DRIVES & DRIVES

Total Mechanical Power Transmission Solution

Address

Shop No. 12, Arihant Building Gopal Krishna Gokhale Road, Mulund [E], Mumbai - 400 081

Contact No

Tel - 2163 3694

Tel fax - 2163 2758

Mob - + 91 022 93226 41435

Email

ddrives@rediffmail.com

dddrives@gmail.com

Designed By

Sutra designers

sutradesigners@gmail.com

E-mail - dddrives@gmail.com
Tel : +91 022 2163 3694 Tele Fax : + 91 022 2163 2758 Mob : 09322641435

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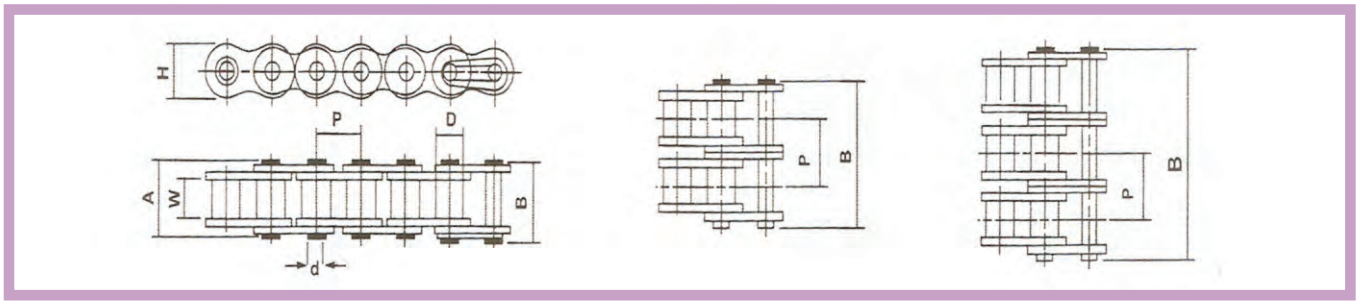
Mob : 09322641435

DIAMOND PRECISION ROLLER CHAINS TO ISO 606/DIN 8187/BS 228 STANDARDS



Diamond Chain No.	No. Of Strands	ISO/DIN/BS NO.	Pitch (P)	WIP (W) (Min)	Roller Dia (D) (Max)	Plate Depth (H) (Max)	Plate Thickness		Pin Dia (d) (Max)	B/Pin Length (A) (Max)	C/Pin Length (B) (Max)	Transverse Pitch (p,)	Average Weight (kg/m)	Tensile Strength (Min() (kgf)
							IP	OP						
D 061***	01 02 03	06B-1 06B-2 06B-3	9.525	5.72	6.35	8.26	1.25	1.00	3.28	13.50 23.80 34.00	16.80 27.10 37.30	10.24	0.42 0.78 1.16	920 1,725 2,540
D 083	01 02 03	08B-1 08B-2 08B-3	12.70	7.75	8.51	11.81	1.58	1.50	4.45	17.00 31.00 44.90	20.90 34.90 48.80	13.92	0.72 1.37 2.03	1,840 3,270 4,850
D 101	01 02 03	10B-1 10B-2 10B-3	15.875	9.65	10.16	14.73	1.58	1.58	5.08	19.60 36.20 52.80	23.70 40.30 56.90	16.59	0.92 1.82 2.72	2,290 4,540 6,810
D 120	01 02 03	12B-1 12B-2 12B-3	19.05	11.68	12.07	16.13	1.81	1.76	5.72	22.70 42.20 61.70	23.70 40.30 66.30	19.46	1.16 2.27 3.42	2,960 5,900 8,850
D 160	01 02 03	16B-1 16B-2 16B-3	25.40	17.02	15.88	21.80	4.00	3.05	8.28	36.10 68.00 99.90	41.50 73.40 105.30	31.88	2.69 5.3 7.92	6,120 11,600 17,400
D 200	01 02 03	20B-1 20B-2 20B-3	31.75	19.56	19.05	26.42	4.65	3.53	10.19	43.20 79.70 116.10	49.30 85.80 122.20	36.45	3.91 7.72 11.53	9,690 17,330 25,490
D 240	01 02 03	24B-1 24B-2 24B-3	38.10	25.40	25.40	33.40	6.00	5.00	14.63	53.40 108.40 156.80	60.00 108.40 156.80	48.36	7.16 14.15 21.15	16,310 28,550 43,330
D 280	01 02 03	28B-1 28B-2 28B-3	44.45	30.99	27.94	37.08	7.00	6.00	15.90	65.10 124.70 184.30	72.50 132.10 191.70	59.56	7.53 14.96 22.39	20,390 36,700 54,030
D 320	01 02 03	32B-1 32B-2 32B-3	50.80	38.10	29.21	42.29	7.00	6.00	17.81	67.40 126.00 184.50	75.30 133.90 192.40	58.55	9.84 19.68 29.52	25,5000 45,880 68,300
D 400	01 02 03	40B-1 40B-2 40B-3	63.50	38.10	39.37	52.96	7.90	7.90	22.89	82.60 154.90 227.20	9.80 165.10 237.40	72.29	16.99 33.61 50.23	36,190 64,220 96,840
D 480	01 02 03	48B-1 48B-2 48B-3	76.20	45.72	48.26	63.88	11.12	9.10	29.24	99.10 190.40 281.60	109.60 200.90 292.10	91.21	23.92 47.48 71.05	57,090 1,01,940 1,52,910

** Straight sided plates

Dimensions in mm

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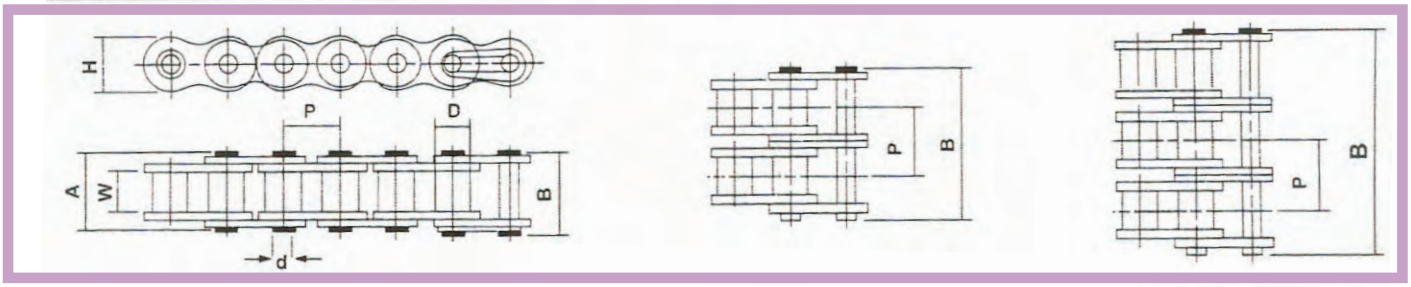
DIAMOND PRECISION ROLLER CHAINS TO ISO 606/DIN 8188/ANSI B29.1 STANDARDS



Diamond Chain No.	No. Of Strands	ISO/DIN NO.	ASA No.	Pitch (P)	W IP (W) (Min)	Roller Dia (D) (Max)	Plate Depth (H) (Max)	Plate Thickness		Pin Dia (d) (Max)	B/Pin Length (A) (Max)	C/Pin Length (B) (Max)	Transverse Pitch (p,)	Average Weight (kg/m)	Tensile Strength (Min) (kgf)
								IP	OP						
B 06A	01 02 03		35 35-2	9.525	4.68	5.08*	8.26	1.25	1.25	3.59	14.00 24.20 34.30	17.20 27.40 37.50	10.13	0.32 0.64 0.99	800 1,600 2,400
D 08A	01 02 03	08A-1 08A-2 08A-3	40 40-2 40-3	12.70	7.85	7.92	12.07	1.50	1.50	3.97	17.40 30.60 45.30	21.30 34.50 49.20	14.38	0.67 1.32 1.98	1,440 2,880 4,320
D 08D	01	-	41	12.70	6.25	7.77	9.68	1.25	1.25	3.59	15.50	18.70	-	0.42	910
D 102	01 02 03	10A-1 10A-2 10A-3	50 50-2 50-3	15.875	9.40	10.16	15.09	2.00	2.00	5.08	20.20 38.50 56.80	24.30 42.60 60.90	18.11	1.06 2.06 3.07	2,270 4,540 6,810
D 121	01 02 03	12A-1 12A-2 12A-3	60 60-2 60-3	19.05	12.58	11.91	18.08	2.39	2.39	5.96	26.90 49.70 72.60	31.50 54.30 77.20	22.78	1.57 3.12 4.67	3,240 6,480 9,720
D 161	01 02 03	16A-1 16A-2 16A-3	80 80-2 80-3	25.40	15.75	15.87	24.13	3.15	3.05	7.94	33.50 62.70 91.90	38.90 68.10 97.30	29.29	2.63 5.20 7.77	5,780 11,560 17,340
D 201	01 02 03	20A-1 20A-2 20A-3	100 100-2 100-3	31.75	18.90	19.05	30.18	4.00	4.00	9.54	41.10 77.00 113.00	47.20 83.10 119.10	35.76	4.01 7.93 11.86	9,030 18,060 27,090
D 241	01 02 03	24A-1 24A-2 24A-3	120 120-2 120-3	38.10	25.23	22.22	36.20	4.75	4.75	11.11	50.80 96.30 141.70	57.40 102.90 148.30	45.44	5.74 11.37 17.01	12,950 25,900 38,850
D 281	01 02 03	28A-1 28A-2 28A-3	140 140-2 140-3	44.45	25.23	25.40	42.24	5.56	5.56	12.71	54.90 103.60 152.40	62.30 111.00 159.80	48.87	7.66 15.15 22.64	17,580 35,160 52,740
D 321	01 02 03	32A-1 32A-2 32A-3	160 160-2 160-3	50.80	31.55	28.57	48.26	6.35	6.35	14.29	65.50 124.20 182.90	73.40 132.10 190.80	58.55	9.84 19.53 29.22	23,120 46,240 69,360
D 401	01 02 03	40A-1 40A-2 40A-3	200 200-2 200-3	6.3.50	37.85	39.67	60.33	7.90	7.90	19.85	80.30 151.90 223.70	90.50 162.10 233.70	71.55	16.88 32.33 48.41	36,070 72,140 1,08,210
D 481	01 02 03	48A-1 48A-2 48A-3	240 240-2 240-3	76.20	47.35	47.62	72.40	9.52	9.52	23.81	95.50 183.40 271.30	106.00 193.90 281.80	87.83	23.09 45.83 68.57	53,050 1,06,100 1,59,150

** Bushing diameter- chain has no rollers

Dimensions in mm

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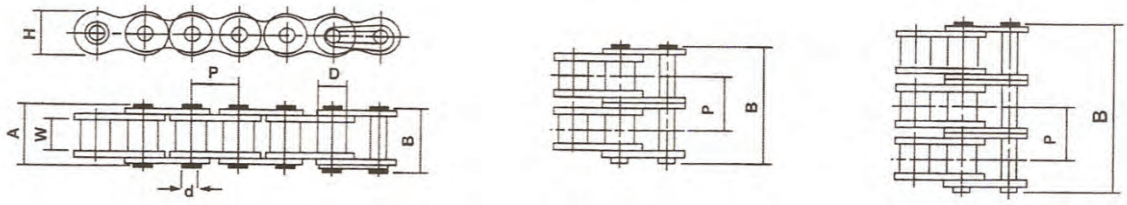
DIAMOND HEAVY SERIES ROLLER CHAINS TO ANSI B29.1 STANDARDS



Diamond Chain No.	No. Of Strands	ASA No.	Pitch (P)	WIP (W) (Min)	Roller Dia (D) (Max)	Plate Depth (H) (Max)	Plate Thickness		Pin Dia (d) (Max)	B/Pin Length (A) (Max)	C/Pin Length (B) (Max)	Transverse Pitch (p,)	Average Weight (kg/m)	Tensile Strength (Min) (kgf)
							IP	OP						
D 122	01 02 03	60H 60H-2 60H-3	19.05	12.58	11.91	18.08	3.15	3.15	5.96	31.20 56.10 82.20	35.80 60.70 86.80	26.11	1.87 3.71 5.54	3,240 6,480 9,720
D 162	01 02 03	80H 80-2 80H-3	25.40	15.75	15.87	24.13	4.00	4.00	7.94	28.00 70.50 103.30	43.40 75.90 108.70	32.59	3.18 6.29 9.40	5,780 11,560 17,340
D 202	01 02 03	100H 100H-2 100H-3	31.75	18.90	19.05	30.18	4.75	4.75	9.54	45.40 84.00 123.40	51.50 90.10 129.50	39.09	4.38 8.67 12.96	9,030 18,060 27,090
D 242	01 02 03	120H 120H-2 120H-3	38.10	25.23	22.22	36.20	5.56	5.56	11.11	55.10 103.00 152.40	61.70 110.40 159.00	48.87	6.61 13.13 19.64	12,950 25,900 38,850
D 282	01 02 03	140H 140H-2 140H-4	44.45	25.23	25.40	42.24	6.35	6.35	12.71	60.40 112.20 164.30	67.80 119.60 171.70	52.20	8.33 16.52 24.73	17,580 35,160 52,740
D 322	01 02 03	160H 160H-2 160H-3	50.80	31.55	28.57	48.26	7.14	7.14	14.29	70.00 132.00 193.70	77.90 139.90 201.60	61.90	10.88 21.32 31.77	23,120 46,240 69,360
D 402	01 02 03	200H 200H-2 200H-3	63.50	37.85	39.67	60.33	9.52	9.52	19.85	93.10 170.60 252.60	103.30 180.80 262.80	78.31	20.65 39.26 60.79	36,070 72,140 1,08,210

Dimensions in mm

DIAMOND – STANDARD CHAINS

Diamond Chain No.	No. Of Strands	ISO/DIN NO.	Pitch (P)	WIP (W) (Min)	Roller Dia (D) (Max)	Plate Depth (H) (Max)	Plate Thickness		Pin Dia (d) (Max)	B/Pin Length (A) (Max)	C/Pin Length (B) (Max)	Average Weight (kg/m)	Tensile Strength (Min) (kgf)
							IP	OP					
B04H	01	-	6.35	3.18	3.30*	5.83	1.00	1.00	2.30	8.97	9.66	0.16	490
B04K"	01	-	6.35	3.18	3.30*	5.83	1.00	0.75	2.30	8.97	9.66	0.16	490
D080	01	081	12.70	3.30	7.75	9.91	1.00	1.00	3.63	10.20	11.70	0.28	816
D081	01	-	12.70	4.88	7.75	9.91	1.00	1.00	3.62	11.70	13.10	0.33	820
D282	01	-	12.70	5.21	8.51	11.81	1.58	1.50	4.46	14.46	18.38	0.63	1820
D087	01	-	12.70	5.15	7.75	11.15	1.37	1.37	4.06	12.90	14.40	0.50	1400
D100	01	-	15.875	6.48	10.16	14.73	1.58	1.58	5.07	16.43	20.53	0.80	2270

** Straight sided Plates
* Bushing diameter – chain has no rollers.

Dimensions in mm

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E-mail - dddrives@gmail.com
Tel : +91 022 2163 3694
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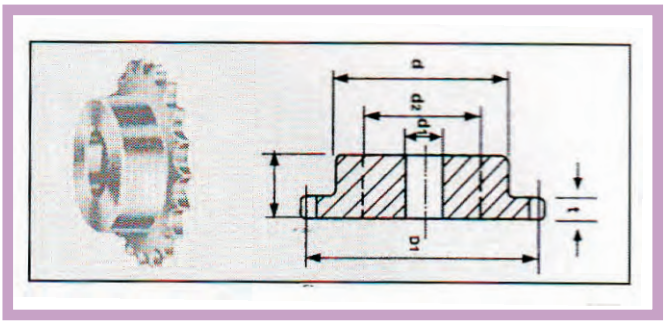
DRIVES & DRIVES SPROCKETS AND PINIONS for Precision Roller Chains Simplex

Sprocket Wheels are manufactured from quality materials. Teeth are hob – cut for correct tooth form, tooth thickness and Profile. Assuring maximum life of chain and Sprocket Wheel.Though the tables are given upto 1"pitch, can hob sprockets upto 2 ½" pitch in British/ American standard of any no. of strands. Plate type sprockets can also be supplied in all sizes as per customers requirements. Sprockets can be teeth induction hardened / volume hardened as per customers requirement.



No. Of TEETH		13	15	17	19	20	21	23	25	27	30	38	45	57	76	95	114	150
Chain	Dtmm	39.8	45.81	51.84	57.87	60.89	63.91	69.95	76	82.05	91.12	115.34	136.55	172.91	230.49	288.08	345.68	454.82
3/8" x 7/32"	dmm	28	34	40	45	46	50	55	60	62	75	70	75	75	75	85	85	95
6.35mm	L mm	24	24	28	28	28	28	28	28	28	28	32	32	32	32	40	40	45
R.Ø	d1 mm	10	10	10	12	12	12	12	12	12	12	20	20	20	20	20	20	24
t = 5.25	d2 mm	19	22	26	30	30	33	36	40	43	50	46	50	50	50	56	56	63
	Weight kgs.	0.12	0.15	0.3	0.39	0.43	0.5	0.6	0.75	0.8	0.9	1.11	1.45	1.8	2.0	4.2	5.56	
Chain	Dtmm	53.07	61.08	69.12	77.16	81.18	85.21	93.27	101.33	109.4	121.5	153.89	182.06	230.54	307.32	384.11	460.91	
½" x 5/16"	dmm	37	45	53	60	60	60	60	60	70	75	95	95	95	95	95	95	
8.15mm	L mm	24	24	24	28	28	28	28	28	30	30	40	40	40	40	45	45	
R.Ø	d1 mm	12	12	12	12	12	12	16	16	16	16	20	20	20	25	25	25	
t = 7.0	d2 mm	24	30	35	40	40	40	40	40	46	50	63	63	63	63	63	63	
	Weight kgs.	0.32	0.4	0.5	0.66	0.77	0.88	1.2	1.3	1.7	2.5	2.26	2.6	3.3	5.3	8.0	9.7	
Chain	Dtmm	66.34	76.35	86.39	96.45	101.48	106.5	116.58	126.66	136.74	151.87	192.24	277.58	288.18	384.16	480.14	576.13	
5/8" x 3/8 "	dmm	47	57	70	70	70	80	80	75	75	85	95	95	95	95	95	95	
10.16mm	L mm	28	28	30	30	30	30	30	30	35	35	40	40	45	50	56	56	
R.Ø	d1 mm	12	12	16	16	16	16	16	16	16	20	25	25	25	25	25	25	
t = 8.8	d2 mm	31	37	46	46	46	53	53	50	50	56	63	63	63	63	63	63	
	Weight kgs.	0.58	0.86	1.1	1.45	1.7	1.95	2.4	2.88	3.4	4.1	4.9	6.1	7.6	11.15	15.8	21.5	
Chain	Dtmm	79.6	91.6	103.6	115.74	121.78	127.82	139.9	151.99	164.09	182.25	230.69	273.09	345.8	460.98	576.17	691.36	
¾" x 7/16"	dmm	58	70	75	85	85	85	85	85	95	95	95	95	95	95	95	95	
12.07mm	L mm	30	30	35	35	35	40	40	40	40	40	56	56	56	56	65	65	
R.Ø	d1 mm	16	16	16	16	16	20	20	20	20	20	20	20	25	25	25	25	
t = 10.8	d2 mm	38	46	50	56	56	56	56	56	63	63	63	63	63	63	63	63	
	Weight kgs.	0.6	0.9	1.2	2.4	2.4	2.75	3.42	4.15	4.9	4.4	5.2	6.4	8.7	10.7	19.2	23.6	
Chain	Dtmm	106.14	122.17	138.23	154.32	162.38	170.42	186.54	202.66	218.79	243	307.58	364.12	461.08	614.64	768.22	921.81	
1" x 17.02"	dmm	76	95	95	105	105	105	105	105	120	120	120	135	135	140	140	140	
15.88mm	L mm	40	40	45	45	45	50	50	50	50	50	65	70	70	80	80	80	
R.Ø	d1 mm	16	16	16	16	16	20	20	20	20	20	20	20	25	25	25	25	
t = 15.8	d2 mm	50	63	63	70	70	70	70	70	80	80	80	90	90	93	93	93	
	Weight kgs.	1.9	2.9	3.9	5.3	6.0	6.75	8.15	9.85	9.95	10.0	11.8	15.0	20.2	25.8	36.7	45.0	
Chain	Dtmm	132.68	152.69	172.75	192.91	202.98	213.01	233.17	253.33	273.49	303.75	384.46	455.16	576.86	768.32	960.28		
1-1/4" x 3.4"	dmm	100	120	120	120	120	120	120	120	150	150	160	160	160	170	180		
19.05mm	L mm	50	50	60	60	60	60	60	60	60	60	80	80	90	90	100		
R.Ø	d1 mm	30	30	30	30	30	30	30	30	30	30	30	30	40	45	45		
t = 18.0	d2 mm	66	80	80	80	80	80	80	80	100	100	106	106	106	113	120		
	Weight kgs.	4.03	6.0	6.2	7.2	8.0	10.1	11.6	12.8	13.5	14.8	22	25.75	32.3	52.0	74.0		
Chain	Dtmm	159.22	183.22	207.3	231.49	243.5	255.61	279.81	304	328.19	364.5	461.35	546.18	691.63	921.98	1152.33		
1-1/2" x 1"	dmm	120	120	130	130	130	130	130	130	150	150	170	170	190	200	210		
25.4mm	L mm	75	75	75	75	75	75	75	75	75	75	100	100	100	100	120		
R.Ø	d1 mm	40	40	40	40	40	40	40	40	40	40	45	45	50	60	60		
t = 23.0	d2 mm	80	80	86	86	86	86	86	86	86	100	113	113	126	133	133		
	Weight kgs.	6.7	9.7	11.1	12.1	12.8	14.3	15.9	16.9	20.0	24.0	35.5	40.1	48.0	84.0	121.0		

ONE PIECE CONSTRUCTION ← → WELDED CONSTRUCTION

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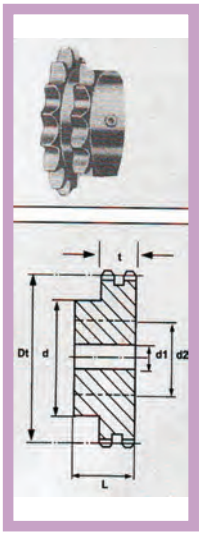
E-mail - dddrives@gmail.com
Tel : +91 022 2163 3694
Mob : 09322641435

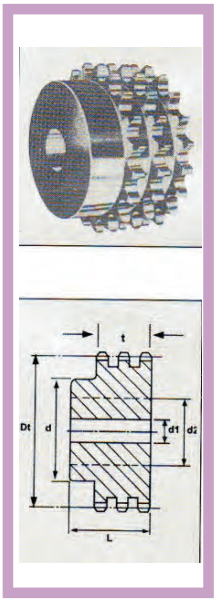
DRIVES & DRIVES SPROCKETS AND PINIONS for Precision Roller Chains Duplex & Triplex

No. Of TEETH		13	17	19	21	23	25	38	57	76	95	114	150
Chain	Dtmm	39.75	51.84	57.86	63.9	69.95	76	115.34	172.9	230.48	288.09	345.67	454.81
3/8" x 7/32"	dmm	28	40	46	52	58	64	90	85	85	95	95	105
6.35mm	L mm	25	30	30	30	30	30	40	40	40	45	45	50
R. Ø	d1 mm	12	12	12	12	12	12	20	20	20	20	20	24
t = 5.25	d 2 mm	19	26	30	34	38	42	60	56	56	63	63	70
	Weight kgs.	0.13	0.35	0.4	0.5	0.65	0.75	1.95	2.5	3.4	6.15	7.75	11.65
Chain	Dtmm	53.06	69.11	77.17	85.22	93.27	101.32	153.80	230.53	307.31	384.10	460.91	
½" x 5/16"	dmm	37	50	60	70	75	80	105	105	105	105	105	
8.15 mm	L mm	35	35	35	40	40	40	45	50	56	56	56	
R. Ø	d1 mm	12	12	12	16	16	16	20	25	25	25	25	
t = 7.0	d 2 mm	24	33	40	46	50	53	70	70	70	70	70	
	Weight kgs.	0.43	0.51	0.96	1.25	1.53	1.81	3.41	4.47	6.52	10.1	13.48	
Chain	Dtmm	79.6	103.68	115.75	127.81	139.90	151.99	230.68	345.82	460.88	576.17	691.36	
3/4" x 7/16 "	dmm	58	75	85	100	105	105	120	130	145	160	170	
12.07mm	L mm	50	50	50	50	50	50	63	63	63	70	70	
R. Ø	d1 mm	16	16	16	20	20	20	25	25	25	40	40	
t = 30.8	d 2 mm	38	50	56	66	70	70	80	86	96	106	113	
	Weight kgs.	0.85	1.9	3.00	3.8	4.8	5.8	9.5	16.0	21.5	33.4	42.8	
Chain	Dtmm	106.15	138.23	154.33	170.41	186.54	202.67	307.59	461.08	614.63	768.22	921.82	
1" x 17.02"	dmm	76	100	105	105	120	120	120	150	150	175	175	
15.88mm	L mm	70	70	70	70	70	70	75	90	95	95	95	
R. Ø	d1 mm	16	16	20	25	25	25	25	30	40	40	40	
t = 47.2	d 2 mm	50	66	70	70	80	80	80	100	100	116	116	
	Weight kgs.	3.5	5.7	8.2	10.6	12.4	15.0	21.7	32.8	52.4	68.3	90.0	



ONE PIECE CONSTRUCTION ⟷ WELDED CONSTRUCTION

Chain	Dtmm	39.75	51.84	57.86	63.9	69.95	76	115.34	172.9	230.48	288.09	345.67	
3/8" x 7/32"	dmm	28	40	46	52	58	64	90	95	95	95	120	
15.88mm	L mm	35	35	35	40	40	40	56	56	56	56	60	
R.Ø	d1 mm	10	12	12	12	12	12	24	24	24	24	24	
t = 15.8	d 2 mm	19	26	30	34	38	42	60	63	63	63	80	
	Weight kgs.	0.23	0.43	0.48	0.64	8.8	1.0	3.14	4.6	6.85	8.85	11.3	
Chain	Dtmm	53.06	69.11	77.17	85.22	93.27	101.32	153.80	230.53	307.31	384.10	460.91	
½" x 5/16"	dmm	37	50	60	70	75	80	105	105	105	105	105	
8.51 mm	L mm	50	50	50	55	55	55	55	60	60	67	67	
R.Ø	d1 mm	12	16	16	16	16	16	35	25	25	25	25	
t = 35.0	d 2 mm	24	33	40	46	50	53	70	70	70	70	70	
	Weight kgs.	0.45	0.95	1.4	1.76	2.24	2.61	5.25	10.45	14.85	18.0	20.45	
Chain	Dtmm	79.6	103.6	115.75	127.81	139.9	151.99	230.68	345.82	460.88	576.17	691.36	
3/4" x 7/16 "	dmm	58	75	85	100	105	105	120	140	140	170	170	
12.07mm	L mm	70	70	70	70	70	70	70	70	75	82	82	
R.Ø	d1 mm	16	16	16	20	20	20	25	30	30	40	40	
t = 49.5	d 2 mm	38	50	56	66	70	70	80	93	93	113	113	
	Weight kgs.	1.1	2.2	3.85	4.91	6.15	7.1	13.8	23.4	32.9	46.7	60.5	
Chain	Dtmm	106.15	138.23	154.33	170.41	186.54	202.67	307.59	461.08	614.63	768.22	921.82	
1" x 17.02"	dmm	76	100	105	105	120	120	120	150	200	200	200	
15.88mm	L mm	100	100	100	100	100	100	100	100	110	110	115	
R.Ø	d1 mm	16	16	20	25	25	25	30	360	40	40	40	
t = 79.1	d 2 mm	50	66	70	70	80	80	80	100	133	133	133	
	Weight kgs.	4.0	6.1	8.7	11.0	13.6	16.5	26.6	47.5	76.5	100.0	128.0	



ONE PIECE CONSTRUCTION ⟷ WELDED CONSTRUCTION

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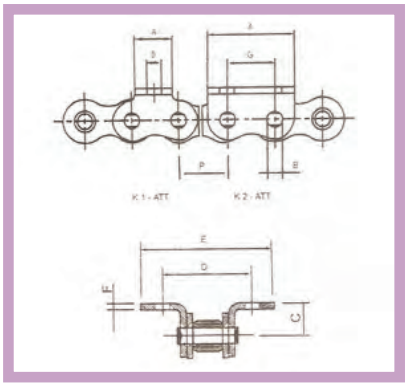
ROLLER CHAIN WITH ATTACHMENTS

K 1 Single Hole Bent Lug Attachment

Base Chain Ref.	TIDC Chain No	Pitch (P)	ATT.Width (A)	Hole Diameter (B)	Plate Height (C)	Hole Pitch (D)	Overall Width (E)	Plate Thickness
06B	D 061 01 K1 02	9.525	8.00	3.50	6.50	19.00	27.00	1.03
08B	D 083 01 K1 05	12.70	9.50	4.30	8.40	28.20	37.20	1.40
10B	D 101 01 K1 02	15.875	14.10	5.20	10.40	31.80	47.60	1.53
12B	D 120 01 K1 04	19.05	15.85	5.60	12.00	35.00	51.60	1.90
16B	D 160 01 K1 05	25.40	19.00	6.80	15.90	50.80	74.80	3.00
40	D 08A 01 K1 05	12.70	9.525	3.18	7.92	25.40	35.31	1.52
50	D 102 01 K1 05	15.875	12.70	5.16	10.31	31.75	46.02	2.03
60	D 121 01 K1 04	19.05	15.875	5.16	12.14	38.10	54.23	2.39
80	D 161 01 K1 05	25.40	19.05	6.35	15.875	50.80	69.85	3.18

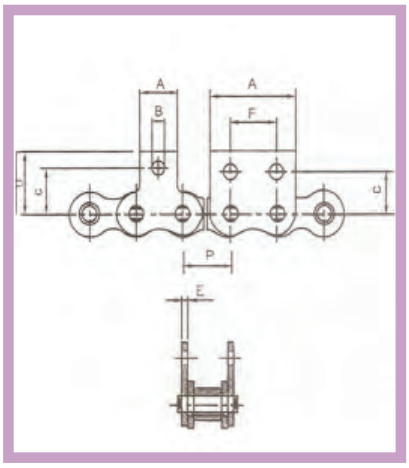


K2 Two Hole Bent Lug Attachments

Base Chain Ref.	TIDC Chain No	Pitch (P)	ATT.Width (A)	Hole Diameter (B)	Plate Height (C)	Hole Pitch (D)	Overall Width (E)	Plate Thickness (F)	Hole Pitch (G)
06B	D 061 01 K2 01	9.525	17.55	3.50	6.50	19.00	27.00	1.03	9.50
08B	D 083 01 K2 03	12.70	23.05	4.30	8.40	28.20	37.20	1.40	12.70
10B	D 101 01 K2 01	15.875	28.60	5.20	10.40	31.80	47.60	1.53	15.90
12B	D 120 01 K2 04	19.05	34.90	5.60	12.00	35.00	61.00	1.90	19.00
16B	D 160 01 K2 16	25.40	45.85	6.80	15.90	50.80	78.20	3.00	25.40
40	D 08A 01 K2 01	12.70	24.03	3.18	8.28	25.40	34.70	1.52	12.70
50	D 102 01 K2 01	15.875	30.76	5.16	10.31	31.75	45.90	2.03	15.875
60	D 121 01 K2 04	19.05	36.07	5.16	12.14	38.10	54.23	2.39	19.05
80	D 161 01 K2 10	25.40	47.88	6.35	15.875	50.80	69.85	3.18	25.40

M1 Single Hole Straight Lug Attachments

Base Chain Ref.	TIDC Chain No	Pitch (P)	ATT.Width (A)	Hole Diameter (B)	Hole Pitch (C)	Overall Width (D)	Plate Thickness (E)
06B	D 061 01 M1 01	9.525	8.00	3.50	9.50	13.50	1.03
08B	D 083 01 M1 02	12.70	9.50	4.30	14.10	19.20	1.40
10B	D 101 01 M1 02	15.875	14.10	5.20	15.90	23.70	1.53
12B	D 120 01 M1 02	19.05	15.85	5.60	17.90	26.20	1.90
16B	D 160 01 M1 03	25.40	19.00	6.80	26.00	35.00	3.00
40	D 08A 01 M1 02	12.70	9.525	3.18	12.42	17.37	1.52
50	D 102 01 M1 02	15.875	12.70	5.16	15.70	22.73	2.03
60	D 121 01 M1 02	19.05	15.875	5.16	18.19	26.37	2.39
80	D 161 01 M1 03	25.40	19.05	6.35	24.59	34.01	3.18



M2 Two Hole Straight Lug Attachments

Base Chain Ref.	TIDC Chain No	Pitch (P)	ATT.Width (A)	Hole Diameter (B)	Hole Pitch (C)	Att. Height (D)	Plate Thickness (E)	Hole Pitch (F)
08B	D 083 01 M1 03	12.70	23.05	4.30	14.10	19.20	1.40	12.70
10B	D 101 01 M2 01	15.875	28.60	5.20	15.90	23.70	1.53	15.90
12B	D 120 01 M2 02	19.05	34.90	5.60	17.90	31.85	1.90	19.00
16B	D 160 01 M2 02	25.40	45.85	6.80	26.00	36.75	3.00	25.40
40	D 08A 01 M2 01	12.70	24.03	3.18	12.78	17.37	1.52	12.70
50	D 102 01 M2 01	15.875	30.76	5.16	15.70	22.73	2.03	15.875
60	D 121 01 M2 01	19.05	36.07	5.16	18.19	26.37	2.39	19.05
80	D 161 01 M2 01	25.40	47.88	6.35	24.56	34.01	3.18	25.40

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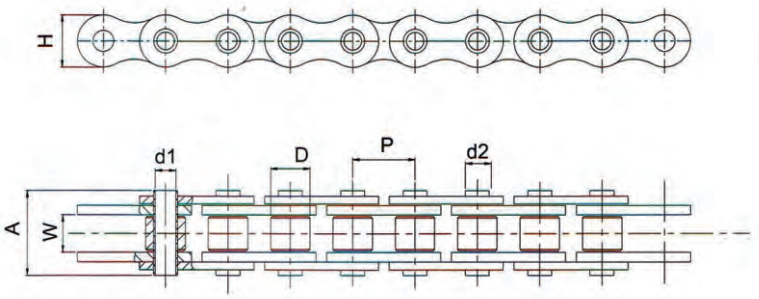
HOLLOW PIN CHAINS

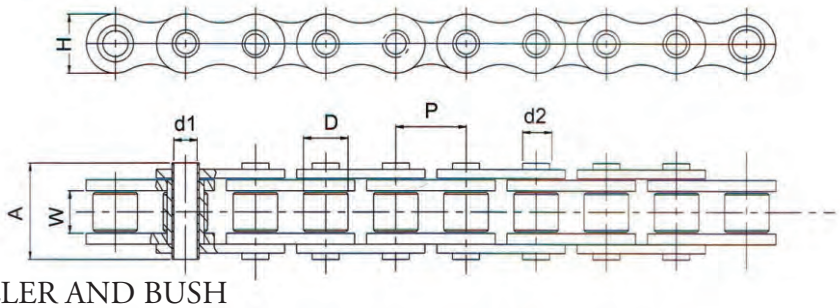
The series of hollow pin chains are used in conveyor applications allowing easy insertion of cross rods or attachments at desired frequency.



