9	40.9	58.9	76.3	93.3	109.9	126.3	142.4	158.3	174.1	205.1

MAXIMUM KILOWATT RATING OF SUPER 120

No. of Teeth Smalll Spkt.	Maximum R.P.M.-Small Sprocket												
	10	25	50	75	100	150	200	250	300	350	400	450	500
	Lubrication System												
	A		B					C					
13	2.4	5.4	10.1	14.5	18.8	27.1	35.1	42.9	50.5	58.0	65.5	72.8	80.0
14	2.6	5.8	10.9	15.7	20.4	29.3	38.0	46.5	54.7	62.9	70.9	78.8	86.7
15	2.8	6.3	11.8	16.9	21.9	31.6	40.9	50.0	59.0	67.7	76.4	84.9	93.4
16	3.0	6.8	12.6	18.2	23.5	33.9	43.9	53.7	63.2	72.6	81.9	91.1	100.1
17	3.2	7.2	13.5	19.4	25.1	36.2	46.9	57.3	67.5	77.6	87.5	97.2	106.9
18	3.4	7.7	14.3	20.6	26.7	38.5	49.9	60.9	71.8	82.5	93.0	103.4	113.7
19	3.6	8.1	15.2	21.9	28.3	40.8	52.8	64.6	76.1	87.5	98.6	109.6	120.6
20	3.8	8.6	16.0	23.1	29.9	43.1	55.9	68.3	80.5	92.4	104.2	115.9	127.4
21	4.0	9.1	16.9	24.4	31.6	45.4	58.9	72.0	84.8	97.4	109.9	122.2	134.3
22	4.2	9.5	17.8	25.6	33.2	47.8	61.9	75.7	89.2	102.5	115.5	128.5	141.2
24	4.6	10.5	19.5	28.1	36.4	52.5	68.0	83.1	98.0	112.5	126.9	141.1	155.2
26	5.0	11.4	21.3	30.7	39.7	57.2	74.2	90.7	106.8	122.7	138.4	153.9	169.2
30	5.8	13.3	24.9	35.8	46.4	66.8	86.6	105.8	124.7	143.2	161.5	179.6	197.4
32	6.3	14.3	26.6	38.4	49.7	71.6	92.8	113.4	133.7	153.6	173.2	192.5	211.7
35	6.9	15.7	29.4	42.3	54.8	78.9	102.2	125.0	147.2	169.2	190.8	212.1	233.2
40	8.0	18.2	33.9	48.8	63.3	91.2	118.1	144.4	170.1	195.4	220.4	245.0	269.4

MAXIMUM KILOWATT RATING OF SUPER 140

No. of Teeth Smalll Spkt.	Maximum R.P.M.-Small Sprocket												
	10	25	50	100	150	200	250	300	350	400	450	500	550
	Lubrication System												
	A		B			C							
13	3.4	7.8	14.6	27.3	39.3	50.9	62.2	73.3	84.2	95.0	97.4	83.2	72.1
14	3.7	8.5	15.8	29.5	42.6	55.1	67.4	79.4	91.2	102.9	108.9	93.0	80.6
15	4.0	9.1	17.1	31.8	45.8	59.4	72.6	85.6	98.3	110.8	120.8	103.1	89.4
16	4.3	9.8	18.3	34.1	49.2	63.7	77.8	91.7	105.4	118.8	132.1	113.6	98.5
17	4.6	10.5	19.5	36.4	52.5	68.0	83.1	97.9	112.5	126.9	141.1	124.4	107.8
18	4.9	11.1	20.8	38.8	55.8	72.3	88.4	104.2	119.7	135.0	150.1	135.5	117.5
19	5.2	11.8	22.0	41.1	59.2	76.7	93.7	110.4	126.9	143.1	159.1	147.0	127.4
20	5.5	12.5	23.3	43.4	62.6	81.0	99.1	116.7	134.1	151.2	168.1	158.7	137.6
21	5.8	13.1	24.5	45.8	65.9	85.4	104.4	123.0	141.4	159.4	177.2	170.8	148.0
22	6.1	13.8	25.8	48.1	69.3	89.8	109.8	129.4	148.6	167.6	186.4	183.1	158.7
24	6.7	15.2	28.3	52.9	76.2	98.7	120.6	142.1	163.3	184.1	204.7	208.7	180.9
26	7.3	16.6	30.9	57.7	83.0	107.6	131.5	155.0	178.0	200.8	223.2	235.3	204.0
30	8.5	19.3	36.1	67.3	96.9	125.6	153.5	180.9	207.8	234.3	260.5	286.4	252.8
32	9.1	20.7	38.7	72.1	103.9	134.6	164.6	193.9	222.8	251.2	279.3	307.1	278.5
35	10.0	22.8	42.6	79.5	114.5	148.3	181.3	213.6	245.4	276.8	307.7	338.3	318.5
40	11.6	26.4	49.2	91.8	132.2	171.3	209.4	246.8	283.5	319.7	355.4	390.8	425.8

