

Sprockets
European Standard Series

1" × 17.02mm

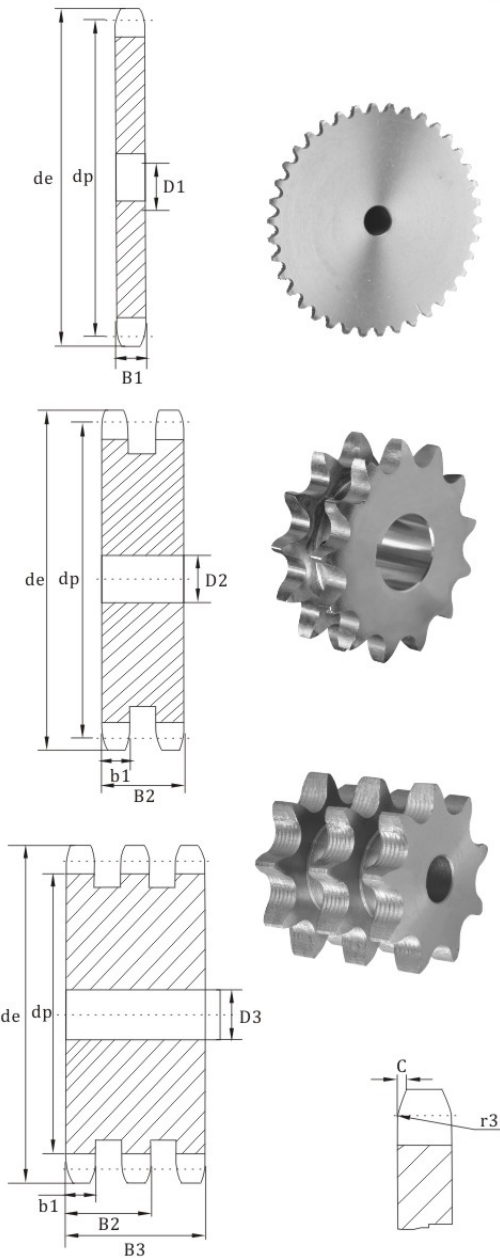
PLATEWHEELS 1" × 17.02mm

For Chain Acc. to DIN 8187

ISO/R 606

16B-1-2-3

Z	d _e	d _p	S		D		T	
			D ₁	W	D ₂	W	D ₃	W
8	77.0	66.37	12	0.32	16	0.71	16	1.13
9	85.0	74.27	12	0.39	16	0.97	16	1.56
10	93.0	82.19	12	0.51	16	1.27	16	2.05
11	101.5	90.14	16	0.63	20	1.61	20	2.53
12	109.0	98.14	16	0.77	20	1.94	20	3.15
13	117.0	106.12	16	0.96	20	2.36	20	3.84
14	125.0	114.15	16	1.08	20	2.81	20	4.59
15	133.0	122.17	16	1.26	20	3.31	20	5.40
16	141.0	130.20	20	1.43	20	3.84	25	6.16
17	149.0	138.22	20	1.64	20	4.41	25	7.11
18	157.0	146.28	20	1.85	20	5.01	25	8.11
19	165.2	154.33	20	2.08	20	5.66	25	9.18
20	173.2	162.38	20	2.32	20	6.34	25	10.31
21	181.2	170.43	20	2.58	25	7.00	25	11.51
22	189.3	178.48	20	2.84	25	7.76	25	12.77
23	197.5	186.53	20	3.13	25	8.56	25	14.10
24	205.5	194.59	20	3.42	25	9.40	25	14.49
25	213.5	202.66	20	3.73	25	10.28	25	16.94
26	221.6	210.72	20	4.05	25	11.20	30	18.33
27	229.6	218.79	20	4.38	25	12.15	30	19.91
28	237.7	226.85	20	4.73	25	13.14	30	21.55
29	245.8	234.92	20	5.09	25	14.17	30	23.26
30	254.0	243.00	20	5.46	25	15.24	30	25.04
31	262.0	251.08	25	5.82	25	16.35	30	26.88
32	270.0	259.13	25	6.22	25	17.50	30	28.78
33	278.5	267.21	25	6.63	25	18.68	30	30.75
34	287.0	275.28	25	7.06	25	19.90	30	32.78
35	296.2	283.36	25	7.50	25	21.16	30	34.88
36	304.6	291.44	25	7.83	25	22.46	30	37.04
37	312.6	299.51	25	8.60	25	23.80	30	40.79
38	320.7	307.59	25	9.05	25	25.18	30	41.56
39	328.8	315.67	25	9.51	25	26.59	30	44.60
40	336.9	323.75	25	9.98	25	28.39	30	46.83
41	345.0	331.81	25	10.47	25	29.78	30	49.10
42	353.0	339.89	25	10.96	25	31.07	30	51.41
43	361.1	347.97	25	11.47	25	32.62	30	53.79
44	369.1	356.05	25	11.98	25	34.24	30	56.87
45	377.1	364.12	25	12.51	25	35.57	30	59.36