TYPE 1 – WITH ROLLER , WITHOUT BUSH

DIAMOND Chain No.	Pitch (P)	Width between Inner Plates (W) (MIN)	Roller Dia (D) (MAX)	Plate Height (H) (MAX)	Pin Inner Diameter (d1) (MIN)	Pin Outer Diameter (d2) (MIN)	Pin Length (A) (MAX)	Avg. Weight Per Metre (kg)	Tensile strength (kgf) MIN	End Condition
D 061 01 HP 01 *	9.525	5.72	6.35	8.20	3.30	4.77	13.75	0.35	550	E
D0 83 01 HP 02	12.70	7.75	8.51	11.80	4.50	6.28	17.00	0.58	1100	E
D 101 01 HP 02	15.875	9.65	10.16	14.70	5.18	7.02	19.60	0.77	1500	E
D 102 01 HP 01	15.875	9.40	10.16	14.70	5.18	7.02	20.60	0.82	1500	E
D120 01 HP 01	19.05	11.68	12.07	16.10	5.85	8.09	22.70	0.98	1700	E
D 160 01 HP 01	25.40	17.02	15.88	21.00	8.33	11.61	36.10	2.21	3340	E

Straight Sided Plates



TYPE 2 – WITH ROLLER AND BUSH

DIAMOND Chain No.	Pitch (P)	Width between Inner Plates (W) (MIN)	Roller Dia (D) (MAX)	Plate Height (H) (MAX)	Pin Inner Diameter (d1) (MIN)	Pin Outer Diameter (d2)	Pin Length (A) (MAX)	Avg. Weight Per Metre (kg)	Tensile strength (kgf) MIN	End Condition
D120 01 HP02	19.05	11.68	12.07	16.10	5.00	8.09	22.70	1.13	2300	E
D 160 01 HP02	25.40	17.02	15.88	21.00	5.00	8.26	33.90	2.34	3690	E

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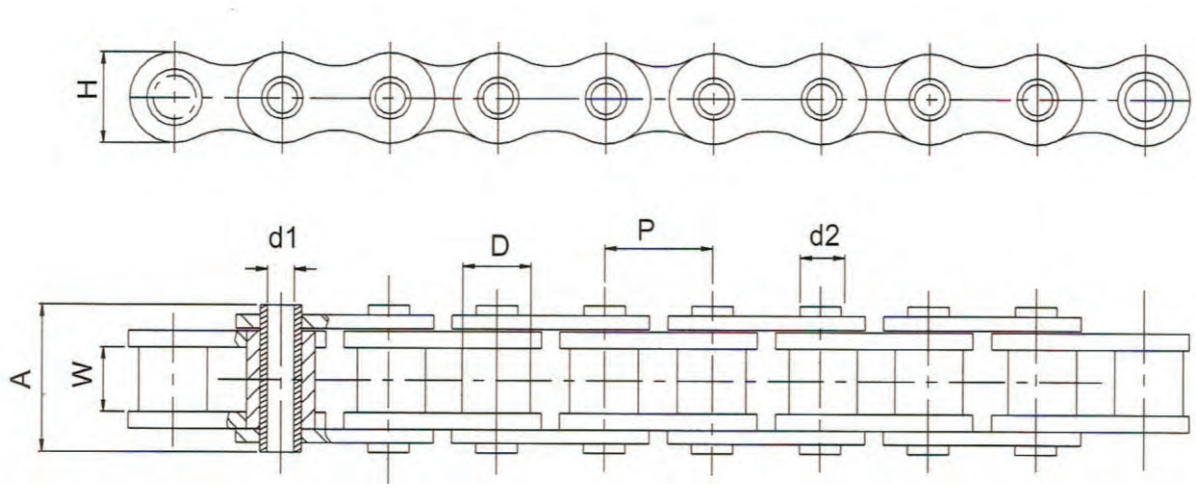
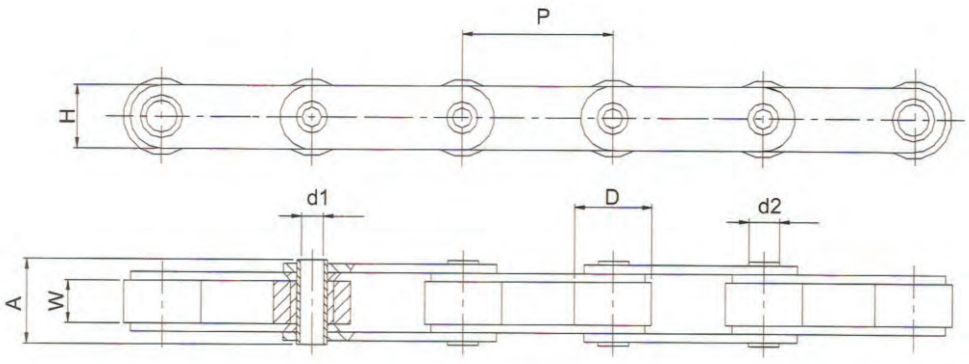


TYPE 3 – WITH BUSH , WITHOUT ROLLER

DIAMOND Chain No.	Pitch (P)	Width between Inner Plates (W) (MIN)	Roller Dia (D) (MAX)	Plate Height (H) (MAX)	Pin Inner Diameter (d1) (MIN)	Pin Outer Diameter (d2)	Pin Length (A) (MAX)	Avg. Weight Per Metre (kg)	Tensile strength (kgf) MIN	End Condition
D083 01 HP 01	12.70	7.75	8.51	11.80	4.50	6.28	17.20	0.58	950	E
D 101 01 HP 01	15.875	9.65	10.16	14.70	5.18	7.02	19.60	0.73	1300	E
D 102 01 HP 01	15.875	9.53	10.16	14.70	5.18	7.02	20.50	0.85	1850	E
D120 01 HP 01	19.05	11.68	12.07	16.10	5.85	8.09	22.70	1.10	1300	E



TYPE 4 – DOUBLE PITCH HOLLOW PIN CHAINS

Small Roller Chains

DIAMOND Chain No.	Pitch (P)	Width between Inner Plates (W) (MIN)	Roller Dia (D) (MAX)	Plate Height (H) (MAX)	Pin Inner Diameter (d1) (MIN)	Pin Outer Diameter (d2)	Pin Length (A) (MAX)	Avg. Weight Per Metre (kg)	Tensile strength (kgf) MIN	End Condition
A102 01 HP 01	31.75	9.40	10.16	14.70	5.16	7.02	20.50	0.88	1630	G
A121 01 HP 01	38.10	12.57	11.91	18.06	5.99	8.38	25.50	1.08	2310	G

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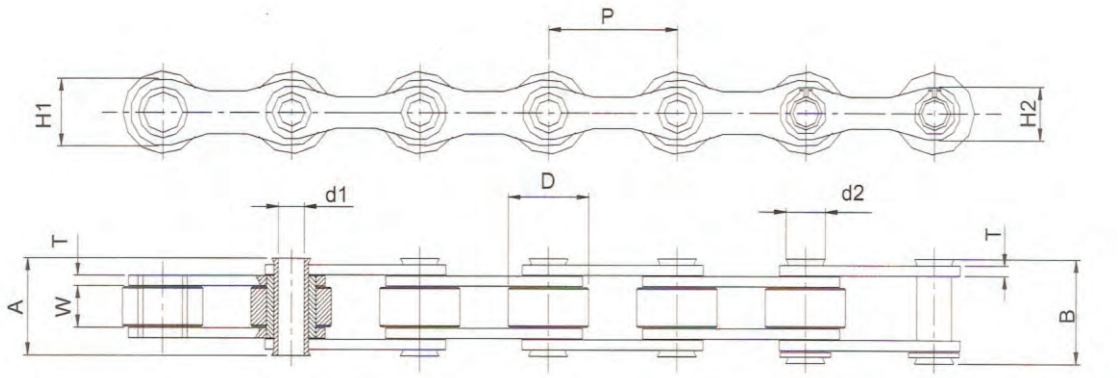
Larger Roller Chains

DIAMOND Chain No.	Pitch (P)	Width between Inner Plates (W) (MIN)	Roller Dia (D) (MAX)	Plate Height (H) (MAX)	Pin Inner Diameter (d1) (MIN)	Pin Outer Diameter (d2)	Pin Length (A) (MAX)	Avg. Weight Per Metre (kg)	Tensile strength (kgf) MIN	End Condition
A102 02 HP 01	31.75	9.40	19.05	15.09	5.16	7.02	20.5	1.26	1630	G
A121 02 HP 01	38.1	12.57	22.23	18.06	5.99	8.38	25.5	1.38	2310	G
A161 02 HP 01	50.8	15.75	28.58	24.05	8.02	11.38	32.5	3.17	4190	G



TYPE 5 – WITH CARRIER ROLLERS

DIAMOND Chain No.	PITCH (P)	Width between Inner Plates (W) (MIN)	Roller Dia (D) (MAX)	Pin Inner Diameter (d1) (MIN)	Pin Outer Diameter (d2) (MIN)	Plate Width IP (H1) (MAX)	Plate Width OP (H2) (MAX)	Inner Plate Thickness (T)	Width over bearing Pin (A) (MAX)	Width over Joint Fasteners (B) (MAX)	Avg. Weigth Per Metre (kg)	Tensile Strength (Kgf) (MIN)
U 25401 HP 01	25.40	8.00	20.00	5.20	8.00	17.20	15.20	2.00	19.50	20.65	1.23	2500
U 38101 HP 01	38.10	8.00	20.00	5.20	8.00	17.20	15.20	2.00	19.50	20.65	0.95	2800
U 38101 HP 05*	38.10	12.70	25.40	8.30	11.62	21.20	21.20	2.40	26.50	28.50	2.11	3060
U50001 HP 02**	50.00	10.00	30.00	8.30	11.62	26.20	21.20	3.00	26.50	28.50	0.98	5100
U50801 HP 01**	50.80	10.00	30.00	8.30	11.62	26.20	26.20	3.00	26.50	28.50	2.12	5100
U50801 HP 02**	50.80	10.00	30.00	8.30	11.62	26.20	21.20	3.00	26.50	28.50	2.13	5100
U 63001 HP 01	63.00	10.00	30.00	8.30	11.62	26.20	26.20	3.00	26.50	28.50	2.00	5100
U 63005 HP 01*	63.00	15.00	40.00	12.10	16.00	28.70	28.70	4.00	35.00	36.80	4.25	5000

*Straight Contour Chains

**Stainless Steel Chains and Plastic Roller Chains are also available

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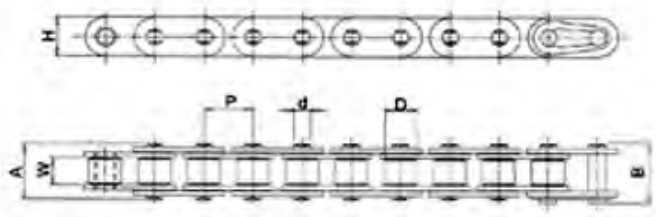
STANDARD ROLLER CHAINS

STRAIGHT SIDE PLATE CHAINS – EUROPEAN SERIES



The straight side plate chains are identical to the corresponding European series standard chains except for the straight side plated. The chains have higher fatigue resistance than the standard chains.

SINGLE STRAND

Intl. Ref No.	DIAMOND Chain No.	Pitch (P)	Width between inner Plates (W) (Min)	Roller DIA (D) (Max)	Bearing Pin Dia (d) (Max)	Plate Height (H) (Max)	Width Over Bearing Pin (A) (Max)	Width Over Joint Fasteners (B) (Max)	Projected Bearing Area Sq.cm	Avg. Weight Per Metre(kg)	Tensile Strength (Kgf) (Min)	Spares Availability
C08B	D08301 ST01	12.70	7.75	8.51	4.45	11.80	17.00	20.90	0.50	0.75	1840	A,B,C,D
C10B	D10101 ST01	15.875	9.65	10.16	5.08	14.70	19.60	23.70	0.67	0.98	2290	A,B,C,D
C12B	D12001 ST01	19.05	11.68	12.07	5.72	16.10	22.70	27.30	0.88	1.24	2960	A,B,C,D
C16B	D16001 ST01	25.40	17.02	15.88	8.27	24.10	36.10	41.50	2.07	3.30	6120	A,B,C,D
	D16001 ST02	25.40	17.02	15.88	8.27	20.58	36.10	41.50	2.07	3.30	6120	A,B,C,D
C20B	D20001 ST01	31.75	19.56	19.05	10.19	26.40	43.20	49.30	2.91	3.91	9690	A,B,C,D
C24B	D24001 ST01	38.10	25.40	25.40	14.63	33.40	53.40	60.00	5.49	7.16	16310	B,C,D
C28B	D28001 ST01	44.45	30.99	27.94	15.90	37.00	65.10	72.50	7.26	8.79	20390	B,C,D
C32B	D32001 ST01	50.80	30.99	29.21	17.81	42.20	67.40	75.30	8.05	10.42	25500	B,C,D

Note : Spares E & F are available for all models

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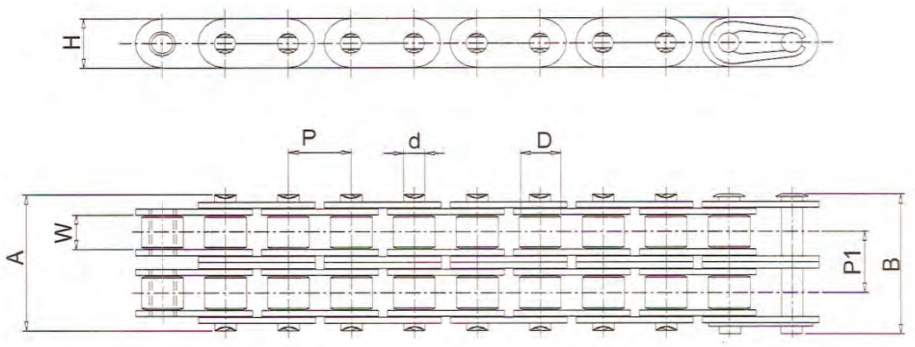

DOUBLE STRAND

Intl. Ref No.	DIAMOND Chain No.	Pitch (P)	Width between inner Plates (W) (Min)	Roller DIA (D) (Max)	Bearing Pin Dia (d) (Max)	Plate Height (H) (Max)	Width Over Bearing Pin (A) (Max)	Width Over Joint Fasteners (B) (Max)	Transverse Pitch (P1)	Projected Bearing Area Sq.cm	Avg. Weight Per Metre(kg)	Tensile Strength (Kgf) (Min)	Spares Availability
C08B	D083 02 ST 01	12.70	7.75	8.51	4.45	11.80	31.00	34.90	13.92	1.00	1.44	3270	A,B,C,D
C10B	D101 02 ST 01	15.875	9.65	10.16	5.08	14.70	36.20	40.30	16.59	1.34	1.97	4540	A,B,C,D
C12B	D120 02 ST 01	19.05	11.68	12.07	5.72	16.10	42.20	46.80	19.46	1.76	2.27	5900	A,B,C,D
C16B	D160 02 ST 01	25.40	17.02	15.88	8.27	24.10	68.00	73.40	31.88	4.14	5.81	11600	A,B,C,D
	D160 02 ST 02	25.40	17.02	15.88	8.27	20.58	68.00	73.40	31.88	4.14	5.78	11600	A,B,C,D
C20B	D200 02 ST 01	31.75	19.56	19.05	10.19	26.40	79.00	85.10	36.45	5.82	9.72	17330	B,C,D
C24B	D240 02 ST 01	38.10	25.40	25.40	14.63	33.40	101.00	107.60	48.36	10.98	14.15	28850	B,C,D
C28B	D280 02 ST 01	44.45	30.99	27.94	15.90	37.00	124.00	131.40	59.56	14.52	17.39	36700	B,C,D
C32B	D320 02 ST 01	50.80	30.99	29.21	17.81	42.20	126.00	133.90	58.55	16.10	20.63	45880	B,C,D

TRIPLE STRAND

Intl. Ref No.	DIAMOND Chain No.	Pitch (P)	Width between inner Plates (W) (Min)	Roller DIA (D) (Max)	Bearing Pin Dia (d) (Max)	Plate Height (H) (Max)	Width Over Bearing Pin (A) (Max)	Width Over Joint Fasteners (B) (Max)	Transverse Pitch (P1)	Projected Bearing Area Sq.cm	Avg. Weight Per Metre(kg)	Tensile Strength (Kgf) (Min)	Spares Availability
C08B	D083 03 ST01	12.70	7.75	8.51	4.45	11.80	44.90	48.80	13.92	1.50	2.03	4850	A,B,C,D
C10B	D101 03 ST01	15.875	9.65	10.16	5.08	14.70	52.80	56.90	16.59	2.01	2.72	6810	A,B,C,D
C12B	D120 03 ST01	19.05	11.68	12.07	5.72	16.10	61.70	66.30	19.46	2.64	3.42	8850	A,B,C,D
C16B	D160 03 ST01	25.40	17.02	15.88	8.27	24.10	99.00	105.30	31.88	6.21	8.83	17400	A,B,C,D
	D160 03 ST02	25.40	17.02	15.88	8.27	20.58	99.90	105.30	31.88	6.21	8.86	17400	A,B,C,D
C20B	D200 03 ST01	31.75	19.56	19.05	10.19	26.40	116.00	122.10	36.45	8.73	11.53	25490	A,B,C,D
C24B	D240 03 ST01	38.10	25.40	25.40	14.63	33.40	150.00	156.60	48.36	16.47	21.15	43330	B,C,D
C28B	D280 03 ST01	44.45	30.99	27.94	15.90	37.00	184.00	191.40	59.56	21.78	26.00	54040	B,C,D
C32B	D320 03 ST01	50.80	30.99	29.21	17.81	42.20	281.00	291.00	58.55	24.15	30.84	68320	B,C,D

Note : Spares E & F are available for all models

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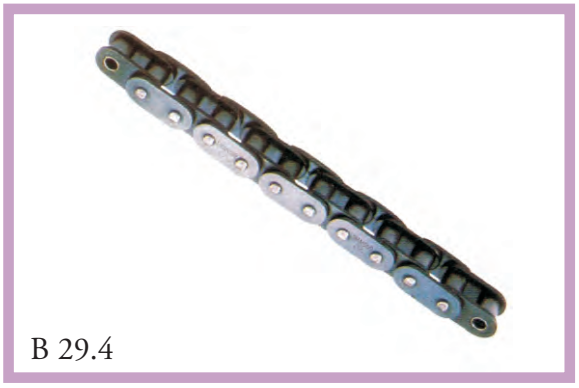
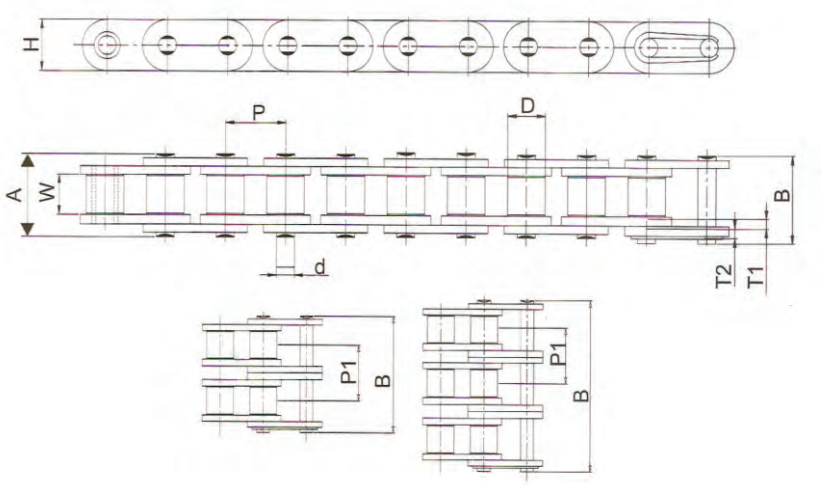
STANDARD ROLLER CHAINS

STRAIGHTH SIDE PLATE CHAINS – AMERICAN SERIES

This straight side plate chains are identical to the corresponding American standard chains except for the straight side plates. The chains have higher fatigue resistance than the standard chains.





Intl Ref No.	Diamond Chain No.	Pitch (P)	Width between Inner Plates (W) (MIN)	Roller Dia (D) (MAX)	Bearing PinDia (d) (MAX)	Plate Heigth (H) (MAX)	Plate Thickness Joint IP T1	Plate Thickness Joint OP T2	Width over Bearing Pin (A) (MAX)	Width over Joint Fasteners (B) (MAX)	Transverse Pitch (P1)	Avg. Weigth Per Metre (Kg)	Tensile Strength (Kgf) (MIN)	Spares Availability
C40-1	D08A01ST01	12.70	7.85	7.92	3.96	12.00	1.50	1.50	17.80	21.70	14.38	0.67	1440	A,B,C,D
C40-2	D08A02ST01								32.30	38.20		1.32	2880	A,B,C,D
C40-3	D08A03ST01								46.70	50.80		1.98	4320	A,B,C,D
C50-1	D10201ST02	15.875	9.40	10.16	5.08	15.00	2.00	2.00	21.80	25.90	18.11	1.59	2270	A,B,C,D
C50-2	D10202ST02								39.90	44.00		2.06	4540	A,B,C,D
C50-3	D10203ST02								57.90	62.00		3.07	6810	A,B,C,D
C60-1	D12101ST01	19.05	12.58	11.91	5.94	18.00	2.39	2.39	26.90	31.50	22.78	1.76	3240	A,B,C,D
C60-2	D12102ST01								49.70	54.40		3.12	6490	A,B,C,D
C60-3	D12103ST01								72.60	77.20		4.67	9730	A,B,C,D
C80-1	D16101ST01	25.40	15.75	15.88	7.92	24.10	3.15	3.15	33.50	38.90	29.29	3.23	5780	A,B,C,D
C80-2	D16102ST01								62.70	68.10		5.2	11560	A,B,C,D
C80-3	D16103ST01								91.90	97.10		7.77	17340	A,B,C,D
C100-1	D20101ST01	31.75	18.90	19.05	9.53	30.10	4.00	4.00	41.10	47.20	35.76	4.01	9030	A,B,C,D
C100-2	D20102ST01								77.70	83.10		7.93	18060	A,B,C,D
C100-3	D20103ST01								113.00	119.10		11.86	27090	A,B,C,D
C120-1	D24101ST01	38.10	25.22	22.23	11.10	36.20	4.70	4.70	50.80	57.40	45.44	5.74	12950	B,C,D
C120-2	D24102ST01								96.30	102.90		11.37	25900	B,C,D
C120-3	D24103ST01								141.03	147.60		17.01	38850	B,C,D
C160-1	D32101ST01	50.80	31.55	28.58	14.27	47.78	6.30	6.30	65.50	73.40	58.55	7.47	23130	B,C,D
C160-2	D32102ST01								124.00	131.90		14.81	46250	B,C,D
C160-3	D32103ST01								182.00	189.90		22.16	69370	B,C,D

Note : Spares E & F are available for all models

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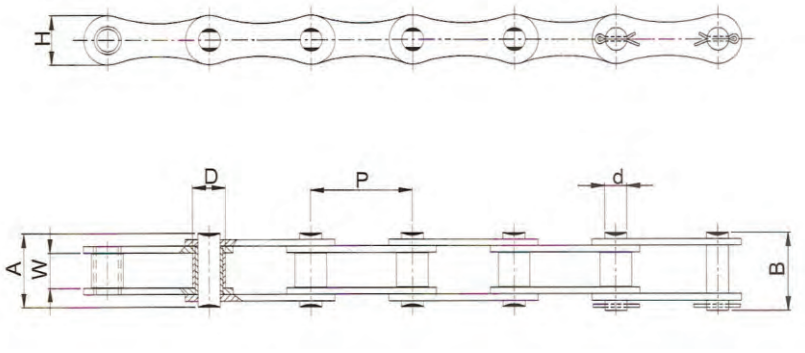
STANDARD ROLLER CHAINS

DOUBLE PITCH DRIVE CHAINS

The pitch of the chains is twice that of standard chains while other components have the same dimensions of the corresponding standard chains. These cost effective chains are used in light load drives typically agriculture.



ISO 1275/BS468T/DIN 8181

AMERICAN SERIES

Intl Ref No.	DIAMOND Chain No.	PITCH (P)	Width between Inner Plates (W) (MIN)	Roller Dia (D) (MAX)	Pin Dia (d) (MAX)	Plate Height (H) (MAX)	Width over bearing Pin (A) (MAX)	Width over Joint Fasteners (B) (MAX)	Avg. Weigth Per Metre (kg)	Tensile Strength (Kgf) (MIN)
A2040	E08A01	25.40	7.85	7.92	3.96	11.65	17.80	21.70	0.41	1440
A2050	E10201	31.75	9.40	10.16	5.08	13.90	21.80	25.90	0.66	2270
A2060	E12101	38.10	12.58	11.91	5.94	18.10	26.90	31.50	1.03	3240
A2080	E16101	50.80	15.75	15.88	7.92	24.10	33.50	38.90	1.70	5780
A2100	E20101	63.50	18.90	19.05	9.53	29.02	41.10	47.20	2.55	9030
A2120	E24101	76.20	25.22	22.23	11.10	34.82	50.80	57.40	4.06	12950

EUROPEAN SERIES

208B	E08301	25.40	7.75	8.51	4.45	11.65	17.00	20.90	0.47	1840
210B	E10101	31.75	9.65	10.16	5.08	13.90	19.60	23.70	0.68	2290
212B	E12001	38.10	11.68	12.07	5.72	15.30	22.70	27.30	0.80	2960
216B	E16001	50.80	17.02	15.88	8.27	20.65	36.10	41.50	1.42	6120
220B	E20001	63.50	19.56	19.05	10.19	26.42	43.20	49.30	2.36	9690
224B	E24001	76.20	25.40	25.40	14.63	33.40	53.40	60.00	4.70	16310
228B	E28001	88.90	30.99	27.94	15.90	37.00	65.10	72.50	6.23	20390
232B	E32001	101.60	30.99	29.21	17.81	42.20	67.40	75.30	6.72	25500

Above spares are available for all models

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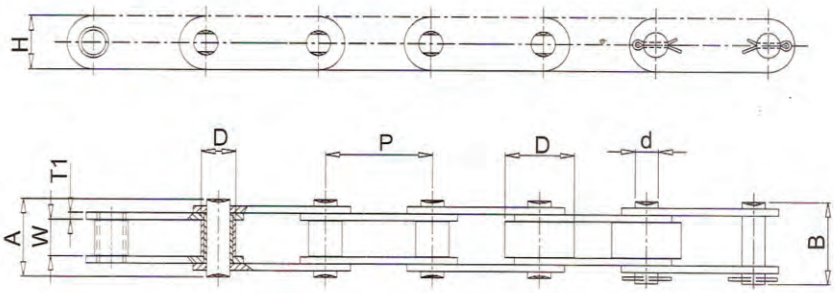
STANDARD ROLLER CHAINS

DOUBLE PITCH CONVEYOR CHAINS – AMERICAN SERIES

The chains are similar to double pitch power transmission chains, but the Link Plates have a straight contour and can be produced with standard or large rollers. They are used in conveyor applications where loads are low and speeds are moderate.



ISO 1275/ ANSI B29.4

Intl Ref No.	DIAMOND Chain No.	PITCH (P)	Width between Inner Plates (W) (MIN)	Roller Dia* (D) (MAX)	Pin Dia (d) (MAX)	Plate Height (H) (MAX)	Plate Thickness (T1)	Width over bearing Pin (A) (MAX)	Width over Joint Fasteners (B) (MAX	Avg. Weigth Per Metre (kg)	Tensile Strength (Kgf) (MIN)
C2040	A 08A 01	25.40	7.85	7.92	3.96	11.66	1.50	17.80	21.70	0.49	1440
C2042	A 08A 02			15.88						0.84	
C2050	A 10201	31.75	9.40	10.16	5.08	14.58	2.00	21.80	25.90	0.81	2270
C2052	A 10202			19.05						1.28	
C2060	A 12101	38.10	12.58	11.91	5.94	18.06	2.39	26.90	31.50	1.20	3240
C2062	A 12102			22.23						1.92	
C2060H	A 12201	38.10	12.58	11.91	5.94	18.06	3.15	31.20	35.80	1.50	3240
C2062H	A 12202			22.23						1.92	
C2080	A 16101	50.80	15.75	15.88	7.92	24.05	3.15	33.50	38.90	2.10	5780
C2082	A 16102			28.58						3.18	
C2080H	A 16201	50.80	15.75	15.88	7.92	24.05	4.00	38.00	43.40	2.52	5780
C2082H	A 16202			28.58						3.60	
C2100	A 20101	63.50	18.90	19.05	9.53	29.26	4.00	41.10	47.20	3.21	9030
C2102	A 20102			39.67						5.45	
C2100H	A 20201	63.50	18.90	19.05	9.53	29.26	4.70	43.40	46.70	3.56	9030
C2102H	A 20202			39.67						5.38	
C2120	A 24101	76.20	25.22	22.23	11.10	36.20	4.70	50.80	57.40	4.66	12950
C2122	A 24202			44.45						7.66	
C2120H	A 24201	76.20	25.22	22.23	11.10	36.20	5.56	55.10	61.70	5.26	12950
C2122H	A 24202			44.45						8.26	
C2160	A 32101	101.60	31.55	28.58	14.27	48.26	5.56	65.50	73.40	8.15	23130
C2162	A 32102			57.15						13.00	
C2160H	A 32201	101.60	31.55	28.58	14.27	48.26	7.14	70.00	77.90	9.06	23130
C2162H	A 32202			57.15						12.77	

*Select roller diameter for ordering.

