

Esbee Machinery Pvt. Ltd.



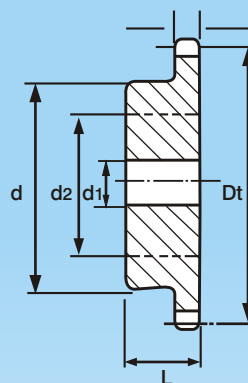
Authorised Dealers
ROLON
INDUSTRIAL CHAINS
ISO 9001
INTERNATIONAL QUALITY

SPEEDO
SPROCKETS



**Sprockets made to order
as per customer's specifications and drawing**

2, AMRAPALI, 90 FEET ROAD, MULUND (E), MUMBAI - 400 081.
TEL.: 2163 2381, 2163 2381, 5626 7960 • FAX: (022) 2163 6603
E-mail: esbee@bom5.vsnl.net.in • Website: www.esbeecain.com



SPROCKETS Simplex

for Roller Chains Simplex

TEETH		13	15	17	19	20	21	23	25	27	30	38	45	57	76	95	114	150
Chain 3/8"x7/32" 6.35 mm R - Ø	Dt mm	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
	d mm	28	34	40	45	46	50	55	60	65	75	70	75	75	75	85	85	95
	Lmm	24	24	28	28	28	28	28	28	28	28	32	32	32	32	40	40	45
	d1mm	10	10	10	12	12	12	12	12	12	12	20	20	20	20	20	20	24
	d2 mm	19	22	26	30	30	33	36	40	43	50	46	50	50	50	56	56	63
Chain 1/2"x5/16" 8.51 mm R - Ø	Dt mm	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	
	d mm	37	45	53	60	60	60	60	60	70	75	95	95	95	95	95	95	
	L mm	24	24	24	28	28	28	28	28	30	30	40	40	40	40	45	45	
	d1mm	12	12	12	12	12	16	16	16	16	16	20	20	20	25	25	25	
	d2mm	24	30	35	40	40	40	40	40	46	50	63	63	63	63	63	63	
Chain 5/8"x3/8" 10.16 mm R - Ø	Dt mm	66.34	76.35	86.39	96.45	101.48	106.5	116.58	126.66	136.74	151.87	192.24	227.58	288.18	384.16	480.14	576.13	
	d mm	47	57	70	70	70	80	80	75	75	85	95	95	95	95	95	95	
	L mm	28	28	30	30	30	30	30	30	35	35	40	40	45	50	56	56	
	d1 mm	12	12	16	16	16	16	16	16	16	20	25	25	25	25	25	25	
	d2 mm	31	38	46	46	46	53	53	50	50	56	63	63	63	63	63	63	
Chain 3/4"x7/16" 12.07 mm R - Ø	Dt mm	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	
	d mm	58	70	75	85	85	85	85	85	95	95	95	95	95	95	95	95	
	L mm	30	38	35	35	35	40	40	40	40	40	56	56	56	56	65	65	
	d1 mm	16	16	16	16	16	20	20	20	20	20	20	20	25	25	25	25	
	d2 mm	38	46	50	56	56	56	56	56	63	63	63	63	63	63	63	63	
Chain 1"x17.02" 15.88 mm R - Ø	Dt. mm	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	
	d mm	76	95	95	105	105	105	105	105	120	120	120	135	135	140	140	140	
	L mm	40	40	45	45	45	50	50	50	50	50	65	70	70	80	80	80	
	d1 mm	16	16	16	16	16	20	20	20	20	20	20	20	25	25	25	25	
	d2 mm	50	63	63	70	70	70	70	70	80	80	80	90	90	93	93	93	
Chain 1.1/4" x3/4" 19.05 mm R - Ø	Dt. mm	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		
	d mm	100	120	120	120	120	120	120	120	150	150	160	160	160	170	180		
	L mm	50	50	60	60	60	60	60	60	60	60	80	80	90	90	100		
	d1 mm	30	30	30	30	30	30	30	30	30	30	30	30	40	45	45		
	d2 mm	66	80	80	80	80	80	80	80	100	100	106	106	106	113	120		
Chain 1.1/2"x1" 25.4 mm R - Ø	Dt. mm	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		
	d mm	120	120	130	130	130	130	130	130	150	150	170	170	190	200	210		
	L mm	75	75	75	75	75	75	75	75	75	75	100	100	100	100	120		
	d1 mm	40	40	40	40	40	40	40	40	40	40	45	45	50	60	60		
	d2mm	80	80	86	86	86	86	86	86	100	100	113	113	126	133	133		