46	385.2	372.20	25	13.05	25	37.12	30	62.67
47	393.2	380.28	25	13.60	25	38.68	30	65.30
48	401.3	388.36	25	14.49	25	40.76	30	68.02
49	409.3	396.44	25	15.07	25	42.40	30	70.76
50	417.4	404.52	25	15.67	25	44.10	30	73.59
51	425.5	412.60	30	16.29	30	45.82	40	77.36
52	433.6	420.68	30	16.91	30	48.69	40	80.33
53	441.7	428.76	30	17.55	30	50.53	40	83.36
54	448.3	436.84	30	18.08	30	52.05	40	85.87
55	457.9	444.92	30	18.86	30	54.30	40	89.59
56	466.0	453.01	30	19.54	30	56.24	40	93.85
57	474.0	461.08	30	20.21	30	58.19	40	97.10
58	482.1	469.16	30	20.91	30	60.88	40	100.45
59	490.2	477.24	30	21.62	30	62.94	40	103.86
60	498.3	485.33	30	22.34	30	65.04	40	107.32
62	514.5	501.49	30	23.81	30	69.34	40	115.71
64	530.7	517.65	30	25.34	30	73.77	40	123.11
65	538.8	525.73	30	26.12	30	76.04	40	126.89
66	546.8	533.80	30	26.90	30	78.32	40	132.16
68	562.9	549.98	30	29.23	30	83.93	40	140.06
70	579.2	566.15	30	30.85	30	88.86	40	148.29
72	595.4	582.31	30	32.60	30	94.30	40	156.70
75	619.7	606.56	30	35.31	30	102.85	40	171.63
76	627.0	614.64	30	36.54	30	105.69	40	175.70
78	643.3	630.81	30	38.47	30	112.05	40	186.99
80	660.0	646.97	30	40.49	30	117.94	40	196.82
85	699.9	687.39	30	46.03	30	132.64	40	221.34
90	740.3	727.80	30	51.49	30	148.39	40	247.63
95	781.1	768.22	30	57.32	30	166.99	40	278.67
100	821.1	808.64	30	63.35	30	181.33	40	311.26
110	902.0	889.48	30	77.26	30	225.08	40	375.61
114	934.3	921.81	30	82.89	40	241.49	40	402.99
120	982.8	970.32	30	91.72	40	267.22	40	445.92
125	1023.3	1010.73	30	99.43	40	289.69	40	483.43



PLATEWHEELS	mm
Tooth radius r _i	26
Radius width C	2.5
Tooth width B _i	16.2
Tooth width b _i	15.8
Tooth width B _e	47.7
Tooth width B _s	79.6
CHAIN	mm
Pitch	25.4
Internal width	17.02
Roller Φ	15.88

Sprockets
European Standard Series

1"1/4 × 3/4"

SPROCKETS 1"1/4 × 3/4"

