Tensional Sprockets

NSPT series of engineered conveying sprockets, such as double pitch sprockets, double single sprockets, welding sprockets and hubs are suitable for transmission devices that are of advanced quality and comprehensive types.



The veteran engineers from NSPT can provide customers with professional technical support as well as give them suggestions on OEM products manufacturing, according to their requests.

Meanwhile, NSPT supplies various engineered conveying chains that are suitable to those sprockets.

Tensional Sprockets

NSPT elite series of engineered conveying sprockets



Standard Double Single (DS) sprockets, special DS sprockets, various bores with different precision degrees and shapes based on customers' installation needs.



Weldable plate wheels and weldable hubs used on agricultural mechanisms.



Engineered conveying sprockets with big pitches made of high quality steel, fine milled teeth with high transmission precision.



Various engineered conveying sprockets are made of stainless steel (US304)

NSPT provides services such as designing and manufacturing non-standard engineered conveying sprockets with technical supports. We can also design transmission device sets or components according to special customer requests.

The cost accountants from NSPT can give suggestions to customers on how to save costs to the maximum degree while achieving high quality.



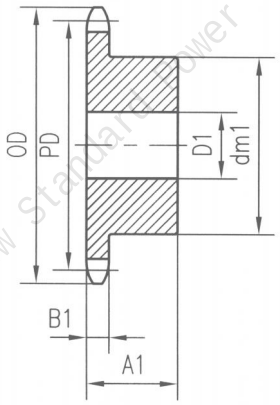
Engineered conveying sprockets made by CNC machining center.

Stainless steel Sprockets

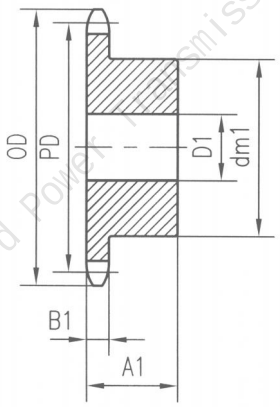
SUS304

25-1 FOR 1/4" PITCH

NO. Teeth	Catalog NO.	OD	Bore		Hub		wt Lbs
			Stock	Max	dm1	A1	
9	SS25B9	.837	1/4	1/4	7/16	1/2	0.03
10	SS25B10	.919	1/4	1/4	1/2	1/2	0.03
11	SS25B11	1.002	1/4	5/16	9/16	1/2	0.03
12	SS25B12	1.083	1/4	3/8	5/8	1/2	0.06
13	SS25B13	1.167	1/4	7/16	23/32	1/2	0.07
14	SS25B14	1.246	1/4	9/16	13/16	1/2	0.08
15	SS25B15	1.326	1/4	9/16	57/64	1/2	0.10
16	SS25B16	1.407	1/4	9/16	31/32	1/2	0.12
17	SS25B17	1.487	1/4	5/8	1 1/32	1/2	0.14
18	SS25B18	1.568	1/4	3/4	1 1/8	1/2	0.16
19	SS25B19	1.648	1/4	13/16	1 7/32	1/2	0.19
20	SS25B20	1.729	1/4	7/8	1 9/32	5/8	0.25
21	SS25B21	1.809	1/4	7/8	1 3/8	5/8	0.28
22	SS25B22	1.889	1/4	15/16	1 7/16	5/8	0.31
23	SS25B23	1.969	1/4	1	1 1/2	5/8	0.32
24	SS25B24	2.049	3/8	1	1 1/2	5/8	0.33
25	SS25B25	2.129	3/8	1	1 1/2	5/8	0.34
26	SS25B26	2.209	3/8	1	1 1/2	5/8	0.35
28	SS25B28	2.369	3/8	1	1 1/2	5/8	0.36
30	SS25B30	2.529	3/8	1	1 1/2	5/8	0.38
36	SS25B36	3.008	3/8	1	1 1/2	3/4	0.50
40	SS25B40	3.327	1/2	1 3/8	2	3/4	0.53



35-1 FOR 3/8" PITCH



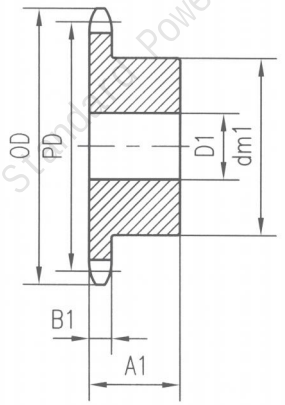
NO. Teeth	Catalog NO.	OD	Bore		Hub		wt Lbs
			Stock	Max	dm1	A1	
9	SS35B9	1.26	3/8	3/8	27/32	3/4	0.10
10	SS35B10	1.38	3/8	9/16	31/32	3/4	0.15
11	SS35B11	1.50	3/8	9/16	1 1/16	3/4	0.20
12	SS35B12	1.63	1/2	5/8	1 7/32	3/4	0.22
13	SS35B13	1.75	1/2	3/4	1 1/4	3/4	0.25
14	SS35B14	1.87	1/2	7/8	1 1/4	3/4	0.26
15	SS35B15	1.99	1/2	7/8	1 11/32	3/4	0.30
16	SS35B16	2.11	1/2	15/16	1 15/32	3/4	0.40
17	SS35B17	2.23	1/2	1 1/16	1 19/32	3/4	0.43
18	SS35B18	2.35	1/2	1 3/16	1 23/32	3/4	0.50
19	SS35B19	2.47	1/2	1 1/4	1 27/32	3/4	0.56
20	SS35B20	2.59	1/2	1 5/16	1 15/16	3/4	0.68
21	SS35B21	2.71	1/2	1 3/8	2	7/8	0.80
22	SS35B22	2.83	1/2	1 3/8	2	7/8	0.82
23	SS35B23	2.95	1/2	1 3/8	2	7/8	0.87
24	SS35B24	3.07	1/2	1 3/8	2	7/8	0.89
25	SS35B25	3.19	1/2	1 3/8	2	7/8	0.91
26	SS35B26	3.31	1/2	1 3/8	2	7/8	0.93
28	SS35B28	3.55	1/2	1 3/8	2	7/8	1.00
30	SS35B30	3.79	1/2	1 3/8	2	7/8	1.00
36	SS35B36	4.51	5/8	1 1/2	2 1/4	7/8	1.56
40	SS35B40	4.99	5/8	1 1/2	2 1/4	1	1.70

Stainless steel Sprockets

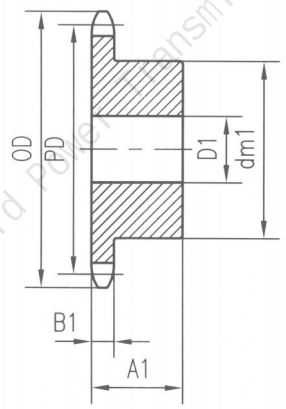
SUS304

40-1 FOR 1/2" PITCH

NO. Teeth	Catalog NO.	O.D.	Bore		Hub		wt Lbs
			Stock	Max	dm1	A1	
10	SS40B10	1.84	1/2	3/4	1 1/4	7/8	0.28
11	SS40B11	2.00	1/2	13/16	1 3/8	7/8	0.36
12	SS40B12	2.17	1/2	15/16	1 9/16	7/8	0.44
13	SS40B13	2.33	1/2	1 1/16	1 9/16	7/8	0.50
14	SS40B14	2.49	1/2	1 1/8	1 11/16	7/8	0.60
15	SS40B15	2.65	5/8	1 1/4	1 13/16	7/8	0.68
16	SS40B16	2.81	5/8	1 3/8	2	7/8	0.82
17	SS40B17	2.98	5/8	1 7/16	2 1/8	1	1.06
18	SS40B18	3.14	5/8	1 1/2	2 5/16	1	1.24
19	SS40B19	3.30	5/8	1 3/4	2 1/2	1	1.42
20	SS40B20	3.46	5/8	1 7/8	2 5/8	1	1.60
21	SS40B21	3.62	5/8	1 7/8	2 3/4	1	1.68
22	SS40B22	3.78	5/8	1 7/8	2 7/8	1	1.81
23	SS40B23	3.94	5/8	2	3	1	2.18
24	SS40B24	4.10	5/8	2 1/4	3 1/4	1	2.20
25	SS40B25	4.26	5/8	2 1/4	3 1/4	1	2.34
26	SS40B26	4.42	5/8	2 1/4	3 1/4	1	2.40
28	SS40B28	4.74	5/8	2 1/4	3 1/4	1	2.75
30	SS40B30	5.06	5/8	2 1/4	3 1/4	1	2.88
35	SS40B35	5.86	5/8	2 1/4	3 1/4	1	3.32
40	SS40B40	6.65	3/4	2 3/8	3 1/2	1	4.28



50-1 FOR 1/2" PITCH



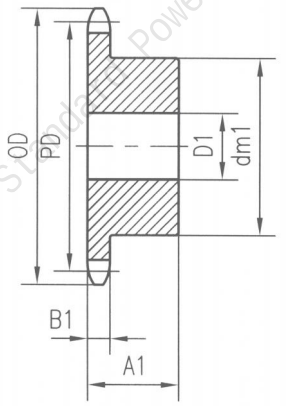
NO. Teeth	Catalog NO.	O.D.	Bore		Hub		wt Lbs
			Stock	Max	dm1	A1	
10	SS50B10	2.30	5/8	7/8	1 9/16	1	0.50
11	SS50B11	2.50	5/8	1	1 3/4	1	0.60
12	SS50B12	2.71	5/8	1 1/4	1 63/64	1	0.70
13	SS50B13	2.91	5/8	1 5/16	1 7/8	1	0.80
14	SS50B14	3.11	5/8	1 7/16	2 1/8	1	1.0
15	SS50B15	3.32	5/8	1 1/2	2 3/8	1	1.3
16	SS50B16	3.52	5/8	1 3/4	2 1/2	1	1.5
17	SS50B17	3.72	5/8	1 7/8	2 11/16	1	1.8
18	SS50B18	3.92	5/8	1 7/8	2 7/8	1	2.0
19	SS50B19	4.12	5/8	1 3/4	2 1/2	1	2.3
20	SS50B20	4.32	3/4	1 3/4	2 1/2	1	2.5
21	SS50B21	4.52	3/4	2	3	1	2.7
22	SS50B22	4.72	3/4	2	3	1	3.3
23	SS50B23	4.92	3/4	2	3	1	3.8
24	SS50B24	5.12	3/4	2	3	1 1/4	4.1
25	SS50B25	5.32	3/4	2	3	1 1/4	4.3
26	SS50B26	5.52	3/4	2	3	1 1/4	4.6
28	SS50B28	5.92	3/4	2	3	1 1/4	5.0
30	SS50B30	6.32	3/4	2 1/4	3 1/4	1 1/4	5.2
35	SS50B35	7.32	3/4	2 1/4	3 1/4	1 1/4	6.5
40	SS50B40	8.32	3/4	2 1/4	3 1/4	1 1/4	7.8

Stainless steel Sprockets

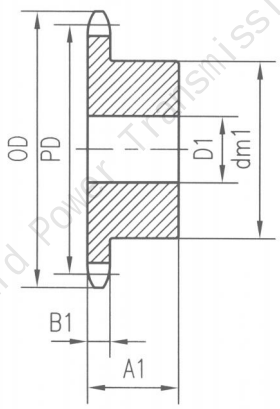
SUS304

60-1 FOR 3/4" PITCH

NO. Teeth	Catalog NO.	O.D.	Bore		Hub		wt Lbs
			Stock	Max	dm1	A1	
12	SS60B12	3.25	3/4	1 3/8	2 3/8	1 1/4	1.5
13	SS60B13	3.49	3/4	1 1/2	2 11/32	1 1/4	1.8
14	SS60B14	3.74	3/4	1 3/4	2 9/16	1 1/4	2.0
15	SS60B15	3.98	3/4	1 7/8	2 7/8	1 1/4	2.4
16	SS60B16	4.22	3/4	2	3 1/16	1 1/4	2.8
17	SS60B17	4.47	3/4	2 1/4	3 1/4	1 1/4	3.3
18	SS60B18	4.70	3/4	2 3/8	3 1/2	1 1/4	3.8
19	SS60B19	4.95	3/4	2 3/8	3 1/2	1 1/4	4.0
20	SS60B20	5.19	3/4	2 5/8	3 7/8	1 1/4	4.6
21	SS60B21	5.43	3/4	2 3/4	4	1 1/4	5.0
22	SS60B22	5.67	3/4	2 3/4	4	1 1/4	5.3
23	SS60B23	5.91	3/4	2 3/4	4	1 1/4	5.7
24	SS60B24	6.15	3/4	2 3/4	4	1 1/4	5.9
25	SS60B25	6.39	3/4	2 3/4	4	1 1/4	6.1
26	SS60B26	6.63	3/4	2 3/4	4	1 1/4	6.3
28	SS60B28	7.11	3/4	2 3/4	4	1 1/4	6.7
30	SS60B30	7.59	3/4	2 3/4	4	1 1/4	7.0
35	SS60B35	8.78	1	2 3/4	4	1 1/4	9.0
40	SS60B40	9.98	1	2 3/4	4 1/4	1 1/4	11.7