Above spares are available for all models

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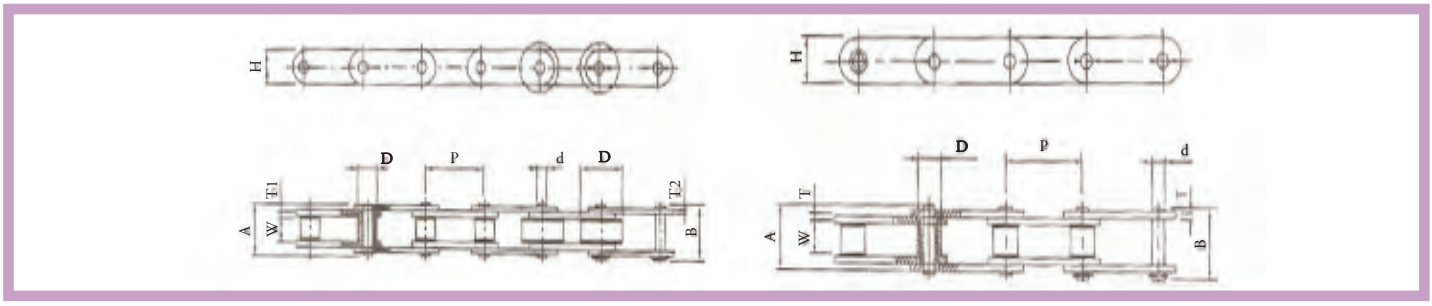
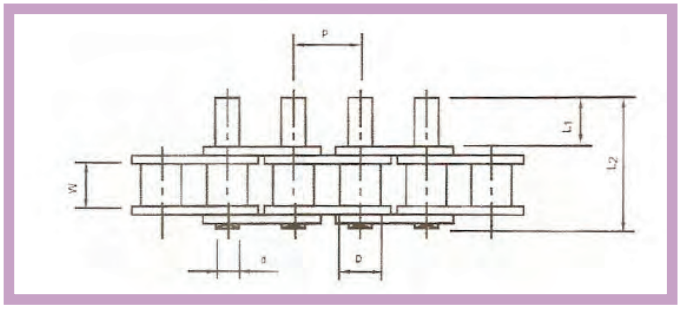
DOUBLE PITCH CHAINS AS PER ANSI B29.4M

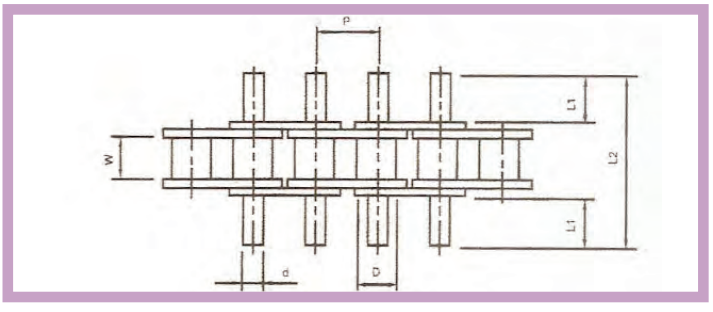


TIDC Chain No.	No. Of Strands	ANSI MP	Pitch (P)	Width bet.Inner Plates (w) (Min.)	Roller Dia (D) (Max.)	Plate Depth (H) (Max)	Plate Thickness (T)	Pin Dia (d) (Max.)	B/Pin Length (A) (Max.)	C/Pin Length (B) (Max)	Average Weigth (Kg/m)	Tensile Strength (KGF) (MIN)
A 081 01 A 08A 01	01 01	C 2040 C 2042	25.40	7.85	7.92 15.88	12.07	1.50	3.97	17.40	21.30	0.67 0.98	1,440
A 102 01 A 102 02	01 01	C 2050 C 2052	31.75	9.40	10.16 19.05	15.09	2.00	5.08	20.20	24.30	1.06 1.59	2,270
A 121 01 A 121 02	01 01	C 2060 C 2062	38.10	12.58	11.91 23.23	18.08	2.39	5.96	26.90	31.50	1.57 2.15	3,240
A 122 01 A 122 02	01 01	C 2060H C 2062H	38.10	12.58	11.91 22.22	18.08	2.15	5.96	31.20	35.80	1.82 2.45	3,240
A 161 01 A 161 02	01 01	C 2080 C 2082	50.80	15.75	15.88 28.58	24.13	3.15	7.92	33.50	38.09	2.62 3.51	5,780
A 162 01 A 162 02	01 01	C 2080H C 2082H	50.80	15.75	15.87 28.58	24.13	4.00	7.92	38.00	43.40	3.09 3.97	5,780
A 202 02 A 201 02	01 01	C 2100 C 2102	63.50	18.90	19.05 39.67	30.18	4.00	9.53	41.10	47.20	3.21 5.45	9,030

Dimensions in mm

EXTENDED PIN CHAINS





EXTENDED PIN ONE SIDE

ISO NO.	TIDC Chain No.	Pitch (P)	Width BET INNER PLATE (W) (MIN)	Roller Dia (D) (MAX)	Pin Dia (D) (MAX)	Pin extension (L1) (MAX)	Pin length (L2) (MAX)
06B	D 061 01 J102	9.252	5.72	6.35	3.28	11.00	23.80
08B	D 083 01 J1 01	12.70	7.75	8.51	4.45	15.15	31.00
10B	D 101 01 J1 03	15.875	9.65	10.16	5.08	17.60	36.20
12B	D 120 01 J1 06	19.05	11.68	12.07	5.72	20.85	42.20
16B	D 160 01 J1 02	25.40	17.02	15.88	8.28	33.80	68.00
08A	D 08A 01J1 01	12.70	7.85	7.92	3.96	15.42	30.80
10A	D 102 01 J1 03	15.875	9.40	10.16	5.08	20.62	39.90
12A	D 121 01 J1 01	19.05	12.57	11.91	5.94	25.70	49.80
16A	D 161 01 J1 02	25.40	15.75	15.87	7.92	31.50	62.70

EXTENDED PIN BOTH SIDES

ISO NO.	TIDC Chain No.	Pitch (P)	Width BET INNER PLATE (W) (MIN)	Roller Dia (D) (MAX)	Pin Dia (D) (MAX)	Pin extension (L1) (MAX)	Pin length (L2) (MAX)
06B	D 061 01 J201	9.252	5.72	6.35	3.28	5.90	23.80
08B	D 083 01 J201	12.70	7.75	8.51	4.45	8.10	31.00
10B	D 101 01 J201	15.875	9.65	10.16	5.08	9.35	36.20
12B	D 120 01 J201	19.05	11.68	12.07	5.72	11.10	42.20
16B	D 160 01 J201	25.40	17.02	15.88	8.28	8.20	68.00
08A	D 08A 01 J2 01	12.70	7.85	7.92	3.96	8.20	30.80
10A	D 102 01 J203	15.875	9.40	10.16	5.08	10.90	39.90
12A	D 121 01 J201	19.05	12.57	11.91	5.94	13.50	49.80
16A	D 161 01 J201	25.40	15.75	15.87	7.92	16.70	62.70

Dimensions in mm

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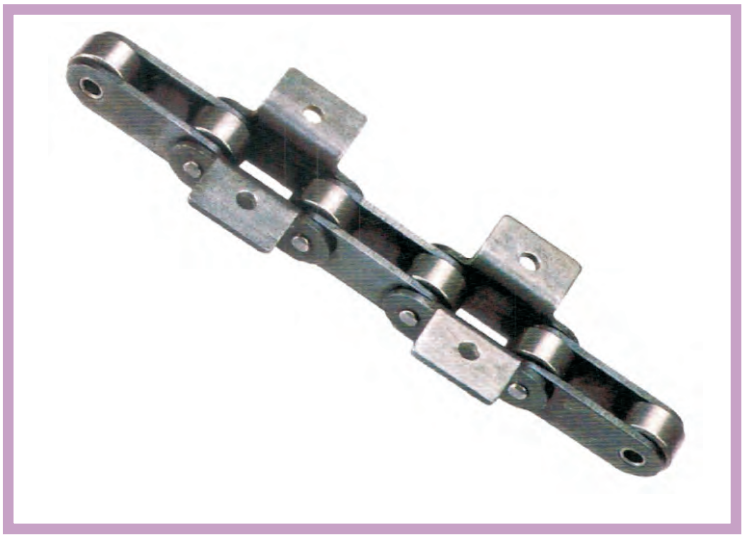
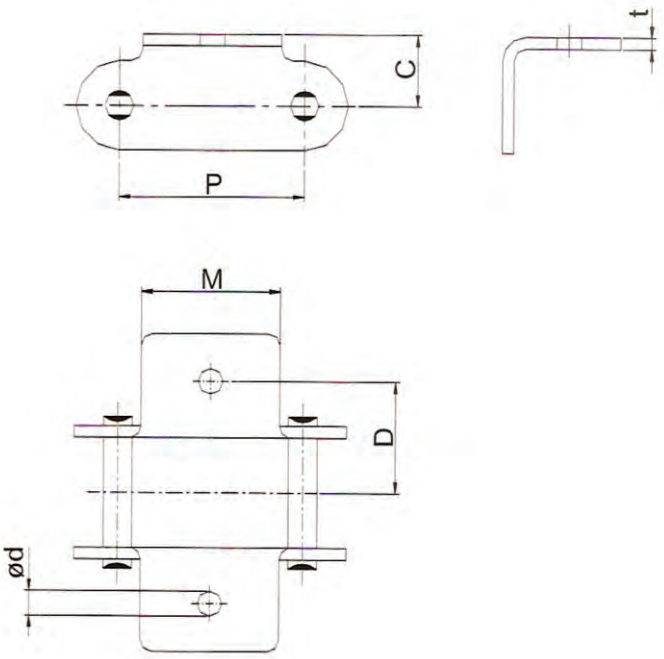
ATTACHMENT CHAINS

DOUBLE PITCH K1 ATTACHMENTS

ANSI B 29.4 OUTER attachment for American series





Base Chain Model	DIAMOND ATT. No	Pitch (P)	Thickness (t)	M	d	D	C
C2040	32-A 08 01 BK1	25.40	1.50	19.10	3.33	12.70	9.12
C2042							
C2050	32-A 102 01 K1 01	31.75	2.00	23.80	5.08	15.83	11.13
C2052							
C2060	32-A 121 01 K1 01	38.10	2.39	28.60	5.08	21.44	14.68
C2062							
C2060H	32-A 122 01 K1 01	38.10	3.15	28.60	5.08	21.44	14.68
C2062H							
C2080	32-A 161 01 K1 01	50.80	3.15	38.10	6.63	27.79	19.05
C2082							
C2080H	32-A 162 01 BK1 01	50.80	4.00	38.10	6.63	27.79	19.05
C2082H							
C2100	32-A 201 01 K1 01	63.50	4.00	47.60	8.20	33.32	23.42
C2102							
C2100H	32-A 202 01 K1 01	63.50	4.70	47.60	8.20	33.32	23.42
C2102H							
C2120	32-A 241 01 K1 01	76.20	4.70	57.20	9.80	39.67	27.79
C2122							
C2120H	32-A 242 01 K1 01	76.20	5.56	57.20	9.80	39.67	27.79
C2122H							
C2160	32-A 321 01 K1 01	101.60	5.56	76.20	13.11	52.37	36.53
C2162							
C2160H	32-A 322 01 K1 01	101.60	7.14	76.20	13.11	52.37	36.53
C2162H							

Note : Please select the required attachment plate and specify the frequency of positioning the attachments while ordering for chains.

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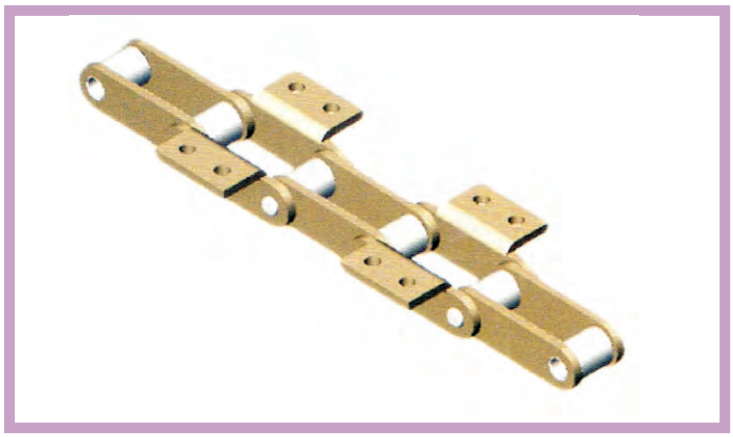
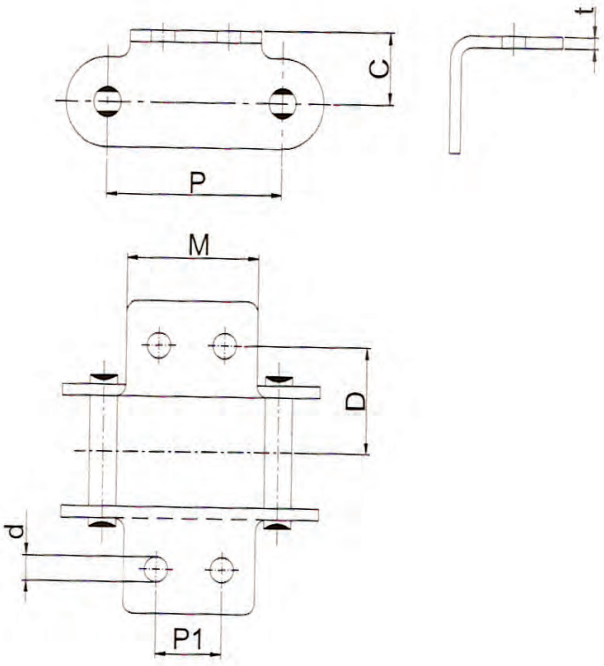
ATTACHMENT CHAINS

DOUBLE PITCH K2 ATTACHMENTS

ANSI B29..4 Outer attachments for American Series





Base Chain Model	DIAMOND ATT. No	Pitch (P)	Thickness (t)	M	d	D	C	P1
C2040	32-A 08A 01 K2 01	25.40	1.50	19.10	3.33	12.70	9.12	9.52
C2042								
C2050	32-A 102 01 SK2	31.75	2.00	23.80	5.08	15.83	11.13	11.91
C2052								
C2060	32-A 121 01 SK2	38.10	2.39	28.60	5.08	21.44	14.68	14.30
C2062								
C2060H	32-A 122 01 K2 01	38.10	3.15	28.60	5.08	21.44	14.68	14.30
C2062H								
C2080	32-A 161 01 K2 01	50.80	3.15	38.10	6.63	27.79	19.05	19.05
C2082								
C2080H	32-A 162 01 K2 05	50.80	4.00	38.10	6.63	27.79	19.05	19.05
C2082H								
C2100	32-A 201 01 K2 01	63.50	4.00	47.60	8.20	33.32	23.42	23.83
C2102								
C2100H	32-A 202 01 K2 01	63.50	4.70	47.60	8.20	33.32	23.42	23.83
C2102H								
C2120	32-A 241 01 K2 01	76.20	4.70	57.20	9.80	39.67	27.79	28.58
C2122								
C2120H	32-A 242 01 K2 01	76.20	5.56	57.20	9.80	39.67	27.79	28.58
C2122H								
C2160	32-A 321 01 K2 01	101.60	5.56	76.20	13.11	52.37	36.53	38.10
C2162								
C2160H	32-A 322 01 K2 01	101.60	7.14	76.20	13.11	52.37	36.53	38.10
C2162H								

Note : Please select the required attachment plate and specify the frequency of positioning the attachments while ordering for chains.

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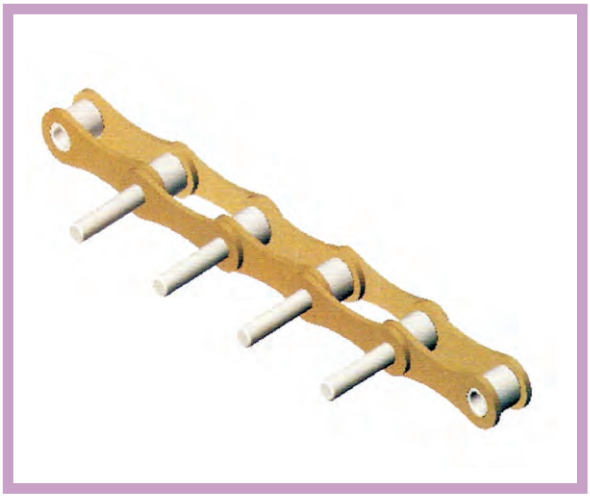
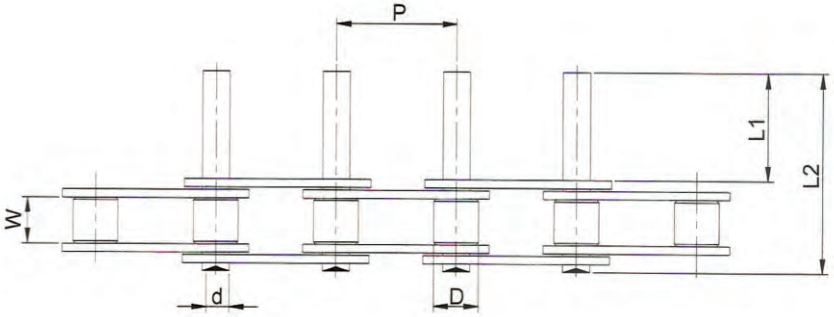
EXTENDED PIN CHAINS

DOUBLE PITCH CHAINS





The series of Extended Pin Chains are used to transfer parts to different work stations, indexing Mechanisms etc.

AMERICAN SERIES

Intl Ref No.	DIAMOND Chain No.	PITCH (P)	Width between Inner Plates (W) (MIN)	Roller Dia (D) (MAX)	Extended Pin Dia (d) (MAX)	Pin Extension L1	Extended Pin Length L2
A2040	E08A01	25.40	7.85	7.92	3.96	9.50	16.70
A2050	E10201	31.75	9.40	10.16	5.08	11.90	21.00
A2060	E12101	38.10	12.58	11.91	5.94	14.60	27.80
A2080	E16101	50.80	15.75	15.88	7.92	19.00	35.30
A2100	E20101	63.50	18.90	19.05	9.53	23.80	43.40
A2120	E24101	76.20	25.22	22.23	11.10	28.60	52.40

EUROPEAN SERIES

208B	E08301	25.40	7.75	8.51	4.45	9.50	16.70
210B	E10101	31.75	9.65	10.16	5.08	11.90	21.00
212B	E12001	38.10	11.68	12.07	5.72	14.60	27.80
216B	E16001	50.80	17.02	15.88	8.27	19.00	35.30
220B	E20001	63.50	19.65	19.05	10.19	28.80	43.40

Note : Please specify Extended Pin Type , Length , Diameter and Frequency while ordering for chains.
(Pin Extension can be provided on one side or both sides)

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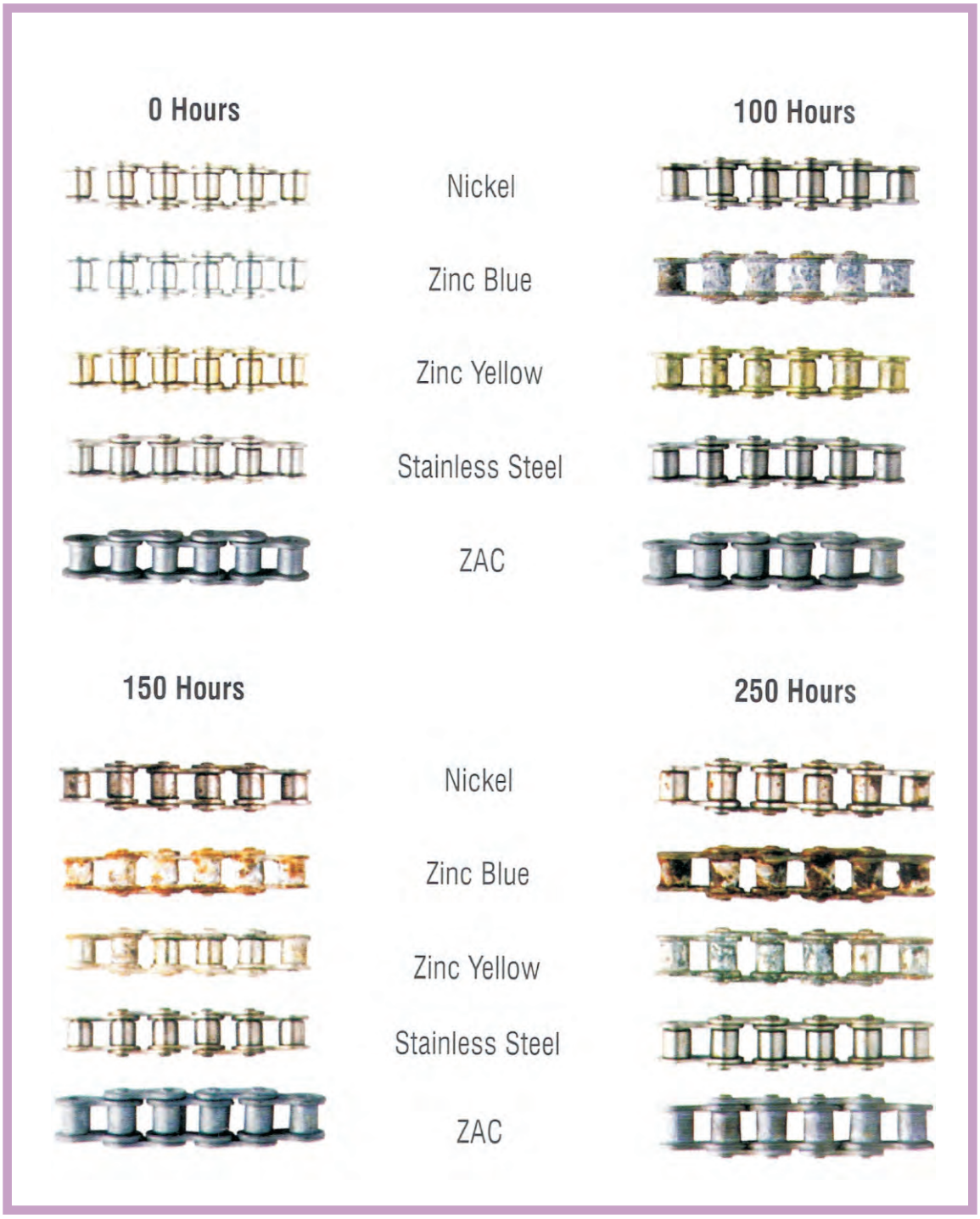
ZAC CHAINS

ZAC chains are built to provide outstanding corrosion resistance, with the same strength and breaking load values of standard chains. A special coating fights corosion in the most aggressive environments. Zac chain superiority has been proven against Nickel, Zinc and other plated chains.



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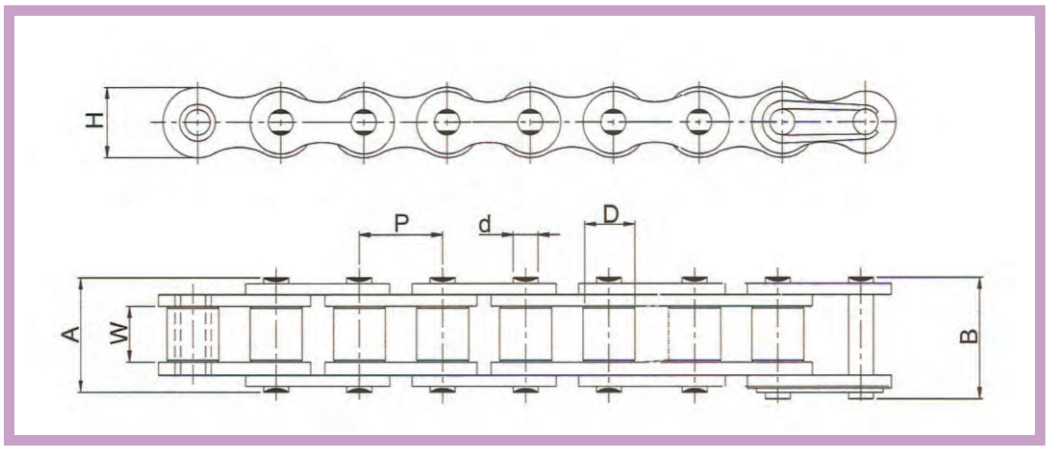
CORROSION RESISTANT CHAINS

PLATED CHAINS – EUROPEAN SERIES



Nickel plated chains : These chains are ideal for use in light corrosive atmosphere or where good appearance is required.

Zinc plated chains : These chains are used in corrosive atmosphere and outdoor applications

ZAC chains : Excellent corrosion resistance with same strength and breaking load values as standard chains. The chains are designed to withstand a minimum of 250 hrs of salt spray testing as per ASTM B 117.

Intl Ref no.	Pitch (P)	Width between Inner Plates (W) MIN	Roller Dia (D) MAX	Plate Height (H) Max	Bearing Pin Dia (d) MAX	Width over bearing Pin (A) MAX	Width over joint Fasteners (B) MAX	Projected bearing Area (sq.cm)	Avg Weight per metre (Kg)	Tensile Strength (Kgf) MIN		
										NP	ZP	ZAC
04B-1	6.00	2.80	4.00	5.00	1.85	7.40	10.30	0.08	0.12	300	260	300
05B-1	8.00	3.00	5.00	7.10	2.31	8.60	11.70	0.11	0.18	510	430	510
06B-1*	9.525	5.72	6.35	8.20	3.28	13.50	16.80	0.28	0.40	920	780	920
08B-1	12.70	7.75	8.51	11.80	4.45	17.00	20.90	0.50	0.68	1840	1560	1840
10B-1	15.875	9.65	10.16	14.70	5.08	19.60	23.70	0.67	0.91	2290	1940	2290
12B-1	19.05	11.68	12.07	16.10	5.72	22.70	27.30	0.88	1.12	2960	2510	2960
16B-1	25.40	17.02	15.88	21.00	8.27	36.10	41.50	2.07	2.59	6120	5200	6120

*Straight Sided Plate

Note :

NP - Nickel Plated

ZP - Zinc Plated

ZAC - Special Coating For High Corrosion Resistance

Also available with straight side plates and in Double , Triple strands

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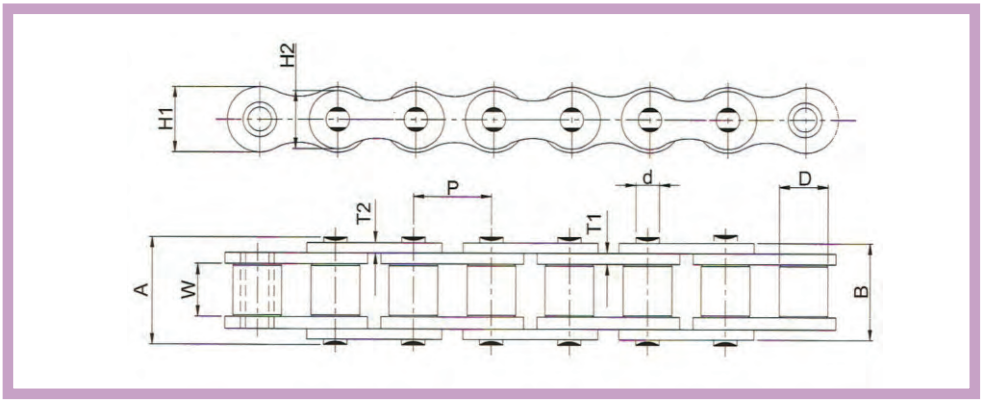
CORROSIN RESISTANCE CHAINS

PLATED CHAINS – AMERICAN SERIES



Nickel plated chains : These chains are ideal for use in light corrosive atmosphere or where good appearance is required.

Zinc plated chains : These chains are used in corrosive atmosphere and outdoor applications

ZAC chains : Excellent corrosion resistance with same strength and breaking load values as standard chains. The chains are designed to withstand a minimum of 250 hrs of salt spray testing as per ASTM B 117.

Intl Ref no.	Pitch (P)	Width between Inner Plates (W) MIN	Roller Dia (D) MAX	Plate Height (H) Max		Plate Thickness		Bearing Pin Dia (d) MAX	Width over bearing Pin (A) MAX	Width over joint Fasteners (B) MAX	Projected bearing Area (sq.cm)	Avg Weight per metre (Kg)	Tensile Strength (Kgf) MIN		
				IP (H1) MAX	OP (H2) MAX	IP (T1)	OP (T2)						NP	ZP	ZAC
25-1	6.35	3.18	3.30	5.80	5.25	0.75	0.75	2.31	7.80	9.60	0.11	0.13	360	300	250
35-1	9.525	4.68	5.08	8.65	7.48	1.25	1.25	3.59	12.18	13.18	0.27	0.34	800	670	570
40-1*	12.70	7.85	7.92	12.00	10.41	1.50	1.50	3.96	17.80	21.70	0.44	0.63	1440	1220	1030
41-1	12.70	6.30	7.80	9.60	8.30	1.30	1.30	3.60	14.80	18.70	0.30	0.40	680	570	490
50-1	15.875	9.40	10.16	15.00	13.00	2.00	2.00	5.08	21.80	25.90	0.71	1.04	2270	1920	1630
60-1	19.05	12.58	11.91	18.00	16.60	2.39	2.39	5.94	26.90	31.50	1.04	1.52	3240	2750	2340
80-1	25.40	15.75	15.88	24.10	20.80	3.15	3.15	7.92	33.50	38.90	1.77	3.08	5780	4910	4170

Note :

NP - Nickel Plated

ZP - Zinc Plated

ZAC - Special Coating For High Corrosion Resistance

Also available with straight side plates and in Double , Triple strands

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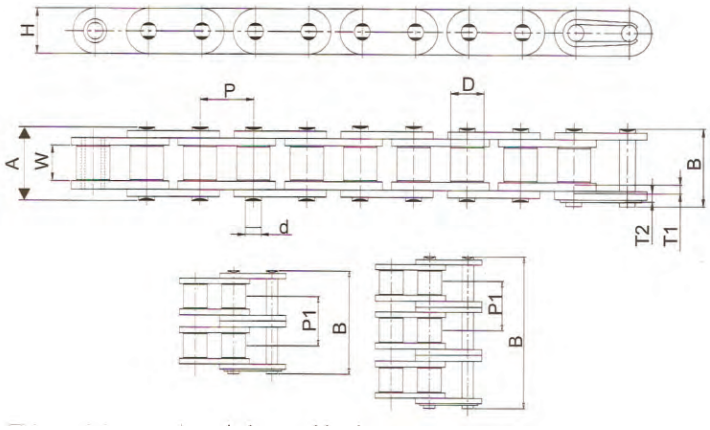
CORROSION RESISTANT CHAINS

STAINLESS STEEL CHAINS – EUROPEAN SERIES



Stainless steel (SS 3040 chains with solid rollers are designed to offer excellent corrosion resistance and are used in atmosphere where chains are exposed to chemical, water and heat. They can operate in a temperature range of -0 deg to 400 deg c

SINGLE STRAND

Intl Ref no.	DIAMOND Chain No.	Pitch (P)	Width between Inner Plates (W) MIN	Roller Dia (D) MAX	Plate Height (H) Max	Bearing Pin Dia (d) MAX	Width over bearing Pin (A) MAX	Width over joint Fasteners (B) MAX	Transverse Pitch (P1)	Projected bearing Area (sq.cm)	Avg Weight per metre (Kg)	Tensile Strength (Kgf) MIN
05B-1	D05B01SS01	8.00	3.00	5.00	7.10	2.31	8.60	11.70	-	0.11	0.39	300
06B-1*	D06101SS01	9.525	5.72	6.35	8.20	3.28	13.50	16.80	-	0.28	0.44	650
08B-1	D08301SS01	12.70	7.75	8.51	11.80	4.45	17.00	20.90	-	0.50	0.70	1200
10B-1	D10101SS01	15.875	9.65	10.16	14.70	5.08	19.60	23.70	-	0.67	0.92	1450
12B-1	D2001SS01	19.05	11.68	12.07	16.10	5.72	22.70	27.30	-	0.88	1.12	1700
16B-1	D16001SS01	25.40	17.02	15.88	21.00	8.27	36.10	41.50	-	2.07	2.59	4000

DOUBLE STRAND

06B-1*	D06102SS01	9.525	5.72	6.35	8.20	3.28	23.80	27.10	10.24	0.56	0.74	1000
08B-2	D08302SS01	12.70	7.75	8.51	11.80	4.45	31.00	34.90	13.92	1.00	1.40	2160
10B-2	D10102SS01	15.875	9.65	10.16	14.70	5.08	36.20	40.30	16.59	1.34	3.00	2900
12B-2	D2002SS01	19.05	11.68	12.07	16.10	5.72	42.20	46.80	19.46	1.76	2.21	3800
16B-2	D16002SS01	25.40	17.02	15.88	21.00	8.27	68.00	73.40	31.88	4.14	5.08	7590

TRIPLE STRAND

06B-3*	D06103SS01	9.525	5.72	6.35	8.20	3.28	34.00	37.30	10.24	0.84	1.11	1820
08B-3	D08303SS01	12.70	7.75	8.51	11.80	4.45	44.90	48.80	13.92	1.00	1.31	3600
10B-3	D10103SS01	15.875	9.65	10.16	14.70	5.08	52.80	56.90	16.59	1.34	1.79	4300
12B-3	D12003SS01	19.05	11.68	12.07	16.10	5.72	61.70	66.30	19.46	1.76	2.22	5100
16B-3	D16003SS01	25.40	17.02	15.88	21.00	8.27	99.90	105.30	31.88	4.14	5.03	11900

*Straight Contour

Note : Straight side plate stainless steel chains are also available

Spares available for all models

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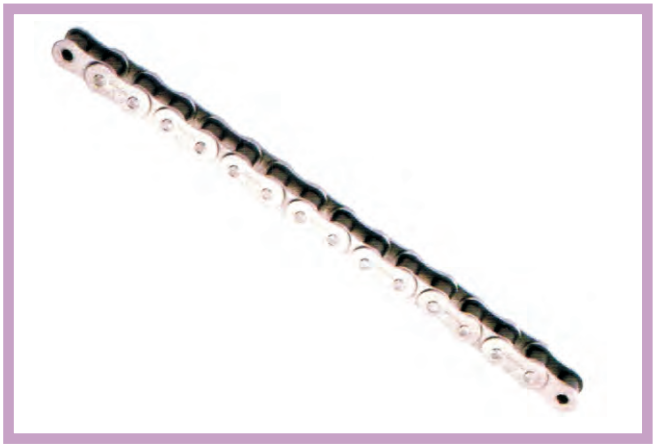
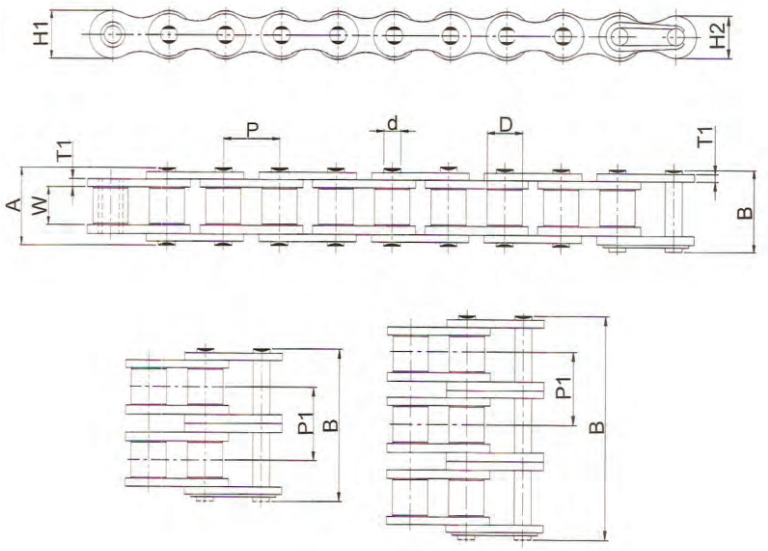
CORROSION RESISTANT CHAINS

STAINLESS STEEL CHAINS – AMERICAN SERIES





SINGLE STRAND

Intl Ref no.	DIAMOND Chain No.	Pitch (P)	Width between Inner Plates (W) MIN	Roller Dia (D) MAX	Plate Height (H) Max		Plate Thickness		Bearing Pin Dia (d) MAX	Width over bearing Pin (A) MAX	Width over joint Fasteners (B) MAX	Transverse Pitch (P1)	Projected bearing Area (sq.cm)	Avg Weight per metre (Kg)	Tensile Strength (Kgf) MIN
					IP H1 (MAX)	OP H2 (Max)	IPT1	OP T2							
35-1	B 06A 01 SS 01	9.525	4.68	5.08	8.65	7.48	1.25	1.25	3.59	12.18	13.18	-	0.27	0.33	570
40-1	D 08A 01 SS 01	12.70	7.85	7.92	12.00	10.40	1.50	1.50	3.96	17.80	21.80	-	0.44	0.63	1045
50-1	D 10201 SS 01	15.875	9.40	10.16	15.00	13.00	2.00	2.00	5.08	21.80	25.90	-	0.71	1.04	1710
60-1	D 12101 SS 01	19.05	12.58	11.91	18.00	16.60	2.40	2.40	5.94	26.90	31.50	-	1.04	1.53	2280
80-1	D 16101 SS 01	25.40	15.75	15.88	24.10	20.80	3.00	3.00	7.92	33.50	38.90	-	1.77	2.59	3700

DOUBLE STRAND

40-2	D 08A 02 SS 01	12.70	7.85	7.92	12.00	10.40	1.50	1.50	3.96	32.30	36.20	14.38	0.88	1.25	2090
50-2	D 102 02 SS 01	15.875	9.40	10.16	15.00	13.00	2.00	2.00	5.08	37.90	44.00	18.11	01.42	2.05	3420
60-2	D 121 02 SS 01	19.05	12.58	11.91	18.00	16.60	2.40	2.40	5.94	49.80	54.40	22.78	2.08	3.01	4560
80-2	D 161 02 SS 01	25.40	15.75	15.88	24.10	20.80	3.00	3.00	7.92	62.70	68.10	29.29	3.54	4.17	7400

TRIPLE STRAND

40-3	D 08A 03 SS 01	12.70	7.85	7.92	12.00	10.40	1.50	1.50	3.96	45.30	49.20	14.38	1.32	1.90	3300
50-3	D 102 03 SS 01	15.875	9.40	10.16	15.00	13.00	2.00	2.00	5.08	56.80	60.90	18.11	2.13	3.12	5200
60-3	D 121 03 SS 01	19.05	12.58	11.91	18.00	16.60	2.40	2.40	5.94	72.60	77.20	22.78	3.12	4.58	7500
80-3	D 161 03 SS 01	25.40	15.75	15.88	24.10	20.80	3.00	3.00	7.92	91.90	97.10	29.29	5.31	6.04	12500

Spares available for all models

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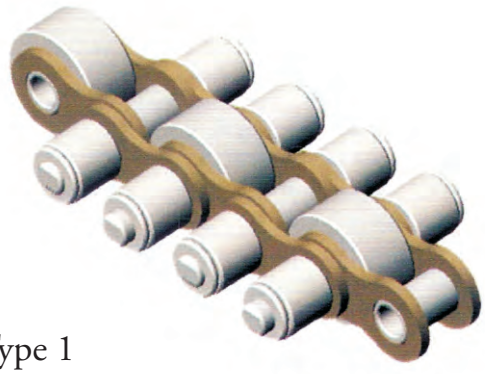
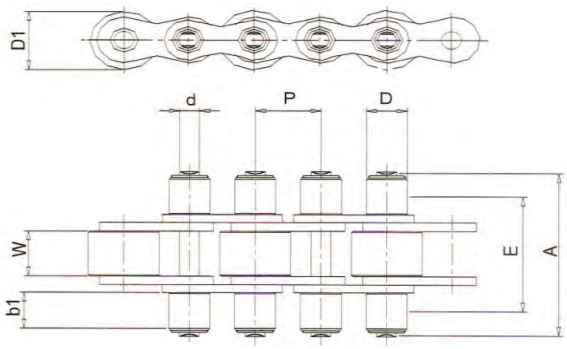
ACCUMULATOR CHAINS



Type 1

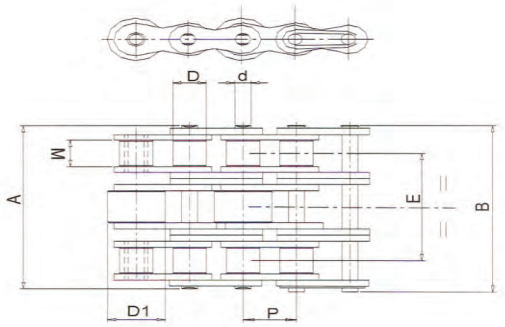


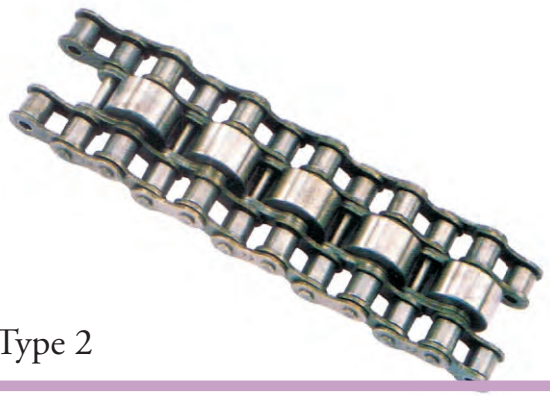
This type of conveyor chains are used for transporting parts, plates, pallets etc., which rests on the accumulator roller while the chain moves at a constant linear speed.