MAXIMUM KILOWATT RATING OF SUPER 160

No. of Teeth Smalll Spkt.	Maximum R.P.M.-Small Sprocket												
	10	15	25	40	50	80	100	150	200	250	300	350	400
	Lubrication System												
	A		B					C					
13	4.7	6.8	10.8	16.5	20.2	30.8	37.7	54.2	70.3	85.9	101.2	116.3	131.1
14	5.1	7.4	11.7	17.9	21.9	33.4	40.8	58.8	76.1	93.1	109.7	126.0	142.1
15	5.5	8.0	12.6	19.3	23.6	36.0	44.0	63.3	82.0	100.3	118.1	135.7	153.0
16	5.9	8.5	13.5	20.7	25.3	38.5	47.1	67.9	87.9	107.5	126.7	145.5	164.1
17	6.3	9.1	14.4	22.1	27.0	41.2	50.3	72.5	93.9	114.8	135.2	155.4	175.2
18	6.7	9.7	15.4	23.5	28.7	43.8	53.5	77.1	99.9	122.1	143.8	165.3	186.4
19	7.1	10.3	16.3	24.9	30.4	46.4	56.7	81.7	105.9	129.4	152.5	175.2	197.6
20	7.5	10.9	17.2	26.3	32.1	49.1	60.0	86.4	111.9	136.8	161.2	185.2	208.8
21	8.0	11.5	18.2	27.7	33.9	51.7	63.2	91.0	118.0	144.2	169.9	195.2	220.1
22	8.4	12.1	19.1	29.1	35.6	54.4	66.5	95.7	124.0	151.6	178.7	205.2	231.5
24	9.2	13.2	21.0	32.0	39.1	59.7	73.0	105.2	136.3	166.6	196.3	225.5	254.3
26	10.0	14.4	22.9	34.9	42.7	65.1	79.6	114.7	148.6	181.6	214.0	245.8	277.2
30	11.7	16.8	26.7	40.7	49.8	76.0	92.9	133.8	173.4	211.9	249.7	286.9	323.5
32	12.5	18.1	28.6	43.7	53.4	81.5	99.6	143.5	185.9	227.2	267.8	307.6	346.9
35	13.8	19.9	31.5	48.1	58.8	89.8	109.7	158.1	204.8	250.3	295.0	338.9	382.2
40	16.0	23.0	36.4	55.6	67.9	103.7	126.8	182.6	236.6	289.2	340.7	391.4	441.4