80-1 FOR 1" PITCH



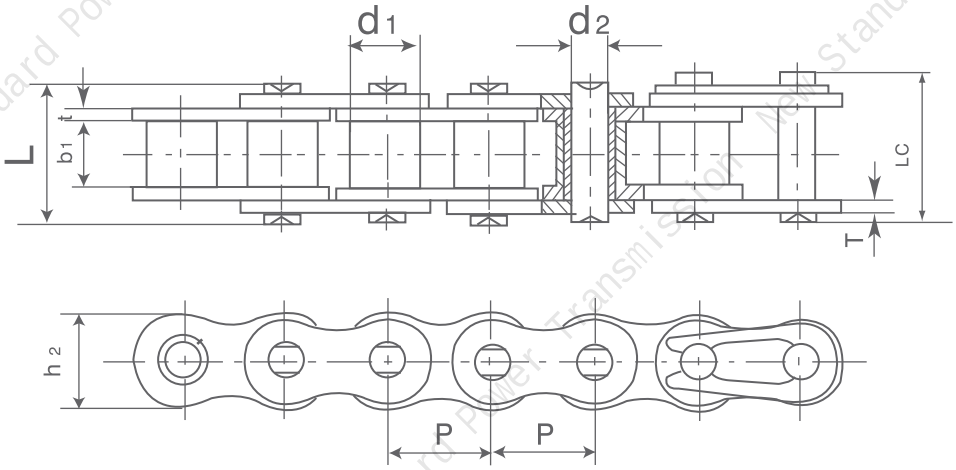
NO. Teeth	Catalog NO.	O.D.	Bore		Hub		wt Lbs
			Stock	Max	dm1	A1	
12	SS80B12	4.33	1	1 7/8	3 1/8	1 5/8	3.4
13	SS80B13	4.66	1	2	3	1 1/2	3.5
14	SS80B14	4.98	1	2 1/4	3 1/4	1 1/2	4.1
15	SS80B15	5.30	1	2 1/2	3 13/16	1 1/2	5.3
16	SS80B16	5.63	1	2 3/4	4	1 1/2	5.9
17	SS80B17	5.95	1	2 3/4	4	1 1/2	6.6
18	SS80B18	6.27	1	2 3/4	4 1/4	1 1/2	7.3
19	SS80B19	6.59	1	2 3/4	4 1/4	1 1/2	7.8
20	SS80B20	6.91	1	2 3/4	4 1/4	1 1/2	8.4
21	SS80B21	7.24	1	2 3/4	4 1/4	1 3/4	9.4
22	SS80B22	7.56	1	2 3/4	4 1/4	1 3/4	10.0
23	SS80B23	7.88	1	2 3/4	4 1/4	1 3/4	10.7
24	SS80B24	8.20	1	2 3/4	4 1/4	1 3/4	11.3
25	SS80B25	8.52	1	2 3/4	4 1/4	1 3/4	11.9
26	SS80B26	8.84	1 1/4	3 1/4	4 3/4	2	14.3
28	SS80B28	9.48	1 1/4	3 1/4	4 3/4	2	16.0
30	SS80B30	10.11	1 3/16	3 1/4	4 3/4	2	17.1

Sprockets - Chain

ANSI B29.1-86

Stainless steel chains are suitable for corrosive conditions involving food,chemicals, pharmaceuticals,etc. It is also suitable for high and low temperature conditions.





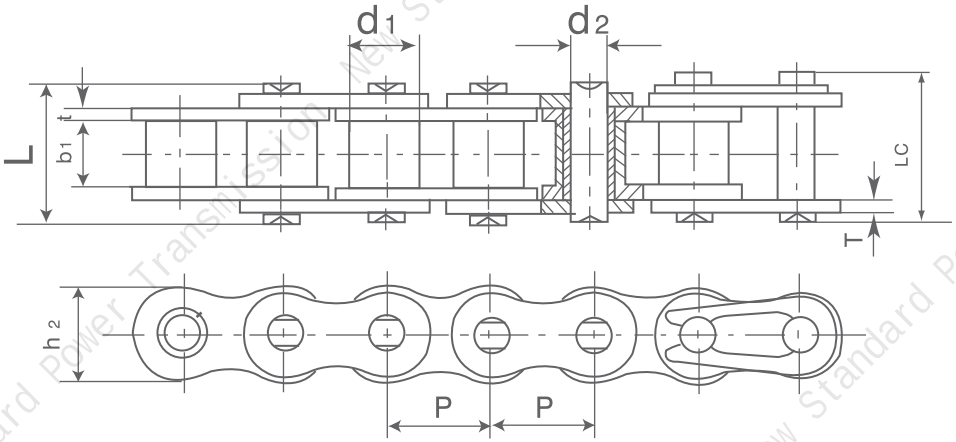
Stainless Steel Chains

Chain No.	Pitch	Roller Diameter	Width Between Inner Plates	Pin Diameter	Pin Length		Inner Plate Depth	Plate Thickness	Ultimate Tensile Strength	Average Tensile Strength	Weight Per Meter
	P	d_1 max	b_1 min	d_2 max	L max	Lc max	h_2 max	t/T max	Q min	Q_0	q
	mm	mm	mm	mm	mm	mm	mm	mm	kN	kN	kg/m
*35SS	9.525	5.08	4.77	3.58	12.4	13.17	9.0	1.3	5.5	6.6	0.33
40SS	12.7	7.95	7.85	3.96	16.6	17.8	12.0	1.5	9.7	11.6	0.63
50SS	15.875	10.16	9.40	5.08	20.7	22.2	15.09	2.03	15.3	18.5	1.03
60SS	19.05	11.91	12.57	5.94	25.9	27.7	18.0	2.42	21.8	26.4	1.51
80SS	25.4	15.88	15.75	7.92	32.7	35.0	24.0	3.25	38.9	46.6	2.62
100S	31.75	19.05	18.90	9.53	40.4	44.7	30.0	4.0	59.0	70.2	3.94

*Bushing chain: d_1 in the table indicates the external diameter of the bushing.

Sprockets - Chain

ANSI B29.1-86



Nickle-Plated Chains

Chain No.	Pitch	Roller Diameter	Width Between Inner Plates	Pin Diameter	Pin Length		Inner Plate Depth	Plate Thickness	Ultimate Tensile Strength	Average Tensile Strength	Weight Per Meter
	P	d_1 max	b_1 min	d_2 max	L max	Lc max	h_2 max	t/T max	Q min	Q_0	q
	mm	mm	mm	mm	mm	mm	mm	mm	kN	kN	kg/m
*25NP	6.35	3.30	3.18	2.31	7.9	8.4	6.0	0.8	3.5	4.4	0.15
*35NP	9.525	5.08	4.77	3.58	12.4	13.17	9.0	1.3	7.9	9.8	0.33
41NP	12.7	7.77	6.25	3.58	12.4	13.17	9.0	1.3	7.9	9.8	0.33
40NP	12.7	7.95	7.85	3.96	16.6	17.8	12.0	1.5	14.1	17.0	0.62
50NP	15.875	10.16	9.40	5.08	20.7	22.2	15.09	2.03	22.2	26.4	1.02
60NP	19.05	11.91	12.57	5.94	25.9	27.7	18.0	2.42	31.8	38.8	1.50
80NP	25.4	15.88	15.75	7.92	32.7	35.0	24.0	3.25	56.7	64.9	2.60
100NP	31.75	19.05	18.90	9.53	40.4	44.7	30.0	4.0	88.5	101.8	3.91

Zinc-Plated Chains

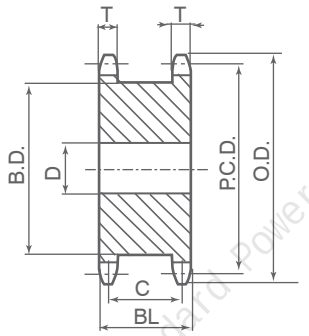
Chain No.	Pitch	Roller Diameter	Width Between Inner Plates	Pin Diameter	Pin Length		Inner Plate Depth	Plate Thickness	Ultimate Tensile Strength	Average Tensile Strength	Weight Per Meter
	P	d_1 max	b_1 min	d_2 max	L max	Lc max	h_2 max	t/T max	Q min	Q_0	q
	mm	mm	mm	mm	mm	mm	mm	mm	kN	kN	kg/m
*25ZP	6.35	3.30	3.18	2.31	7.9	8.4	6.0	0.8	3.5	4.4	0.15
*35ZP	9.525	5.08	4.77	3.58	12.4	13.17	9.0	1.3	7.9	9.8	0.33
41ZP	12.7	7.77	6.25	3.58	12.4	13.17	9.0	1.3	7.9	9.8	0.33
40ZP	12.7	7.95	7.85	3.96	16.6	17.8	12.0	1.5	14.1	17.0	0.62
50ZP	15.875	10.16	9.40	5.08	20.7	22.2	15.09	2.03	22.2	26.4	1.02
60ZP	19.05	11.91	12.57	5.94	25.9	27.7	18.0	2.42	31.8	38.8	1.50
80ZP	25.4	15.88	15.75	7.92	32.7	35.0	24.0	3.25	56.7	64.9	2.60
100ZP	31.75	19.05	18.90	9.53	40.4	44.7	30.0	4.0	88.5	101.8	3.91

*Bushing chain: d_1 in the table indicate the external diameter of the bushing.
Note: Double strand zinc plated chains are available in all sizes except 41 chain.
Double pitch zinc plated conveyor chains are available upon request.

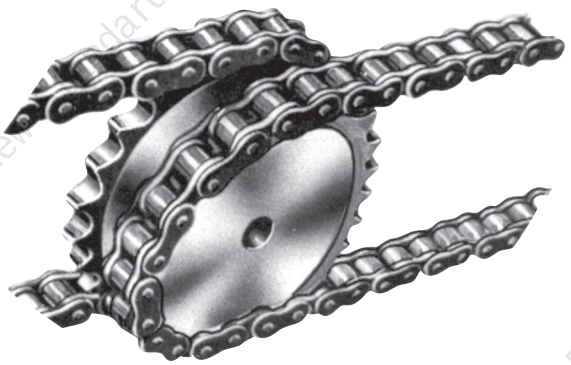
Double Single Sprockets

Standard Bore

NSPT Standard Type A Double Single Sprockets are designed to be used with two single strand chains. The sprockets are made of carbon steel (SAE 1040) and hardened teeth. The maximum bore diameters shown below are based on general operating conditions using standard keys and key tapping procedure. Actual bore diameter should be determined using common machine design considerations. Key surface pressure should be checked on the same basis.