For Chain Acc. to DIN 8187

ISO/R 606

20B-1-2-3

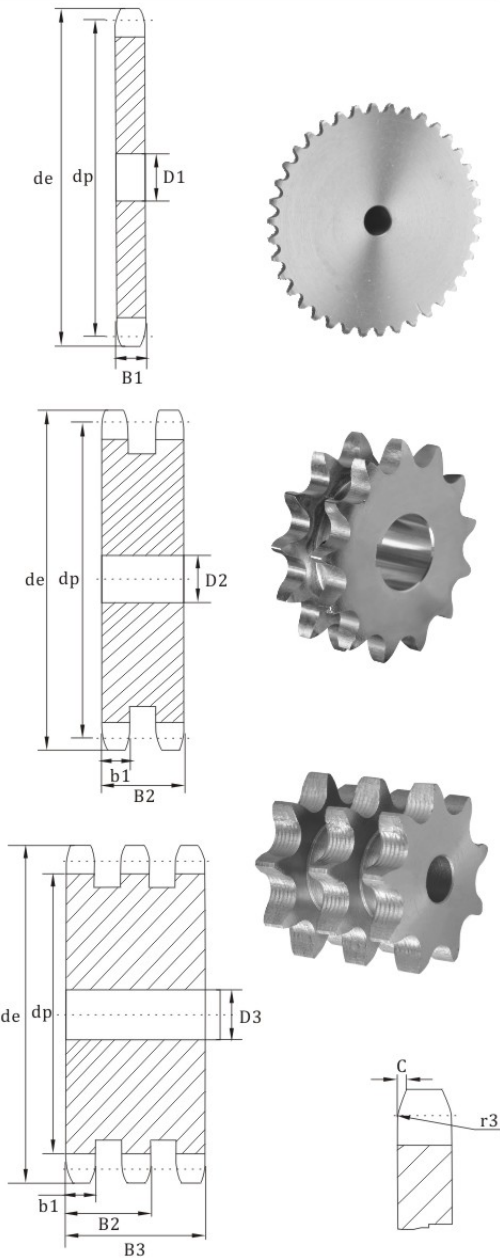
Z	d _e	d _p	SIMPLEX				DUPLEX				TRIPLEX			
			d _m	D ₁	A	W	d _m	D ₂	A	W	d _m	D ₃	A	W
8	98.1	82.96	53	20	40	0.92	53	20	75	1.58	53	20	110	2.15
9	108.0	92.84	63	20	40	1.19	63	20	75	2.19	63	20	110	3.05
10	117.9	102.74	70	20	40	1.51	70	20	75	2.85	70	20	110	4.04
11	127.8	112.68	77	20	45	2.04	80	20	80	3.72	80	20	115	5.19
12	137.8	122.68	88	20	45	2.58	90	20	80	4.66	90	20	115	6.55
13	147.8	132.65	98	20	45	3.15	100	20	80	5.70	100	20	115	8.06
14	157.8	142.68	108	20	45	3.78	110	20	80	6.84	110	20	115	9.71
15	167.9	152.72	118	20	45	4.47	120	20	80	8.08	120	20	115	11.50
16	177.9	162.75	120	20	50	5.28	120	25	80	8.90	120	25	115	13.06
17	187.9	172.78	120	25	50	5.64	120	25	80	9.92	120	25	115	14.65
18	198.0	182.85	120	25	50	6.01	*120	25	80	11.00	*120	25	115	16.54
19	208.1	192.91	120	25	50	6.55	*120	25	80	12.16	*120	25	115	18.45
20	218.1	202.98	120	25	50	6.98	*120	25	80	13.38	*120	25	115	20.48
21	228.2	213.04	140	25	55	8.64	*140	25	80	15.49	*140	25	115	23.38
22	238.3	223.11	140	25	55	9.11	*140	25	80	16.86	*140	25	115	25.64
23	248.3	233.17	140	25	55	9.60	*140	25	80	18.29	*140	25	115	28.00
24	258.4	243.23	140	25	55	10.31	*140	25	80	19.79	*140	25	115	30.49
25	268.5	253.33	140	25	55	10.85	*140	25	80	21.36	*140	25	115	33.09
26	278.6	263.40	*150	25	55	11.90	*150	25	80	23.45	*150	25	115	36.23
27	288.6	273.49	*150	25	55	12.48	*150	25	80	25.15	*150	25	115	39.06
28	298.7	283.56	*150	25	55	13.08	*150	25	80	26.93	*150	25	115	42.00
29	308.8	293.65	*150	25	55	13.71	*150	25	80	28.77	*150	25	115	45.49
30	318.9	303.75	*150	25	55	14.36	*150	25	80	30.69	*150	25	115	48.30
31	329.0	313.85	*150	25	55	15.02	*150	25	80	32.67	*150	30	115	51.91
32	339.1	323.91	*150	25	55	15.71	*150	25	80	34.72	*150	30	115	54.94
33	349.2	334.01	*150	25	55	16.42	*150	25	80	37.08	*150	30	115	58.85
34	359.3	344.10	*150	25	55	17.94	*150	25	80	39.92	*150	30	115	62.41
35	369.4	354.20	*150	25	55	18.72	*150	25	80	42.00	*150	30	115	65.76
36	379.5	364.30	*150	25	55	19.53	*150	30	80	44.13	*150	30	115	69.20
37	389.5	374.39	*150	25	55	20.35	*150	30	80	46.30	*150	30	115	73.69
38	399.6	384.49	*150	25	55	21.20	*150	30	80	48.55	*150	30	115	77.36
39	409.7	394.59	*150	25	55	22.07	*150	30	80	50.86	*150	30	115	82.22
40	419.8	404.69	*150	25	55	22.97	*150	30	80	53.22	*150	30	115	86.12
41	429.9	414.77	*150	25	70	25.49	*160	30	90	59.64	*160	30	110	91.04