Diamond Chian No.	Pitch (P)	Width between inner plates (W) (MIN)	Width of Outboard Roller (b1)	Dia of Outboard Roller (D) (MAX)	Pin Dia (d) (MAX)	Pin Length (A) (MAX)	Centre Distance (E)	Conveyor Rollers			Avg. Weigth Per Metre (kg)	Tensile Strength (kgf) (MIN)
								DIA (D1) (MAX)	Material			
									Steel	Plastic		
D0803010B02	12.70	7.75	4.30	8.51	4.45	27.25	19.10	16.00	✓	✓	1.31	1820
D120010B01	19.05	11.68	11.10	12.07	5.72	48.00	31.50	24.00	✓	✓	2.98	2950
D120010B02	19.05	11.68	7.50	12.07	5.72	40.25	27.00	28.00	✓	✓	2.53	2950
D120010B03	19.05	11.68	8.80	12.07	5.72	43.00	29.20	26.00	✓	✓	2.12	2950
D160010B01	25.40	17.02	12.50	15.88	8.27	65.25	45.00	38.50	✓	✓	5.64	5800

Note : Spares available for all mod

ACCUMULATOR CHAINS





Type 2

Diamond Chian No.	Pitch (P)	Width between inner plates (W) (MIN)	Roller Dia (D) (MAX)	Pin Dia (d) (MAX)	Pin Length (A) (MAX)	Width over Joint Fasteners (B) (MAX)	Centre Distance (E)	Conveyor Rollers			Avg. Weigth Per Metre (kg)	Tensile Strength (kgf) (MIN)
								DIA (D1) (MAX)	Material			
									Steel	Plastic		
D03030003	12.70	7.75	8.51	4.45	44.90	46.75	27.84	16.00	✓	X	2.33	4540
D120030001	19.05	11.68	12.07	5.72	61.70	63.00	38.92	22.00	✓	X	3.42	8850
D120030002	19.05	11.68	12.07	5.72	61.72	63.00	38.92	28.00	✓	X	4.04	8850
D160030001	25.40	17.02	15.88	8.28	99.90	101.50	63.76	38.00	✓	X	10.63	17400
D160030002	25.40	17.02	15.88	8.28	99.90	101.50	63.76	27.00	✓	X	9.25	17400

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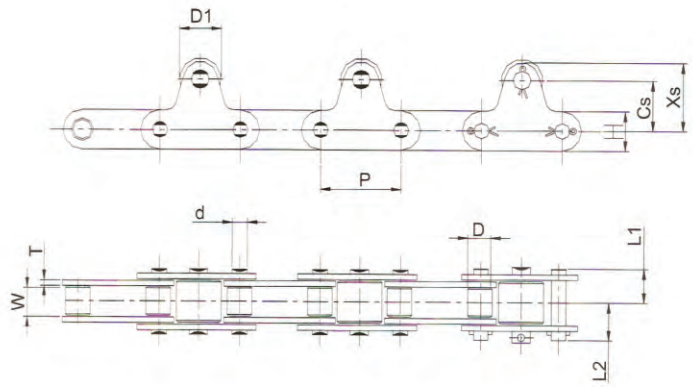
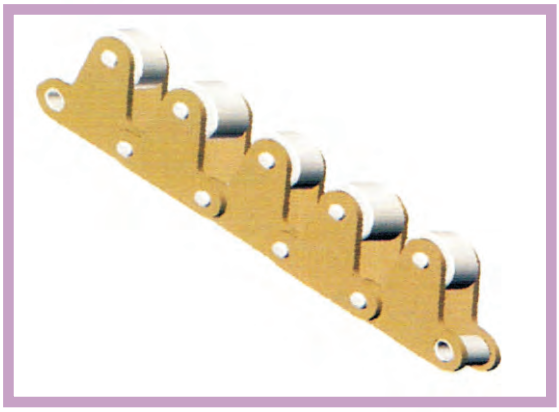
ACCUMULATOR CHAINS

TOP ROLLER CHAINS



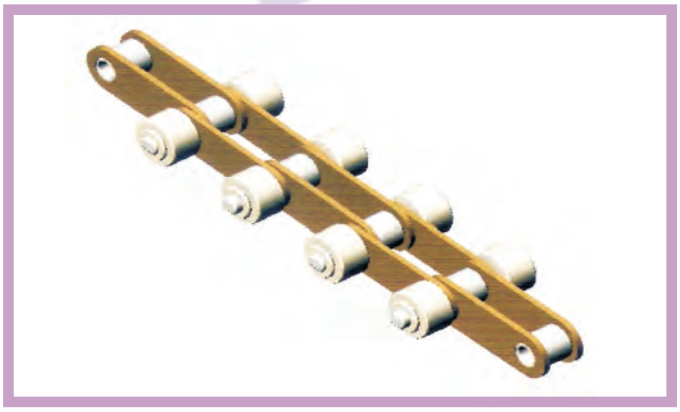


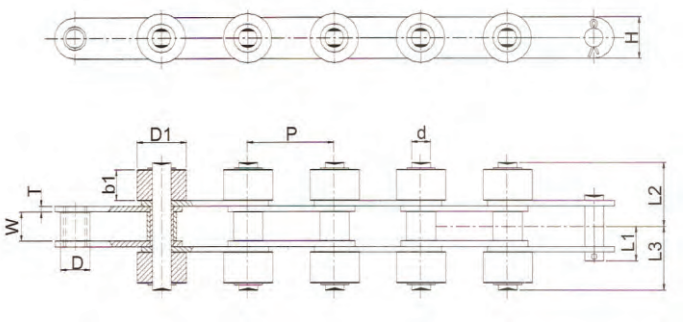
Intl.Ref. No	DIAMOND Chain No.	Pitch (P)	Width between Inner Plates (W) (MIN)	Roller Dia		Pin (MAX)			Link Plate		Cs	Xs	Material	
				D	D1	d	L1	L2	H	T			Steel	Plastic
C2040	A 08A01TR01	25.40	7.85	7.92	15.88	3.97	8.25	9.95	11.66	1.50	15.00	21.00	✓	✓
C2050	A 10201 TR01	31.75	9.40	10.16	19.05	5.08	10.30	12.00	14.58	2.00	19.00	26.50	✓	✓
C2060	A 12101 TR01	38.10	12.58	11.91	22.23	5.94	14.55	16.55	18.06	3.15	23.00	31.60	✓	✓
C2080	A 16101 TR01	50.80	15.75	15.88	28.58	7.92	18.30	20.90	24.05	4.00	29.00	40.50	✓	✓
C2100	A 20101 TR01	63.50	18.90	19.05	39.67	9.53	21.80	24.50	29.26	4.70	35.40	49.70	✓	✓

Note : Chains withlarge rollers are also available on request

ACCUMULATOR CHAINS

SIDE ROLLER CHAINS





AMERICAN SERIES

Intl.Ref. No	DIAMOND Chain No.	Pitch (P)	Width between Inner Plates (W) (MIN)	Roller Dia	Plate		Pin				Outboard Roller		Material	
				(D) (MAX)	(T)	(H)	(d)	(L1)	(L2)	(L3)	(D1)	(B1)	Steel	Plastic
C2040	A 08A01 SR01	25.40	7.85	7.94	1.50	11.66	3.96	9.95	17.90	19.30	15.88	7.80	✓	✓
C2050	A 10201 SR01	31.75	9.40	10.16	2.00	14.58	5.08	11.90	21.60	23.20	19.05	9.40	✓	✓
C2060	A 12101 SR01	38.10	12.58	11.91	2.39	18.06	5.94	16.95	29.65	32.05	22.23	12.60	✓	✓
C2080	A 16101 SR01	50.80	15.75	15.88	4.00	24.05	7.92	20.95	36.65	39.65	28.58	15.80	✓	✓
C2100	A 20101 SR01	63.50	18.90	19.05	4.70	29.26	9.53	24.50	44.20	47.30	39.69	19.00	✓	✓

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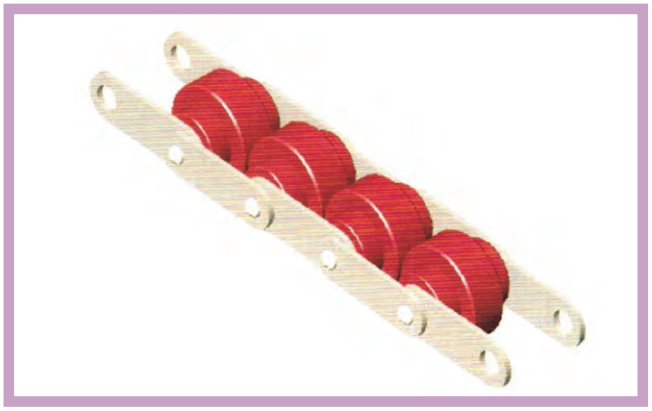
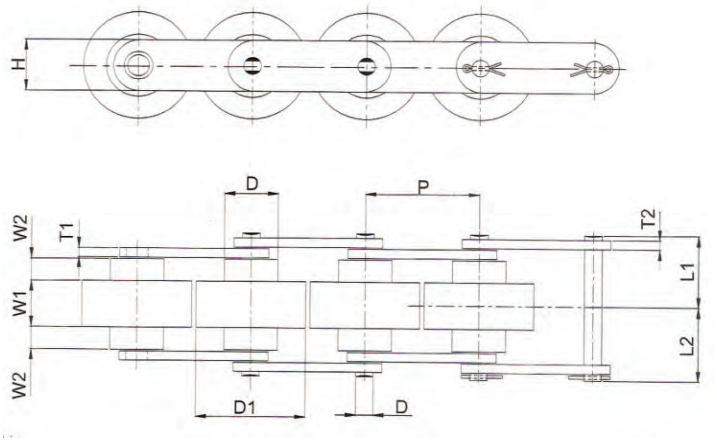
ACCUMULATOR CHAINS
DOUBLE PLUS CHAINS

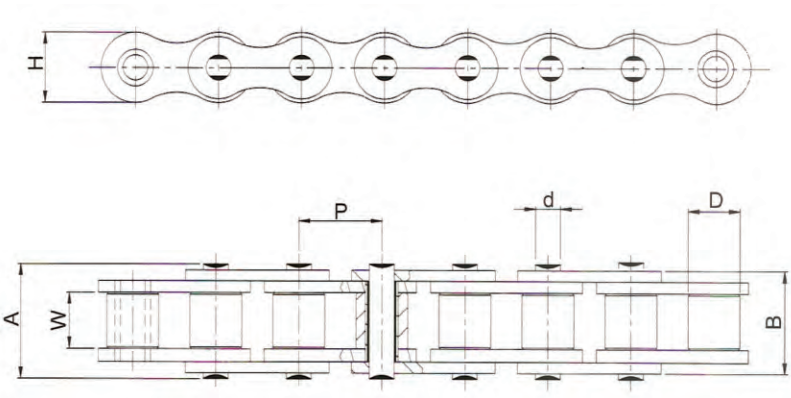


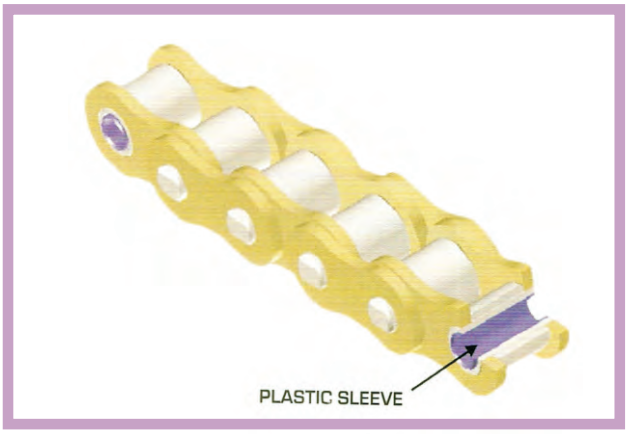


Intl Ref No.	Diamond Chain No.	Pitch (P)	(D)	(D1)	(W1)	(W2)	(T1)	(T2)	(H)	(D)	(L1)	(L2)	Avg. Weigth per metre (kg)
C2040	A080A01 DP 01	25.40	15.88	24.60	10.30	5.70	1.50	1.50	11.66	3.97	15.30	16.50	1.00
C2050	A10201 DP 01	31.75	19.05	30.60	13.00	7.10	2.00	2.00	14.58	5.09	19.15	19.85	1.40
C2060H	A12Z01 00 05	38.10	22.23	36.60	15.50	8.50	3.15	3.15	18.06	5.94	24.50	26.40	2.40

Note : Rollers are made of plastic material

SELF LUBE CHAINS
PLASTIC SLEEVE CHAINS





DIAMOND Base Chain No.	Pitch (P)	Width between Inner Plates (W) (MIN)	Roller Dia (D) (MAX)	Plate Width (H) (MAX)	Bearing Pin Dia (D) (MAX)	Width Over Bearing Pin (A) (MAX)	Width Over Joint Fasteners (B) (MAX)	Transverse Pitch (P1)	Projected Bearing Are Sq.cm	Avg. Weigth Per Metre (kg)	Tensile Strength Kgf (MIN)
E08301ZPB01*	25.40	7.75	8.51	11.80	4.45	17.00	20.90	-	0.50	0.47	1400
D12Y01PB01	19.05	12.57	11.91	18.00	5.94	26.90	31.50	-	1.04	1.52	3180
D12Y021PB01	19.05	12.57	11.91	18.00	5.94	49.70	54.40	22.78	2.08	3.01	6360

*Double Pitch Zinc Plated Chains

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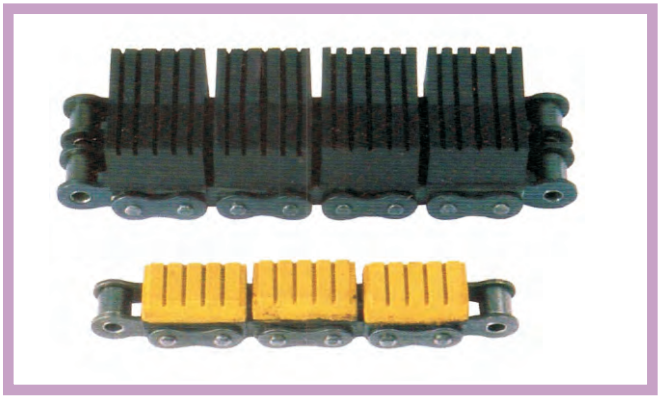
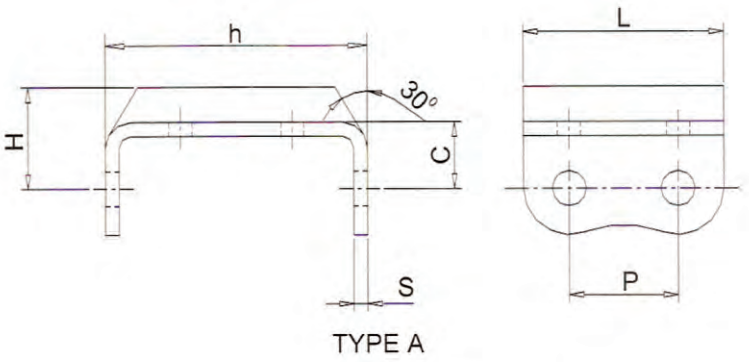
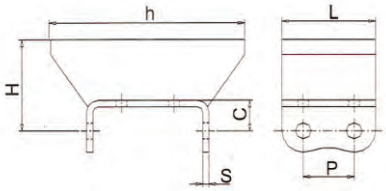
RUBBER TOP CHAINS

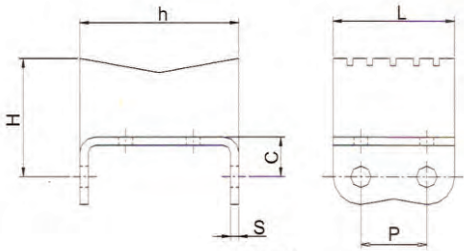




TYPE A



TYPE B



TYPE C

*These chains are designed to face special needs in wood, tile, glass, carton printing, PVC tube extrusion industries.

*The rubber attachment can be supplied with precision single or duplex roller chains.

*Special Profiles can be made on request

Grade	Natural Rubber	Nitrile Rubber	Neoprene Rubber
SHORE HARDNESS (A)	65 + / -5	65 + / -5	65 + / -5
TEMPERATURE RANGE	-10 TO + 70 deg c.	-10 TO + 70 deg c.	-10 TO + 80 deg c.
RESISTANCE TO OIL/ GREASE	POOR	EXCELLENT	FAIR
OZONE / UV RESISTANCE	POOR	FAIR	EXCELLENT

Intl Ref No.	DIAMOND Chain No.	Type	Pitch (P)	Width over Bearing Pin (A)	C	H	h	L	S	Tensile Strength (Kgf) (Min)
08B – 1	D08301RT01	A	12.70	17.80	8.30	12.30	14.72	24.00	1.50	1840
80 – 1	D16101RT01	A	25.40	38.00	18.30	23.00	27.50	49.40	3.15	5780
08B -2	D08302RT01	B	12.70	33.90	9.50	18.30	44.00	24.00	1.50	3270
08B – 2	D08302RT02	A	12.70	33.90	9.50	12.50	28.50	24.00	1.50	3270
60 - 2	D12102RT01	C	19.05	53.00	11.80	33.80	45.56	34.87	2.00	6490

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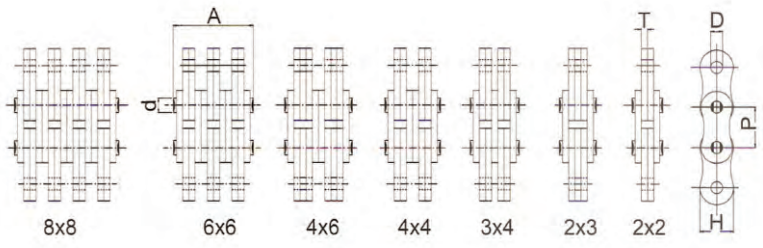
LEAF CHAINS

LL STANDARD SERIES



ISO 4347

The LL series leaf chains are developed from European series chains and used in various lifting applications including lift trucks, masts and counter weights.

Intl Ref No.	DIAMOND Chain No.	Lacing Pattern	Pitch (P)	Pin Dia (D) MAX	Plate Height (H) MAX	Plate Thickness (T) MAX	Hole Dia (D) MIN	Width Over Bearing Pin (A) MAX	Avg. Weight Per Metre (Kg)	Tensile Strength (Kgf) MIN
LL 0822	LL08 22	2 X 2						7.60	0.36	1810
LL 0823	LL08 23	2 X 3						8.95	0.42	1810
LL 0834	LL08 34	3 X 4						11.65	0.58	2370
LL 0844	LL08 44	4 X 4	12.70	4.45	10.90	1.30	4.46	13.00	0.67	3170
LL 0846	LL08 46	4 X 6						15.70	0.82	3170
LL 0866	LL08 66	6 X 6						1840	0.97	4540
LL 0888	LL08 88	8 X 8						23.80	1.34	6050
LL 1022	LL10 22	2 X 2						9.30	0.31	2220
LL 1023	LL10 23	2 X 3						11.00	0.37	2220
LL 1034	LL10 34	3 X 4						14.40	0.53	3400
LL 1044	LL10 44	4 X 4	15.875	5.08	13.70	1.65	5.09	16.10	0.60	4450
LL 1046	LL10 46	4 X 6						19.50	0.75	4540
LL 1066	LL10 66	6 X 6						22.90	0.89	6670
LL 1088	LL10 88	8 X 8						29.70	1.20	9080
LL 1222	LL12 22	2 X 2						10.70	0.35	2890
LL 1223	LL12 23	2 X 3						12.65	0.43	2890
LL 1234	LL12 34	3 X 4						16.55	0.58	4425
LL 1244	LL12 44	4 X 4	19.05	5.72	16.10	1.90	5.73	18.50	0.66	5780
LL 1246	LL12 46	4 X 6						22.40	0.82	5900
LL 1266	LL12 66	6 X 6						26.30	0.98	8670

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LL 12 88	LL 12 88	8 X 8						34.10	1.30	11800
LL 16 22	LL 16 22	2 X 2						17.20	1.00	4310
LL 16 23	LL 16 23	2 X 3						20.45	1.23	4310
LL 16 34	LL 16 34	3 X 4						26.93	1.69	6460
LL 16 44	LL 16 44	4 X 4	25.40	8.28	21.08	3.20	8.30	30.20	1.92	8620
LL 16 46	LL 16 46	4 X 6						36.70	2.39	8620
LL 16 66	LL 16 66	6 X 6						43.20	2.85	12930
LL 16 88	LL 16 88	8 X 8						56.20	3.80	17240
LL 20 22	LL 20 22	2 X 2						20.10	2.29	6580
LL 20 23	LL 20 23	2 X 3						23.10	2.83	6580
LL 20 34	LL 20 34	3 X 4						30.45	3.92	9870
LL 20 44	LL 20 44	4 X 4	31.75	10.19	26.40	3.70	10.21	35.10	4.47	13160
LL 20 46	LL 20 46	4 X 6						41.40	5.55	13160
LL 20 66	LL 20 66	6 X 6						50.10	6.65	19740
LL 20 88	LL 20 88	8 X 8						65.10	8.64	38740
LL 24 22	LL 24 22	2 X 2						28.40	4.17	9980
LL 24 23	LL 24 23	2 X 3						31.75	5.17	9980
LL 24 34	LL 24 34	3 X 4						42.30	7.17	14970
LL 24 44	LL 24 44	4 X 4	38.10	14.63	33.40	5.20	14.65	49.40	8.16	19960
LL 24 46	LL 24 46	4 X 6						58.10	10.15	19960
LL 24 66	LL 24 66	6 X 6						70.40	12.14	29940
LL 24 88	LL 24 88	8 X 8						91.40	15.15	69300
LL 28 22	LL 28 22	2 X 2						34.00	5.26	13150
LL 28 23	LL 28 23	2 X 3						37.00	6.53	13150
LL 28 34	LL 28 34	3 X 4						49.50	9.06	19730
LL 28 44	LL 28 44	4 X 4	44.45	15.90	37.08	6.45	15.92	60.00	10.33	26300
LL 28 46	LL 28 46	4 X 6						68.35	12.86	26300
LL 28 66	LL 28 66	6 X 6						86.00	15.39	39450
LL 32 22	LL 32 22	2 X 2						35.00	7.19	17230
LL 32 23	LL 32 23	2 X 3						37.65	8.93	17230
LL 32 34	LL 32 34	3 X 4						50.20	12.40	25845
LL 32 44	LL 32 44	4 X 4	50.80	17.81	42.29	6.45	17.83	61.00	14.14	34460
LL 32 46	LL 32 46	4 X 6						69.00	17.62	34460
LL 32 66	LL 32 66	6 X 6						87.00	21.09	51690

Note : Connecting links & clevis pins are also available.

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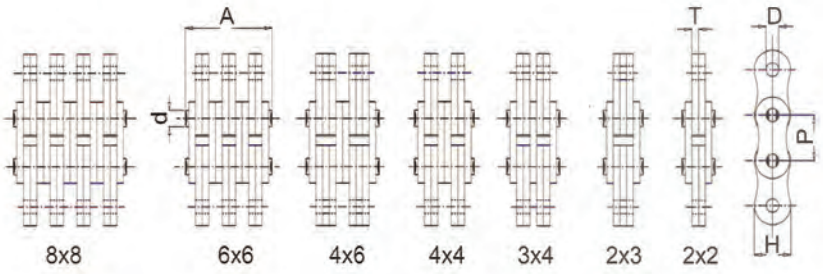
LEAF CHAINS

AL SERIES



The AL series of leaf chains are used for light duty applications with relatively constant, low loads.

DIAMOND Chain No.	Lacing Pattern	Pitch (P)	Pin Dia (d) MAX	Plate Height (H) MAX	Plate Thickness (T) MAX	Hole Dia (D) MIN	Width Over Bearing Pin (A) MAX	Avg. Weight Per Metre (Kg)	Tensile Strength (Kgf) MIN
AL 08 22	2 X 2						8.60	0.36	1410
AL 08 23	2 X 3						10.20	0.46	1410
AL 08 34	3 X 4						13.40	0.64	2115
AL 08 44	4 X 4	12.70	3.98	12.07	1.61	4.01	15.00	0.74	2820
AL 08 46	4 X 6						18.20	0.93	2820
AL 08 66	6 X 6						21.40	1.10	4230
AL 08 88	8 X 8						27.80	1.52	5640
AL 10 22	2 X 2						10.85	0.65	2700
AL 10 23	2 X 3						13.00	0.82	2700
AL 10 34	3 X 4						17.20	1.11	4050
AL 10 44	4 X 4	15.875	5.09	15.09	2.08	5.12	19.35	1.28	5400
AL 10 46	4 X 6						23.60	1.63	5400
AL 10 66	6 X 6						27.80	1.90	8100
AL 10 88	8 X 8						36.35	2.60	10800
AL 12 22	2 X 2						12.70	0.91	3180
AL 12 23	2 X 3						15.20	1.13	3180
AL 12 34	3 X 4						20.15	1.65	4770
AL 12 44	4 X 4	19.05	5.96	18.10	2.44	5.98	22.65	1.79	6360
AL 12 46	4 X 6						27.60	1.89	6360
AL 12 66	6 X 6						32.55	2.66	9540
AL 12 88	8 X 8						42.55	3.53	12720

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AL 16 22	2 X 2						16.60	1.45	5670
AL 16 23	2 X 3						19.75	1.85	5670
AL 16 34	3 X 4						26.05	2.57	8510
AL 16 44	4 X 4	25.40	7.94	24.10	3.30	7.96	29.30	2.85	11340
AL 16 46	4 X 6						35.50	3.65	11340
AL 16 66	6 X 6						41.90	4.24	17010
AL 16 88	8 X 8						54.70	5.80	22680
AL 20 22	2 X 2						21.30	2.31	9500
AL 20 23	2 X 3						25.50	2.97	9500
AL 20 34	3 X 4						33.70	4.13	14250
AL 20 44	4 X 4	31.75	9.54	30.18	4.09	9.56	37.90	4.54	19000
AL 20 46	4 X 6						46.10	5.86	19000
AL 20 66	6 X 6						54.40	6.77	28500
AL 20 88	8 X 8						72.00	9.24	36100
AL 24 22	2 X 2						24.15	3.42	13560
AL 24 23	2 X 3						28.90	4.52	13560
AL 24 34	3 X 4						38.40	5.91	20340
AL 24 44	4 X 4	38.10	11.11	36.20	4.90	11.14	43.15	6.74	27120
AL 24 46	4 X 6						52.65	8.40	27120
AL 24 66	6 X 6						64.37	9.71	40680
AL 28 22	2 X 2						28.90	4.79	17740
AL 28 23	2 X 3						34.70	5.95	17740
AL 28 34	3 X 4						46.40	8.28	29610
AL 28 44	4 X 4	44.45	12.71	36.20	5.77	12.74	52.20	9.45	35480
AL 28 46	4 X 6						63.85	11.78	35480
AL 28 66	6 X 6						75.50	14.11	53220
AL 32 22	2 X 2						32.40	6.00	23000
AL 32 23	2 X 3						39.00	7.56	23000
AL 32 34	3 X 4						52.25	10.53	33000
AL 32 44	4 X 4	50.80	14.29	42.20	6.55	14.31	58.90	11.95	46000
AL 32 46	4 X 6						72.10	14.98	46000
AL 32 66	6 X 6						85.35	17.95	69000

Note : Connecting links & clevis pins are also available.

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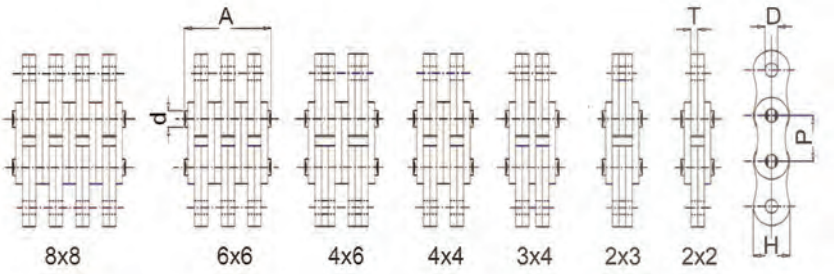
LEAF CHAINS

BL SERIES

ISO 4347/DIN 8152/ANSI B29.8



The BL series leaf chains are designed for medium loads and greater shocks for applications in lift trucks, masts, construction and mining.

Intl Ref No.	DIAMOND Chain No.	Lacing Pattern	Pitch (P)	Pin Dia (d) MAX	Plate Height (H) MAX	Plate Thickness (T) MAX	Hole Dia (D) MIN	Width Over Bearing Pin (A) MAX	Avg. Weight Per Metre (Kg)	Tensile Strength (Kgf) MIN
BL 422	BL 08 22	2 X 2						11.00	0.59	2270
BL 423	BL 08 23	2 X 3						13.10	0.75	2270
BL 434	BL 08 34	3 X 4						17.40	1.03	3400
BL 444	BL 08 44	4 X 4	12.70	5.09	12.07	2.08	5.12	19.50	1.16	4540
BL 446	BL 08 46	4 X 6						23.75	1.47	4540
BL 466	BL 08 66	6 X 6						27.99	1.72	6800
BL 488	BL 08 88	8 X 8						36.40	2.29	9080
BL 522	BL 10 22	2 X 2						12.88	0.86	3400
BL 523	BL 10 23	2 X 3						15.30	1.09	3400
BL 534	BL 10 34	3 X 4						20.30	1.50	4990
BL 544	BL 10 44	4 X 4	15.875	5.96	15.09	2.44	5.98	22.70	1.68	6800
BL 546	BL 10 46	4 X 6						27.70	2.15	6800
BL 566	BL 10 66	6 X 6						32.10	2.51	10210
BL 588	BL 10 88	8 X 8						42.50	3.33	13600
BL 622	BL 12 22	2 X 2						17.30	1.39	4990
BL 623	BL 12 23	2 X 3						20.70	1.76	4990
BL 634	BL 12 34	3 X 4						27.40	2.43	7720
BL 644	BL 12 44	4 X 4	19.05	7.94	18.10	3.30	7.96	30.70	2.72	9980
BL 646	BL 12 46	4 X 6						37.40	3.46	9980
BL 666	BL 12 66	6 X 6						44.20	4.05	14970

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BL 8 22	BL 16 22	2 X 2						21.30	2.43	8 620
BL 8 23	BL 16 23	2 X 3						2.40	3.09	8 620
BL 8 34	BL 16 34	3 X 4						33.70	4.26	13160
BL 8 44	BL 16 44	4 X 4	25.40	9.54	24.10	4.90	11.15	37.90	4.78	17240
BL 8 46	BL 16 46	4 X 6						46.10	6.10	17240
BL 8 66	BL 16 66	6 X 6						54.40	7.13	25860
BL 8 88	BL 16 88	8 X 8						71.00	9.47	34460
BL 1022	BL 20 22	2 X 2						25.30	3.41	11790
BL 1023	BL 20 23	2 X 3						30.30	4.23	11790
BL 1034	BL 20 34	3 X 4						40.20	5.85	18630
BL 1044	BL 20 44	4 X 4	31.75	11.11	30.18	4.90	11.14	45.10	6.69	23580
BL 1046	BL 20 46	4 X 6						55.00	8.29	23580
BL 1066	BL 20 66	6 X 6						65.00	9.92	35370
BL 1088	BL 16 88	8 X 8						84.80	13.92	47170
BL 1222	BL 24 22	2 X 2						29.60	5.00	15430
BL 1223	BL 24 23	2 X 3						35.40	6.22	15430
BL 1234	BL 24 34	3 X 4						47.00	8.62	24960
BL 1244	BL 24 44	4 X 4	38.10	12.71	36.20	5.77	12.74	52.80	9.84	30860
BL 1246	BL 24 46	4 X 6						64.50	12.26	30860
BL 1266	BL 24 66	6 X 6						76.10	14.50	462680
BL 1288	BL 24 88	8 X 8						99.40	19.54	61680
BL 1422	BL 28 22	2 X 2						33.50	6.32	19500
BL 1423	BL 28 23	2 X 3						40.10	7.91	19500
BL 1434	BL 28 34	3 X 4						53.30	11.10	32200
BL 1444	BL 28 44	4 X 4	44.45	14.29	42.20	6.55	14.31	59.50	12.62	39000
BL 1446	BL 28 46	4 X 6						73.10	16.69	39000
BL 1466	BL 28 66	6 X 6						86.30	20.00	58960
BL 1488	BL 28 88	8 X 8						112.30	25.28	78010
BL 1622	BL 32 22	2 X 2						39.00	8.72	29480
BL 1623	BL 32 23	2 X 3						46.50	12.68	29480
BL 1634	BL 32 34	3 X 4						61.70	15.09	44900
BL 1644	BL 32 44	4 X 4	50.80	17.46	48.26	7.52	17.49	69.20	17.81	58960
BL 1646	BL 32 46	4 X 6						84.40	21.46	58960
BL 1666	BL 32 66	6 X 6						99.50	25.71	88440
BL 1688	BL 32 88	8 X 8						129.80	39.89	117910
BL 2022	BL 40 22	2 X 2						51.70	15.80	44200
BL 2023	BL 40 23	2 X 3						61.70	19.80	44200
BL 2034	BL 40 34	3 X 4						81.60	27.70	66300
BL 2044	BL 40 44	4 X 4	63.50	23.81	60.30	9.91	23.84	91.50	31.60	88400
BL 2046	BL 40 46	4 X 6						111.40	39.50	88400
BL 2066	BL 40 66	6 X 6						131.30	47.40	132600
BL 2088	BL 40 88	8 X 8						171.20	63.20	176900

Note : Connecting Links &clevis pins are also available .