Welded

Note : Total length **L** and bass dia **d** max. bore diameter **d₂** - will vary from given dimension due to production constraints.
Hence this catalogue is to be used only to enable the designer to get general dimensions only.

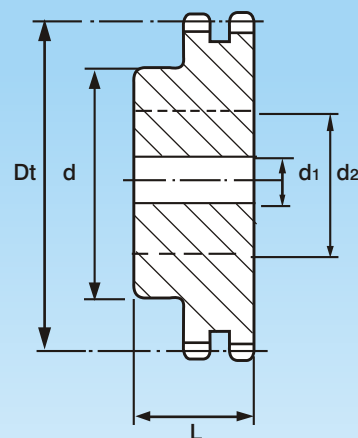
Esbee Machinery Pvt. Ltd.

for Roller Chains Duplex

TEETH		13	17	19	21	23	25	38	57	76	95	114	150
Chain 3/8"x7/32" 6.35 mm R - Ø	Dt mm	39.75	51.84	57.86	63.9	69.95	76	115.34	172.9	230.48	288.09	345.67	454.81
	d mm	28	40	46	52	58	64	90	85	85	95	95	105
	Lmm	25	30	30	30	30	30	40	40	40	45	45	50
	d1mm	12	12	12	12	12	12	20	20	20	20	20	24
	d2 mm	19	26	30	34	38	42	60	56	56	63	63	70
Chain 3/8"x5/16" 8.51 mm R - Ø	Dt mm	53.06	69.11	77.17	85.22	93.27	101.32	153.80	230.53	307.31	384.10	460.91	
	d mm	37	50	60	70	75	80	105	105	105	105	105	
	Lmm	35	35	35	40	40	40	45	50	56	56	56	
	d1mm	12	12	12	16	16	16	20	25	25	25	25	
	d2 mm	24	33	40	46	50	53	70	70	70	70	70	
Chain 3/8"x7/16" 2.07 mm R - Ø	Dt mm	79.6	103.68	115.75	127.81	139.90	151.99	230.68	345.82	460.88	576.17	691.36	
	d mm	58	75	85	100	105	105	120	130	145	160	170	
	Lmm	50	50	50	50	50	50	63	63	63	70	70	
	d1mm	16	16	16	20	20	20	25	25	25	40	40	
	d2 mm	38	50	56	66	70	70	80	86	96	106	113	
Chain 3/8"x17/02" 5.88 mm R - Ø	Dt mm	106.15	138.23	154.33	170.41	186.54	202.67	307.59	461.08	614.63	768.22	921.82	
	d mm	76	100	105	105	120	120	120	150	150	175	175	
	Lmm	70	70	70	70	70	70	75	90	95	95	95	
	d1mm	16	16	20	25	25	25	30	40	40	40	40	
	d2 mm	50	66	70	70	80	80	80	100	100	116	116	