ISO/R 606 ANSI B 29.1



DS60-SB FOR 3/4" PITCH

Z	O.D	P.C.D	C	D	BD	BL
12	3.25	2.898	1.479	0.75	2.008	1.938
13	3.49	3.134		0.75	2.344	
14	3.74	3.371		0.75	2.563	
15	3.98	3.607		0.75	2.875	
16	4.22	3.844		0.75	3.047	
17	4.46	4.082		0.75	3.25	
18	4.70	4.319		0.75	3.5	
19	4.95	4.557		0.75	3.701	
20	5.19	4.794		0.75	3.953	
21	5.43	5.032		0.75	4.188	

DS40-SB FOR 1/2" PITCH

Z	O.D	P.C.D	C	D	BD	BL
12	2.17	1.932	1.122	0.43	1.339	1.406
13	2.33	2.089		0.55	1.496	
14	2.49	2.247		0.55	1.654	
15	2.65	2.405		0.5	1.811	
16	2.81	2.563		0.5	2	
17	2.98	2.721		0.5	2.126	
18	3.14	2.879		0.5	2.313	
19	3.30	3.038		0.625	2.5	
20	3.46	3.196		0.625	2.625	
21	3.62	3.355		0.625	2.781	

DS80-SB FOR 1" PITCH

Z	O.D	P.C.D	C	D	BD	BL
12	4.33	3.864	1.613	1	2.716	2.188
13	4.66	4.178		1	3.016	
14	4.98	4.494		1	3.346	
15	5.3	4.810		1	3.813	
16	5.63	5.126		1	4	
17	5.95	5.442		1	4.313	
18	6.27	5.759		1	4.641	
19	6.59	6.076		1	4.953	
20	6.91	6.392		1	5.281	
21	7.24	6.710		1	5.594	

DS50-SB FOR 5/8" PITCH

Z	O.D	P.C.D	C	D	BD	BL
12	2.72	2.415	1.313	0.59	1.339	1.656
13	2.91	2.612		0.59	1.496	
14	3.11	2.809		0.59	1.654	
15	3.32	3.006		0.625	1.811	
16	3.52	3.204		0.625	2	
17	3.72	3.401		0.625	2.126	
18	3.92	3.599		0.625	2.313	
19	4.12	3.797		0.625	2.5	
20	4.32	3.995		0.625	2.625	
21	4.52	4.194		0.625	2.781	

DS100-SB FOR 1 1/4" PITCH

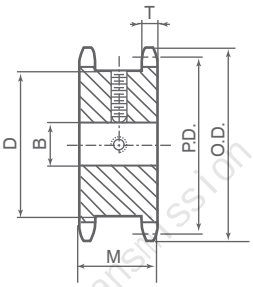
Z	O.D	P.C.D	C	D	BD	BL
12	5.42	4.830	1.995	0.87	3.386	2.688
13	5.82	5.223		1	3.780	
14	6.23	5.618		1 1/4	4.188	
15	6.63	6.012		1 1/4	4.594	
16	7.03	6.407		1 1/4	4.5	
17	7.44	6.803		1 1/4	4.906	
18	7.84	7.199		1 1/4	5.281	
19	8.24	7.594		1 1/4	6.203	
20	8.64	7.990		1 1/4	6.609	
21	9.04	8.387		1 1/4	7	

Double Single Sprockets

No. Teeth	Catalog No.	Diameters			Bore"B"		Dimensions		wt. Lbs.
		O.D	P.D	D	Stock	+Max.	M	T	
DS40-FB FOR 1/2" PITCH									
14	DS40A14	2.49	2.247	1 21/32	5/8	7/8	1 13/32	0.284	1.0
15	DS40A15	2.65	2.405	1 13/16	5/8	1	1 13/32	0.284	1.2
16	DS40A16	2.81	2.563	1 31/32	5/8	1 3/16	1 13/32	0.284	1.4
17	DS40A17	2.96	2.721	2 9/64	5/8	1 5/16	1 13/32	0.284	1.8
18	DS40A18	3.14	2.879	2 5/16	5/8	1 7/16	1 13/32	0.284	1.9
19	DS40A19	3.28	3.038	2 15/32	5/8	1 5/8	1 13/32	0.284	2.3
20	DS40A20	3.46	3.196	2 5/8	5/8	1 3/4	1 13/32	0.284	2.5
21	DS40A21	3.62	3.355	2 25/32	5/8	1 3/4	1 13/32	0.284	2.8
22	DS40A22	3.78	3.513	2 15/16	5/8	1 3/4	1 13/32	0.284	3.0
23	DS40A23	3.94	3.672	3 3/32	5/8	1 3/4	1 13/32	0.284	3.4
24	DS40A24	4.10	3.831	3 17/64	5/8	1 3/4	1 13/32	0.284	3.7
25	DS40A25	4.26	3.989	3 7/16	5/8	1 7/8	1 13/32	0.284	4.1
DS50-FB FOR 5/8" PITCH									
15	DS50A15	3.32	3.006	2 9/32	3/4	1 3/8	1 21/32	0.343	2.3
16	DS50A16	3.52	3.204	2 1/2	3/4	1 5/8	1 21/32	0.343	2.7
17	DS50A17	3.72	3.401	2 11/16	3/4	1 3/4	1 21/32	0.343	3.0
18	DS50A18	3.92	3.599	2 57/64	3/4	1 3/4	1 21/32	0.343	3.6
19	DS50A19	4.12	3.797	3 5/32	3/4	1 3/4	1 21/32	0.343	4.0
20	DS50A20	4.32	3.995	3 9/32	3/4	1 3/4	1 21/32	0.343	4.6
21	DS50A21	4.52	4.194	3 1/2	3/4	2	1 21/32	0.343	5.0
22	DS50A22	4.72	4.392	3 11/16	3/4	2 1/8	1 21/32	0.343	5.7
23	DS50A23	4.92	4.590	3 57/64	3/4	2 3/4	1 21/32	0.343	6.3
24	DS50A24	5.12	4.788	4 3/32	3/4	2 7/16	1 21/32	0.343	6.9
DS60-FB FOR 3/4" PITCH									
13	DS60A13	3.49	3.134	2 1/4	1	1 3/8	1 15/16	0.459	2.7
14	DS60A14	3.74	3.371	2 1/2	1	2	1 15/16	0.459	3.3
15	DS60A15	3.98	3.607	2 3/4	1	1 3/4	1 15/16	0.459	4.0
16	DS60A16	4.22	3.844	2 63/64	1	1 3/4	1 15/16	0.459	4.6
17	DS60A17	4.46	4.082	3 1/4	1	1 3/4	1 15/16	0.459	5.6
18	DS60A18	4.70	4.319	3 15/32	1	2 1/8	1 15/16	0.459	6.1
19	DS60A19	4.95	4.557	3 23/32	1	2 3/16	1 15/16	0.459	7.4
20	DS60A20	5.19	4.794	3 31/32	1	2 9/16	1 15/16	0.459	7.9
21	DS60A21	5.43	5.032	4 13/64	1	2 1/4	1 15/16	0.459	8.5
22	DS60A22	5.67	5.270	4 7/16	1	2 3/4	1 15/16	0.459	9.8
23	DS60A23	5.91	5.508	4 11/16	1	2 3/4	1 15/16	0.459	10.8
24	DS60A24	6.15	5.746	4 59/64	1	2 15/16	1 15/16	0.459	11.9
DS80-FB FOR 1" PITCH									
13	DS80A13	4.66	4.179	3 1/32	1	1 3/4	2 3/16	0.575	6.1
14	DS80A14	4.98	4.494	3 11/32	1	1 13/16	2 3/16	0.575	7.3
15	DS80A15	5.30	4.810	3 21/32	1	2 1/8	2 3/16	0.575	8.6
16	DS80A16	5.63	5.126	4	1	2 3/8	2 3/16	0.575	10.0
17	DS80A17	5.95	5.442	4 21/64	1	2 11/16	2 3/16	0.575	12.0
18	DS80A18	6.27	5.759	4 41/64	1	2 3/4	2 3/16	0.575	13.0
19	DS80A19	6.59	6.076	4 31/32	1	2 15/16	2 3/16	0.575	15.4
20	DS80A20	6.91	6.392	5 9/32	1	3 1/4	2 3/16	0.575	16.5
21	DS80A21	7.24	6.710	5 39/64	1	3 11/16	2 3/16	0.575	18.8
22	DS80A22	7.56	7.027	5 15/16	1	3 7/8	2 3/16	0.575	20.4
23	DS80A23	7.88	7.344	6 1/4	1	4 1/8	2 3/16	0.575	22.4
DS100-FB FOR 1 1/4" PITCH									
13	DS100A13	5.82	5.223	3 25/32	1	2 3/4	2 11/16	0.692	11.9
14	DS100A14	6.23	5.617	4 3/16	1	2 1/2	2 11/16	0.629	14.2
15	DS100A15	6.63	6.012	4 19/32	1	2 3/4	2 11/16	0.629	16.6
16	DS100A16	7.03	6.407	5	1	3	2 11/16	0.692	19.3
17	DS100A17	7.44	6.803	5 15/32	1	3 5/16	2 11/16	0.692	22.1
18	DS100A18	7.84	7.198	5 13/16	1	3 11/16	2 11/16	0.692	25.1
19	DS100A19	8.24	7.595	6 7/32	1	4	2 11/16	0.692	28.4
20	DS100A20	8.64	7.991	6 19/32	1	4 7/16	2 11/16	0.692	31.6
21	DS100A21	9.04	8.387	7	1	4 1/2	2 11/16	0.692	35.0

Finished Bore





DS Type A

Type "A" Double Single sprockets are for use with two single strand chains; (normally one drive chain and one driven chain as on roll case drives or live roller conveyor drives.)

Maximum bores shown will accommodate standard keyway and set screw over keyway. Slightly large bores are possible with no keyway. Shallow keyway or set screws at angle to keyway.

Double Single Sprockets

BTL

Taper Bore

DS40-BTL FOR 1/2" PITCH

Z	O.D	E	BUSHING		L1	C	W	wt with BUSH
			TYPE	Max Bore				
19	3.300	2 1/2	1215	1 1/4	1 13/32	1 1/8	0.284	1.1
20	3.460	2 5/8	1215	1 1/4	1 13/32	1 1/8	0.284	1.3
21	3.620	2 25/32	1615	1 5/8	1 13/32	1 1/8	0.284	1.3
22	3.780	2 15/16	1615	1 5/8	1 13/32	1 1/8	0.284	1.4
23	3.940	3 3/32	1615	1 5/8	1 13/32	1 1/8	0.284	1.5
24	4.100	3 17/64	1615	1 5/8	1 13/32	1 1/8	0.284	1.7

DS50-BTL FOR 5/8" PITCH

Z	O.D	E	BUSHING		L1	C	W	wt with BUSH
			TYPE	Max Bore				
17	3.720	2 11/16	1615	1 5/8	121/32	1 5/16	0.343	1.8
18	3.920	2 57/64	1615	1 5/8	121/32	1 5/16	0.343	2.2
19	4.120	3 5/64	1615	1 5/8	121/32	1 5/16	0.343	2.7
21	4.520	3 15/16	2012	2	121/32	1 5/16	0.343	3.3
22	4.720	3 11/16	2012	2	121/32	1 5/16	0.343	3.5
23	4.920	3 57/64	2012	2	121/32	1 5/16	0.343	3.7
24	5.120	4 5/64	2012	2	121/32	1 5/16	0.343	4.1

DS60-BTL FOR 3/4" PITCH

Z	O.D	E	BUSHING		L1	C	W	wt with BUSH
			TYPE	Max Bore				
17	4.460	37/32	1615	1 5/8	115/16	131/64	0.459	4.5
18	4.700	315/32	2012	2	115/16	131/64	0.459	5.0
19	4.950	345/64	2012	2	115/16	131/64	0.459	5.8
20	5.190	361/64	2517	2 1/2	115/16	131/64	0.459	5.6
21	5.430	43/16	2517	2 1/2	115/16	131/64	0.459	6.4
23	5.910	443/64	2517	2 1/2	115/16	131/64	0.459	7.3
24	6.150	429/32	2517	2 1/2	115/16	131/64	0.459	8.2

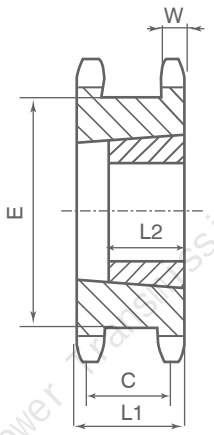
DS80-BTL FOR 1" PITCH

Z	O.D	E	BUSHING		L1	C	W	wt with BUSH
			TYPE	Max Bore				
17	5.950	45/16	2517	2 1/2	2 3/16	1 5/8	0.575	7.6
18	6.270	43/4	2517	2 1/2	2 3/16	1 5/8	0.575	8.7
19	6.590	461/64	3020	3	2 3/16	1 5/8	0.575	9.7
20	6.910	59/32	3020	3	2 3/16	1 5/8	0.575	10.
21	7.240	519/32	3020	3	2 3/16	1 5/8	0.575	12.
22	7.560	515/16	3020	3	2 3/16	1 5/8	0.575	13.
23	7.880	615/64	3020	3	2 3/16	1 5/8	0.575	14.5

DS100-BTL FOR 1 1/4" PITCH

Z	O.D	E	BUSHING		L1	C	W	wt with BUSH
			TYPE	Max Bore				
16	7.030	5	2517	2 1/2	2 11/16	2	0.692	13
17	7.440	5 13/32	3020	3	2 11/16	2	0.692	14
18	7.840	5 51/64	3020	3	2 11/16	2	0.692	16
19	8.240	6 13/64	3020	3	2 11/16	2	0.692	20
20	8.640	6 39/64	3020	3	2 11/16	2	0.692	24
21	9.040	7	3020	3	2 11/16	2	0.692	27.5





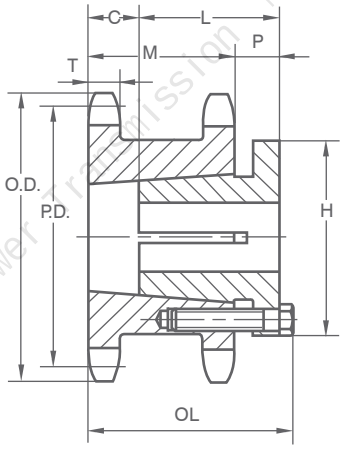
TYPE ATL

TAPER-LOCK

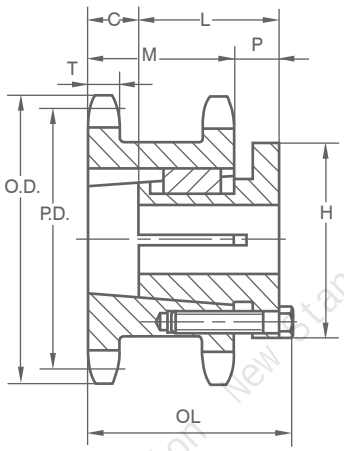
NSPT double-single sprockets are available for chain size No.40 thru 100. Teeth hardened and available as a modification to the reborable types.