42	440.0	424.86	*150	25	70	26.43	*160	30	90	62.22	*160	30	110	95.19
43	450.1	434.96	*150	25	70	27.38	*160	30	90	64.85	*160	30	110	99.43
44	460.2	445.06	*150	25	70	28.36	*160	30	90	67.55	*160	30	110	105.14
45	470.3	455.17	*150	25	70	29.36	*160	30	90	70.30	*160	30	110	109.63
46	480.4	465.25	*150	25	70	30.38	*160	30	90	73.11	*160	30	110	114.22
47	490.5	475.35	*150	25	70	31.43	*160	30	90	75.98	*160	30	110	118.91
48	500.6	485.45	*150	25	70	32.49	*160	30	90	78.91	*160	30	110	123.69
49	510.7	495.55	*150	25	70	33.58	*160	30	90	81.90	*160	30	110	128.57
50	520.8	505.65	*150	25	70	34.68	*160	30	90	84.95	*160	30	110	133.28
51	530.9	515.75	*150	25	80	36.89	*160	30	100	89.38	*180	30	123	143.30
52	541.0	525.85	*150	25	80	38.04	*160	30	100	92.55	*180	30	123	148.53
53	551.1	535.95	*150	25	80	39.21	*160	30	100	95.77	*180	30	123	153.86
54	561.2	546.05	*150	25	80	40.40	*160	30	100	99.06	*180	30	123	161.34
55	571.3	556.15	*150	25	80	41.62	*160	30	100	102.40	*180	30	123	166.93
56	581.4	566.25	*150	25	80	42.85	*160	30	100	105.80	*180	30	123	172.63
57	591.5	576.35	*150	25	80	44.11	*160	30	100	112.14	*180	30	123	178.43
58	601.6	586.45	*150	25	80	45.39	*160	30	100	115.75	*180	30	123	184.32
59	611.7	596.56	*150	25	80	46.69	*160	30	100	119.43	*180	30	123	190.32
60	621.8	606.66	*150	25	80	48.01	*160	30	100	123.16	*180	30	123	196.41
62	642.0	626.86	*150	25	80	50.72	*160	30	100	130.81	*180	30	123	211.53
64	662.2	647.07	*150	25	80	53.51	*160	30	100	142.26	*180	30	123	224.57
65	672.3	657.17	*150	25	80	54.94	*160	30	100	146.40	*180	30	123	231.24
66	682.4	667.27	*150	25	80	56.39	*180	30	100	152.23	*200	30	123	239.29
68	702.6	687.48	*150	25	80	59.35	*180	30	100	160.82	*200	30	123	253.13
70	722.8	707.68	*150	25	80	62.40	*180	30	100	169.66	*200	30	123	267.37
72	743.1	727.89	*150	25	80	65.55	*180	30	100	178.80	*200	30	123	282.08
75	773.3	758.20	*150	25	80	70.40	*180	30	100	192.85	*200	30	123	304.72
76	783.5	768.32	*150	25	80	72.08	*180	30	100	197.72	*200	30	123	312.57
80	823.9	808.71	*150	25	80	78.96	*180	30	100	217.65	*200	30	123	353.27
85	874.4	859.23	*150	25	90	89.10	*180	30	100	243.94	*200	30	123	396.69
90	924.9	909.76	*150	25	90	98.71	*180	30	100	271.79	*200	30	123	442.67
95	975.2	960.28	*150	25	90	108.81	*180	30	100	301.08	*200	30	123	491.02
100	1026.0	1010.80	*150	25	90	119.56	*180	30	100	332.22	*200	30	123	542.43
114	1167.4	1152.26	*150	25	90	152.32	*180	30	100	427.17	*200	30	126	699.86