SPROCKETS

Duplex

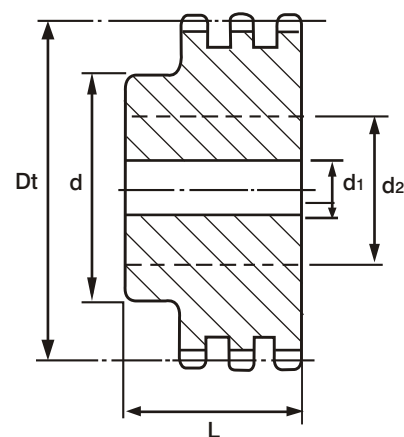


for Roller Chains Triplex

TEETH		13	17	19	21	23	25	38	57	76	95	114
Chain 3/8"x7/32" 5.35 mm R - Ø	Dt mm	39.75	51.84	57.86	63.9	69.95	76	115.34	172.9	230.48	288.09	345.67
	d mm	28	40	46	52	58	64	90	95	95	95	120
	Lmm	35	35	35	40	40	40	56	56	56	56	60
	d1mm	10	12	12	12	12	12	24	24	24	24	24
	d2 mm	19	26	30	34	38	42	60	63	63	63	80
Chain 3/8"x5/16" 8.51 mm R - Ø	Dt mm	53.06	69.11	77.17	85.22	93.27	101.32	153.8	230.53	307.31	384.1	460.91
	d mm	37	50	60	70	75	80	105	105	105	105	105
	Lmm	50	50	50	55	55	55	55	60	60	67	67
	d1mm	12	16	16	16	16	16	35	25	25	25	25
	d2 mm	24	33	40	46	50	53	70	70	70	70	70
Chain 3/8"x7/16" 2.07 mm R - Ø	Dt mm	79.6	103.6	115.75	127.81	139.9	151.99	230.68	345.82	460.98	576.17	691.36
	d mm	58	75	85	100	105	105	120	140	140	170	170
	Lmm	70	70	70	70	70	70	70	70	75	82	82
	d1mm	16	16	16	20	20	20	25	30	30	40	40
	d2 mm	38	50	56	66	70	70	80	93	93	113	113
Chain 3/8"x17/02" 5.88 mm R - Ø	Dt mm	106.15	138.23	154.33	170.41	186.54	202.67	307.59	461.08	614.63	768.22	921.82
	d mm	76	100	105	105	120	120	120	150	200	200	200
	Lmm	100	100	100	100	100	100	100	100	110	110	115
	d1mm	16	16	20	25	25	25	30	30	40	40	40
	d2 mm	50	66	70	70	80	80	80	100	133	133	133

SPROCKETS

Triplex



Welded

Note : Total length **L** and bass dia **d** max. bore diameter **d₂** - will vary from given dimension due to production constraints.
Hence this catalogue is to be used only to enable the designer to get general dimensions only.

Esbee Machinery Pvt. Ltd.

ANSI Roller Chain Sprocket Diameters (ANSI B29.1-1975)

These diameters and caliper factors apply only to chain of 1-inch pitch. For any other pitch, multiply the values given below by the pitch.

NOTE : Caliper Dia. (even teeth) = Pitch Diameter- Roller Dia.

Caliper Dia. (odd teeth) = (Caliper factor x Pitch) - Roller Dia.