Double Single Sprockets STL

Taper Bore



TYPE DS-1

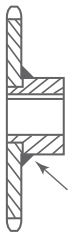


TYPE DS-2

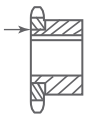
catalog NO.	Diameter		BUSHING	TYPE	Dimensions								wt Less Bushing
	O.D.	P.D.			T	M	OL	L	C	H	G	E	
DS40-STL FOR 1-2" PITCH													
DS40H19	3.28	3.038	H	1	0.284	1 13/32	2 1/32	1 1/4	19/32	2 1/2	7/16	3/16	1.5
DS40H21	3.62	3.355	H	1	0.284	1 13/32	2 1/32	1 1/4	19/32	2 1/2	7/16	3/16	2.0
DS40P23	3.94	3.672	P1	2	0.284	1 13/32	2 9/32	1 15/16	3/32	3	5/8	1/4	2.3
DS40P24	4.10	3.831	P1	2	0.284	1 13/32	2 9/32	1 15/16	3/32	3	5/8	1/4	2.5
DS50-STL FOR 5/8" PITCH													
DS50H17	3.72	3.401	H	1	0.343	1 21/32	2 9/32	1 1/4	27/32	2 1/2	7/16	3/16	2.3
DS50P19	4.12	3.797	P1	2	0.343	1 21/32	2 17/32	1 15/16	11/32	3	5/8	1/4	2.8
DS50P21	4.52	4.194	P1	2	0.343	1 21/32	2 17/32	1 15/16	11/32	3	5/8	1/4	3.8
DS50P23	4.92	4.590	P1	2	0343	1 21/32	2 17/32	1 15/16	11/32	3	5/8	1/4	4.6
DS50P24	5.12	4.788	P1	2	0.343	1 21/32	2 17/32	1 15/16	11/32	3	5/8	1/4	5.0
DS60-STL FOR 3/4" PITCH													
DS60P17	4.46	4.082	P1	2	0.459	1 61/64	2 63/64	1 15/16	41/64	3	5/8	1/4	3.9
DS60P19	4.95	4.557	P1	2	0.459	1 61/64	2 63/64	1 15/16	41/64	3	5/8	1/4	5.3
DS60Q21	5.43	5.032	Q1	2	0.459	1 61/64	2 63/64	2 1/2	13/64	4 1/8	3/4	9/32	5.4
DS60Q22	5.67	5.270	Q1	2	0.459	1 61/64	2 63/64	2 1/2	13/64	4 1/8	3/4	9/32	6.2
DS60Q23	5.91	5.508	Q1	2	0.459	1 61/64	2 63/64	2 1/2	13/64	4 1/8	3/4	9/32	6.9
DS60Q24	6.15	5.746	Q1	2	0.459	1 61/64	2 63/64	2 1/2	13/64	4 1/8	3/4	9/32	7.6
DS80-STL FOR 1" PITCH													
DS80Q17	5.95	5.442	Q1	2	0.575	2 13/64	3 15/64	2 1/2	29/64	4 1/8	3/4	9/32	7.2
DS80Q19	6.59	6.076	Q1	2	0.575	2 13/64	3 15/64	2 1/2	29/64	4 1/8	3/4	9/32	10.5
DS80Q20	6.91	6.392	Q1	2	0.575	2 13/64	3 15/64	2 1/2	29/64	4 1/8	3/4	9/32	12.2
DS80R21	7.24	6.710	R1	2	0.575	2 13/64	3 23/64	2 7/8	13/64	5 3/8	7/8	9/32	10.3
DS80R23	7.88	7.344	R1	2	0.575	2 13/64	3 23/64	2 7/8	13/64	5 3/8	7/8	9/32	13.2
DS100-STL FOR 1 1/4" PITCH													
DS100R17	7.44	6.803	R1	2	0.692	2 11/16	3 27/32	2 7/8	11/16	5 3/8	7/8	9/32	12.5
DS100R19	8.24	7.595	R1	2	0.692	2 11/16	3 27/32	2 7/8	11/16	5 3/8	7/8	9/32	18.8
DS100R21	9.04	8.387	R1	2	0.692	2 11/16	3 27/32	2 7/8	11/16	5 3/8	7/8	9/32	23.1

Weld-on Sprockets

ISO/R 606-ANSI B 29.1

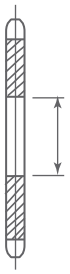


The larger sprockets are to be welded as shown.



The smaller sprockets are to be welded as shown as the weld will not interfere with the chain.





V SERES =1 1/8"
W SERES =1 5/8"
X SERES =2"
XX SERES =2"
Y SERES =2 3/4

We recommend to use Low Hydrogen Electrodes for welding sprocket parts.

No. of Teeth	35	41	40	50	60	80	100	No. of Teeth
	PITCH 3/8"	PITCH 1/2"	PITCH 1/2"	PITCH 5/8"	PITCH 3/4"	PITCH 1"	PITCH 1 1/4"	
9					60V09	80W09		9
10				50V10	60V10	80W10	100X10	10
11				50V11	60W11	80W11	100X11	11
12		41V12	40V12	50W12	60W12	80X12	100X12	12
13		41V13	40V13	50W13	60W13	80X13	100X13	13
14		41V14	40V14	50W14	60W14	80X14	100Y14	14
15	35V15	41V15	40V15	50W15	60X15	80X15	100Y15	15
16	35V16	41W16	40W16	50W16	60X16	80X16	100Y16	16
17	35V17	41W17	40W17	50X17	60X17	80X17	100Y17	17
18	35V18	41W18	40W18	50X18	60X18	80X18	100Y18	18
19	35V19	41W19	40W19	50X19	60X19	80X19	100Y19	19
20	35V20	41W20	40X20	50X20	60X20	80X20	100Y20	20
21	35V21	41W21	40X21	50X21	60X21	80X21	100Y21	21
22	35W22	41W22	40X22	50X22	60X22	80X22	100Y22	22
23	35W23	41W23	40X23	50X23	60X23	80X23	100Y23	23
24	35W24	41W24	40X24	50X24	60X24	80X24	100Y24	24
25	35W25	41W25	40X25	50X25	60X25	80X25	100Y25	25
26	35W26	41W26	40X26	50X26	60X26	80X26	100Y26	26
27	35W27	41W27	40X27	50X27	60X27	80X27		27
28	35W28	41W28	40X28	50X28	60X28	80X28	100Y28	28
29	35W29	41W29	40X29	50X29	60X29	80X29		29
30	35W30	41W30	40X30	50X30	60X30	80X30	100Y30	30
31	35W31	41W31	40X31	50X31	60X31			31
32	35W32	41W32	40X32	50X32	60X32	80X32	100Y32	32
33	35W33	41W33	40X33	50X33	60X33	80X33		33
34	35W34	41W34	40X34	50X34	60X34	80X34		34
35	35W35	41W35	40X35	50X35	60X35	80X35	100Y35	35
36	35W36	41W36	40X36	50X36	60X36	80X36	100Y36	36
37	35W37	41W37	40X37	50X37	60X37			37
38	35W38	41W38	40X38	50X38	60X38			38
39	35W39	41W39	40X39	50X39	60X39			39
40	35W40	41W40	40X40	50X40	60X40	80X40		40
42	35W42	41W42	40X42	50X42	60X42			42
43	35W43	41W43	40X43	50X43	60X43			43
44	35W44	41W44	40X44	50X44	60X44			44
45	35W45	41W45	40X45	50X45	60X45	80X45		45
48	35W48	41W48	40X48	50X48	60X48	80X48		48
50	35W50	41W50	40X50	50X50	60X50			50
54	35W54	41W54	40X54	50X54	60X54			54
60	35W60	41W60	40X60	50X60	60X60	80X60		60
70	35W70	41W70	40X70	50X70	60X70			70
72	35W72	41W72	40X72	50X72	60X72			72
80	35W80	41W80	40X80	50X80	60X80			80
84	35W84	41W84	40X84	50X84	60X84			84
96	35W96	41W96	40X96	50X96	60X96			96

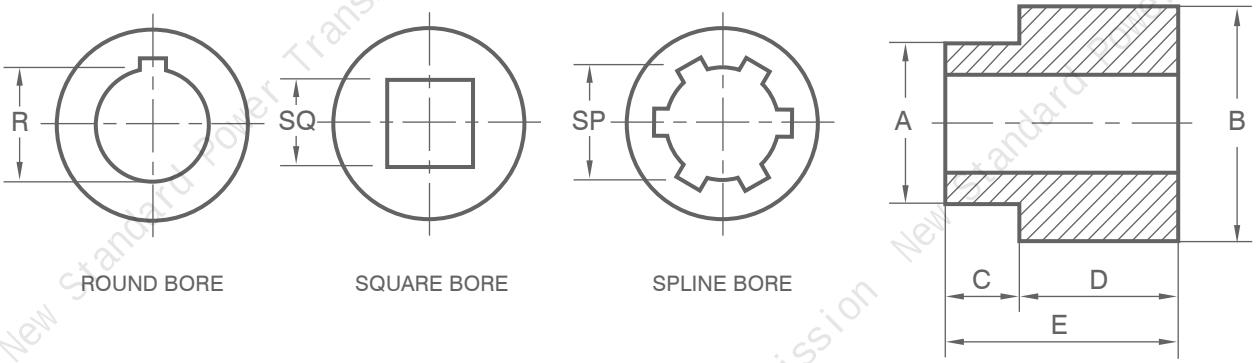
※Sprockets for BS standard chain No.06B～20B are manufactured upon request.

Weld-on Hubs

Recommendation:

Use Low Hydrogen Electrodes for Welding Sprocket Parts

Choose a plate sprocket and a finished bore hub as needed. By welding, a B type finished bore sprocket will be made quickly and easily for emergency use. It's fast and economical. A few stock of plate sprockets and hubs can serve a variety of sprockets sizes: unique and convenient in repair and replacement.