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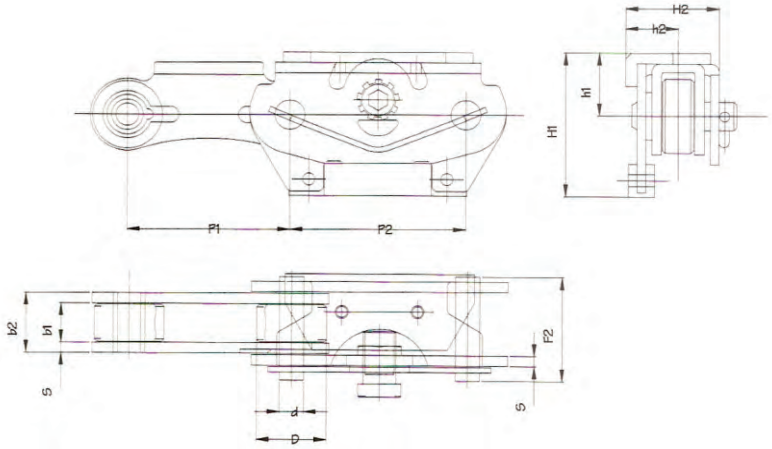
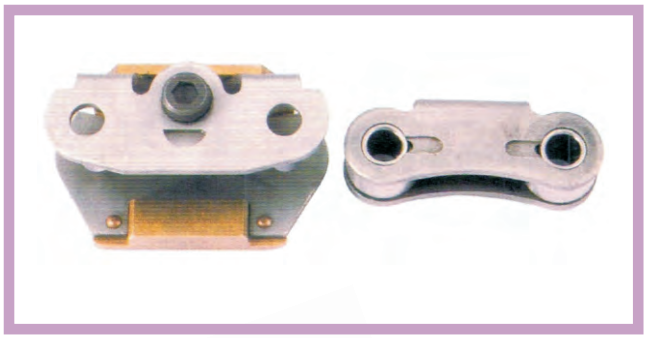
TEXTILE CHAINS

STENTER CHAIN

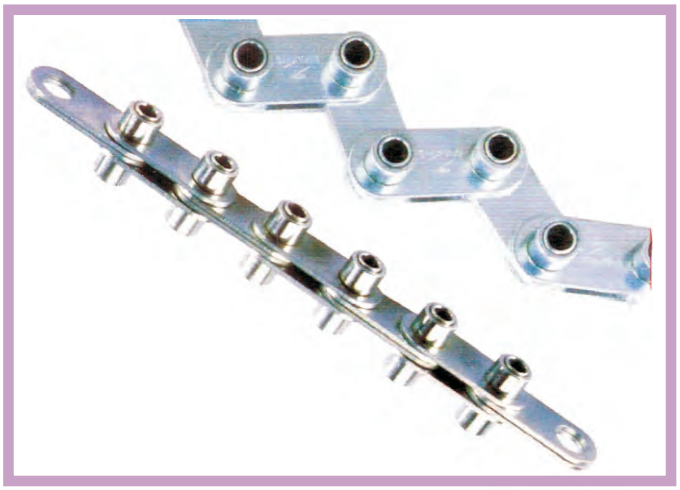


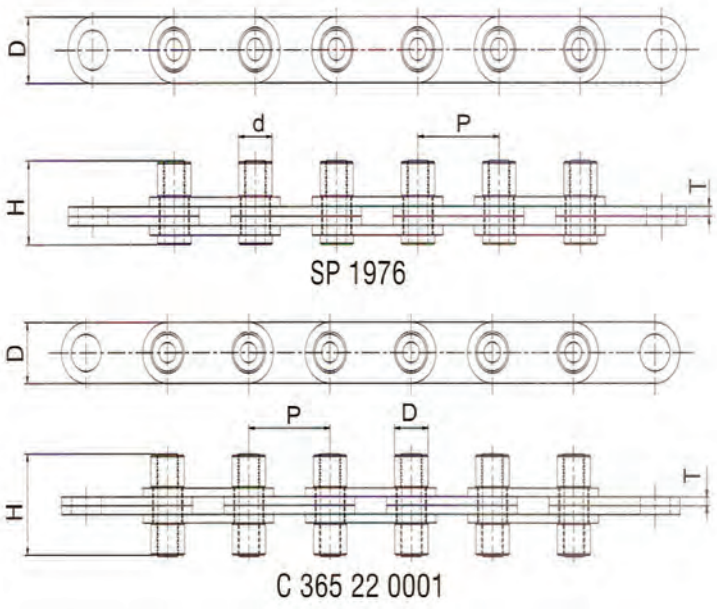


DIAMOND Chain No.	P1	P2	D Max	b1 Min	b2	D Max	F2 Max	H1 Max	H2	h1	H2 Max	S
T60001	60.00	65.00	25.82	15.00	23.00	11.83	42.20	56.00	36.25	24.00	20.25	4.00

TEXTILE CHAINS

FLAT CARD CHAINS





DIAMOND Chain No.	Pitch (P)	Bush Dia (d) Min	Plate Width (D)	Plate Thickness (T)	Total Height (H) Max
SP1976	36.50	16.00	24.00	2.65	25.90
C365220001	36.50	16.00	24.00	2.65	38.00

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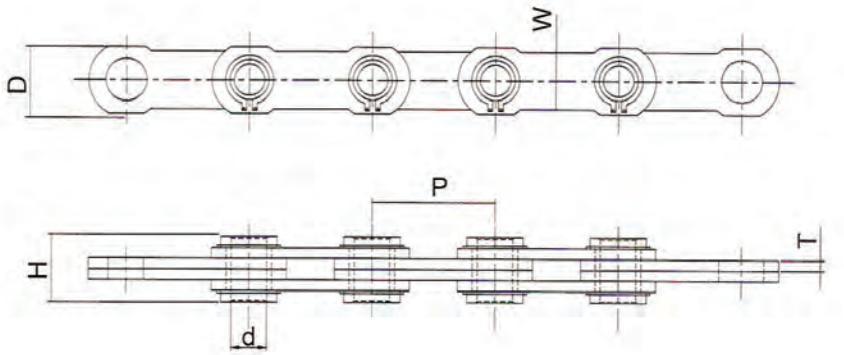
TEXTILE CHAINS

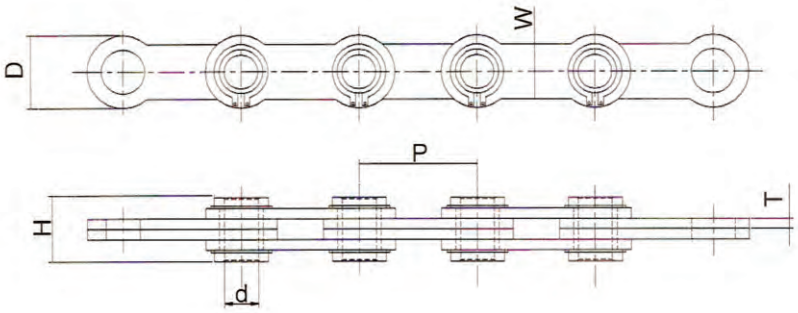
FLAT CARD CHAINS



DIAMOND Chain No.	Pitch (P)	Stay Width (W)	Bush Dia (d) Min	Plate Width (D)	Plate Thickness (T)	Total Height (H) Max
C235 or SP 1207	36.50	16.70	8.20	22.20	2.65	18.20
SP 1807	36.50	15.88	9.54	22.25	2.65	17.00

TEXTILE CHAINS

FLAT CARD CHAINS



DIAMOND Chain No.	Pitch (P)	Stay Width (W)	Bush Dia (d) Min	Plate Width (D)	Plate Thickness (T)	Total Height (H) Max
C 231	36.50	11.10	9.54	22.25	2.65	14.20
C 232	36.50	12.70	9.54	22.25	2.65	14.20
C 233	36.50	15.88	9.54	22.25	2.65	14.20
C 234	36.50	16.70	9.54	22.25	2.65	14.20
C 236	36.50	16.00	10.00	23.50	2.65	15.50

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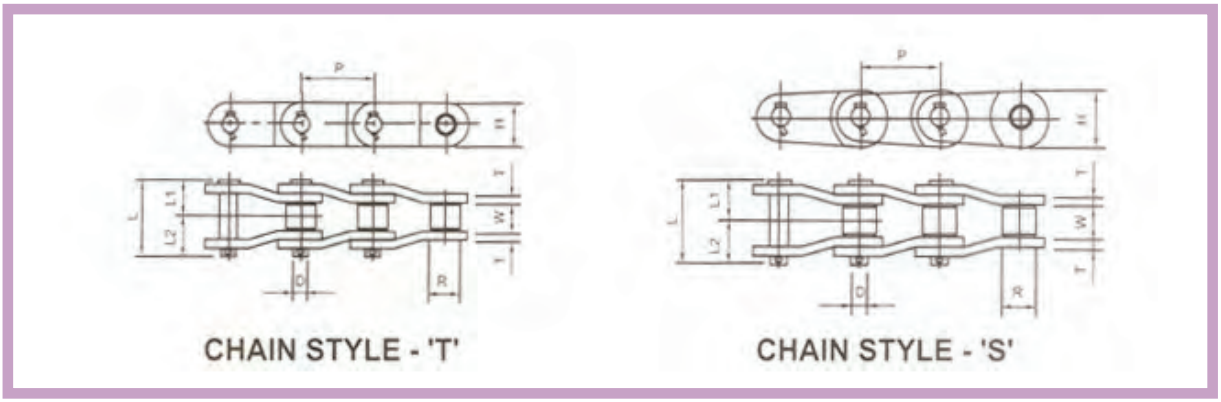
CRANE CHAINS



HEAVY DUTY OFFSET SIDE BAR CHAINS

TIDC CHAIN NO.	CHAIN STYLE	NO. OF LINKS PER UNIT	PITCH (P)	TENSILE STRENGTH (KGF) (MIN)	AVERAGE WEIGTH PER METRE (KGS)	WIDTH BETWEEN LINK PLATES (W MIN)	ROLLER DIAMETER (R)	PLATE THICKNESS (T)	PLATE HEIGHT (H)	CONNECTING PIN			
										PIN DIA (D)	PIN LENGTH (L)	L1	L2
D03140	T	69	44.45	20400	7.70	25.40	25.40	5.60	43.20	12.15	62.60	28.55	34.05
D03160	T	60	50.80	26000	10.00	31.75	28.58	6.40	49.20	13.73	72.30	33.40	38.90
D-01613AK	T	60	50.80	27000	11.30	31.50	28.58	8.10	42.90	15.06	78.00	36.20	41.80
D03180	T	53	57.15	30850	14.30	36.40	35.72	7.20	54.00	17.46	81.00	37.30	43.70
D025H	S	48	63.50	33750	13.70	38.10	31.75	9.50	41.50	15.88	92.50	43.05	49.45
D01625*	T	48	63.50	36550	16.30	38.90	39.69	8.00	60.30	19.80	89.70	41.40	48.30
D0588	S	46	66.27	12500	5.40	28.60	22.23	6.40	28.60	11.11	67.00	32.00	35.00
D0568*	S	39	77.90	44540	17.70	40.10	41.28	9.50	54.00	19.05	97.00	45.05	51.95
D0568 –T	S	39	77.90	42500	17.70	40.10	41.28	9.50	54.00	19.05	97.00	45.05	51.95
D03	S	39	78.11	23550	10.50	38.10	31.75	8.00	38.00	15.88	86.50	40.05	46.45
D03H	S	39	78.11	33750	12.40	38.10	31.75	9.50	41.50	15.88	92.50	43.05	49.45
D03125	S	34	79.38	44200	18.80	41.20	41.28	9.50	54.00	20.32	99.50	45.90	53.60
D01616	S	30	88.90	53975	23.90	38.60	44.45	12.70	54.00	22.23	111.70	51.60	60.10
D03924 - T	S	30	99.21	100300	45.00	38.40	57.15	14.30	82.60	30.16	121.00	56.85	64.15
D05	S	30	103.20	53975	19.90	38.60	44.45	12.70	54.00	22.23	111.70	51.60	60.10
D04	S	30	103.20	53975	21.00	49.10	44.45	12.70	54.00	22.23	122.20	56.85	65.35
D04HF	S	30	103.20	68250	23.20	49.20	44.45	16.00	59.00	22.23	135.70	63.60	72.10
D04HF-T	S	30	103.20	58650	23.20	49.20	44.45	16.00	59.00	22.23	135.70	63.60	72.10
D01245*	S	30	103.45	71900	27.20	49.20	45.24	14.50	60.00	23.80	130.00	60.25	69.75
D01245-T	S	30	103.45	65450	27.20	49.20	45.24	14.50	60.00	23.80	130.00	60.25	69.75
D01343	S	30	103.89	89250	31.90	49.20	47.63	14.50	70.00	25.40	132.00	62.25	69.75
D01343T	S	30	103.89	73525	31.90	49.20	47.63	14.50	70.00	25.40	132.00	62.25	69.75
D01345	S	30	103.89	89250	32.90	49.20	50.80	14.50	70.00	25.40	132.00	62.25	69.75
D01345T	S	30	103.89	73525	32.90	49.20	50.80	14.50	70.00	25.40	132.00	62.25	69.75
D0635*	S	27	114.30	96050	38.30	52.40	57.15	14.50	76.00	27.90	135.50	64.25	71.25
D01634A	S	24	127.00	92650	39.80	58.70	63.50	14.50	76.00	28.63	141.50	67.40	74.10
D01602AA*	S	24	127.00	132600	52.30	70.00	63.50	16.00	90.00	31.75	161.20	77.05	84.15
D06042*	S	20	152.40	175950	71.30	76.30	76.20	19.00	101.60	38.10	184.00	86.70	97.30

Dimensions in mm

1. D03140 & D03160 are specially designed for use where the chains on equipment are subject to heavy twisting and side bow + Cause by operating misalignment.
2. * Confirms to American National Standards Institute (ANSI)
3. Special heat treatment processes are applied to improve material characteristics.
4. Chains with Induction hardened pin can be supplied on request for wear resistance

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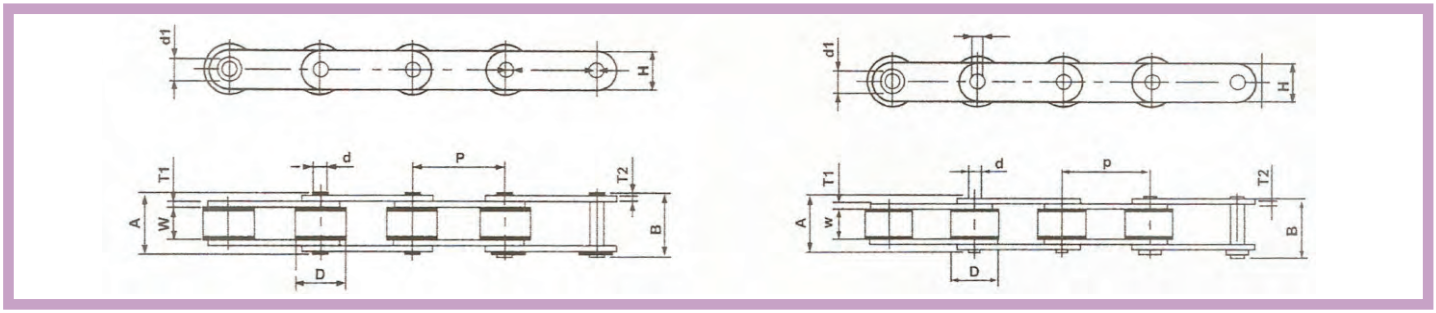
HOLLOW & SOLID BEARING PIN CONVEYOR CHAINS



SOLID PIN CONVEYOR CHAINS

TIDC Chain No.	Pitch (P)	Width bet.Inner Plates (w) (Min.)	Roller Dia (D) (Max.)	Bush Dia (d1)	Plate Depth (H)	Plate Thickness		Pin Dia (d) (Max)	B/Pin Length (B) (Max.)	C/Pin Length (B) (Max.)	Average Weigth (KG/M)	Tensile Strength (KGF) (MIN)	Price Rs. Per MTR.
						Inner (T1)	Outer (T2)						
G 081 02	50.80	15.00	31.80	18.85	26.29	4.00	4.00	13.80	37.80	43.00	4.47	3,800	
G 101 02	63.50										3.88		
G 121 02	76.20										3.65		
G 161 02	101.60										3.07		
G 201 02	127.00										2.80		
G 241 02	152.40										2.61		
G 121 03	76.20	19.05	47.62	25.20	36.00	5.56	4.00	18.26	46.80	51.40	7.46	10,000	
G 161 02	101.60										6.20		
G 201 03	127.00										5.50		
G 241 03	152.40										5.03		
G 281 03	177.80										4.75		
G 321 03	230.20										4.45		
G 361 03	228.60										4.28		
G 161 04	101.60	25.40	66.67	34.25	50.80	6.30	5.00	26.92	57.60	61.60	13.46	17,000	
G 201 04	127.00										11.77		
G 241 04	152.40										10.50		
G 281 04	177.80										9.75		
G 321 04	203.20										9.00		
G 401 04	254.00										8.12		

Dimensions in mm

HOLLOW PIN CONVEYOR CHAINS

TIDC Chain No.	Pitch (P)	Width bet.Inner Plates (w) (Min.)	Roller Dia (D) (Max.)	Bush Dia (d1)	Plate Depth (H)	Plate Thickness		Pin Dia (D) (Max)	Pin Bore (G) (Max.)	B/Pin Length (A) (Max.)	C/Pin Length (B) (Max)	Average Weigth (Kg/m)	Tensile Strength (KGF) (MIN)	Price Rs. Per MTR.
						Inner (T1)	Outer (T2)							
G 082 01	50.80	15.00	31.80	18.85	26.29	4.00	4.00	13.80	10.10	37.20	39.00	4.11	3,000	
G 102 01	63.50											3.59		
G 122 01	76.20											3.27		
G 162 01	101.60											2.90		
G 202 01	127.00											2.66		
G 242 01	152.40											2.49		
G 122 02	76.20	19.05	47.62	25.20	36.00	5.56	4.00	18.26	13.20	47.10	48.80	6.84	8,000	
G 162 02	101.60											5.74		
G 202 02	127.00											5.12		
G 242 02	152.40											4.72		
G 282 02	177.80											4.45		
G 322 02	230.20											4.22		
G 362 02	228.60											4.07		
G 162 03	101.60	25.40	66.67	34.25	50.80	6.30	5.00	26.92	20.10	57.60	59.40	12.20	13,600	
G 202 03	127.00											10.76		
G 242 03	152.40											9.74		
G 282 03	177.80											9.03		
G 322 03	203.20											8.45		
G 402 03	254.00											7.68		

Dimensions in mm

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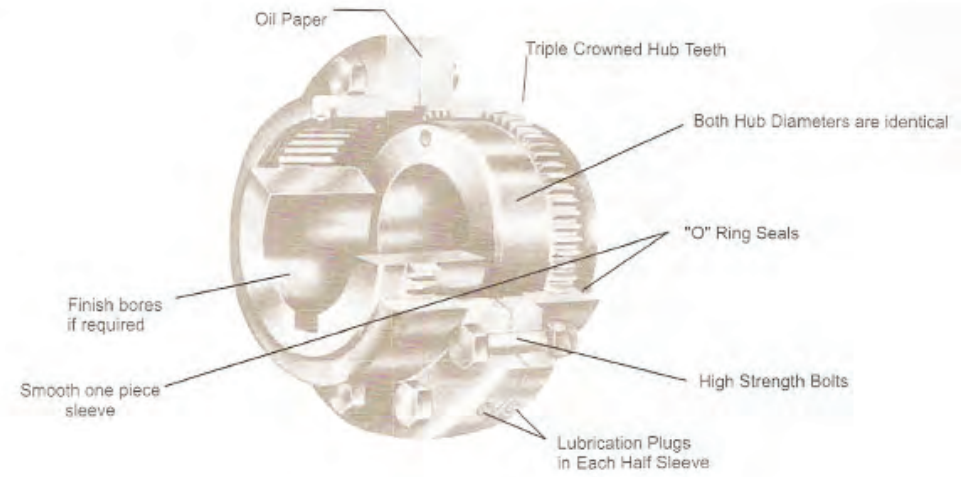
DRIVES & DRIVES FLEXIBLE GEAR COUPLINGS



Under the misalignment condition of two shafts of the equipments, the teeth contact in case of straight cut hub will be as minimum as shown in the figure No.1

Under heavy loads the ends of the hub teeth will get damaged resulting in the excessive play between hub & sleeve. And, therefore the reduction in life of coupling.

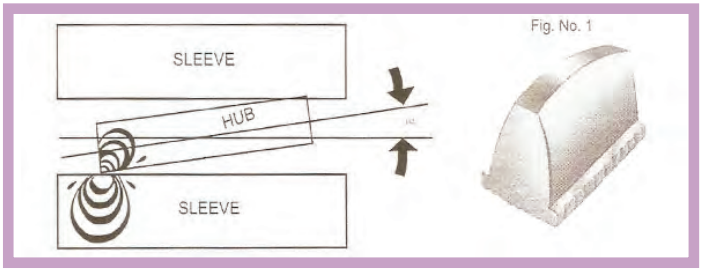


Fig. No. 1

TRIPLE – CROWNED TEETH

The triple crowned teeth hub is manufactured on a fully automatic hobbing machine with built in crowning attachment which is controlled by hydraulic & electronic system.

Under the misalignment condition of two shafts on the equipment, due to the curvature on teeth flank the contact area is much more and therefore , there is increase in life of coupling.

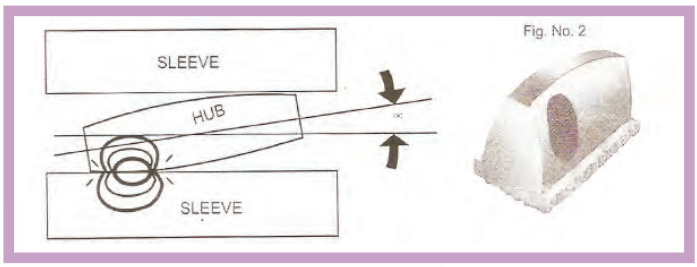


Fig. No. 2

MISALIGMENT DETAILS – In case of straight tooth gear coupling the maximum allowable angular misalignment ($\propto$) is 1.1/2 deh. And in case of Triple, crowned tooth Gear Coupling the misalignment is 7.1/2 deg.

SERVICE FACTORS

PRIME MOVER

Driven Unit (Machinery)	Electric Motor Or Steam Turbine	Gasoline or Diesel Engine 4 or more Cyl.	Gasoline or Diesel Engine More than 6 Cyl.
LIGHT Uniform of steady load never exceeding horse power rating, infrequent starting : Agitators, Blowers, Can filling Machines, Conveyors, Fans , Generators, Pumps, Steering Gear, Strokers.	1.0	1.5	2.0
MODERATE Heavy inertia. Moderate shock, frequent starting : peak loads donot exceed 125% average horsepower. Uneven load : Conveyors, Feeders, Welding, Laundry Washers, Mixers Paper Mills, Printing Presses, Screens, Textile Industry. Car Pullers.	1.5	2.0	2.5
HEAVY Heavy shock conditions or frequent reversing peak loads do not exceed 150% average horsepower. Uneven load, Cranes & Hoists, Crushers, Dredges, Elevators, Hammer Mills, Lumber Industry. Machine Tools, Metal Mills, Oil Industry, Rubber Industry Windlass.	2.0	2.5	3.0

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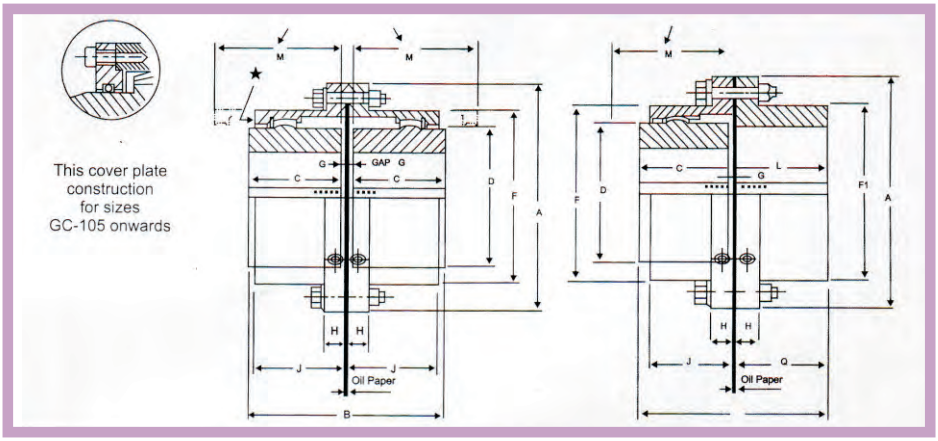
DRIVES & DRIVES FLEXIBLE GEAR COUPLINGS

MINIMUM CLEARANCE REQUIRED FOR ALIGNING



FULL FLEXIBLE TYPE

HALF FLEXIBLE TYPE

COMMON FOR BOTH COUPLINGS												FULL FLEXIBLE TYPE					HALF FLEXIBLE TYPE					
DD G.C.NO	HP CAPACITY AT 100 R.P.M	MAX. TORQUE KG.M	MAX. R.P.M	BORE MIN	A	C	D	F	M	G	H	BORE MAX.	J	B	WR2 KGM2	Wt IN KG.	K	Q	BORE MAX.	WR2 KGm2	F	WT. IN KG
DD - 100	7	50	8000	10	120	45	50	75	55	1.5	15	32	40	93	0.03	4.5	93	46.5	45	70	0.04	5
DD – 101	14	100	6300	20	170	55	65	110	65	2.5	17	45	49	115	0.14	11'	115	57.5	60	85	0.15	11
DD – 102	35	250	5000	30	185	70	85	125	80	2.5	17	60	62	145	0.20	15	145	72.5	75	110	0.24	15
DD – 103	63	450	4000	40	220	85	105	150	105	2.5	20	75	78	175	0.48	25	175	87.5	90	130	0.51	20
DD – 104	119	850	3350	50	250	105	130	175	125	2.5	20	90	96	215	0.95	39	215	107.5	110	160	1.0	40
DD – 105	182	1300	2800	60	290	110	155	200	140	5	25	110	106	230	1.90	57	230	115	130	185	2.0	60
DD - 106	280	2000	2500	75	320	125	175	230	155	5	25	125	117	260	3.00	85	260	130	150	215	3.3	80
DD – 107	490	3500	2100	90	350	140	205	260	175	5	25	140	134	290	5.25	103	290	145	170	240	5.8	106
DD – 108	630	4500	1900	105	380	155	230	290	190	5	25	160	147	320	8.50	138	320	160	200	285	9.5	149
DD – 109	784	5600	1700	125	430	165	250	330	205	5	27	180	156	340	15.00	210	340	170	220	315	16.8	170
DD – 110	1148	8200	1400	140	490	180	310	390	220	5	27	220	171	370	30.50	277	370	185	260	370	35.0	264
DD – 111	1536	11000	1250	160	545	200	350	445	240	5	30	260	192	410	58	550						
DD – 112	2053	14700	1120	180	590	240	400	490	280	5	30	300	231	490	88	710						
DD – 113	2793	20000	1000	200	680	260	440	555	310	7.5	35	330	242	535	138	980						
DD – 114	3994	28600	900	220	730	280	500	610	330	7.5	35	370	266	575	291	1320						
DD – 115	4852	34750	800	250	780	320	540	660	370	7.5	35	410	305	655	353	1700						

NOTE

1. Made to order/special Gear Couplings also can be manufactured.
2. Dynamic balancing & Heat Treatment will be done on request.

HOW TO SELECT THE RIGHT GEAR COUPLINGS

1.Select the size Couplings that will accommodate the diameter of the largest shaft. Usually this will determine the proper size Coupling for your application.

2.To make sure this Coupling has the required capacity : a) Check your application against the Service Factor Chart.

b) Use the following formula to obtain the HP per 100 RPM of your application

$$\frac{HP \times SERVICE\ FACTOR \times 100}{RM} = HP / 100\ RPM$$

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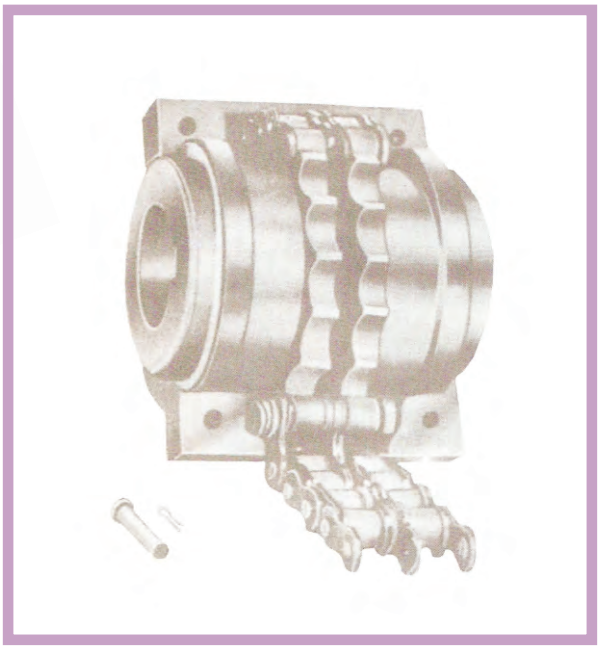
ROLLER CHAIN FLEXIBLE COUPLING

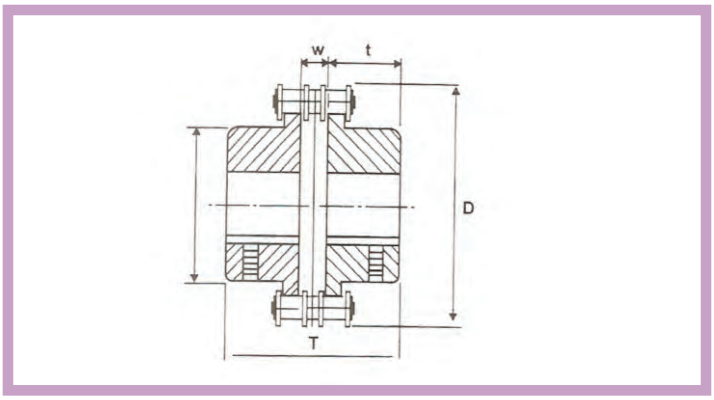
DRIVES & DRIVES Roller chain Flexible Couplings are compact, all steel, long lasting flexible couplings, capable of transmitting relatively high torques with minimum of space consumption. Consequently, they provide a most economical means of positive transmission of power from one shaft to another.

The simple design and construction of these couplings make them extremely easy to install and disconnect, providing additional economy of operation.

The sprockets are identical in construction, thus providing a balanced unit in operation and reducing effects of vibration. In addition, the flexibility of roller chain plus clearance between the chain rollers and sprocket teeth allow for slight misalignment and shaft end float.

Stock Couplings sizes will usually meet most power transmission requirements. However when necessary special couplings can be furnished on a made to order basis to suit a particular application. In such cases, complete information should be given when requesting a recommendation or quotation.This includes horsepower and RPM requirements, hub dimensions, bore and key way sizes , and general operating conditions.