Sprockets
European Standard Series

1"1/4 × 3/4"

PLATEWHEELS 1"1/4 × 3/4" For Chain Acc. to DIN 8187 ISO/R 606 20B-1-2-3

Z	d _e	d _p	S		D		T	
			D ₁	W	D ₂	W	D ₃	W
8	98.1	82.96	16	0.60	20	1.28	20	2.02
9	108.0	92.84	16	0.76	20	1.74	20	2.79
10	117.9	102.74	16	0.95	20	2.28	20	3.77
11	127.8	112.68	16	1.25	20	2.89	20	4.53
12	137.8	122.68	20	1.48	20	3.56	20	5.64
13	147.8	132.65	20	1.75	20	4.31	20	7.23
14	157.8	142.68	20	2.04	20	5.12	20	8.20
15	167.9	152.72	20	2.36	20	6.00	20	9.65
16	177.9	162.75	20	2.70	25	6.78	25	11.07
17	187.9	172.78	20	3.06	25	7.80	25	12.75
18	198.0	182.85	20	3.43	25	8.89	25	14.54
19	208.1	192.91	20	3.85	25	10.05	25	16.45
20	218.1	202.98	20	4.29	25	11.27	25	18.47
21	228.2	213.04	25	4.72	25	12.56	25	20.62
22	238.3	223.11	25	5.09	25	13.93	25	22.87
23	248.3	233.17	25	5.60	25	15.36	25	25.24
24	258.4	243.23	25	6.18	25	16.86	25	27.72
25	268.5	253.33	25	6.67	25	18.43	25	30.32
26	278.6	263.40	25	7.21	25	20.07	25	33.03
27	288.6	273.49	25	7.81	25	21.17	25	35.86
28	298.7	283.56	25	8.53	25	23.56	25	38.80
29	308.8	293.65	25	9.07	25	25.39	25	42.30
30	318.9	303.75	25	9.73	25	27.30	25	45.11
31	329.0	313.85	25	10.42	25	29.29	30	48.62
32	339.1	323.91	25	11.30	25	31.34	30	51.65
33	349.2	334.01	25	11.87	25	33.69	30	55.46
34	359.3	344.10	25	12.97	25	35.66	30	58.71
35	369.4	354.20	25	13.71	25	37.70	30	62.83
36	379.5	364.30	25	14.47	30	40.27	30	66.31
37	389.5	374.39	25	15.24	30	42.93	30	70.70
38	399.6	384.49	25	16.04	30	45.19	30	74.41
39	409.7	394.59	25	16.86	30	48.63	30	79.17
40	419.8	404.69	25	17.70	30	50.46	30	83.12
41	429.9	414.77	30	18.56	30	52.92	30	88.20
42	440.0	424.86	30	19.45	30	55.44	40	92.40
43	450.1	434.96	30	20.35	30	59.38	40	96.69
44	460.2	445.06	30	21.27	30	62.07	40	101.07
45	470.3	455.17	30	22.22	30	64.83	40	105.56
46	480.4	465.25	30	23.71	30	67.64	40	112.73
47	490.5	475.35	30	24.72	30	70.51	40	117.52
48	500.6	485.45	30	25.74	30	73.45	40	122.41
49	510.7	495.55	30	26.79	30	76.44	40	127.40
50	520.8	505.65	30	27.86	30	80.41	40	132.49
51	530.9	515.75	30	28.96	30	83.56	40	139.26
52	541.0	525.85	30	30.07	30	86.77	40	144.61
53	551.1	535.95	30	31.20	30	90.04	40	150.06
54	561.2	546.05	30	32.35	30	93.37	40	155.61
55	571.3	556.15	30	33.53	30	97.86	40	161.26
56	581.4	566.25	30	35.11	30	101.35	40	168.91
57	591.5	576.35	30	36.34	30	104.90	40	174.83
58	601.6	586.45	30	37.59	30	109.73	40	180.86
59	611.7	596.56	30	39.29	30	113.45	40	186.98
60	621.8	606.66	30	40.60	30	117.23	40	193.20
62	642.0	626.86	30	43.28	30	124.97	40	208.28
64	662.2	647.07	30	46.05	30	132.95	40	221.59
65	672.3	657.17	30	47.98	30	137.04	40	228.40
66	682.4	667.27	30	49.43	30	142.76	40	235.31
68	702.6	687.48	30	52.40	30	151.33	40	249.45
70	722.8	707.68	30	55.46	30	160.16	40	265.47
72	743.1	727.89	30	58.62	30	171.14	40	285.24
75	773.3	758.20	30	63.48	30	185.34	40	305.54
76	783.5	768.32	30	66.57	30	190.26	40	313.65
80	823.9	808.71	30	73.61	30	210.38	40	350.64
85	874.4	859.23	30	82.91	30	239.54	40	394.94
90	924.9	909.76	30	92.76	30	268.01	40	441.88
95	975.2	960.28	30	103.13	30	297.95	40	491.25
100	1026.0	1010.80	30	114.15	30	333.35	40	543.76
114	1167.4	1152.26	30	147.78	40	431.56	40	703.97