ROUND BORE SQUARE BORE SPLINE BORE

HUB DIMENSIONS

WELD-ON FINISHED BORE SPROCKET HUBS

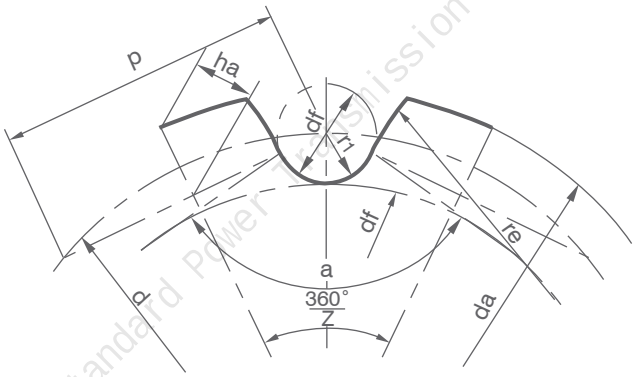
Dimensions:inch

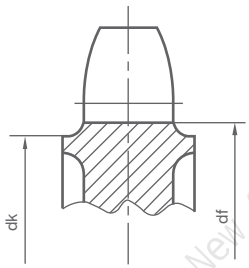
	V SERIES HUB To fit V type sprockets	W SERIES HUB To fit W type sprockets			X SERIES HUB To fit X type sprockets			XX SERIES HUB To fit XX type sprockets		Y SERIES HUB To fit Y type sprockets	
A	1 1/8"	1 5/8"			2"			2"		2 3/4"	
B	1 7/16"	1 13/16"			2 1/2"			3"		3 3/4"	
C	7/16"	7/16"			7/16"			7/16"		11/16"	
D	3/4"	1"			1"			1 1/16"		1 3/16"	
E	1 3/16"	1 7/16"			1 7/16"			1 1/2"		1 7/8"	
Bore	ROUND BORE (R)	ROUND BORE (R)	SPLINE BORE (SP)	SQUARE BORE (SQ)	ROUND BORE (R)	SPLINE BORE (SP)	SQUARE BORE (SQ)	ROUND BORE (R)	SPLINE BORE (SP)	ROUND BORE (R)	SPLINE BORE (SP)
1/2	1/2R	1/2R									
9/16	9/16R	9/16R									
5/8	5/8R	5/8R			5/8R						
11/16	11/16R	11/16R			11/16R						
3/4	3/4R	3/4R		3/4SQ	3/4R		3/4SQ				
13/16	13/16R	13/16R			13/16R						
7/8	7/8R	7/8R		7/8SQ	7/8R		7/8SQ				
15/16		15/16R			15/16R		15/16SQ				
1		1 R		1 SQ	1 R		1 SQ	1 R		1 R	
1 1/16		1 1/16R			1 1/16R					1 1/16R	
1 1/8		1 1/8R	1 1/8X6SP		1 1/8R	1 1/8X6SP	1 1/8SQ	1 1/8R	1 1/8X6SP	1 1/8R	1 1/8X6SP
1 3/16		1 3/16R			1 3/16R					1 3/16R	
1 1/4		1 1/4R			1 1/4R		1 1/4SQ	1 1/4R		1 1/4R	
1 5/16					1 5/16R			1 5/16R			
1 3/8 1 3/8 1 3/8			1 3/8X6SP 1 3/8X10SP 1 3/8X21SP		1 3/8R	1 3/8X6SP 1 3/8X10SP 1 3/8X21SP		1 3/8R	1 3/8X6SP 1 3/8X21SP	1 3/8R	1 3/8X6SP 1 3/8X21SP
1 7/16					1 7/16R			1 7/16R		1 7/16R	
1 1/2					1 1/2R	1 1/2X10SP		1 1/2R		1 1/2R	
1 5/8								1 5/8R		1 5/8R	
1 11/16										1 11/16R	
1 3/4						1 3/4X10SP			1 3/4X6SP	1 3/4R	1 3/4RX6SP
1 7/8										1 7/8R	
1 15/16										1 15/16R	
2										2R	

Special sizes will be consulted individually. Please contact NSPT.

Double pitch roller chain Sprockets

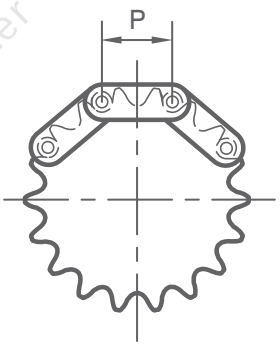
ANSI B29.3M-1994
ANSI B29.4M-1994



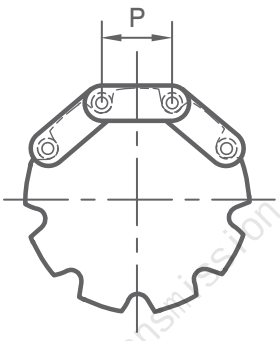


code	formulas
d	$d=\frac{P}{\sin\frac{180^\circ}{Z}}=P\cdot K$
d_a	$d_{a(max)}=d+0.625P-d_1$ $d_{a(min)}=d+(0.5-\frac{0.4}{Z})P-d_1$
h_a	$h_{a(max)}=(0.3125+\frac{0.8}{Z})P-0.5d_1$ $h_{a(min)}=(0.25+\frac{0.6}{Z})P-0.5d$
d_f	$d_f=d-d_1$
d_g	$d_g<P\,ctg\frac{180^\circ}{Z}-1.04h_2-0.76$
re	$re_{(min)}=0.003d_1(Z^2+180)$ $re_{(min)}=0.12d_1(Z+2)$
ri	$ri_{(max)}=0.505d_1+0.069\sqrt[3]{d_1}$ $ri_{(min)}=0.505d_1$
a	$a_{(max)}=140^\circ-\frac{90^\circ}{Z}$ $a_{(min)}=120^\circ-\frac{90^\circ}{Z}$

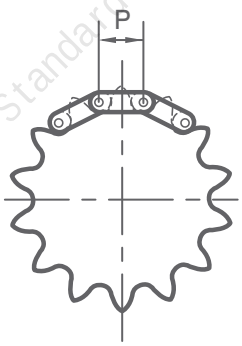
Double Pitch Sprockets



Standard Rollers



Double Pitch
Single Duty
Made-To-Order



Carrier Rollers

New Standard Power Transmission

Double pitch roller chain Sprockets

ANSI B29.3M-85
ANSI B29.4M-86

K Coefficient

Z	K	Z	K	Z	K
6	2.0000	30	9.5668	54	17.1884
6 1/2	2.1518	30 1/2	9.7256	54 1/2	17.3575
7	2.3048	31	9.8845	55	17.5166
7 1/2	2.4586	31 1/2	10.0434	55 1/2	17.6757
8	2.6131	32	10.2033	56	17.8347
8 1/2	2.7682	32 1/2	10.3612	56 1/2	17.9938
9	2.9238	23	10.5201	57	18.1529
9 1/2	3.0798	33 1/2	10.6790	57 1/2	18.3119
10	3.2361	34	10.8380	58	18.4710
10 1/2	3.3926	34 1/2	10.9969	58 1/2	18.6301
11	3.5495	35	11.1558	59	18.7892
11 1/2	3.7065	35 1/2	11.3148	59 1/2	18.9482
12	3.8637	36	11.4737	60	19.1073
12 1/2	4.0211	36 1/2	11.6327	60 1/2	19.2664
13	4.1786	37	11.7916	6	19.4255
13 1/2	4.3362	37 1/2	11.9506	61 1/2	19.5846
14	4.4940	38	12.1096	62	19.7437
14 1/2	4.6518	38 1/2	12.3685	62 1/2	19.9027
15	4.8097	39	12.4275	63	20.0618
15 1/2	4.9677	39 1/2	15.5865	6	20.2209
16	5.1258	40	12.7455	64	20.3800
16 1/2	5.2840	40 1/2	12.9045	64 1/2	20.5391
17	5.4422	41	13.0635	65	20.6983
17 1/2	5.6005	41 1/2	13.2225	65 1/2	20.8573
18	5.7588	42	13.3815	66	21.0164
18 1/2	5.9171	42 1/2	13.5405	66 1/2	21.1755
19	6.0755	43	13.6995	67	21.3346
19 1/2	6.2340	43 1/2	13.8585	67 1/2	21.4937
20	6.3925	44	14.0175	68	21.6528
20 1/2	6.5510	44 1/2	14.1765	68 1/2	21.8119
21	6.7095	45	14.3356	69	21.9710
21 1/2	6.8681	45 1/2	14.4946	69 1/2	22.1301
22	7.0267	46	14.6538	70	22.2892
22 1/2	7.1853	46 1/2	14.8127	70 1/2	22.4483
23	7.3439	47	14.9717	71	22.6074
23 1/2	7.5026	47 1/2	15.1307	71 1/2	22.7665
24	7.6613	48	15.2898	72	22.9256
24 1/2	7.8200	48 1/2	15.4488	72 1/2	23.0847
25	7.9787	49	15.6079	73	23.2437
25 1/2	8.1375	19 1/2	15.7669	73 1/2	23.4029
26	8.2962	50	15.9260	74	23.5621
26 1/2	8.4550	50 1/2	16.0850	74 1/2	23.7211
27	8.6133	51	16.2441	75	23.8802
27 1/2	8.7726	51 1/2	16.4031		
28	8.9314	52	16.5622		
28 1/2	9.0902	52 1/2	16.7212		
29	9.2491	53	16.8803		
29 1/2	9.4079	53 1/2	17.0394		

r/min

P / Z	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"
6	85	60	45	30	20	15
7	200	145	110	70	50	40
8	320	230	175	110	80	60
9	440	315	240	150	110	80
10	555	400	300	190	135	105
11	660	475	360	225	160	125
12	755	545	410	260	185	145
13	850	610	460	290	210	165
14	930	670	505	320	230	180
15	1000	720	540	345	245	195
16	1060	765	575	365	260	205
17	1115	805	605	385	270	215
18	1160	835	630	400	285	225
19	1200	865	650	415	295	230
20	1230	890	670	425	305	235
21	1260	910	685	435	310	240
22	1280	925	695	440	315	245
23	1300	935	705	445	320	250
24	1310	945	710	450	325	250
25	1320	950	715	450	330	255
30	1310	945	715	430	325	250
35	1255	905	680	400	310	240
40	1160	835	630	360	285	220
45	1040	750	565	315	255	200
50	910	655	495	265	225	175
55	770	555	415	210	185	145
60	615	445	335	200	150	120

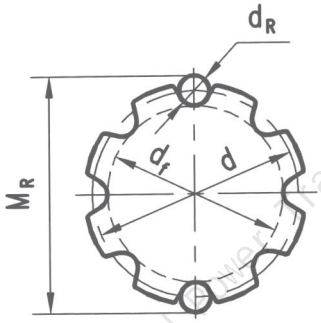
Even number of teeth

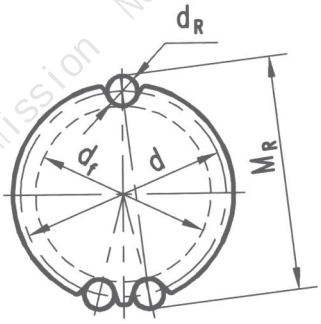
$M_R = d + d_{Rmin}$

odd number of teeth

$M_R = d \times \cos\frac{90^\circ}{Z} + d_{Rmin}$

even number of teeth

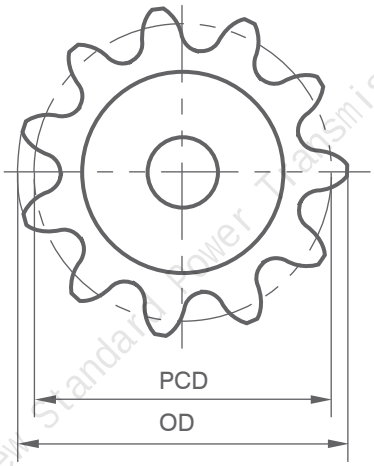


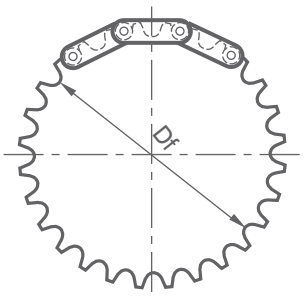


odd number of teeth

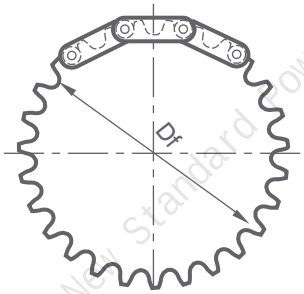
Double Pitch Sprockets

Standard Bore





even number of teeth



odd number of teeth

2040/C2040 p=1" d=0.313" T=0.284"