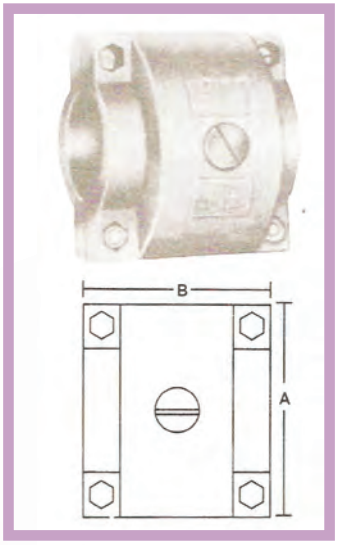


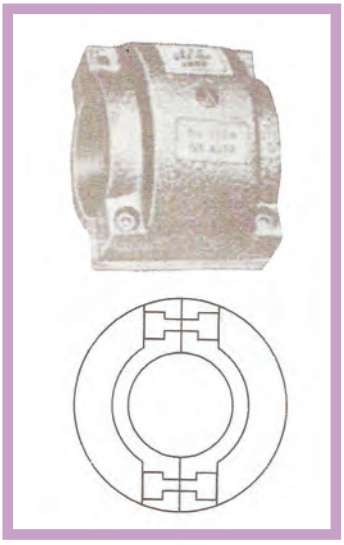
CHAIN COUPLING SIZE	ASA No.	BORE		T	t	W	C	D	Wt. Kg.
		MIN	MAX						
DD 6112	3812	10.00	16	65	30	5.0	27	45	0.30
DD 8312	4012	10.00	22	79	36	7.0	35	60	0.80
DD8316	4016	12.00	32	79	36	7.0	50	77	1.60
DD1016	5016	16.00	42	96	44	8.0	61	96	2.60
DD 1018	5018	16.00	48	98	45	8.0	71	106	3.50
DD 1218	6018	20.00	60	121	56	9.0	88	126	6.5
DD 1222	6022	20.00	76	121	56	9.0	110	150	10.0

DRIVES & DRIVES COUPLING COVERS

Plastic / Aluminium

Aluminium covers are available for all the sizes.
Plastic covers are available only for sizes upto NT – 1218





CHAIN COUPLING SIZE	ASA No.	BORE		T	t	W	C	D	Wt. Kg.
		MIN	MAX						
DD 1618	8018	25	80	150	67	16	115	170	14.5
DD 1622	8022	25	95	150	67	16	140	201	20.0
DD 2020	10020	40	110	200	91	18	160	231	33.5
DD 2418	12018	50	119	260	118	24	169	254	51.0
DD 2422	12022	50	150	260	118	24	208	301	76.0
DD 3218	16018	50	160	360	165	30	220	341	121.0
DD 3222	16022	50	199	360	165	30	280	410	170.0
DD 4018	20018	80	205	517	240	37	295	425	425.0
DD 4022	20022	80	260	517	240	37	373	507	450.0

CHAIN COUPLING SIZE	ASA No	A	B	Wt. Kg.
DD 1618	8018	195	130	2.3
DD 1622	8022	220	132	2.4
DD 2020	10020	258	178	3.4
DD 2418	12018	292	220	5.9
DD 2422	12022	340	220	7.3
DD 3218	16018	385	240	14
DD 3222	16020	472	250	17
DD 4018	20018	496	280	22
DD 4022	20022	578	280	26

CHAIN COUPLING SIZE	ASA No	A	B	Wt. Kg.
DD 6112	3812	69	59	0.2
DD 8312	4012	75	68	0.2
DD8316	4016	90	70	0.4
DD1016	5016	110	86	0.6
DD 1018	5018	121	86	0.8
DD 1218	6018	149	90	1.2
DD 1222	6022	173	110	1.6

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SELECTION OF THE COUPLINGS

- Decide service factor for the unit for which the chain couplings is to be filled by considering the hours of service, type of the power unit tec. from the following table :-

Driven equipment			Source of Power		
Service classification	**Kinds**	**Characteristics**	**Electric motor or steam turbine**	**Steam or Gasoline engine 4 or more cyl.**	**Diesel or Gas Engine**
A	Centrifugal fans, blowers of pumps conveyor evenly loaded.	Even load – 8 hours/ day service, Non – reversing – low torque starting.	1	1.5	2.0
B	Compressor, Conveyor, pulsating load machines, kilns and driers, speeds reducers, Multi cylinder pumps, wood working machines, etc.	Uneven load – 8 hours/day service, Moderate shock or torsional loads, non-reversing. This is the most common type of service.	1.5	2.0	2.5
C	Presses, crushers, impact loads, oil well pumping equipment.	Heavy shock load – 8hours/day service. High peak torsional loads, reversing under load. Full load starting.	2.0	2.5	3.0

- For 8 to 16 hrs/day service use next step service factor.
- For 16 to 24hours/day service use service factor two step higher loading.
- Multiply horsepower of driver unit by the service factor. This is the design horsepower.
- Note the maximum rpm. At which the unit will run and its shaft diameter.
- From H.P rating table select the coupling size which is rated equal to or slightly greater than design H.P required at the rpm. At which the coupling is to operate.
- Also make sure that the diameter at the shaft is less than the maximum bore permissible on the coupling. If the coupling is not large enough to accommodate the shaft size, use the next coupling which can be bored to suit the shaft requirement.

Horse Power Ratings Table

COUPLING SIZE	EQUI. ASA NO.	MAX. BORE		REVOLUTIONS PER MINUTE →																								
			1	5	10	25	50	100	200	300	400	500	600	800	1000	1200	1500	1800	2000	2500	3000	3600	4000	4800	5200	6000
DD 6112	3812	16	0.013	0.066	0.146	0.346	0.693	1.053	1.613	2.106	2.520	3.010	3.440	4.253	5.173	5.880	7.133	8.333	8.973	10.82	12.58	14.66	16.00	18.86	19.73	22.26
DD 8312	4012	22	0.026	0.146	0.293	0.773	1.533	2.306	3.506	4.613	5.533	6.613	7.560	9.346	11.37	12.90	15.46	18.26	19.73	23.56	27.60	32.13	35.06	41.06		
DD 8316	4016	32	0.053	0.280	0.546	1.373	2.746	4.120	6.253	8.226	9.880	11.80	13.46	16.66	20.40	23.06	28.00	32.53	35.06	42.53	49.33	57.33	62.53	73.20		
DD 10 16	5016	42	0.106	0.520	1.040	2.600	5.213	7.813	11.89	15.60	18.80	22.40	25.60	31.73	38.53	43.86	53.20	61.86	66.66	80.80	93.86	108.80				
DD 10 18	5018	48	0.133	1.666	1.320	3.306	6.600	9.906	15.06	19.86	23.73	28.40	32.53	40.13	48.80	55.46	66.733	78.40	84.53	102.40	118.13					
DD 12 18	6018	60	0.240	1.240	2.493	6.226	12.44	18.66	28.40	37.33	44.80	53.46	61.20	75.73	92.13	104.53	126.93	148.0	160.0	193.33						
DD 12 22	6022	76	0.333	1.666	3.346	8.413	16.66	25.06	38.13	50.26	60.40	72.13	82.53	102.0	124.13	140.0	170.66	198.66	214.66	260.0						
DD 16 18	8018	80	0.546	2.760	5.520	13.73	27.60	41.33	62.93	82.80	99.33	118.86	134.66	168.0	204.0	232.0	281.33	328.0	353.33							
DD 16 22	8022	95	0.786	3.946	7.906	19.73	39.46	59.33	89.60	118.86	141.33	169.33	194.66	240.0	292.0	332.0	402.6	469.33	505.33							
DD 20 20	10020	110	1.240	6.213	12.44	31.06	62.13	93.33	141.33	166.66	224.0	266.66	305.33	377.33	460.0	522.66	634.66	738.66								
DD 24 18	12018	119	1.866	9.360	18.66	46.80	93.60	140.0	213.33	280.0	336.0	402.6	460.0	568.0	692.0	786.86	954.66			DESIGN HORSE POWER							
DD 24 22	12022	150	2.413	12.09	24.13	60.40	120.93	181.33	274.66	362.66	434.66	520.0	594.66	734.66	894.66	1016.0											
DD 32 18	16018	160	4.040	20.13	40.40	101.06	201.33	302.66	460.0	606.66	728.0	869.33	994.66	1229.3	1496.0												
DD 32 22	16022	199	5.906	29.46	59.06	146.66	294.66	444.00	674.66	886.66	1065.3	1272.0	1453.3	1800.0	21.86.												
DD 40 18	20018	205	8.080	40.40	80.80	201.33	404.00	605.33	921.33	1212.0	1453.3	1733.3	1986.6	2453.3	6												
DD 40 22	20022	260	10.17	50.93	101.73	254.66	509.33	762.66	1161.33	1520.0	1826.6	2186.6	2506.6														

LUBRICATION

Couplings operating without covers under fairly clean conditions will give satisfactory service providing they are periodically [weekly] brushed thoroughly with ball grease of medium consistency. Couplings operating with covers should be kept filled with a good quality ball grease of soft or medium consistency.

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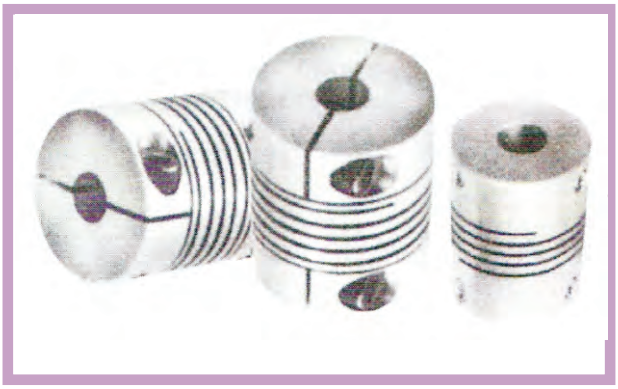
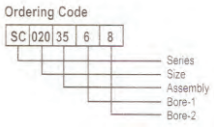
SPIREX ENCODER COUPLINGS

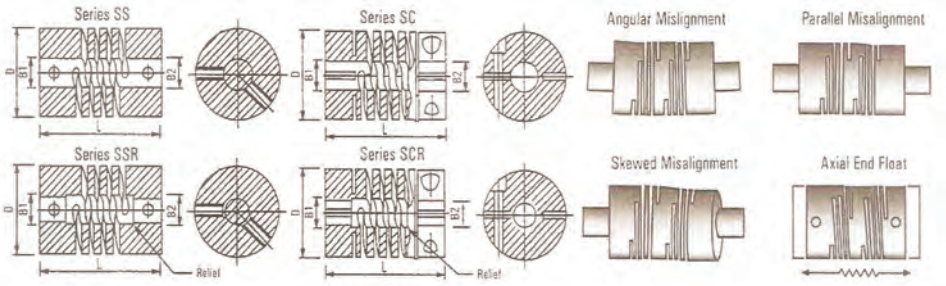


Several overlapping helical cut are machined into one piece of material, thereby providing for flexing properties which compensate for angular, parallel and axial misalignments, spirex couplings have minimum windup and transit torque with constant velocity.

Encoders, resolvers and other rotating instruments are only as accurate as the flexible coupling that connects them to the system they are monitoring,

Spirex Couplings can be designed to your requirements by changing the length, diameters, thickness and heighh of beams, and in alternate materials like stainless steel , copper, steel, etc.

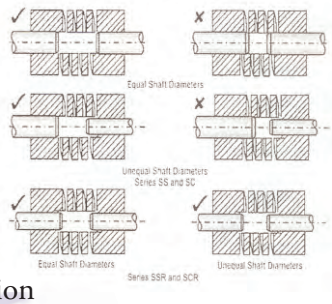




Size	D	Std L	Non-Std L	Bore			B1	B2	Static Torque (Nm)	Misalignment		
				Min	Max					Angular (deg)	Parallel (mm)	Axial (mm)
					SC	SS						
014	14	21	20–29	3	5	5	3 3 4 4	3 4 4 4	0.96	5	0.17	0.12
016	16	23	20–29	3	7	7	4 5 6	5 5 6	1.81	5	0.20	0.12
020	20	28	15–20 21–29 30–34 35–40 41–45	5	8	10	5 6 6 8	6 6 8 8	2.83	5	0.25	0.25
025	25	30	15–20 21–29 30–34 35–40 41–45 46–50 51–55	6	12	14	6 6 6 8 10	6 8 10 8 10	6.78	5	0.38	0.25
032	32	40	20–29 30–34 35–40 41–45 46–50 51–55 75–85 86-90	10	16	18	10 10 14 16	16 16 14 16	11.30	5	0.50	0.38
040	40	40	46–50 51–55 75–85 86–90	15	18	20	10 12	20 20	15.82	5	0.75	0.40
050	50	60	75–85 86-90	12	25	28	12	25	23.30	5	0.85	0.50

All dimensions in mm

Standard



Installation

Spirex couplings are precision units and must ne installed in natural position without pre- compression. The flexibility of the coupling may be adversely affected if installed, either in a compresses or a stretched condition.

Clean the shafts to ensure that they are free from oil, grease or any other foreign substance.

Mount the spirex coupling on one shaft and fasten the locking screws. Refer the above figures for proper location of the coupling on the shafts. Similarly mout the second shaft into the coupling bore and fasten the coupling ensuring its natural position. In case of series SSR and SCR, the shafts may extend into the flexure area as shown.

Using a straight edge check the alignment at different points on the circumference, to ensure that the staright edge is in full contact over the entire length of the coupling

Misalignment must not exceed the maximum permissible values specified. In case of skewed misalignment individual misalignments should not be taken at maximum.

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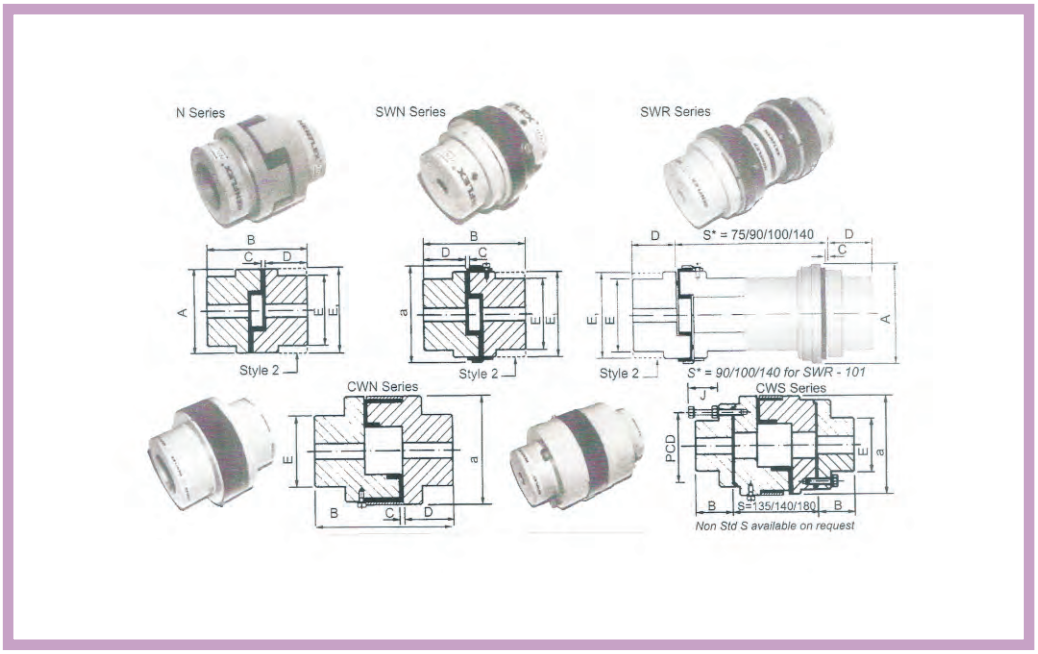
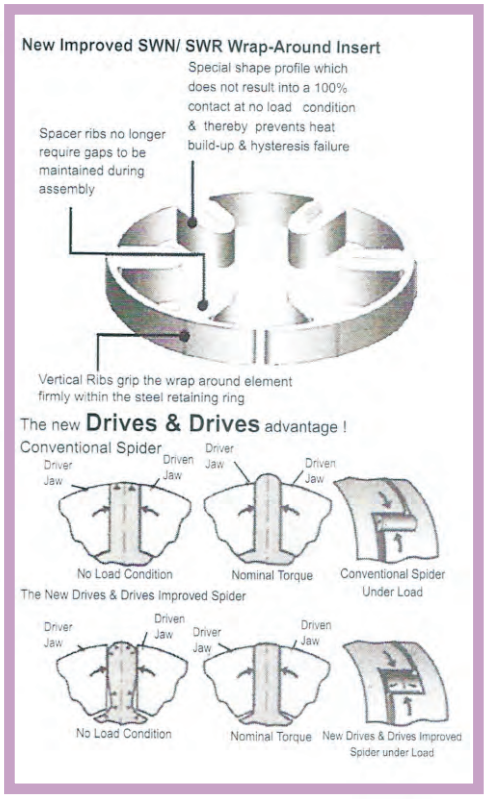
NENFLEX TORSIONALLY FLEXIBLE COUPLINGS



Series	Size	Nominal Torque (Nm) (At Service Factor 1)			Style	Bore		Max Bore Style 2	Dimensions (mm)								
		Std 80 Sh A Black	PU 80 Sh A Yellow	PU 90 Sh A Red		Min	Max		A	a	E	D	C	B	E1	PCD	J
N	65	3	4	6	2	X	X	16	27	X	27	15	1	42	27	X	X
	85	6	8	10	2	X	X	20	36	X	36	20	2	53	36	X	X
	91	10	12	15	2	9	X	22	44.5	X	44.5	20	2	53	44.5	X	X
N SWN SWR	101	25	30	40	2	10	X	30	54	64	54	26	2	65	54	X	X
	105	60	75	90	1	10	30	40	65	77	52	28	2	74	64	X	X
	107	60	75	90	1	10	38	40	65	77	55	34	2	86	64	X	X
	115	110	140	165	1	15	42	48	85	96	75	44	3	110	84	X	X
	120	150	190	225	1	15	48	55	96	111	78	44	3	113	94	X	X
	160	200	250	300	1	20	55	60	115	128	100	55	3	135	114	X	X
	175	260	325	400	1	20	60	65	127	141	106	65	3	155	125	X	X
N CWN CWS	226	340	425	510	1	25	65	X	137	143	115	70	3	178	X	102	92
	276	540	675	810	1	30	75	X	157	163	127	80	3	200	X	105	107
	280	860	1075	1290	1	30	75	X	194	200	140	80	3	200	X	160	70
	295	1300	1625	1950	1	40	90	X	239	246	160	95	3	238	X	200	80
	2955	2200	2750	3300	1	50	100	X	239	246	180	108	3	264	X	200	80
	300	3050	3800	4575	1	50	100	X	258	266	180	115	3	283	X	216	85
	350	4325	5100	5740	1	50	115	X	309	317	200	128	3	309	X	252	85



Standard

Coupling Size ▶		65	85	91	101	105	107	115	120	160	175	226	276	280	295	2955	300	350
Maximum Radial Misalignment - a (mm) at 1500 rpm		0.20	0.20	0.22	0.25	0.28	0.28	0.32	0.36	0.38	0.40	0.42	0.48	0.48	0.50	0.52	0.52	0.52
Maximum Angular Misalignment - b (deg) at 1500 rpm		1.0°	1.0°	1.0°	1.0°	1.0°	1.0°	1.0°	1.0°	1.0°	1.2°	1.2°	1.2°	1.2°	1.2°	1.2°	1.3°	1.3°
Maximum Axial Misalignment - c (mm)		0.60	1.00	1.20	1.40	1.50	1.50	1.60	1.70	1.80	1.80	1.80	1.80	2.00	2.00	2.00	2.10	2.10

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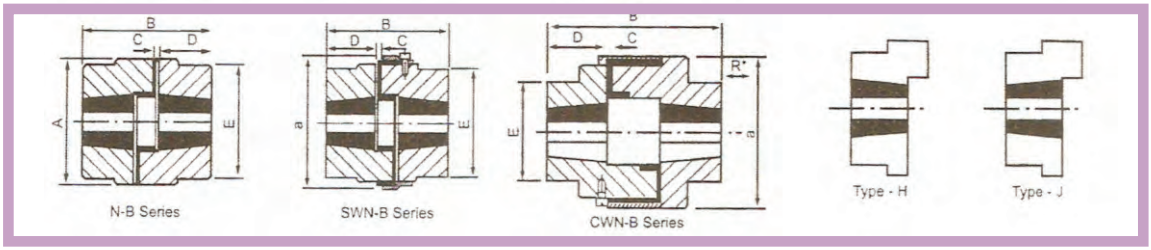
TORSIONALLY FLEXIBLE COUPLINGS



Nenflex B series are couplings with Taper Bushes, which provide for a shrink fit of the coupling on to the shaft by using a standard hexagon wrench. Select the mounting options either with TYPE H or TYPE J Hubs. All Nenflex couplings come with the new generation of Nenflex Spiders which are the subject matter of a patent and the result of a thorough CAD analysis and practical dynamic tests.

Our R & D has now developed the PU technology to offer a variety of high performance insert materials , which are tested on our unique dynamic test bed, simulating real life like conditions that prevail on a spider while the coupling is rotating.

Series	Size	Nominal Torque (Nm)			Max. Bore	Taper Bush No.	Dimensions (mm)							Approx Weight (solid) K9s
		Std 80 Sh A Black	PU 80 Sh A Yellow	PU 90 Sh A Red			A	a	E	D	C	B	R	
N – SWN - B	107	60	75	90	28	1108	65	77	64	24	2	66	29	1.2
	115	110	140	165	32	1210	85	96	84	27	3	76	38	2.5
	120	150	190	225	32	1210	96	111	94	27	3	79	38	3.2
	160	200	250	300	42	1610	115	128	114	27	3	79	38	4.6
	175	260	325	400	50	2012	127	141	125	34	3	93	42	5.6
N – B CWN - B	226	340	425	510	50	2517	137	143	115	34	3	106	48	8.2
	276	540	675	810	60	2517	157	163	127	47	3	134	48	13.4
	280	860	1075	1290	60	3020	194	200	140	47	3	134	48	17.6
	295	1300	1625	1950	75	3020	239	246	160	53	3	154	55	33.4
	2955	2200	2750	3300	75	3020	239	246	180	53	3	154	55	36.0
	300	3050	3800	4575	75	3020	258	266	180	53	3	159	55	38.0
	350	4325	5100	5740	90	3535	309	317	200	89	3	231	67	72.0

POWER Capacity At Different Speeds in kW.

* R - Min Wrench Clearance

Size	Type *	NT **	100	200	400	500	720	960	1000	1440	1500	1600	1800	2200	2400	2880	3000	3600
101	B	25	0.26	0.52	1.05	1.31	1.89	2.51	2.62	3.77	3.93	4.19	4.71	5.76	6.28	7.54	7.85	9.43
	Y	30	0.31	0.63	1.26	1.57	2.26	3.02	3.14	4.52	4.71	5.03	5.66	6.91	7.54	9.05	9.43	11.31
	R	40	0.42	0.84	1.68	2.09	3.02	4.02	4.19	6.03	6.28	6.70	7.54	9.22	10.05	12.06	12.57	15.08
105/107	B	60	0.63	1.26	2.51	3.14	4.52	6.03	6.28	9.05	9.43	10.05	11.31	13.82	15.08	18.10	18.85	22.62
	Y	75	0.79	1.57	3.14	3.93	5.66	7.54	7.85	11.31	11.78	12.57	14.14	17.28	18.85	22.62	23.56	28.28
	R	90	0.94	1.89	3.77	4.71	6.79	9.05	9.43	13.57	14.14	15.08	16.97	20.74	22.62	27.14	28.28	33.93
115	B	110	1.15	2.30	4.61	5.76	8.29	11.06	11.52	16.59	17.28	18.43	20.74	25.34	27.65	33.18	34.56	41.47
	Y	140	1.47	2.93	5.86	7.33	10.56	14.07	14.66	21.11	21.99	23.46	26.39	32.25	35.19	42.22	43.98	52.78
	R	165	1.73	3.46	6.91	8.64	12.44	16.59	17.28	24.88	25.92	27.65	31.10	38.01	41.47	49.76	51.84	62.21
120	B	150	1.57	3.14	6.28	7.85	11.31	15.08	15.71	22.62	23.56	25.13	28.28	34.56	37.70	45.24	47.13	56.55
	Y	190	1.99	3.98	7.96	9.95	14.33	19.10	19.90	28.65	29.85	31.84	35.82	43.77	47.75	57.30	59.69	71.63
	R	225	2.36	4.71	9.43	11.78	16.97	22.62	22.62	33.93	35.34	37.70	42.41	51.84	56.55	67.86	70.69	84.83
160	B	200	2.09	4.19	8.38	10.47	15.08	20.11	20.94	30.16	31.42	33.51	37.70	46.08	50.27	60.32	62.83	75.40
	Y	250	2.62	5.24	10.47	13.09	18.85	25.13	26.18	37.70	39.27	41.89	47.13	57.60	62.83	75.40	78.54	94.25
	R	300	3.14	6.28	12.57	15.71	22.62	30.16	31.42	45.24	47.13	50.27	56.55	69.12	75.40	90.48	94.25	113.10
175	B	260	2.72	5.45	10.89	13.61	19.60	26.14	27.23	39.21	40.84	43.56	49.01	59.90	65.35	78.42	81.68	98.02
	Y	325	3.40	6.81	13.61	17.02	24.51	32.67	34.03	49.01	51.05	54.46	61.26	74.88	81.68	98.02	102.10	122.53
	R	400	4.19	8.38	16.76	20.94	30.16	40.21	41.89	60.32	62.83	67.02	75.40	92.16	100.53	120.64	125.67	150.80
226	B	340	3.56	7.12	14.24	17.80	25.64	34.18	35.61	51.27	53.41	56.97	64.09	78.33	85.45	102.54	106.82	128.18
	Y	425	4.45	8.90	17.80	22.25	32.05	42.73	44.51	64.09	66.76	71.21	80.11	97.92	106.82	128.18	133.52	160.23
	R	510	5.34	10.68	21.36	26.70	38.45	51.27	53.41	76.91	80.11	85.45	96.14	117.50	128.18	153.82	160.23	192.27
276	B	540	5.66	11.31	22.62	28.28	40.72	54.29	56.55	81.43	84.83	90.48	101.79	124.41	135.72	162.87	169.65	203.58
	Y	675	7.07	14.14	28.28	35.34	50.90	67.86	70.69	101.79	106.03	113.10	127.24	155.51	169.65	203.58	212.06	254.48
	R	810	8.48	16.97	33.93	42.41	61.07	81.43	84.83	122.15	127.24	135.72	152.69	186.62	203.58	244.30	254.48	305.37
280	B	860	9.01	18.01	36.02	45.03	64.84	86.46	90.06	129.69	135.09	144.10	162.11	198.14	216.15	259.38	270.19	324.22
	Y	1075	11.26	22.52	45.03	56.29	81.06	108.07	112.58	162.11	168.87	180.12	201.64	247.67	270.19	324.22	337.73	405.28
	R	1290	13.51	27.50	54.04	67.55	97.27	129.69	135.09	194.53	202.64	216.15	243.17	297.20	324.22	389.07	405.28	486.33
295	B	1300	13.61	27.23	54.46	68.07	98.02	130.69	136.14	196.04	204.21	217.82	245.05	299.51	326.74	392.08	408.42	490.10
	Y	1625	17.02	34.03	68.07	85.09	122.53	163.37	170.17	245.05	255.26	272.28	306.31	374.38	408.42	490.10	510.52	612.63
	R	1950	20.42	40.84	81.68	102.10	147.03	196.04	204.21	294.06	363.1	326.74	367.58	449.26	490.10	588.12	612.63	735.16
2955	B	2200	23.04	46.08	92.16	115.20	165.88	221.17	230.39	331.76	345.59	368.62	414.70	506.86	552.94	663.52	691.17	829.41
	Y	2750	28.80	57.60	115.20	143.99	207.35	276.47	287.99	414.70	431.98	460.78	518.38	633.57	691.17	829.41	863.96	1036.76
	R	3300	34.56	69.12	138.23	172.79	248.82	331.76	345.59	497.64	518.38	552.94	622.05	760.29	829.41	995.29	1036.76	1244.11
300	B	3050	31.94	63.88	127.76	159.70	229.97	306.63	319.41	459.94	479.11	511.05	574.93	702.69	766.57	919.89	958.22	1149.86
	Y	3800	39.79	79.59	159.18	198.97	286.52	382.03	397.95	573.04	596.92	636.72	716.31	875.48	955.07	1146.09	1193.84	1432.61
	R	4575	47.91	95.82	191.64	239.55	344.96	459.94	479.11	689.92	718.66	766.57	862.39	1054.04	1149.86	1379.83	1437.32	1724.79
350	B	4325	45.29	90.59	181.17	226.46	326.11	434.81	452.93	652.21	679.39	724.68	815.27	996.44	1087.02	1304.43	1358.78	1630.54
	Y	5100	53.41	106.82	213.63	267.04	384.54	512.72	534.08	769.09	801.13	854.54	961.36	1174.99	1281.81	1538.17	1602.26	1922.71
	R	5740	60.11	120.22	240.44	300.56	432.80	577.07	689.92	865.60	901.67	961.78	1082.00	1322.44	1442.66	1731.20	1803.33	2164.00

Type B - Std. 80 Sh A Black Type R - PU 90 Sh A Red Type Y - PU 80 Sh A Yellow ** N_T- Nominal Torque at service factor 1

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Tel : +91 022 2163 3694
Mob : 09322641435

MINIATURE DISC COUPLING

The Drives & Drives miniature disc coupling , designed for zero backlash precision drives like encoders , robotics, instrument and control systems aircraft equipment, radar, laser, optical and precision remote controls.

The coupling can handle shaft misalignments and transmit torquewith near constant velocity.

Size	D (mm) ⌀D	Bore		Torque (Nm)	Misalignment			Length with different assembly options						
		Min (mm)	Max (mm)		Angular (deg)	Parallel (mm)	Axial (mm)	SD		DD			SDD	
								L1	L1	L2	L3	L1	L2	L3
025	25	1.5	10	0.45	3°	0.38	0.5	22	27	15	22	30	18	24
038	38	1.5	16	1.75	3°	0.45	0.8	35	42	22	32	48	26	36

Clamps are not furnished as part of the coupling and must be ordered separately.

Series SD
Single Disc Coupling cannot accommodate parallel misalignments and is therefore recommended for use in pairs to bridge long spans.

Series SDD
Twin Discs with hubs mounted at 90° to an intermediate spacer.

Series DD
Twin discs with hubs mounted parallel to each other. Can accommodate parallel misalignment.

Our other range of shaft couplings

Torsionally Flexible Coupling

3-58,000 Nm.
Available with new improved spider design.
Spiders also available in polyurethane.
Available with KWIK-FIX keyless bushings clampings hubs and shrink discs.

ROBO – DX

Torsionally rigid, backlash free, flexible steel bellows coupling.

30-600Nm
Compensates for shaft misalignment.Temperature resistant all steel design.
Maintenance free.

Torsionally stiff All Metallic Membrane Couplings

80-60,000 Nm.
Available with KWIK-FIX keyless bushings and shrink discs.
High flexibility due to optyimised disc design.
High flexibility rigidity.

Also available to APL- 610/ API-671 standards.

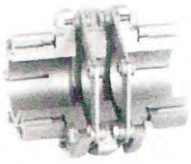
ROBA – ES

Backlash free flexible coupling
4 – 1310 Nm.
Damps critical vibration.
Permits blind assembly.

Smartflex

The perfect servo coupling
16-200 Nm.
Modular Patented Design.
Upto three times the misalignment capabilities of traditional all – steel couplings.

ROBO – DS/ ROBO –D



Torsionally rigid, backlash free all steel couplings.
30 – 16,000 Nm.
Patented Disk Pack Design.
Very high torsional rigidity

We reserve the rights to make alternations due to technical developments and change in design.

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Mob : 09322641435

TORQUE LIMITER

Drives & Drives torque limiter is a protective device that limits torque transmitted in a drive system by slipping when torque demand exceeds a preset value as a result of shock loads, over loads, or machine jams. It automatically reengages when the overload torque has passes, no resetting is required.
The Drives & Drives torque limiter utilizes spring loaded friction surfaces for its operations, slip torque is present by adjustment of the spring force. The Drives & Drives torque limiter can be used with a sprocket, gear , sheave or flange plate as a centre member that is clamped between two friction liners.

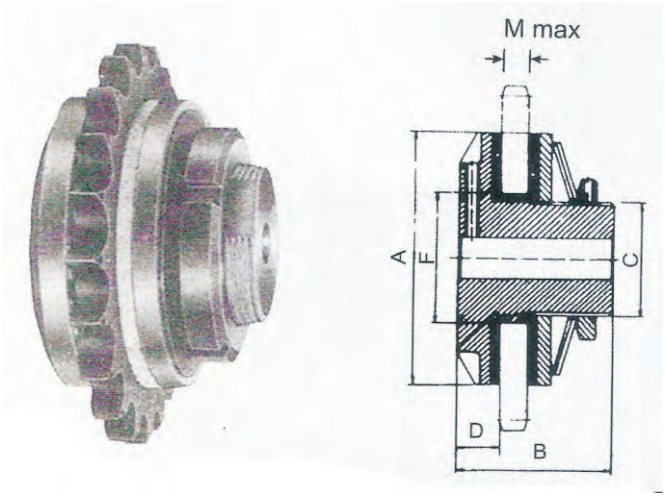
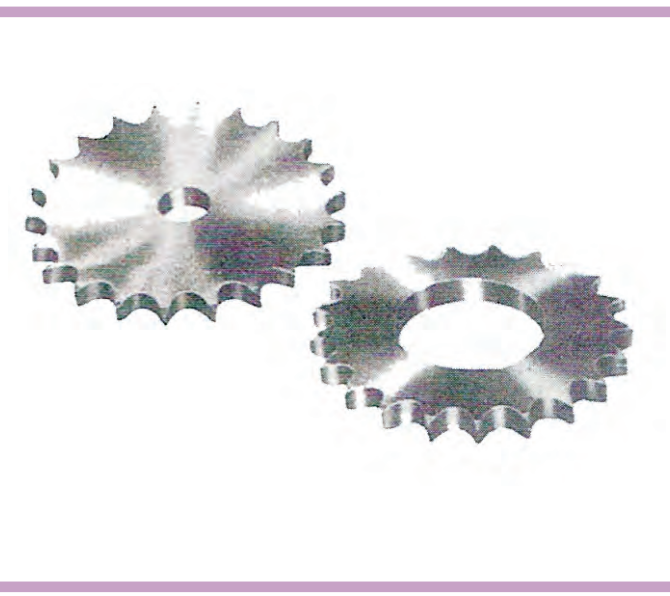


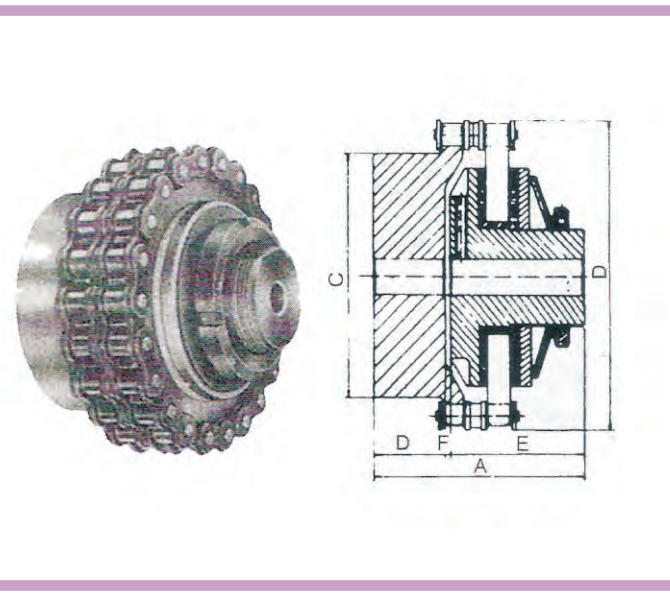
PLATE SPROCKETS

Drives & Drives offers – as a stock item – plate wheels specifically for torque limiter application. Select your plate wheel from our standard sprocket catalogue.
For more precise torque setting and for applications where slippages may be frequent, it is recommended that a Drives & Drives plate sprocket be used. For optimum torque limiter performance plate sprocket must be flat, paralleled, square with bore and free from rust, scale and oil. If a plate sprocket is not in accordance with these specifications, torque limiter capacity will be erratic and generally lower.