MAXIMUM KILOWATT RATING OF SUPER 200

No. of Teeth Smalll Spkt.	Maximum R.P.M.-Small Sprocket												
	5	10	15	20	30	40	50	60	80	100	150	200	250
	Lubrication System												
	A		B						C				
13	5.4	10.1	14.6	18.9	27.2	35.3	43.2	50.8	65.9	80.5	116.0	150.3	183.7
14	5.9	11.0	15.8	20.5	29.5	38.2	46.7	55.1	71.4	87.2	125.7	162.8	199.0
15	6.3	11.8	17.0	22.1	31.8	41.2	50.4	59.3	76.9	94.0	135.4	175.4	214.4
16	6.8	12.7	18.3	23.7	34.1	44.2	54.0	63.6	82.4	100.8	145.1	188.0	229.9
17	7.3	13.5	19.5	25.3	36.4	47.2	57.7	67.9	88.0	107.6	155.0	200.8	245.4
18	7.7	14.4	20.8	26.9	38.7	50.2	61.3	72.3	93.6	114.4	164.8	213.5	261.0
19	8.2	15.3	22.0	28.5	41.1	53.2	65.0	76.6	99.2	121.3	174.7	226.4	276.7
20	8.7	16.1	23.3	30.1	43.4	56.2	68.7	81.0	104.9	128.2	184.7	239.3	292.5
21	9.1	17.0	24.5	31.8	45.7	59.3	72.4	85.4	110.6	135.2	194.7	252.2	308.3
22	9.6	17.9	25.8	33.4	48.1	62.3	76.2	89.7	116.3	142.1	204.7	265.2	324.2
24	10.5	19.7	28.3	36.7	52.8	68.4	83.7	98.6	127.7	156.1	224.9	291.4	356.2
26	11.5	21.4	30.9	40.0	57.6	74.6	91.2	107.5	139.3	170.2	245.2	317.7	388.3
30	13.4	25.0	36.0	46.7	67.2	87.1	106.5	125.5	162.5	198.7	286.2	370.8	453.2
32	14.4	26.8	38.6	50.0	72.1	93.4	114.2	134.5	174.3	213.0	306.8	397.5	485.9
35	15.8	29.5	42.6	55.1	79.4	102.9	125.8	148.2	192.0	234.7	338.0	437.9	535.3
40	18.3	34.1	49.2	63.7	91.7	118.8	145.3	171.2	221.8	271.1	390.5	505.9	618.4

Conversion Tables

(To convert from A to B, multiply by entry in table)

Length

A \ B	in	**ft**	micron (μm)	**mm**	cm	**m**
in	1	**0.0833**	2.54x10 ^{4}	**25.4**	2.54	**0.0254**
ft	12	**1**	3.048x10 ^{5}	**304.8**	30.48	**0.3048**
micron (μm)	3.937x10 $^{-7}$	**3.281x10** $^{-6}$	1	**0.001**	1.0x10 $^{-4}$	**1.0x10** $^{-6}$
mm	0.03937	**0.00328**	1000	**1**	0.1	**0.001**
cm	0.3937	**0.03281**	1.0x10 ^{4}	**10**	1	**0.01**
m	39.37	**3.281**	1.0x10 ^{6}	**1000**	100	**1**

Mass

A \ B	gm	**kg**	slug	**lb(m)**	oz(m)
gm	1	**.001**	6.852x10 $^{-5}$	**2.205x10** $^{-3}$	.03527
kg	1000	**1**	6.852x10 $^{-2}$	**2.205**	35.274
slug	14590	**14.59**	1	**32.2**	514.72
lb(m)	453.6	**.45359**	.0311	**1**	16
oz(m)	28.35	**.02835**	1.94x10 $^{-3}$	**.0625**	1

Force

A \ B	lb(f)	**N**	dyne	**oz(f)**	kg(f)	**gm(f)**
lb(f)	1	**4.4482**	4.448 x 10 ^{5}	**16**	.45359	**453.6**
N	.22481	**1**	100.000	**3.5967**	.10197	**ÑÑ**
dyne	2.248 x10 $^{-6}$	**.00001**	1	**3.59x10** $^{-5}$	ÑÑ	**980.6**
oz(f)	.0625	**.27801**	2.78x10 ^{4}	**1**	.02835	**28.35**
kg(f)	2.205	**9.80665**	ÑÑ	**35.274**	1	**1000**
gm(f)	2.205x10 $^{-3}$	**ÑÑ**	1.02x10 $^{-3}$	**.03527**	.001	**1**