Z	O.D	P.C.D	BORE		HUB	
			D	MAX	BD	BL
11	2.000	1.852	1/2	13/16	1 3/8	7/8
12	2.170	2.000	1/2	13/16	1 9/16	7/8
13	2.330	2.152	1/2	21/32	1 9/16	7/8
14	2.490	2.305	1/2	1 1/32	1 11/16	7/8
15	2.650	2.458	5/8	1 7/32	1 23/32	7/8
16	2.810	2.613	5/8	1 9/32	1 7/8	7/8
17	2.980	2.768	5/8	1 5/16	2 3/64	1
18	3.140	2.924	5/8	1 15/32	2 7/32	1
19	3.300	3.080	5/8	1 5/8	2 3/8	1
20	3.460	3.236	5/8	1 3/4	2 35/64	1
21	3.620	3.392	5/8	1 25/32	2 45/64	1
22	3.780	3.549	5/8	1 7/8	2 7/8	1
23	3.940	3.706	5/8	2	3	1
24	4.100	3.864	5/8	2 1/4	3 1/4	1
25	4.260	4.021	5/8	2 1/4	3 1/4	1
26	4.420	4.179	5/8	2 1/4	3 1/4	1
28	4.740	4.494	5/8	2 1/4	3 1/4	1
30	5.060	4.810	5/8	2 1/4	3 1/4	1

2060/C2060 p=1 1/2 d=0.469" T=0.459"

Z	O.D	P.C.D	BORE		HUB	
			D	MAX	BD	BL
11	3.000	2.773	3/4	1	2 1/16	1 1/4
12	3.250	3.000	3/4	1 1/4	2 3/8	1 1/4
13	3.490	3.228	3/4	1 5/16	2 5/64	1 1/4
14	3.740	3.457	3/4	1 9/16	2 21/64	1 1/4
15	3.980	3.688	3/4	1 3/4	2 19/32	1 1/4
16	4.220	3.920	3/4	1 27/32	2 27/32	1 1/4
17	4.460	4.152	3/4	2 3/32	3 3/32	1 1/4
18	4.700	4.386	3/4	2 9/32	3 11/32	1 1/4
19	4.940	4.620	3/4	2 11/32	3 1/2	1 1/4
20	5.190	4.854	3/4	2 9/16	3 7/8	1 1/4
21	5.430	5.089	3/4	2 3/4	4	1 1/4
22	5.670	5.324	3/4	2 3/4	4	1 1/4
23	5.910	5.560	3/4	2 3/4	4	1 1/4
24	6.150	5.796	3/4	2 3/4	4	1 1/4
25	6.390	6.032	3/4	2 3/4	4	1 1/4
26	6.630	6.268	3/4	2 3/4	4	1 1/4
28	7.110	6.741	3/4	2 3/4	4	1 1/4
30	7.590	7.215	3/4	2 3/4	4	1 1/4

2050/C2050 p=1 1/4 d=0.400" T=0.343"

Z	O.D	P.C.D	BORE		HUB	
			D	MAX	BD	BL
11	2.500	2.315	5/8	13/16	1 3/4	1
12	2.710	2.500	5/8	1	1 63/64	1
13	2.910	2.690	5/8	1 7/32	1 23/32	1
14	3.110	2.881	5/8	1 9/32	1 15/16	1
15	3.320	3.073	5/8	1 13/32	2 5/32	1
16	3.520	3.266	5/8	1 19/32	2 23/64	1
17	3.720	3.460	5/8	1 3/4	2 9/16	1
18	3.920	3.655	5/8	1 25/32	2 25/32	1
19	4.120	3.850	5/8	1 31/32	2 63/64	1
20	4.320	4.045	3/4	2	3	1
21	4.520	4.241	3/4	2	3	1
22	4.720	4.437	3/4	2	3	1
23	4.920	4.633	3/4	2	3	1
24	5.120	4.830	3/4	2	3	1 1/4
25	5.320	5.026	3/4	2	3	1 1/4
26	5.520	5.223	3/4	2	3	1 1/4
28	5.920	5.617	3/4	2	3	1 1/4
30	6.320	6.012	3/4	2 1/4	3 1/4	1 1/4

2080/C2080 p=2" d=0.625" T=0.575"

Z	O.D	P.C.D	BORE		HUB	
			D	MAX	BD	BL
11	4.010	3.694	1	1 1/2	2 13/16	1 5/8
12	4.330	4.000	1	1 11/16	3 1/8	1 5/8
13	4.660	4.304	1	1 25/32	2 25/32	1 1/2
14	4.980	4.610	1	2 1/8	3 1/8	1 1/2
15	5.300	4.917	1	2 9/32	3 29/64	1 1/2
16	5.630	5.226	1	2 17/32	3 51/64	1 1/2
17	5.950	5.536	1	2 3/4	4	1 1/2
18	6.270	5.848	1	2 3/4	4 1/4	1 1/2
19	6.590	6.160	1	2 3/4	4 1/4	1 1/2
20	6.910	6.472	1	2 3/4	4 1/4	1 1/2
21	7.230	6.785	1	2 3/4	4 1/4	1 3/4
22	7.560	7.099	1	2 3/4	4 1/4	1 3/4
23	7.880	7.413	1	2 3/4	4 1/4	1 3/4
24	8.200	7.727	1	2 3/4	4 1/4	1 3/4
25	8.520	8.042	1	2 3/4	4 1/4	1 3/4
26	8.840	8.357	1 1/4	3 1/4	4 3/4	2
28	9.480	8.988	1 3/16	3 1/4	4 3/4	2
30	10.110	9.620	1 3/16	3 1/4	4 3/4	2

Double Pitch Sprockets BTL

2040/C2040-BTL FOR 1" PITCH

d=0.313" b1=0.284"

NO. Teeth	Effective No.of Teeth	Catalog No.	O.D	BUSH	Bore MAX.	dm2	LTB	WT With Bushing
17	8 1/2	2040TB17	2.970	1008	1	2	7/8	1.0
19	9 1/2	2040TB19	3.300	1210	1 1/4	2 15/32	1	1.4
21	10 1/2	2040TB21	3.620	1610	1 5/8	2 25/32	1	1.7
23	11 1/2	2040TB23	3.940	1610	1 5/8	3	1	1.8
25	12 1/2	2040TB25	4.260	1610	1 5/8	3 1/4	1	2.1
31	15 1/2	2040TB31	5.210	1610	1 5/8	3 1/4	1	3.0
35	17 1/2	2040TB35	5.860	1610	1 5/8	3 1/4	1	3.4

2050/C2050-BTL FOR 1 1/4" PITCH

d=0.400" b1=0.343"

NO. Teeth	Effective No.of Teeth	Catalog No.	O.D	BUSH	Bore MAX.	dm2	LTB	WT With Bushing
17	8 1/2	2050TB17	3.720	1210	1 1/4	2 25/32	1	1.30
18	9	2050TB18	3.920	1210	1 1/4	2 25/32	1	1.50
19	9 1/2	2050TB19	4.120	1610	1 5/8	2 15/16	1	2.10
20	10	2050TB20	4.320	1610	1 5/8	3	1	2.10
21	10 1/2	2050TB21	4.520	1610	1 5/8	3	1	2.20
23	11 1/2	2050TB23	4.920	2012	2	3 7/8	1 1/4	3.30
25	12 1/2	2050TB25	5.320	2012	2	3 7/8	1 1/4	3.80
35	17 1/2	2050TB35	7.320	2012	2	3 7/8	1 1/4	5.60

2060/C2060-BTL FOR 1 1/2" PITCH

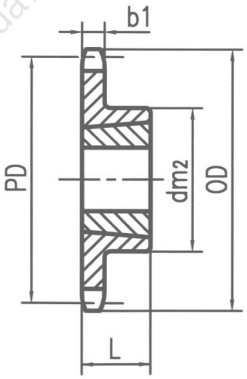
d=0.469" b1=0.459"

NO. Teeth	Effective No.of Teeth	Catalog No.	O.D	BUSH	Bore MAX.	dm2	LTB	WT With Bushing
17	8 1/2	2060TB17	4.460	1610	1 5/8	3	1	2.50
19	9 1/2	2060TB19	4.940	1610	1 5/8	3	1	3.00
20	10	2060TB20	5.190	1610	1 5/8	3	1	3.50
21	10 1/2	2060TB21	5.430	2012	2	3 7/8	1 1/4	4.10
23	11 1/2	2060TB23	5.910	2012	2	3 7/8	1 1/4	4.70
25	12 1/2	2060TB25	6.390	2012	2	3 7/8	1 1/4	5.30
27	13 1/2	2060TB27	6.870	2012	2	3 7/8	1 1/4	6.20
31	15 1/2	2060TB31	7.830	2012	2	3 7/8	1 1/4	7.40
35	17 1/2	2060TB35	8.780	2012	2	3 7/8	1 1/4	8.60

2080/C2080-BTL FOR 2" PITCH

d=0.625" b1=0.575"

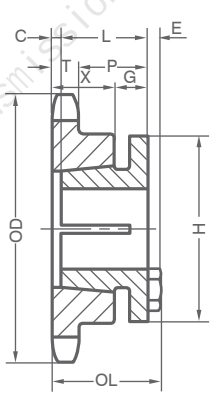
NO. Teeth	Effective No.of Teeth	Catalog No.	O.D	BUSH	Bore MAX.	dm2	LTB	WT With Bushing
17	8 1/2	2080TB17	5.950	2012	2	3 7/8	1 1/4	4.80
19	9 1/2	2080TB19	6.590	2517	2 1/2	4 1/4	1 3/4	9.00
20	10	2080TB20	6.910	2517	2 1/2	4 1/4	1 3/4	9.40
21	10 1/2	2080TB21	7.230	2517	2 1/2	4 1/4	1 3/4	9.70
23	11 1/2	2080TB23	7.880	2517	2 1/2	4 1/4	1 3/4	10.80
25	12 1/2	2080TB25	8.520	2517	2 1/2	4 1/4	1 3/4	11.70
27	13 1/2	2080TB27	9.160	2517	2 1/2	4 1/4	1 3/4	14.50
31	15 1/2	2080TB31	10.430	2517	2 1/2	4 1/4	1 3/4	16.80
35	17 1/2	2080TB35	11.710	2517	2 1/2	4 1/4	1 3/4	19.30



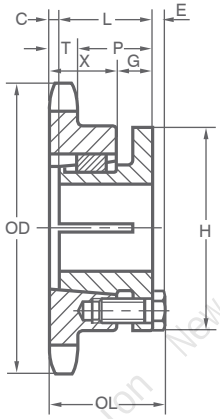
TYPE B1

Double Pitch Sprockets STL

Taper Bore



TYPE 1

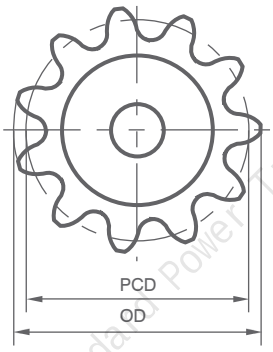


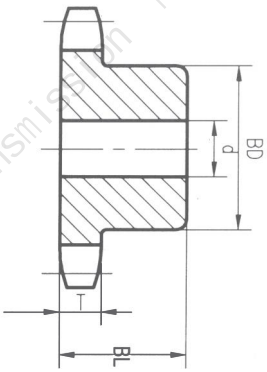
TYPE 2

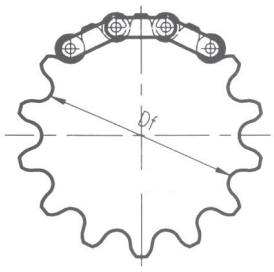
catalog NO	Diameters		Bushing	TYPE	Dimensions									wt Less Bushing
	O.D	P.D			T	d	L	P	C	H	G	X	E	
2040/C2040-STL FOR 1" PITCH														
2040H17	2.96	2.768	H	1	0.275	1 1/2	1 1/4	1 1/32	1/16	2 1/2	7/16	7/8	3/16	0.6
2040H21	3.62	3.392	H	1	0.275	1 1/2	1 1/4	1 1/32	1/16	2 1/2	7/16	7/8	3/16	0.9
2050/C2050-STL FOR 1 1/4" PITCH														
2050H17	3.72	3.460	H	1	0.343	1 1/2	1 1/4	31/32	1/16	2 1/2	7/16	7/8	3/16	1.0
2050P21	4.52	4.241	P1	2	0.343	2 3/16	1 15/16	1 19/32	—	3	5/8	1 5/16	1/4	2.0
2050P23	4.92	4.633	P1	2	0.343	2 3/16	1 15/16	1 19/32	—	3	5/8	1 5/16	1/4	2.4
2060/C2060-STL FOR 1 1/2" PITCH														
2060P17	4.46	4.152	P1	2	0.459	2 3/16	1 15/16	1 15/32	—	3	5/8	1 5/16	1/4	2.2
2060P19	4.95	4.620	P1	2	0.459	2 3/16	1 15/16	1 15/32	—	3	5/8	1 5/16	1/4	2.6
2060P23	5.90	5.560	P1	2	0.459	2 3/16	1 15/16	1 15/32	—	3	5/8	1 5/16	1/4	3.5
2080/C2080-STL FOR 2" PITCH														
2080P17	5.94	5.536	P1	2	0.575	2 3/16	1 15/16	1 3/8	—	3	5/8	1 5/16	1/4	3.9
2080Q19	6.59	6.160	Q1	2	0.575	2 25/32	2 1/2	1 15/16	—	4 1/8	3/4	1 3/4	9/32	6.4
2080Q21	7.23	6.785	Q1	2	0.575	2 25/32	2 1/2	1 15/16	—	4 1/8	3/4	1 3/4	9/32	7.4
2080Q23	7.87	7.413	Q1	2	0.575	2 25/32	2 1/2	1 15/16	—	4 1/8	3/4	1 3/4	9/32	8.5