No. Teeth*	Pitch Diameter	Outside Diameter	Caliper Factor	No. Teeth*	Pitch Diameter	Outside Diameter	Caliper Factor
9	2.9238	3.348	2.8794	59	18.7892	19.363	18.7825
10	3.2361	3.678		60	19.1073	19.681	
11	3.5495	4.006	3.5133	61	19.4255	20.000	19.4190
12	3.8637	4.332		62	19.7437	20.318	
13	4.1786	4.657	4.1481	63	20.0618	20.637	20.0556
14	4.4940	4.981		64	20.3800	20.956	
15	4.8097	5.304	4.7834	65	20.6982	21.274	20.6921
16	5.1258	5.627		66	21.0164	21.593	
17	5.4422	5.949	5.4190	67	21.3346	21.911	21.3287
18	5.7588	6.271		68	21.6528	22.230	
19	6.0755	6.593	6.0548	69	21.9710	22.548	21.9653
20	6.3924	6.914		70	22.2892	22.867	
21	6.7095	7.235	6.6907	71	22.6074	23.185	22.6018
22	7.0267	7.555		72	22.9256	23.504	
23	7.3439	7.876	7.3268	73	23.2438	23.822	23.2384
24	7.6613	8.196		74	23.5620	24.141	
25	7.9787	8.516	7.9630	75	23.8802	24.459	23.8750
26	8.2962	8.836		76	24.1984	24.778	
27	8.6138	9.156	8.5992	77	24.5166	24.096	24.5116
28	8.9314	9.475		78	24.8349	25.415	
29	9.2491	9.795	9.2355	79	25.1531	25.733	25.1481
30	9.5668	10.114		80	25.4713	26.052	
31	9.8845	10.434	9.8718	81	25.7896	26.370	25.7847
32	10.2023	10.753		82	26.1078	26.689	
33	10.5201	11.073	10.5082	83	26.4260	27.007	26.4213
34	10.8379	11.392		84	26.7443	27.326	
35	11.1558	11.711	11.1446	85	27.0625	27.644	27.0579
36	11.4737	12.030		86	27.3807	27.962	
37	11.7916	12.349	11.7810	87	27.6990	28.281	27.6945
38	12.1095	12.668		88	28.0172	28.599	
39	12.4275	12.987	12.4172	89	28.3354	28.918	28.3310
40	12.7455	13.306		90	28.6537	29.236	
41	13.0635	13.625	13.0539	91	28.9719	29.555	28.9676
42	13.3815	13.944		92	29.2902	29.873	
43	13.6995	14.263	13.6904	93	29.6084	30.192	29.6042
44	14.0175	14.582		94	29.9267	30.510	
45	14.3355	14.901	14.3269	95	30.2449	30.828	30.2408
46	14.6536	15.219		96	30.5632	31.147	
47	14.9717	15.538	14.9634	97	30.8815	31.465	30.8774
48	15.2898	15.857		98	31.1997	31.784	
49	15.6079	16.176	15.5999	99	31.5180	32.102	31.5140
50	15.9260	16.495		100	31.8362	32.421	
51	16.2441	16.813	16.2364	101	32.1545	32.739	32.1506
52	16.5622	17.132		102	32.4727	33.057	
53	16.8803	17.451	16.8729	103	32.7910	33.376	32.7872
54	17.1984	17.769		104	33.1093	33.694	
55	17.5165	18.088	17.5094	105	33.4275	34.013	33.4238
56	17.8347	18.407		106	33.7458	34.331	
57	18.1528	18.725	18.1459	107	34.0641	34.649	34.0604
58	18.4710	19.044		108	34.3823	34.968	

OUR PRODUCT RANGE

Authorised Dealers



ISO 9001 INTERNATIONAL QUALITY

TRANSMISSION ROLLER CHAIN

CONVEYOR CHAINS / CONVEYOR BELTS

OVER HEAD-CONVEYOR SYSTEMS

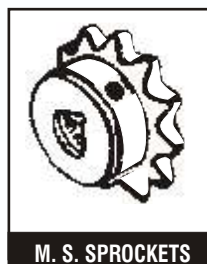
Floor Conveyors / Roller Conveyors /
Spares / Service

- Sprocket Wheels - Standard M. S.
- Special type as per Drawing
- S. Steel or Tailor made

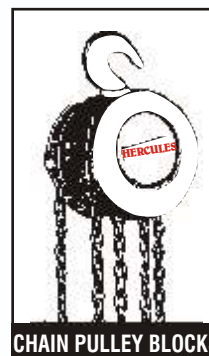
HERCULES CHAIN PULLEY BLOCK
with Test Certificate



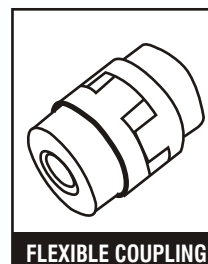
Complete Range
COUPLINGS / SPIDERS



M. S. SPROCKETS



CHAIN PULLEY BLOCKS



FLEXIBLE COUPLING

PULLING LIFTING CHAINS, WIRE ROPES
AS PER SPECIFICATION



SPECIALIST LINK CHAINS



Esbee Machinery Pvt. Ltd.

2, AMRAPALI, 90 FEET ROAD, MULUND (E), MUMBAI - 400 081.

TEL.: 2163 2381, 2163 5369, 5626 7960 • FAX : (022) 2163 6603

E-mail : esbee@bom5.vsnl.net.in

Website: www.esbeechain.com