Note: lb(f) = 1slug x 1 ft/s² N = 1kg x 1 m/s² dyne = 1gm x 1 cm/s²

Inertia (Rotary)

A \ B	gm-cm^2	**oz-in^2**	gm-cm-s^2	**kg-cm^2**	lb-in^2	**oz-in-s^2**	lb-ft^2	**kg-cm-s^2**	lb-in-s^2	**lb-ft-s^2 or slug-ft-s^2**
gm-cm^2	1	**5.46x10^{-2}**	1.01x10^{-3}	**10^{-3}**	3.417x10^{-4}	**1.41x10^{-5}**	2.37x10^{-6}	**1.01x10^{-4}**	8.85x10^{-7}	**7.37x10^{-4}**
oz-in^2	182.9	**1**	.186	**.182**	.0625	**2.59x10^{-3}**	4.34x10^{-4}	**1.86x10^{-4}**	1.61x10^{-4}	**1.34x10^{-5}**
gm-cm-s^2	980.6	**5.36**	1	**.9806**	.335	**1.38x10^{-2}**	2.32x10^{-3}	**10^{-3}**	8.67x10^{-4}	**7.23x10^{-5}**
kg-cm^2	1000	**5.46**	1.019	**1**	.3417	**1.41x10^{-2}**	2.37x10^{-3}	**1.019x10^{-3}**	8.85x10^{-4}	**7.37x10^{-5}**
lb-in^2	2.92x10^{3}	**16**	2.984	**2.925**	1	**4.14x10^{-2}**	6.94x10^{-3}	**2.96x10^{-3}**	2.59x10^{-3}	**2.15x10^{-4}**
oz-in-s^2	7.06x10^{4}	**386.08**	72.0	**70.615**	24.13	**1**	.1675	**7.20x10^{-2}**	6.25x10^{-2}	**5.20x10^{-3}**
lb-ft^2	4.21x10^{5}	**2304**	429.71	**421.40**	144	**5.967**	1	**.4297**	.3729	**3.10x10^{-2}**
kg-cm-s^2	9.8x10^{5}	**5.36x10^{3}**	1000	**980.66**	335.1	**13.887**	2.327	**1**	.8679	**7.23x10^{-2}**
lb-in-s^2	1.129x10^{4}	**6.177x10^{3}**	1.152x10^{3}	**1.129x10^{3}**	386.08	**16**	2.681	**1.152**	1	**8.33x10^{-2}**
lb-ft-s^2 or **slug-ft^2**	1.355x10^{7}	**7.41x10^{4}**	1.38x10^{4}	**1.35x10^{4}**	4.63x10^{3}	**192**	32.17	**13.825**	12	**1**

Abbreviated Terms

C	=	Celsius	lb(f)	=	pound force
cm	=	centimeter	lb(m)	=	pound mass
F	=	Fahrenheit	min	=	minute
ft	=	foot	mm	=	millimeter
g	=	gravity	m	=	meter
gm	=	gram	N	=	Newton
gm(f)	=	gram force	oz(f)	=	ounce force
HP	=	Horse Power	oz(m)	=	ounce mass
in	=	inch	rad	=	radians
kg	=	kilogram	rpm	=	revs per minute
kg(f)	=	kilogram force	rps	=	revs per second
KW	=	Kilowatt	s	=	seconds

Metric Prefixes

Name	Abbreviation		Multiple
Giga	G	10^{9}	1,000,000,000
Mega	M	10^{6}	1,000,000
Kilo	k	10^{3}	1,000
Hecto	h	10^{2}	100
deka	da	10^{1}	10
—	—	10^{0}	1
deci	d	10^{-1}	.1
centi	c	10^{-2}	.01
milli	m	10^{-3}	.001
micro	μ	10^{-6}	.000001
nano	n	10^{-9}	.000000001

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