TORQUE LIMITER COUPLINGS

Drives & Drives offers a Torque Limiter Coupling in 14 sizes. This device consists of a shock Torque Limiter and a roller chain type coupling.
The Torque Limiter coupling combines overload slip – protection with the ability to couple driving and driven shafts.
It is an assembly consisting of a standard Torque Limiter and a roller chain coupling. A stock ground plate sprocket serves as the centre member of the torque limiter and it is coupled to a sprocket by an I.S double stand roller chain which is easily connected by a standard connecting link. This construction provides a dependable and easy-to – assemble flexible coupling having shaft misalignment compensation.



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Mob : 09322641435

CAPACITIES & DIMENSIONS OF TORQUE LIMITER

Torque Limiter size	Torque capacity (K.G.M)		Pilot Min. Bore	Max. bore	APPROX. WT – KG	A	B	C	D	M Max.	'F' Sprocket Bore DIA. OVER BUSHING
	MIN.	MAX.									
50 – D1	0.3	1.5	8.0	14	0.3	50	29	24	6.5	7.2	30.10
50 – D2	0.6	2.5	8.0	14	0.3	50	29	24	6.5	7.2	30.10
65 – D1	0.7	2.8	9.6	22	0.5	65	50	35	15	8.8	41.40
65 – D2	1.4	5.5	9.6	22	0.5	65	50	35	15	8.8	41.40
90 – D1	2.0	7.0	12.7	28	1.5	90	65	45	18	16.0	52.00
90 – D 2	3.5	14.0	12.7	28	1.5	90	65	45	18	16.0	52.00
125 – D1	5.0	18.0	19.0	38	3.5	125	78	60	23	16.0	70.00
125 – D2	6.5	36.0	19.0	38	3.5	125	78	60	23	16.0	70.00
150 – D1	7.5	44.0	25.0	42	5.5	150	90	70	26	23.0	80.00
150 – D2	9.0	61.0	25.0	42	5.5	150	90	70	26	23.0	80.00
180 – D1	11.0	58.0	25.0	64	10.0	180	106	100	28	28.5	110.00
180 – D2	20.0	110.0	25.0	64	10.0	180	106	100	28	28.5	110.00
225 – D1	22.0	140.0	30.0	92	20.0	230	120	140	33	28.5	152.00
225 – D2	40.0	175.0	30.0	92	20.0	230	120	140	33	28.5	152.00

MINIMUM SPROCKET TEETH AND BUSH LENGTH OF PLATE SPROCKETS

TORQUE LIMTER SIZE	3/8*SPRKT MIN.TEETH	BUSH LENGTH	1/2*SPRKT MIN.TEETH	BUSH LENGTH	5/8* SPRKT MIN.TEETH	BUSH LENGTH	3/4*SPRKT MIN.TEETH	BUSH LENGTH	1*SPRKT MIN.TEETH	BUSH LENGTH	1 1/4 *SPRKT MIN.TEETH	BUSH LENGTH	1½* SPRKT MIN.TEETH	BUSH LENGTH	13/4* SPRKT MIN.TEETH	BUSH LENGTH	2*SPRKT MIN.TEETH	BUSH LENGTH
50–D1	20	9	16	10.5	14	12												
50–D2																		
65–D1	25	10.5	20	12	10	14.5												
65–D2																		
90–D1	33	10.5	26	12	21	14.5	19	16.5	15	21								
90–D2																		
125–D1			35	16	30	17.5	25	19.0	19	24								
125–D2																		
150–D1			42	14	34	17.5	30	19.0	22	24	19	24.8	17	30.4	15	36		
150–D2																		
180-D1			48	14	39	17.5	33	19.0	26	24	21	24.8	18	30.4	16	36	15	36
180-D2																		
225-D1			60	21	50	23	42	26	32	30	26	31	23	37	20	42	19	42
225-D2																		

CAPACITIES & DIMENSIONS OF TORQUE LIMITER COUPLING

	Misalignment		Torque capacity (kg.m)		Max. Bore		Min. Pilot Bore				Dimensions (mm)				Approx. Wt.
TORQUE LIMITER COUPLING SIZE	Parallel Max. (mm)	Angular Max.	Min.	Max.	Torque Limiter (mm)	Cplg. Sp.kt. (mm)	Torque Limiter (mm)	Cplg. Sp.kt. (mm)	A	B	C	D	E	F	Kgs.
50 – D1C 50 – D2C	0.2	1/2°	0.3 0.6	1.5 2.5	14	28	8	10	55	77	50	24	29	2	1.0
65 – D1C 65 – D2C	0.25	1/2°	0.7 1.4	2.8 5.6	22	48	10	10	80	102	76	25	50	3	2.0
90 – D1C 90 – D 2C	0.30	1/2°	2.0 3.5	7.0 14.0	28	56	12.7	19	103	137	106	40	65	3	6.50
125 – D1C 125 – D2C	0.38	1/2°	5.0 6.5	18.0 36.0	38	70	19	22	121	188	150	45	78	3	13.0
150 – D1C 150 – D2C	0.38	1/2°	7.5 9.0	44.0 61.0	42	90	25	25	144	206	180	50	90	3	21.0
180 – D1C 180 – D2C	0.50	1/2°	11.0 22.0	58.0 110.0	64	100	25	25	176	176	200	64.3	106	3	34.0
225 – D1C 225 – D2C	0.70	1/2°	20.0 40.0	140.0 175.0	92	160	30	40	205	308	244	92	120	3	65.0

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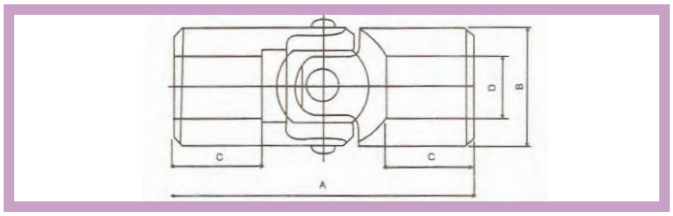
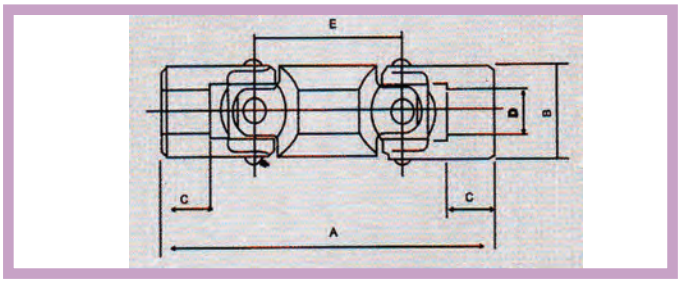
Tel : +91 022 2163 3694
Mob : 09322641435

UNIVERSAL JOINTS



SINGLE JOINT

Series No.	B	A	BORE SIZE		C	Nm
			STANDARD	WITHKEY WAY		
DSJ 1	9.5	44	6	-	13	21
DSJ 2	13	50	8	-	15	44
DSJ 3	16	58	10	7.5	17	75
DSJ 4	19	64	12	8.5	19	89
DSJ 5	22.5	76	14	11	21	135
DSJ 6	25.5	86	16	12	25	193
DSJ 7	29	90	18	14	26	331
DSJ 8	32	95	20/22	16	26.5	600
DSJ 9	38.5	106	25	19	30	910
DSJ 10	44.5	127	30	22.5	34.5	1230
DSJ 11	51	140	35	27.5	38	1790
DSJ 12	57.5	165	40	32	47.5	2860
DSJ 13	63.5	178	45	36.5	50	3810
DSJ 14	76.5	222	50	44.5	66	7510
DSJ 15	69	254	65	53	78.5	11010
DSJ 16	102	292	70	62	94	15850



DOUBLE JOINT

Series No.	B	A	BORE SIZE		C	E	Nm
			STANDARD	WITHKEY WAY			
DD J 1	13	71.5	8	-	15	21.5	44
DD J 2	16	81	10	7.5	17	25	75
DD J 3	19	91	12	8.5	19	27	89
DD J 4	22.5	111	14	11	21	35	135
DD J 5	25.5	122	16	12	25	36	193
DD J 6	29	133	18	14	26	43	331
DD J 7	32	143	20/22	16	26.5	48	600
DD J 8	38.5	162	25	19	30	54	910
DD J 9	44.5	194	30	22.5	34.5	67	1230
DD J 10	51	218	35	27.5	38	78	1790
DD J 11	57.5	245	40	32	47.5	68	2860
DD J 12	63.5	267	45	36.5	50	89	3810
DD J 13	76.5	318	50	44.5	56	96	7510
DD J 14	89	365	65	53	78	111	11010
DD J 15	102	410	70	62	94	118	15850

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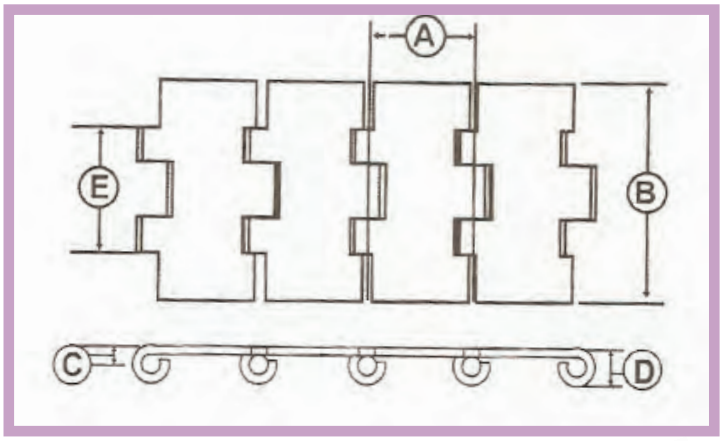
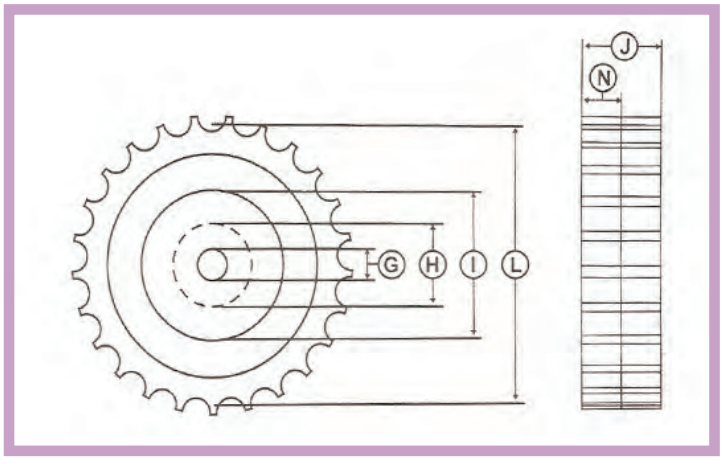
Tel : +91 022 2163 3694
Mob : 09322641435

SLAT BAND BOTTLE CONVEYOR CHAINS



Chain No.		Pitch	Width over slats (Nominal)	Depth from top of slat to chain centre. Max	Gearing Dimensions		Side float of slat on pin (Max.)	Bearing area	Working load	Weight
Stainless Material	Mid Steel Case hardened	A	B	C	Gearing barrel dia. (depth of link) Max D	Width over gearing face. (Max)				
		in.	in.	in.	in.	in.	in.	Sq.in	Lb.	Lb.ft
199 700	199 720		3.0							1.67
199 701	199 721		3.25							1.76
199 702	199 722	1.5	3.5	.225	.51	1.665	.025	.20	550	1.86
199 704	199 724		3.75							1.95
199 703	199 723		4.0							2.05
199 709	199 729		7.5							3.35

WHEELS – Cast iron (for use with both series of chains)



Wheel No.	No. Of teeth	Equivalent NO. Of chain pitches	Bore		Boss Diameter I	Tooth Width J	Pitch Diameter L	Boss Face to chain centre line N	Weight Stock Bore
			Standard G	Maximum H					
			in.	in.	in.	in.	in.	in.	in.
209 007	19	9.5	.500	2.50	Wheels		4.620		6.5
209 009	21	10.5	.625	2.875	Without		5.089		7.9
209 011	23	11.5	.625	3.25	Bosses		5.560		9.6
209 013	25	12.5	.625	1.50	3.0	1.72/1.70	6.032	.850	7.25
209 015	27	13.5	.625	1.50	3.0		6.502		8.00
209 017	29	14.5	.625	1.50	3.0		6.978		8.75
209 019	31	15.5	.750	1.50	3.0		7.452		9.50

ABOVE CHAINS & SPROCKETS ARE AVAILABLE IN DECRIN / NYLON MATERIAL

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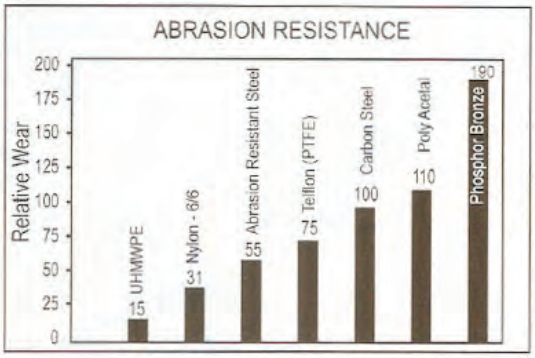
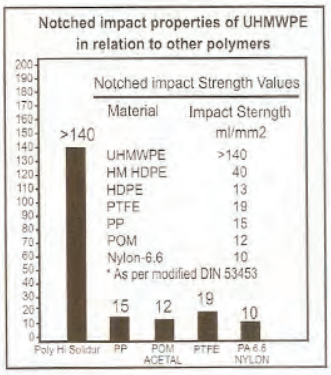
Tel : +91 022 2163 3694
Mob : 09322641435

TYPICAL PROPERTIES OF UHMWPE MATERIAL :

PHYSICAL PROPERTIES	UNIT	TEST METHOD	TEST VALUE
*Density (of the Homogenously Pressed material)	g/cm ^{3}	DIN 53479	0.93 – 0.94
*Average molecular weight	g/mol	-	➢ 4.0 X 10^6
*Melt index MFI 190 / 15	g/10 min	DIN 53735	NIL
MECHANICAL PROPERTIES :			
*Yield stress	N/mm ^{2}	DIN 53455 ISO 527	>22
*Elongation at yield	%	Testing rate	
*Elongation at break	%	50mm/min	< 20 >200
*Tensile modulus	N/mm ^{2}	DIN 53457	720
*Ball indentation hardness	N/mm ^{2}	DIN ISO 2039	>38
*30 sec value test load 365 N		Part 1 DIN 53505	>65
*Shore hardness D	-	DIN 53453	No failure
*Notched impact strength (IZODIC)	mJ / mm	Internal test method (24hr at 1200RPM quartz sand of particle size 0.2 – 1.0mm)	100 (max)
*Wear by the sand – slurry method (based on HOECHST)	mg.		
THERMAL PROPERTIES			
*Vicat softening point VST	°C	DIN 5360ISO 306 method B	80
*Coefficient of linear expansion between 23 and 80 C	K^{-1}	DIN 53752	2 x 10^{-4}
ELECTRICAL PROPERTIES,measures under standard climatic conditions (23C, 50 % RH)			
*Volume resistivity	Ωcm	DIN 53482; VDE 0303, part 3	>10^{14}
* Surface resistivity	Ω	DIN 53482; VDE 0303, part 3	>10^{11}
*Dielectric strength	Kv/mm	DIN 53481; VDE 0303, part 2	45
(Arc resistance)	rating	DIN 53484; VDE 0303, part 5	L4





CHEMICAL RESISTANCE OF UHMWPE PODUCT IN COMPARISON WITH OTHER PLASTICS

	UHMWPE	PP (Poly Propylene)	POM (ACETAL)	PTFE (TEFFLON)	PA (NYLON)
Water	+	+	+	+	+
Acid	+	+	–	+	–
Lye	+	+	+	+	+
Hydrochloride Acid	+	+	+	+	+
Oils/ Fats	+	+	+	+	(+)
Alcohols	+	(+)	(+)	+	+
Easter	+	(+)	(+)	+	(+)
Organic Acid	(+)	–	(+)	+	(+)

+resistant (+) limited resistance – not resistant Elaborate list will be provided on request

WATER ABSORPTION

Test Standard	UHMWPE	Nylon 6/6 (Extruded)	Nylon 6 (Cast)	PTFE Teflon	Acetal
ASTM Code D570 Saturation %	<0.01	8,5 - 10	8,5 - 10	<0.01	0.9

UHMWPE is water repellent and doesnot swell.
UHMWPE retained its properties in humidconditions , which can occur in difference parts of the country and across seasonal changes.

COMPARISON OF DYNAMIC COEFFICIENT OF FRICTION ON POLISHES STEEL

Lubricant	Mild Steel	UHMWPE	Nylon	Acetal	PTFE
Dry	0.25 0.35	0.12 0.20	0.15 0.40	0.15 0.35	0.40 0.25
Water	N.A	0.50 0.10	0.14 0.19	0.10 0.20	0.40 0.08
Oil	N.A	0.30 0.08	0.02 0.11	0.05 0.10	0.40 0.50

GUIDELINES FOR MACHINING OF UHMWPE PRODUCTS

Machining operation	Cutting Speed M/min	Feed Rate	Tool Material	Cutting Angle Degree	Clearance Angle Degree
Sawing (Circular)	3,000 to 4,000	0.1 to 0.2mm per saw tooth	Carbine Tip Saw	5 – 8	10 – 15
Planing	2,500	0.1 to 0.3mm per turn	HSS	20	5 – 30
Drilling	16 – 40	0.1 to 0.3mm per turn	Twist Drill HSS	15 – 25 5 – 15	16 5 – 15
Milling	800 – 2000	0.4mm Per saw toth	HSS		
Turning	90 - 400	0.1 to 0.5 mm/turn	HSS TC	15 – 25	5 – 15

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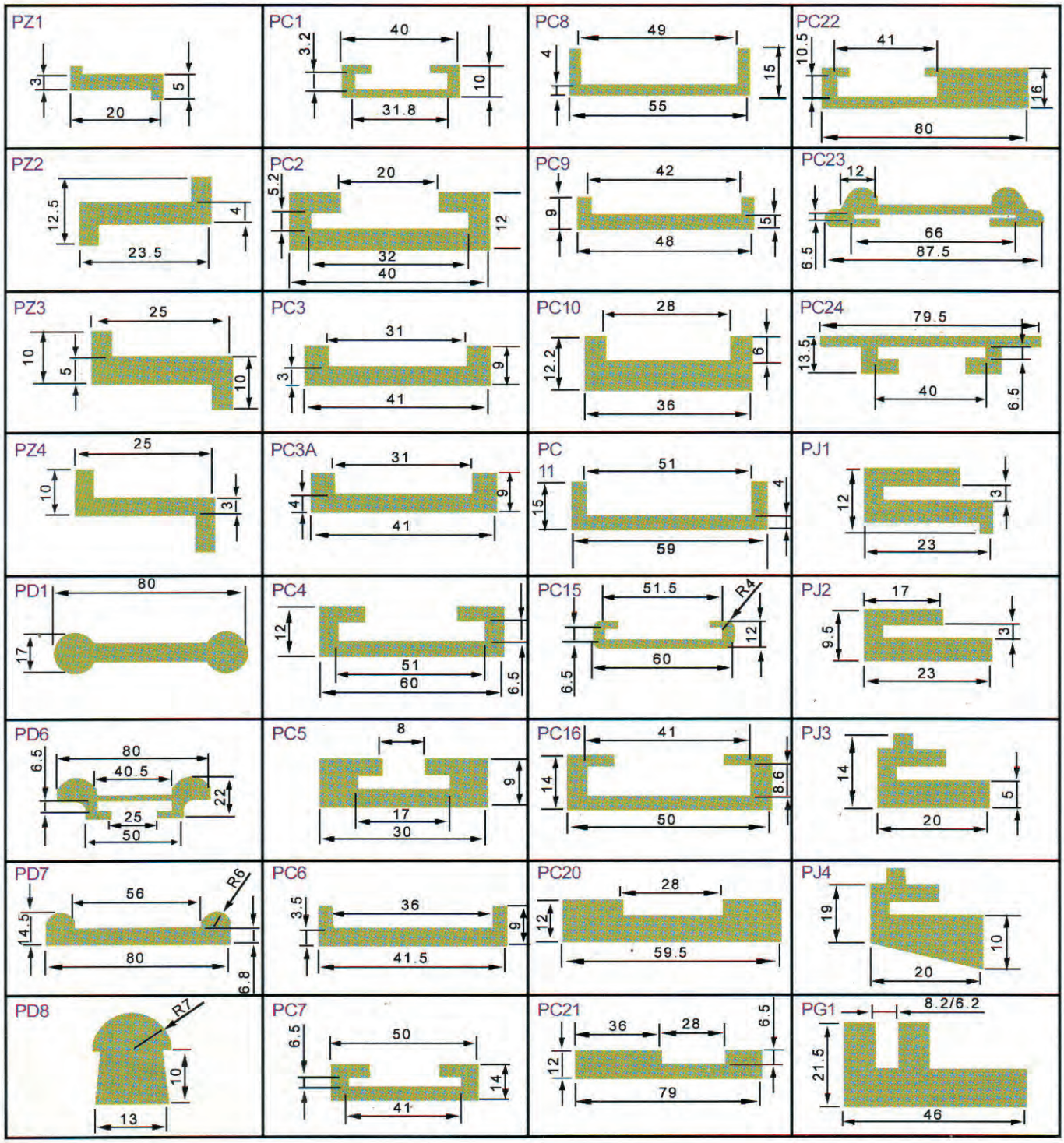
E-mail - dddrives@gmail.com
Tel : +91 022 2163 3694
Mob : 09322641435

UHMWPE
EXTRUDED PROFILES
MACHINED COMPONENTS



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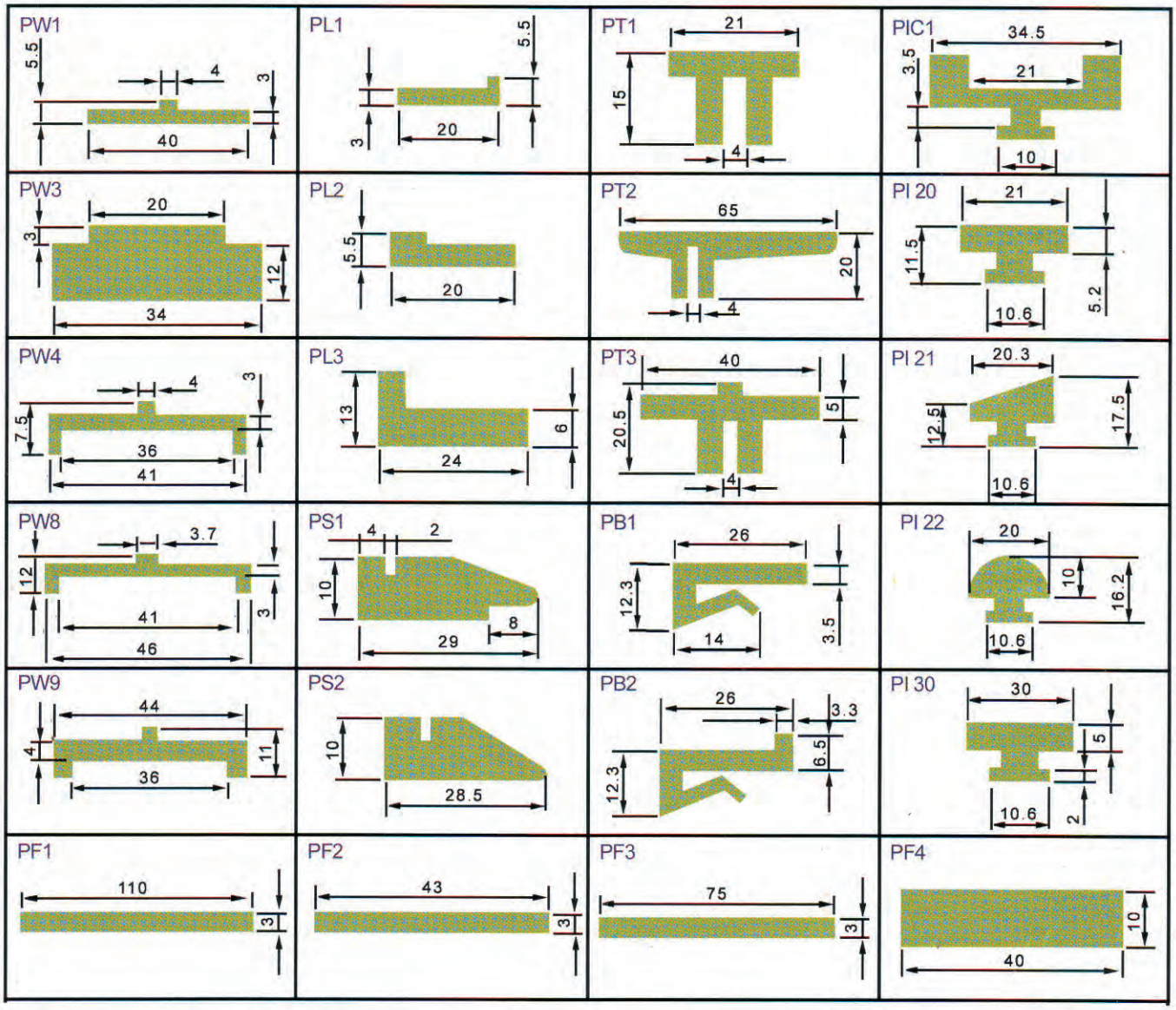
Tel : +91 022 2163 3694
Mob : 09322641435

UHMWPE
EXTRUDED PROFILES
MACHINED COMPONENTS



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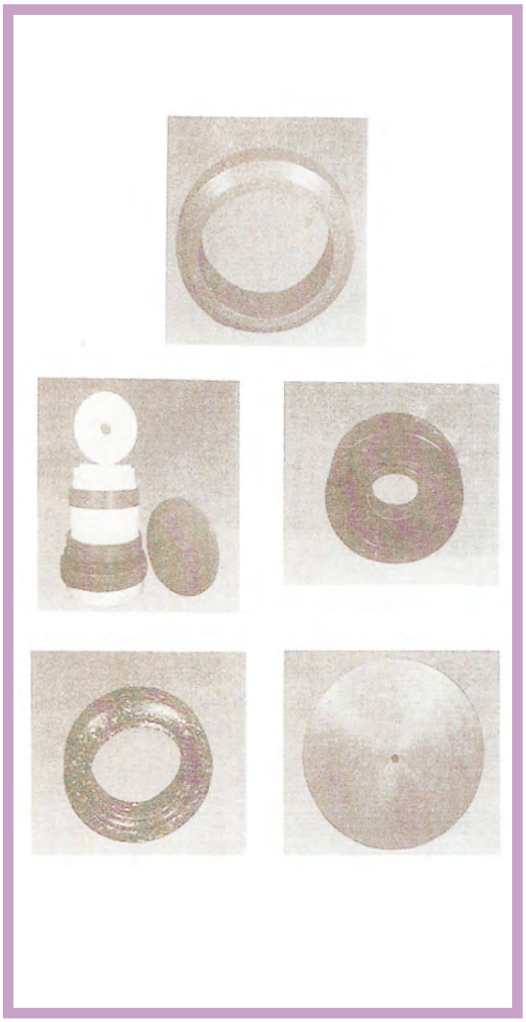
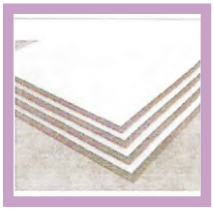
POLYMER (UNBREAKABLE) TROLLEY WHEELS

SIZE				FOR WHEEL LOAD CARRYING CAPACITY IN KGS	
SI. NO.	DIA (OD)	WIDTH	BORE	QUALITY	
				COMMERCIAL	FIRST
1.	50mm	20mm	10mm	100	175
2.	70mm	25mm	15mm	175	210
3.	70mm	35mm	15mm	250	300
4.	75mm	28mm	10mm	250	300
5.	100 mm	30mm	15mm	250	300
6.	100 mm	40mm	15mm	300	360
7.	100 mm	50mm	15mm	320	380
8.	101 mm	42mm	15.5mm	300	360
9.	110 mm	100mm	15mm	320	380
10.	125 mm	35mm	15mm	320	380
11.	125 mm	45mm	15mm	320	380
12.	125 mm	50mm	15mm	350	425
13.	127 mm	42mm	15.5mm	320	480
14.	150 mm	40mm	25mm	350	425
15.	150 mm	50mm	25mm	400	380
16.	150 mm	150mm	25mm	400	480
17.	150 mm	75mm	25mm	450	500
18.	160 mm	50mm	25mm	400	480
19.	160 mm	68mm	25mm	460	500
20.	165 mm	75mm	25mm	450	500
21.	175 mm	75mm	25mm	400	480
22.	200 mm	50mm	25mm	460	550
23.	200 mm	55mm	25mm	460	550
24.	200 mm	60mm	25mm	460	550
25.	200 mm	75mm	25mm	460	600
26.	200 mm	100mm	25mm	460	600
27.	225 mm	50mm	25mm	400	500
28.	240 mm	55mm	25mm	400	500
29.	250 mm	50mm	25mm	400	550
30.	250 mm	60mm	25mm	400	600
31.	250 mm	75mm	25mm	400	600
32.	275 mm	87mm	25mm	400	600
33.	300 mm	50mm	30mm	500	600
34.	300 mm	60mm	30mm	500	730
35.	300 mm	75mm	30mm	500	925
36.	400 mm	100mm	30mm	500	925





HDPE SHEETS

HDPE is a versatile polymer used in variety of applications and industries. Its application includes chemical storage, chain guides, prosthetic devices, tanks etc.

Advantages
- Excellent impact resistance
- High tensile strength
- Low moisture absorption
- Good Chemical resistance
- Light in weight
- Good thermoforming properties

Delivery Programme
Compressed Sheets
1230 x 4300 x 10-75mm
1230 x 4000 x 50-100mm
Extruded Sheets
1250 x 2000 x 3-20 mm
Extruded Rods

10- 200 mm dua x 1m length

Other sizes available on request

CUTTING BOARD

Cutting Board are high Quality, High Impact Strength Cutting Board for material like Leather, Textile, Synthetics , Paper, Plywood, Foils, Rubber, Foam Rubber , Carpets, Asbestos etc. Also suitable for food industry as chopping boards.

Advantages
- No chopping
- Better life of dies, punches , knives etc
- High impact strength
- Different hardness o suit the requirement

Delivery Programme
Standard size
900 x 450 x 50mm
400 x 800 x 50mm
900 x 450 x 70mm
400 x 800 x 70mm
2150 x 1250 x 20 – 70mm
Other size available on request

Property	ASTM Test Method	Unit	Polyrib HP	Polyrib PPHI	POLYRIB PPICP
Melt flow index (230 °C/2.16kg)	D1238	g/10min	0.7	1.8	1.5
Tensile Strength at yield (50 mm/min)	D638	MPa	34	27	26.5
Elongation at yield (50 mm/min)	D638	%	9	13	7
Flexural Modulus (1 % secant)	D790A	MPa	1500	1000	1280
Notched izod impact strength (23° C)	D256	J/m	48	120	210
Heat deflection temperature (455 kPa)	D648	°C	104	78	88

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Tel : +91 022 2163 3694
Mob : 09322641435

SELECTION OF ROLLER CHAIN DRIVES

The following data should be taken into consideration while selecting roller chain drives

a)Horsepower to be transmitted
b)RPM of the driving and driven sprocket (speed ratio)
c)Load classification
d)Space limitations if any
e)Driven machine
f)Source of power
If the pitch centre distance and number of teeth on both driving and driven sprockets are known , you can use the following formula , tables and charts to calculate chain lengths.

SELECTION PROCEDURE

For maximum service life, smooth operation and optimum performance , the following points should be considered, while determining the number of teeth in the pinion.

a)As most drives have an even number of pitches in the chain, the use of a pinion with an odd number of teeth ensures even distribution of chain and wheel tooth wear.

b)Pinions for normal , stead drives should generally not have less than 17 teeth, the reason being that a chain forms a polygon around the pinion. When the pinion speed is constant , the chain speed is subject to regular cyclic variation. The percentage of cyclic variation becomes less marked as the number of teeth increases – and in fact becomes insignificant for the majority of applications when the number of teeth in the pinion exceeds 17.

c)A minimum of 23 teeth is recommended on moderate shock drives where the speed of the pinion exceeds 50 % of the maximum rated speed, and for heavy shock drives where the speed of the pinion exceeds 25% of the maximum rated speed.

d)The pinion should be heated toHV 10- 550 for smooth drives where the pinion speeds exceeds 70% of the maximum speed and operates under full horsepower rating. For heavy shock drives, the pinion be treated in all cases.

DETERMINE THE CLASS OF LOAD

If the shock loads are expected , then first determine the class of load on the basis of the drives equipment (see table 1)

Load classifications **Table 1**

UNIFORM LOAD	MODERATE SHOCK LOAD	HEAVY SHOCK LOAD
Centrifugal pumps, Agitator for liquids, Conveyors, Fans- Uniform Load	Reciprocating pumps, Wood working M/c's Grinders, Conveyors – irregular Load	Presses, Earth moving equipment Shears, Cranes & Hoists, Reciprocating and Shaker type conveyors, Crushers, Reciprocating feeders
Generators, M/c's all types with uniform non – reversing loads	Mixers and Machines all types with moderate shock and non- reversing loads	Machines – all types with severe impact shock loads or variation and reversing service

Note : If Table 1 does not list your equipment, go by its similarity to a listed item

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Tel : +91 022 2163 3694
Mob : 09322641435

SELECTION OF ROLLER CHAIN DRIVES

ESTABLISH THE DESIGN HORSEPOWER

Establish the design horsepower by multiplying the specified horsepower value with the service factor given in Table 2

SERVICE FACTOR **TABLE 2**

Type of Driven Load	TYPE OF INPUT POWER		
	Internal Combustion Engine with Hydraulic Drive	Electric Motor or Turbine	Internal Combustion Engine with Mechanical Drive
Uniform	1.0	1.0	1.2
Moderate Shock	1.2	1.3	1.4
Heavy Shock		1.4	1.5 1.7

FINAL SELECTION OF CHAIN

Selection of multi – strand chains will become necessary if available space is limited or high speeds call for a chain with lower pitch. The strand factors are given in Table 3 . To facilitate selection of multi – strand chains, multiply the horsepower rating for single strand chains by corresponding strand factor.