Double Pitch Sprockets

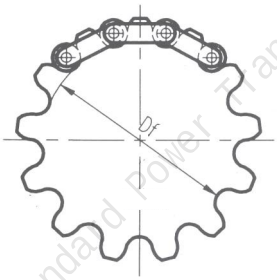
Standard Bore







even number of teeth



odd number of teeth

2042/C2042 FOR 1" PITCH

Z	OD	PCD	BORE		HUB	
			D	MAX	BD	BL
8	3.010	2.613	5/8	1 9/32	1 7/8	7/8
9	3.350	2.924	5/8	1 15/32	2 7/32	7/8
10	3.680	3.236	5/8	1 3/4	2 35/64	1
11	4.000	3.549	5/8	1 7/8	2 5/8	1
12	4.330	3.864	5/8	2 1/4	3 1/16	1
13	4.660	4.179	5/8	2 1/4	3 1/4	1
14	4.980	4.494	5/8	2 1/4	3 1/4	1
15	5.300	4.810	5/8	2 1/4	3 1/4	1
16	5.630	5.126	5/8	2 1/4	3 1/4	1
17	5.950	5.442	5/8	2 1/4	3 1/4	1
18	6.270	5.759	5/8	2 1/4	3 1/4	1
19	6.590	6.076	5/8	2 1/4	3 1/4	1
20	6.910	6.392	3/4	2 3/8	3 1/2	1 1/8
21	7.240	6.710	3/4	2 3/8	3 1/2	1 1/8
22	7.560	7.027	3/4	2 3/8	3 1/2	1 1/8
23	7.880	7.344	3/4	2 3/8	3 1/2	1 1/8
24	8.200	7.661	3/4	2 3/8	3 1/2	1 1/8
25	8.520	7.979	3/4	2 3/8	3 1/2	1 1/8
26	8.840	8.296	3/4	2 3/8	3 1/2	1 1/8
28	9.480	8.931	3/4	2 3/8	3 1/2	1 1/8
30	10.110	9.567	3/4	2 3/8	3 1/2	1 1/8

2062/C2062 FOR 1 1/2" PITCH

Z	O.D	P.C.D	BORE		HUB	
			D	MAX	BD	BL
8	4.520	3.920	3/4	1 27/32	2 27/32	1 1/4
9	5.020	4.386	3/4	2 9/32	3 11/32	1 1/4
10	5.520	4.854	3/4	2 9/16	3 53/64	1 1/4
11	6.010	5.324	3/4	2 3/4	4	1 1/4
12	6.500	5.796	3/4	2 3/4	4	1 1/4
13	6.990	6.268	3/4	2 3/4	4	1 1/4
14	7.470	6.741	3/4	2 3/4	4	1 1/4
15	7.960	7.215	3/4	2 3/4	4	1 1/4
16	8.440	7.689	3/4	2 3/4	4	1 1/4
17	8.920	8.163	1	2 3/4	4	1 1/4
18	9.410	8.638	1	2 3/4	4	1 1/4
19	9.890	9.113	1	2 3/4	4 1/4	1 1/4
20	10.370	9.589	1	2 3/4	4 1/4	1 1/4
21	10.850	10.064	1	2 3/4	4 1/4	1 1/4
22	11.330	10.540	1	2 3/4	4 1/4	1 1/4
23	11.810	11.016	1	2 3/4	4 1/4	1 1/4
24	12.290	11.492	1	2 3/4	4 1/4	1 1/4
25	12.770	11.968	1	2 3/4	4 1/4	1 1/4
26	13.250	12.444	1	2 3/4	4 1/4	1 3/4
28	14.210	13.397	1 1/4	2 3/4	4 1/4	1 3/4
30	15.170	14.350	1 1/4	2 3/4	4 1/4	1 3/4

2052/C2052 FOR 1 1/4" PITCH

Z	O.D	P.C.D	BORE		HUB	
			D	MAX	BC	BL
8	3.770	3.266	5/8	1 19/32	2 23/64	1
9	4.190	3.655	5/8	1 25/32	2 25/32	1
10	4.600	4.045	5/8	2	3	1
11	5.010	4.437	5/8	2	3	1
12	5.420	4.830	3/4	2	3	1 1/4
13	5.820	5.223	3/4	2	3	1 1/4
14	6.230	5.617	3/4	2	3	1 1/4
15	6.630	6.012	3/4	2 1/4	3 1/4	1 1/4
16	7.030	6.407	3/4	2 1/4	3 1/4	1 1/4
17	7.440	6.803	3/4	2 1/4	3 1/4	1 1/4
18	7.840	7.198	3/4	2 1/4	3 1/4	1 1/4
19	8.240	7.595	3/4	2 1/4	3 1/4	1 1/4
20	8.640	7.991	3/4	2 1/4	3 1/4	1 1/4
21	9.040	8.387	3/4	2 1/4	3 1/4	1 1/4
22	9.440	8.783	3/4	2 1/4	3 1/4	1 1/4
23	9.850	9.180	1	2 3/4	3 3/4	1 1/4
24	10.250	9.577	1	2 3/4	3 3/4	1 1/4
25	10.650	9.973	1	2 3/4	3 3/4	1 1/4
26	11.050	10.370	1	2 3/4	3 3/4	1 1/4
28	11.840	11.164	1	2 3/4	3 3/4	1 1/4
30	12.640	11.958	1	2 3/4	3 3/4	1 1/4

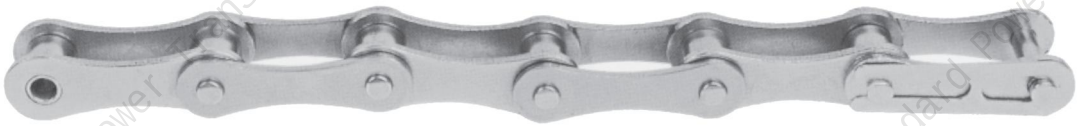
2082/C2082 FOR 2" PITCH

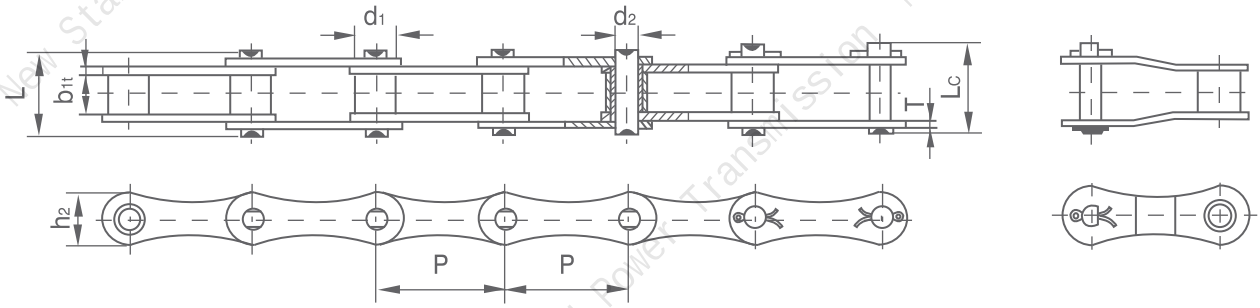
Z	O.D	P.C.D	BORE		HUB	
			D	MAX	BD	BL
8	6.030	5.226	1	2 17/32	3 51/64	1 3/4
9	6.700	5.848	1	2 3/4	4 1/4	1 3/4
10	7.360	6.472	1	2 3/4	4 1/4	1 3/4
11	8.010	7.099	1	2 3/4	4 1/4	1 3/4
12	8.660	7.727	1	2 3/4	4 1/4	1 3/4
13	9.310	8.357	1 1/4	3 1/4	4 3/4	2
14	9.960	8.988	1 1/4	3 1/4	4 3/4	2
15	10.610	9.620	1 3/16	3 1/4	4 3/4	2
16	11.250	10.252	1 3/16	3 1/4	4 3/4	2
17	11.900	10.885	1 3/16	3 1/4	4 3/4	2
18	12.540	11.518	1 3/16	3 1/4	4 3/4	2
19	13.190	12.151	1 3/16	3 1/4	4 3/4	2
20	13.830	12.785	1 3/16	3 1/4	4 3/4	2
21	14.470	13.419	1 1/4	3 1/4	4 3/4	2
22	15.110	14.053	1 1/4	3 1/4	4 3/4	2
23	15.750	14.688	1 1/4	3 1/4	4 3/4	2
24	16.390	15.323	1 1/4	3 1/4	4 3/4	2
25	17.030	15.958	1 1/4	3 1/4	4 3/4	2
26	17.670	16.593	1 1/4	3 1/2	5 1/4	2
28	18.950	17.863	1 1/4	3 1/2	5 1/4	2
30	20.230	19.134	1 1/4	3 1/2	5 1/4	2

Sprockets - Chain

ANSI B29.3M-1994

Double Pitch Transmission Chains





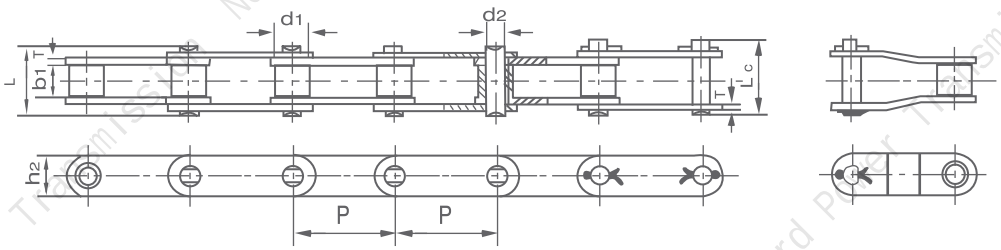
ANSI Chain No.	Pitch	Roller Diameter	Width Between Inner Plates	Pin Diameter	Pin Length		Inner Plate Depth	Ultimate Tensile Strength	Average Tensile Strength	Weight Per Meter
	P	d_1 max	b_1 min	d_2 max	L max	Lc max	h_2 max	Q max	Q_0	q
	mm	mm	mm	mm	mm	mm	mm	kN	kN	kg/m
2040	25.4	7.95	7.85	3.96	16.6	18.8	12.0	14.1	16.0	0.42
2050	31.75	10.16	9.40	5.08	20.7	23.3	15.0	22.2	26.1	0.73
2060	38.1	11.91	12.57	5.94	25.9	28.3	18.0	31.8	33.5	1.02
2080	50.8	15.88	15.75	7.92	32.7	36.5	24.0	56.7	64.9	1.70
2100	63.5	19.05	18.90	9.53	40.4	44.7	30.0	88.5	101.8	2.55
2120	76.2	22.23	25.22	11.1	50.3	54.3	35.7	127.0	147.0	4.06

Sprockets - Chain

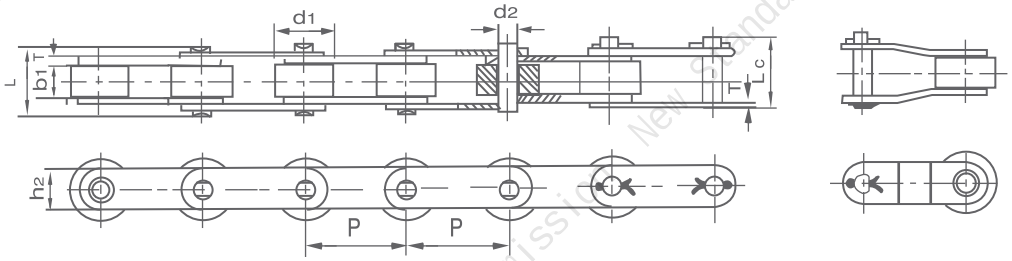
ANSI B29.3M-1994
ANSI B29.4M-1994

Double Pitch Conveyor Chains

Small Roller Type



Large Roller Type

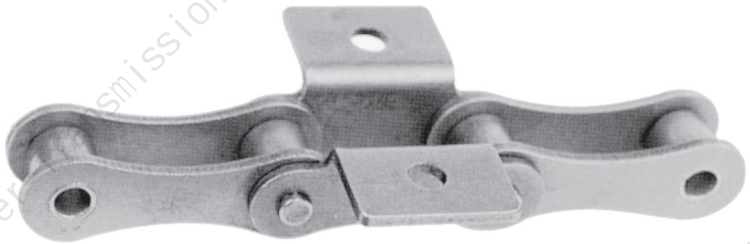


ANSI Chain No.	Pitch	Roller Diameter	Width Between Inner Plates	Pin Diameter	Pin Length		Inner Plate Depth	Plate Thick--ness	Ultimate Tensile Strength	Average Tensile Strength	Weight Per Meter
	P	d_1 max	b_1 min	d_2 max	L max	Lc max	h_2 max	T max	Q min	Q_0	q
	mm	mm	mm	mm	mm	mm	mm	mm	kN	kN	kg/m
C2040 C2042	25.40	7.95 15.88	7.85	3.96	16.6	17.8	12.0	1.50	14.1	16.7	0.50 0.84
C2040H	25.40	7.95	7.85	3.95	18.8	19.9	12.0	2.03	14.1	17.2	0.65
C2050 C2052	31.75	10.16 19.05	9.40	5.08	20.7	22.2	15.0	2.03	22.2	28.1	0.78 1.27
C2060 C2062	38.10	11.91 22.23	12.57	5.94	25.9	27.7	18.0	2.42	31.8	36.8	1.12 1.61
C2060H C2062H	38.10	11.91 22.23	12.57	5.94	29.2	31.6	18.0	3.25	31.8	41.6	1.44 2.07
C2080 C2082	50.80	15.88 28.58	15.75	7.92	32.7	36.5	24.0	3.25	56.87	65.7	2.08 3.12
C2080H C2082H	50.80	15.88 28.58	15.75	7.92	36.2	39.4	24.4	4.00	56.7	70.0	2.54 3.58
C2100 C2102	63.50	19.05 39.67	18.90	9.53	40.4	44.7	30.0	4.00	88.5	102.6	3.01 4.83
C2100H C2102H	63.50	19.05 39.67	18.90	9.53	43.6	46.9	30.0	4.80	88.5	112.4	3.56 5.38
C2120 C2122	76.20	22.23 44.45	25.22	11.10	50.3	54.3	35.7	4.80	127.0	147.3	4.66 7.66
C2120H C2122H	76.20	22.23 44.45	25.22	11.10	53.5	57.5	35.7	5.60	127.0	160.9	2.26 8.26
C2160 C2162	101.60	28.58 57.15	31.75	14.27	64.8	69.6	47.8	6.40	226.8	278.9	8.23 11.95
C2160H C2162H	101.60	28.58 57.15	31.75	14.27	68.2	73.0	47.8	7.20	226.8	285.8	9.06 12.77

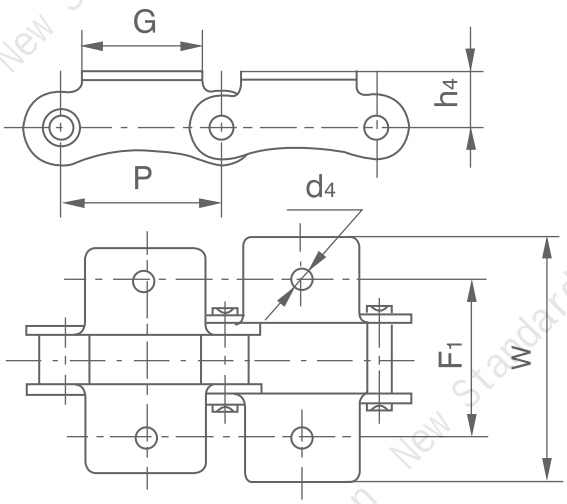
Sprockets - Chain

ANSI B29.3M-1994
ANSI B29.4M-1994

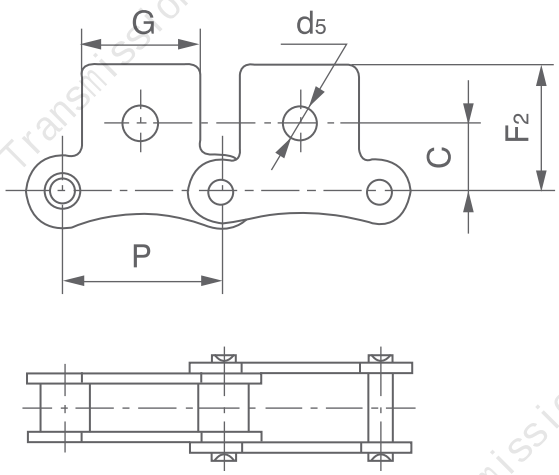
Double pitch transmission chain attachments



K-1



SK-1



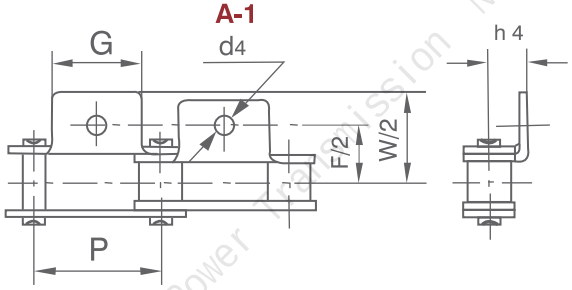
ANSI Chain No.	P	G	F_1	W	h_4	d_4	C	F_2	d_5
	mm	mm	mm	mm	mm	mm	mm	mm	mm
2040	25.4	19.1	25.4	39.6	9.1	3.4	11.1	20.5	5.5
2050	31.75	23.8	31.8	49.0	11.1	5.5	14.3	25.0	6.6
2060	38.10	28.6	42.9	67.8	14.7	5.5	17.5	32.9	9.2
2080	50.80	38.1	55.6	87.8	19.1	6.8	22.2	43.5	11.0
2100	63.50	47.6	66.6	107.5	23.4	9.2	28.6	50.4	13.0
2120	76.20	57.2	79.3	127.5	27.8	11.0			

Sprockets - Chain

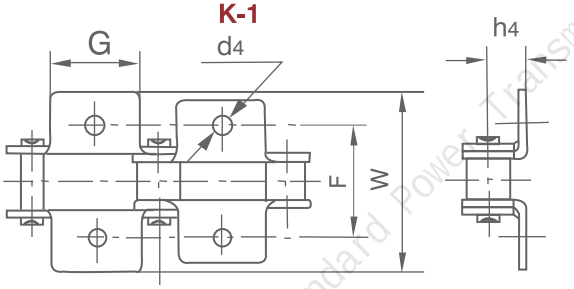
ANSI B29.3M-1994
ANSI B29.4M-1994

Double pitch transmission chain attachments

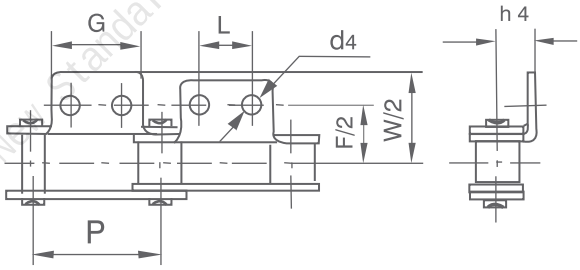
A-1



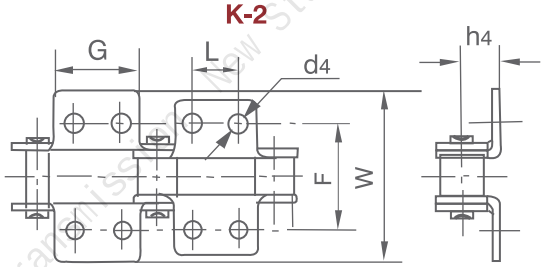
K-1



A-2



K-2



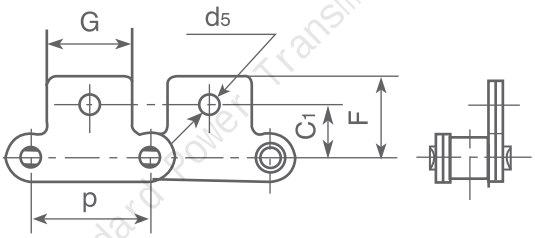
ANSI Chain No.	P	G	L	F	W	h4	d4
	mm	mm	mm	mm	mm	mm	mm
C2040 C2042	25.4	19.1	9.5	25.4	39.6	9.1	3.4
C2050 C2052	31.75	23.8	11.9	31.8	49.0	11.1	5.5
C2060 C2062	38.1	28.6	14.3	42.9	67.8	14.7	5.5
C2060H C2062H	38.1	28.6	14.3	42.9	67.8	14.7	5.5
C2080 C2082	50.8	38.1	19.1	55.6	87.8	19.1	6.8
C2080H C2082H	50.8	38.1	19.1	55.6	87.8	19.1	6.8
C2100 C2102	63.5	47.6	23.8	66.6	107.5	23.4	9.2
C2100H C2102H	63.5	47.6	23.8	66.6	107.5	23.4	9.2
C2120 C2122	76.2	57.2	28.6	79.3	121.4	27.8	11.0
C2120H C2122H	76.2	57.2	28.6	79.3	121.4	27.8	11.0
C2160 C2162	101.6	76.2	38.1	104.7	151.6	36.5	13.1
C2160H C2162H	101.6	76.2	38.1	104.7	151.6	36.5	13.1

Sprockets - Chain

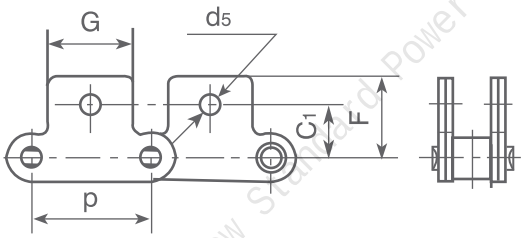
ANSI B29.3M-1994
ANSI B29.4M-1994

Double pitch transmission chain attachments

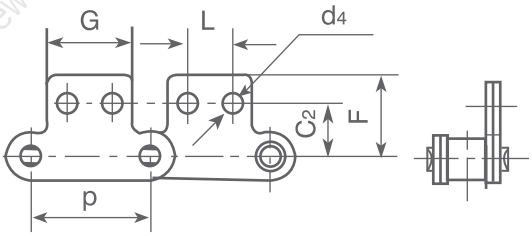
SA-1



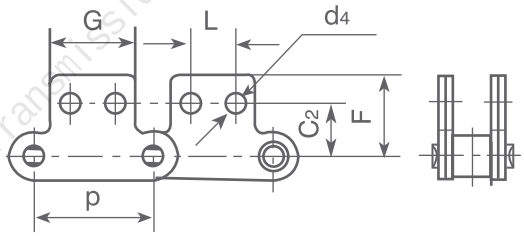
SK-1



SA-2



SK-2



ANSI Chain No.	P	G	L	C_1	C_2	F	d_4	d_5
	mm	mm	mm	mm	mm	mm	mm	mm
C2040 C2042	25.40	19.1	9.5	11.1	13.5	20.5	3.4	5.5
C2050 C2052	31.75	23.8	11.9	14.3	15.9	25.0	5.5	6.6
C2060 C2062	38.10	28.6	14.3	17.5	19.1	32.9	5.5	9.2
C2060H C2062H	38.10	28.6	14.3	17.5	19.1	32.9	5.5	9.2
C2080 C2082	50.80	38.1	19.1	22.2	25.4	43.5	6.6	11.0
C2080H C2082H	50.80	38.1	19.1	22.2	25.4	43.5	6.6	11.0
C2100 C2102	63.50	47.6	23.8	28.6	31.8	50.4	8.4	13.0
C2100H C2102H	63.50	47.6	23.8	28.6	31.8	50.4	8.4	13.0