ISO 10823 – 996 standard of guidance can be referred for selection of chain drive power.

Actual power = Input power x service factor x strand factor.

MULTIPLE STRAND FACTOR **TABLE 3**

No. Of Strands	Multiple Strand Factor
2	1.7
3	2.5
4	3.3
5	3.9
6	4.6
8	6.2
10	7.5

Considering the actual power and rpm of the pinion, using the horsepower rating chart select the chain for the application.

SELECT THE LARGE SPROCKET

By using the required shaft speed ratio select the number of teeth in the large sprocket. If the required shaft speed ratio cannot be obtained with a standard sprocket , increase the number of teeth in the small sprocket by one or two, to obtain an acceptable speed ratio with a slightly larger standard sprocket. The size of the large sprocket is affected by allowable were elongation of the chain which may go up to 3% . The use of sprockets with more than 67 teeth reduces the life of the chain expressed in percentage elongation as :

Permissible wear elongation = 200/N (%). The speed ration for single drive should not exceed 10 :1
A greater ratio will make it necessary t provide for two drives in series.

DETERMINE CHAIN LENGTH

Compute the length of chain required using the formula given below. I possible, adjust the centre distance , so that the length of chin required is always in an even number of pitches. For optimum life of the chain and sprockets the centre distance between the two sprockets should be 30 to 50 times the chain pitch.

$$L = \frac{2C}{P} + \left\{\frac{N+n}{2}\right\} + \left\{\frac{N-n}{2\pi}\right\}^2 \frac{P}{C}$$

where L = Chain length in pitches
P = Chain Pitch
C = Contemplated centre distance
N = Number of teeth on large sprocket
n = Number of teeth on small sprocket

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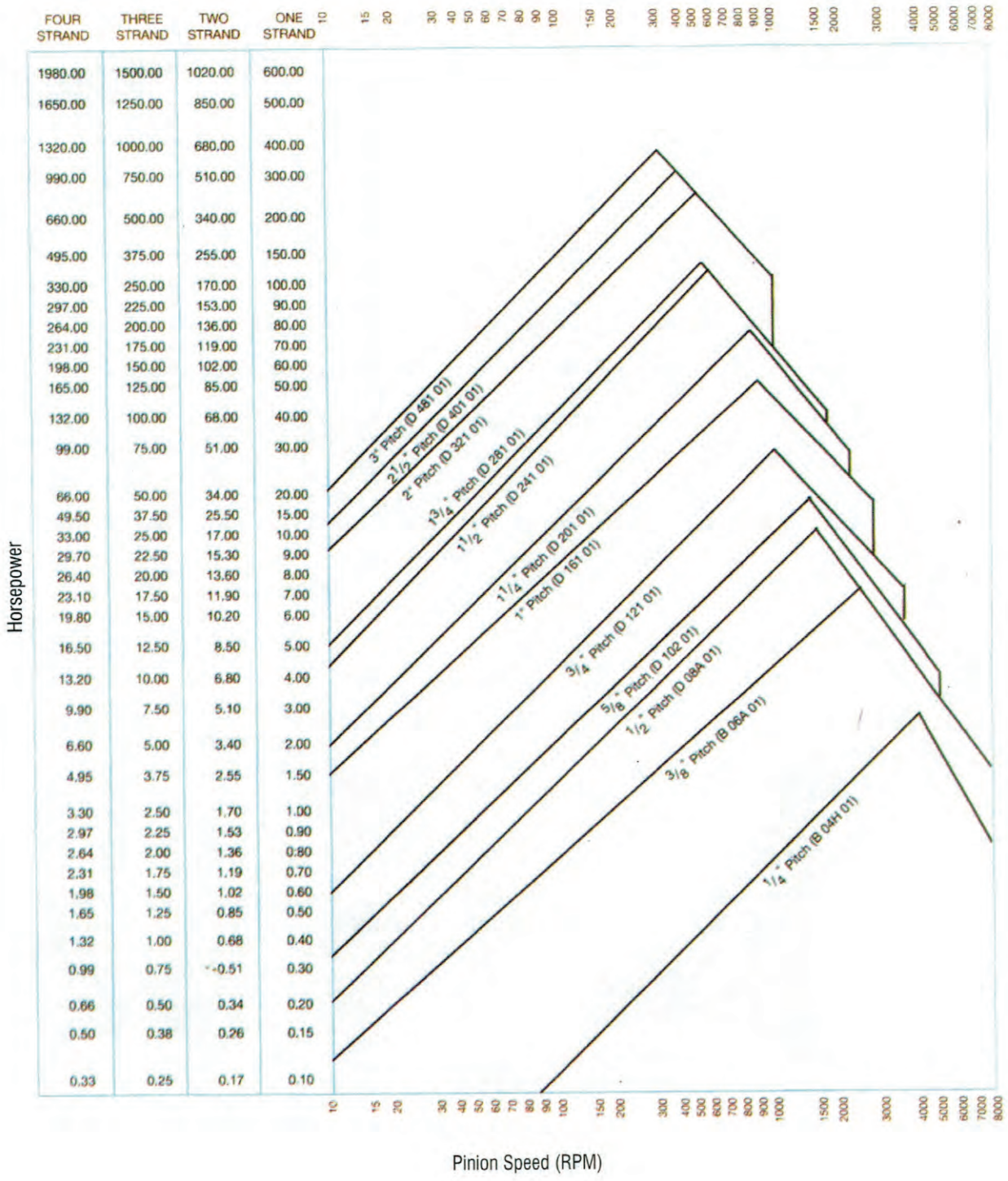
E-mail - dddrives@gmail.com
Tel : +91 022 2163 3694
Mob : 09322641435

HORSE POWER RATING CHART

TENTATIVE SELECTION CHART FOR AMERICAN STANDARD CHAINS (19 TEETH PINION)

FOUR STRAND	THREE STRAND	TWO STRAND	ONE STRAND
1980.00	1500.00	1020.00	600.00
1650.00	1250.00	850.00	500.00
1320.00	1000.00	680.00	400.00
990.00	750.00	510.00	300.00
660.00	500.00	340.00	200.00
495.00	375.00	255.00	150.00
330.00	250.00	170.00	100.00
297.00	225.00	153.00	90.00
264.00	200.00	136.00	80.00
231.00	175.00	119.00	70.00
198.00	150.00	102.00	60.00
165.00	125.00	85.00	50.00
132.00	100.00	68.00	40.00
99.00	75.00	51.00	30.00
66.00	50.00	34.00	20.00
49.50	37.50	25.50	15.00
33.00	25.00	17.00	10.00
29.70	22.50	15.30	9.00
26.40	20.00	13.60	8.00
23.10	17.50	11.90	7.00
19.80	15.00	10.20	6.00
16.50	12.50	8.50	5.00
13.20	10.00	6.80	4.00
9.90	7.50	5.10	3.00
6.60	5.00	3.40	2.00
4.95	3.75	2.55	1.50
3.30	2.50	1.70	1.00
2.97	2.25	1.53	0.90
2.64	2.00	1.36	0.80
2.31	1.75	1.19	0.70
1.98	1.50	1.02	0.60
1.65	1.25	0.85	0.50
1.32	1.00	0.68	0.40
0.99	0.75	0.51	0.30
0.66	0.50	0.34	0.20
0.50	0.38	0.26	0.15
0.33	0.25	0.17	0.10



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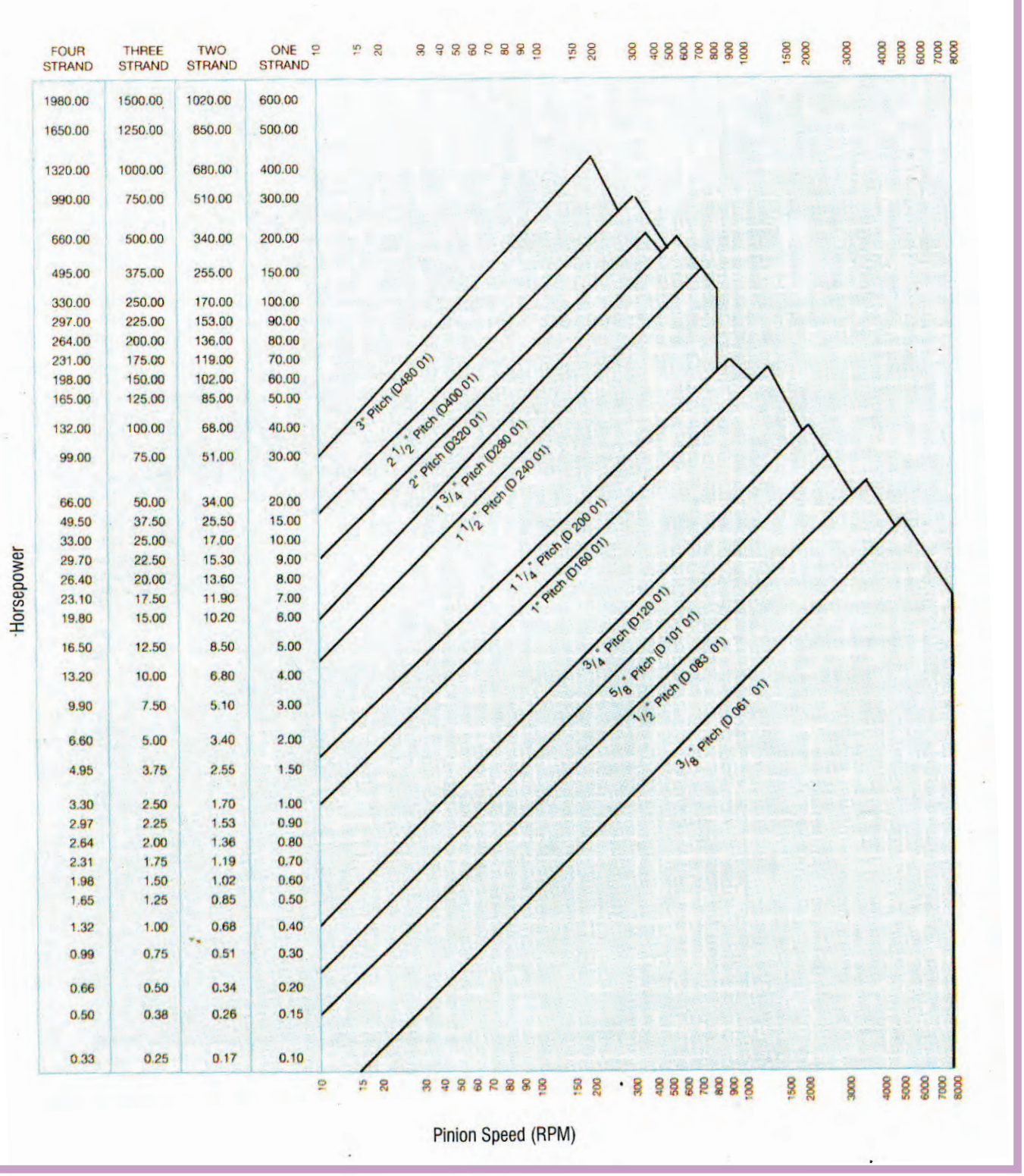
E-mail - dddrives@gmail.com
Tel : +91 022 2163 3694
Mob : 09322641435

HORSE POWER RATING CHART

TENTATIVE SELECTION CHART FOR BRITISH STANDARD CHAINS (19 TEETH PINION)

FOUR STRAND	THREE STRAND	TWO STRAND	ONE STRAND
1980.00	1500.00	1020.00	600.00
1650.00	1250.00	850.00	500.00
1320.00	1000.00	680.00	400.00
990.00	750.00	510.00	300.00
660.00	500.00	340.00	200.00
495.00	375.00	255.00	150.00
330.00	250.00	170.00	100.00
297.00	225.00	153.00	90.00
264.00	200.00	136.00	80.00
231.00	175.00	119.00	70.00
198.00	150.00	102.00	60.00
165.00	125.00	85.00	50.00
132.00	100.00	68.00	40.00
99.00	75.00	51.00	30.00
66.00	50.00	34.00	20.00
49.50	37.50	25.50	15.00
33.00	25.00	17.00	10.00
29.70	22.50	15.30	9.00
26.40	20.00	13.60	8.00
23.10	17.50	11.90	7.00
19.80	15.00	10.20	6.00
16.50	12.50	8.50	5.00
13.20	10.00	6.80	4.00
9.90	7.50	5.10	3.00
6.60	5.00	3.40	2.00
4.95	3.75	2.55	1.50
3.30	2.50	1.70	1.00
2.97	2.25	1.53	0.90
2.64	2.00	1.36	0.80
2.31	1.75	1.19	0.70
1.98	1.50	1.02	0.60
1.65	1.25	0.85	0.50
1.32	1.00	0.68	0.40
0.99	0.75	0.51	0.30
0.66	0.50	0.34	0.20
0.50	0.38	0.26	0.15
0.33	0.25	0.17	0.10



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E-mail - dddrives@gmail.com
Tel : +91 022 2163 3694
Mob : 09322641435

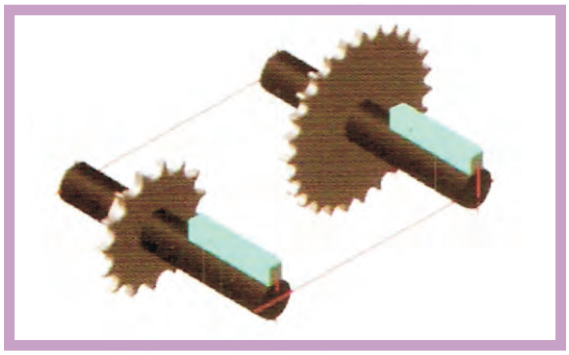
INSTALLATION AND MAINTENANCE OF CHAIN DRIVES

INSTALLATION

Careful and accurate installation is very essential for trouble free operation and long life. The following instruction should therefore be carefully observed.

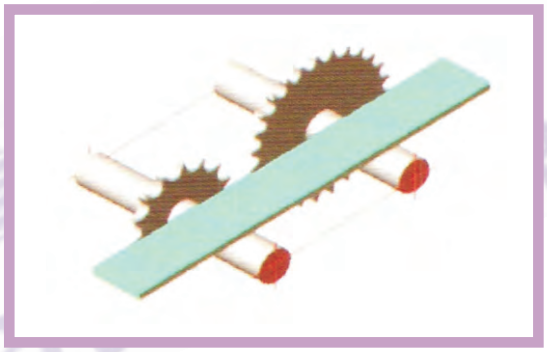
a) Shaft alignment

Make sure that all shafts are parallel and level. Check alignment with a spirit level. The shafts should be supported by sufficiently strong bearings to avoid any displacement during operation.



b) Installation of Sprockets

Align the sprockets exactly on the shafts. Check with a straight edge of a string held against the sides of the sprocket face. Improper alignment of sprockets will cause abnormal wear on the chain link plates and on the sides of the sprocket teeth. Check occasionally during operation for such wear

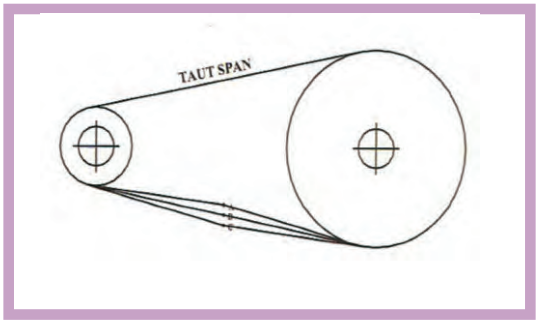


c) Mounting of Chain

Wrap the chain around the sprockets and bring the two ends together on one sprocket to connect them with a connecting link.

d) Chain Tension

The chain should never run with both sides tight. To check tension, turn one sprocket to tighten the lower span of the chain. Then measure the sag of the lower strand which should be about to 2 to3% of the tangent to the sprockets. In an inclined drive the sag should be less. In vertical drives a chain tensioner must be provided for.



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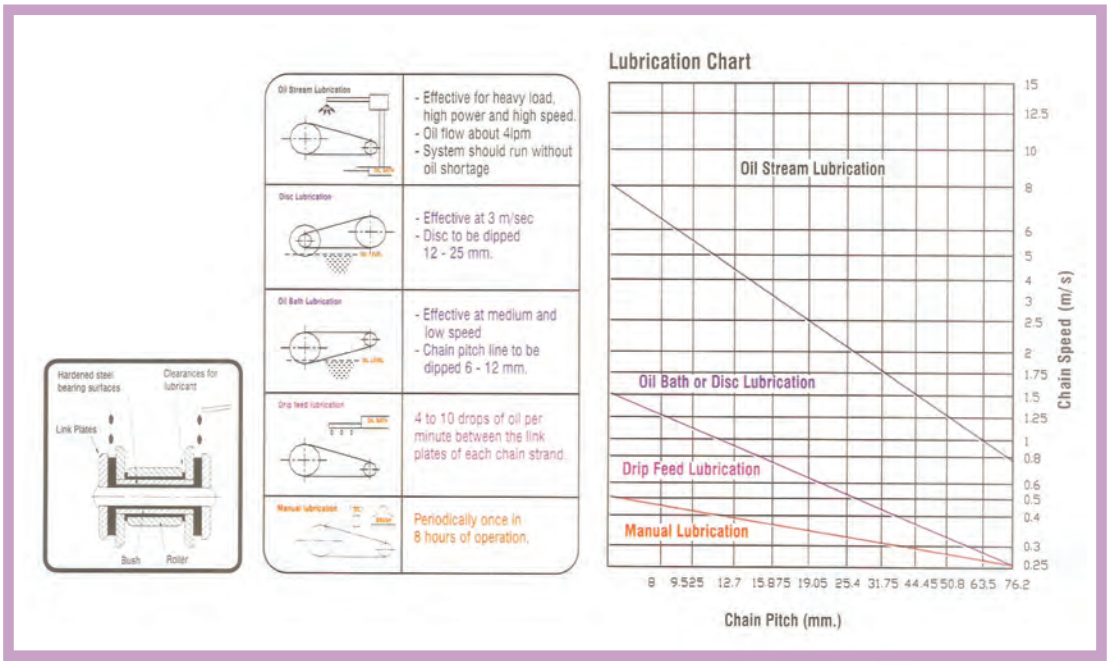
Tel : +91 022 2163 3694
Mob : 09322641435

LUBRICATION OF CHAIN DRIVES

Chain life will vary appreciably depending on the way the drive is lubricated. A properly lubricated chain can last more than 100 times as long as the same chain with poor lubrication. A good grade of clean petroleum oil without addictives, free flowing at the prevailing temperatures should be used. Some addictives leave a varnish or gum deposit which prevents the oil from entering chain joints. Heavy oils and greases are generally too stiff to enter the chain joints and should not be used or it should be heated up indirectly and chain should be immersed in molten bath.

With proper lubrication, a separating wedge of lubricant is formed between the pins and bushings in the chain joints, much like that formed in journal bearings. The viscosity of the lubricant greatly affects its separating force and its ability to become a wedge between moving parts. The highest viscosity oil which will flow between the chain link plates and fill the pin bushing areas will provide the best wear life. This is essential to minimise metal to metal contact and, if supplied volume, the lubricant also provides effective cooling and impact dampening at higher speeds.



LUBRICANT

The best lubricant for most applications is a light petroleum oil. High viscosity oil and grease are suitable only for slow drives exposed to weather conditions.

The lubricant recommended by TI Diamond for the various surrounding temperatures are indicated in the following table:

Chain Pitch	-10 degree C To 0 degree C	0 degree C to 40 degree C	40 degree C to 50 degree C	50 degree C to 60 degree C
Less than 5/8"	SAE 10	SAE 20	SAE 30	SAE 40
¾" – 1"	SAE 20	SAE 30	SAE 40	SAE 50
1¼"				
1½" & ABOVE	SAE 30	SAE 40	SAE 50	

Chain drives should be protected from dust, dirt and moisture. Depending on the type of application and type of lubricantion, systems should be cleaned and oil change is recommended after the first 500 operating hours, to be repeated every 2500 hours

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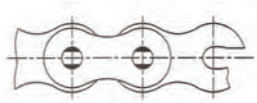
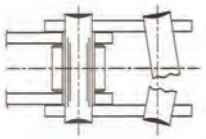
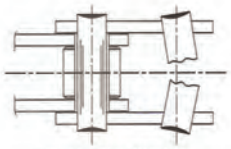
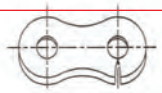
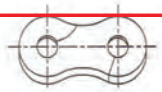
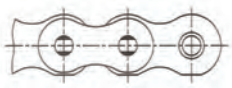
E-mail - dddrives@gmail.com
Tel : +91 022 2163 3694
Mob : 09322641435

TROUBLE SHOOTING HINTS

PROBLEM	POSSIBLE CAUSES OF PROBLEM	SUGGESTED REMEDY
 Fracture Plate	**Overloading**	**Inspect the drive to determine the cause of high load and eliminate** **Or** **Redesign drive for larger pitch chain**
 Broken Pins	Overloading	Inspect the drive to determine the cause of high load and eliminated or Redesign drive for larger pitch chain
 Broken Pins (Centre)	Loading is greater than pins dynamic capacity	Inspect the drive to determine the cause of high load and eliminated or Redesign drive for larger pitch chain
 Broken Pins (Offset Pin)	Overloading	Inspect the drive to determine the cause of high load and eliminated or Redesign drive for larger pitch chain
 Fatigue Failure	Loading is greater than pins dynamic capacity	Single pitch offset link is to be eliminated Redesign drive using a higher capacity chain
 Cracking	Stress corrosion cracking	Inspect the drive to determine the cause of high load and eliminated or Select anti – corrosive chain
 Broken Roller	Speed too high Sprockets too small Chain riding too high on sprocket teeth	Replace chain, reduce speed Use larger sprockets or possibly redesign drive for small sprocket
 Worn Contour	Chain rubbing on casing, guide or obstruction	Replace chain if 5% or more height worn out Inspect and redesign casing, guide and eliminate interference
 Pin or Bushing Galling	Speed or load too high Inadequate lubrication	Reduce speed or load Redesign drive for smaller pitch chain Provide proper lubrication system

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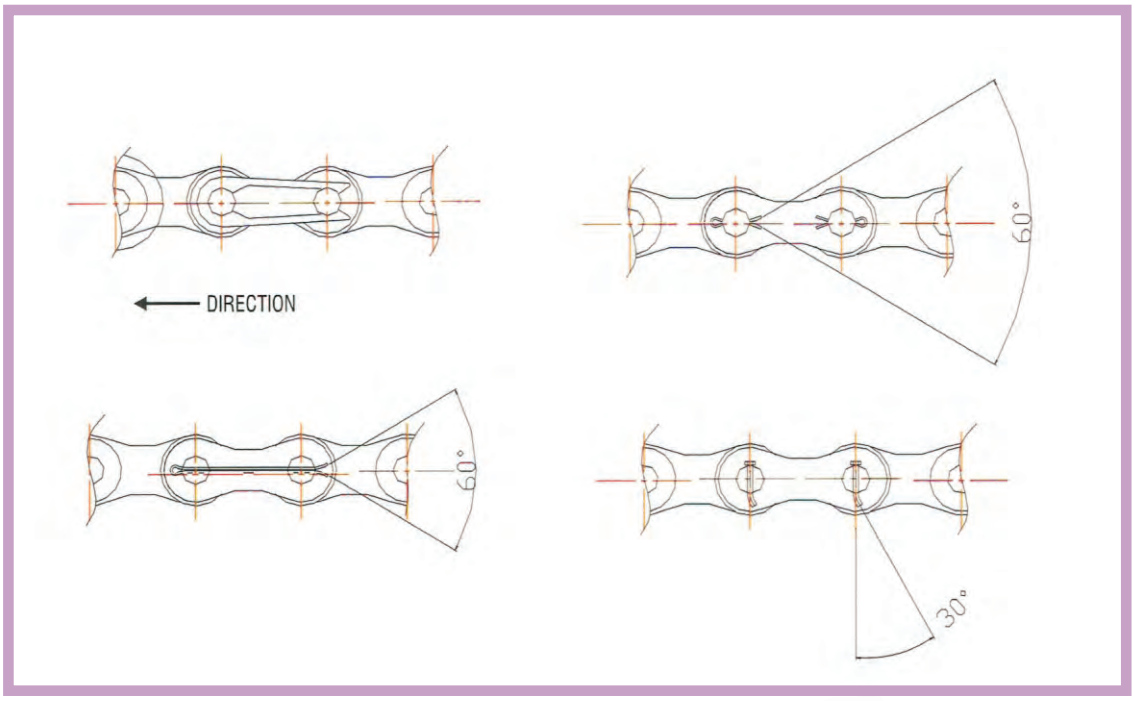
E-mail - dddrives@gmail.com
Tel : +91 022 2163 3694
Mob : 09322641435

WARNING

COMPLY WITH THE FOLLOWING TO AVOID SERIOUS PERSONAL INJURY AND CRITICAL ACCIDENTS.

- Guards must be provided on all chain and sprocket installation as per ANSI/ ASME B 15.1 – 1984 and ANSI ASME B 20.1 1990 or other applicable safety standards. As ns when these standards are revised, the updated edition should be followed.
- Power should be switched off before installation, removal, lubrication or service of a chain system.
- When connecting or disconnecting chain
  - i) Wear safety glasses, protective clothing, gloves and safety shoes
  - ii) Support the chain to prevent movement
  - iii) Use appropriate tools for connecting and disconnecting chains and sprockets

  Do not attempt to connect or disconnect chain unless the drive mechanism is well understood.
  Chain and sprocket selection should be made in accordance with our horse power rating chart or our recommendations.
  Regular maintenance is required for all chain drives



- Plating, welding and other operations may reduce strength and can cause breakage. Consult our engineers for recommendation.
- Do not re- use disassembled chain parts. Do not use reworked chain or join reworked chain with a new chain.
- Never use acid, alkali or general rust removal solvents to clean a chain. It may cause hydrogen embrittlement.
- Never use a new chain on an old sprocket. Replace chains and sprockets together.

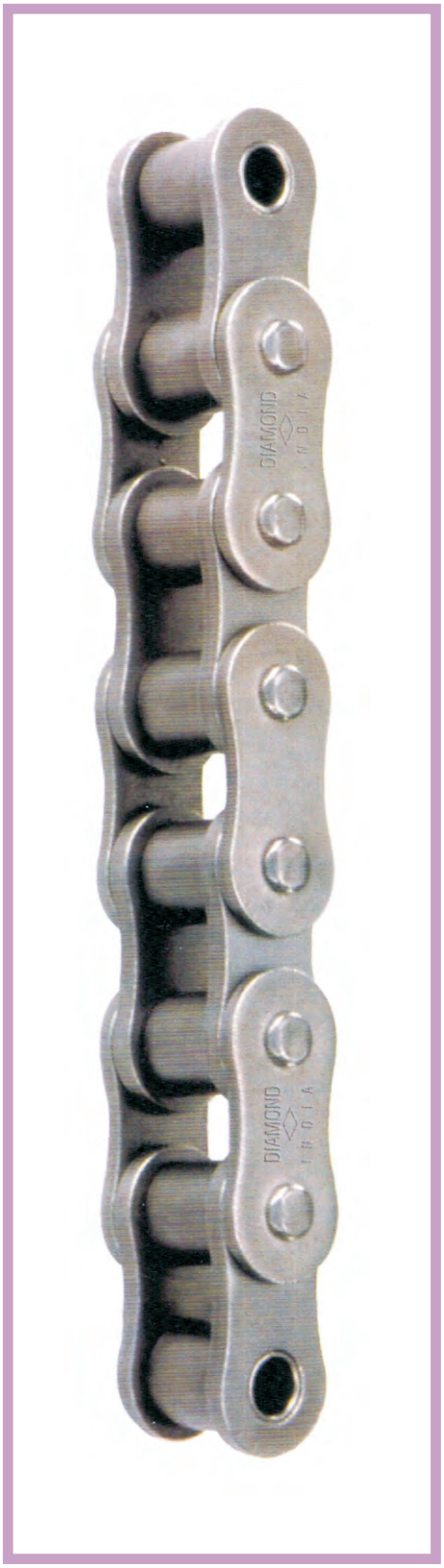
E-mail - dddrives@gmail.com
Tel : +91 022 2163 3694
Mob : 09322641435

ROLLER CHAINS

The Diamond Max Series

This special series of hi – life, special characteristic chains has been created for rugged applications, where the standard chains have always fallen short.They feature unique properties such as high breaking load, increased fatigue strength & wear life, close length tolerance and more.

Diamond Max Roller Chains have been specifically developed with exceptional strength and endurance. They get their extra endurance from the inspiration in the detail of the plates, pins, bushes and rollers, manufacture to close tolerance, and assembly with care.



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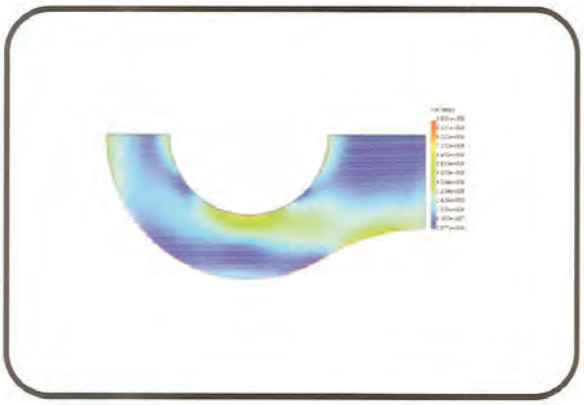
E-mail - dddrives@gmail.com
Tel : +91 022 2163 3694
Mob : 09322641435



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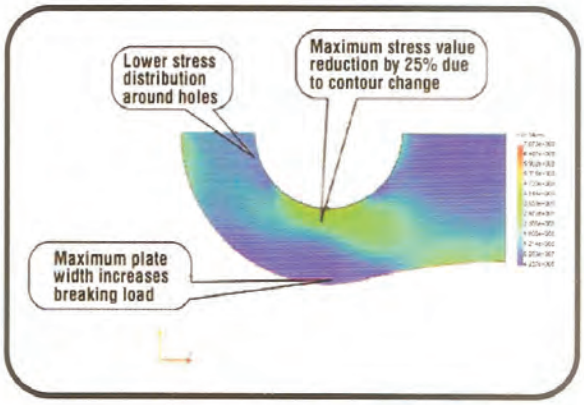


NEW CONTOUR

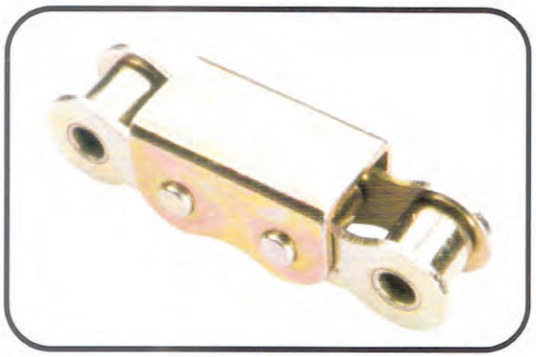
SHOT PEENED PLATES

HIGH PERFORMANCE CHAINS

Chains with more Life

E-mail - dddrives@gmail.com
Tel : +91 022 2163 3694
Mob : 09322641435

Work Standard Attachment Chains



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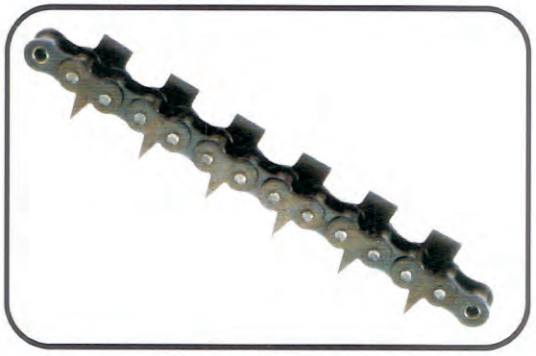

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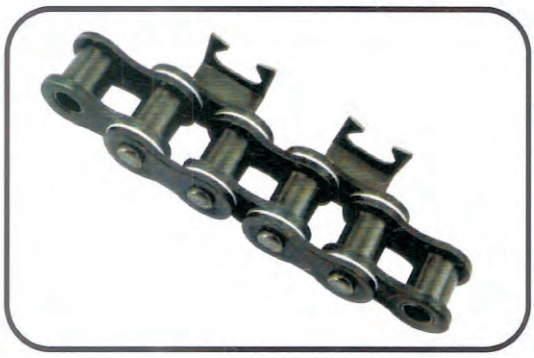
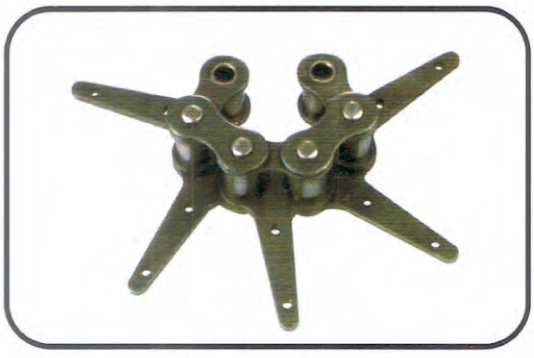
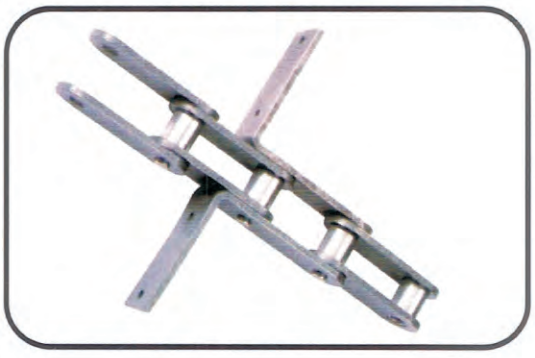


WELDED ATTACHMENT WITH TEFLON WASHER

WELDED ATTACHMENT



SPECIAL ATTACHMENT



REDLER ATTACHMENT

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