PLATEWHEELS	mm
Tooth radius r _i	32
Radius width C	3.5
Tooth width B _i	18.5
Tooth width b _i	18.2
Tooth width B ₂	54.6
Tooth width B ₃	91
CHAIN	mm
Pitch	31.75
Internal width	19.56
Roller Φ	19.05

Sprockets
European Standard Series

1"1/2 × 1"

SPROCKETS 1"1/2 × 1" For Chain Acc. to DIN 8187 ISO/R 606 24B-1-2-3

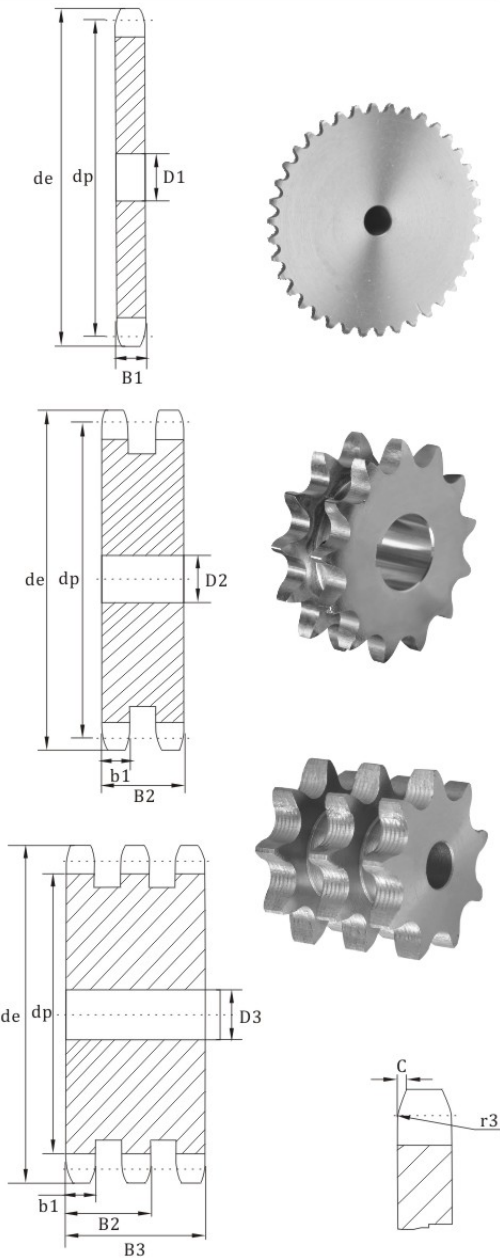
Z	d _e	d _p	SIMPLEX				DUPLEX				TRIPLEX			
			d _m	D ₁	A	W	d _m	D ₂	A	W	d _m	D ₃	A	W
8	115.0	99.55	58	20	45	138	58	25	95	270	58	25	140	400
9	126.4	111.40	70	20	45	190	70	25	95	379	70	25	140	562
10	138.0	123.29	80	20	45	247	80	25	95	501	80	25	140	745
11	150.0	135.21	90	25	50	327	90	25	100	662	90	25	150	973
12	162.0	147.22	102	25	50	409	102	25	100	828	102	25	150	1224
13	174.2	159.18	114	25	50	500	114	25	100	1013	114	25	150	1502
14	186.2	171.22	128	25	50	609	128	25	100	1224	128	25	150	1816
15	198.2	183.26	132	25	50	684	132	25	100	1408	132	25	150	2109
16	210.3	195.30	*136	25	55	820	*136	25	100	1588	*136	25	150	2425
17	222.3	207.34	*136	25	55	887	*136	25	100	1780	*140	25	150	2742
18	234.3	219.42	*136	25	55	959	*150	25	100	2108	*150	25	150	3212
19	246.5	231.49	*136	25	55	1040	*160	25	100	2326	*160	25	150	3574
20	258.6	243.57	*136	25	55	1137	*160	25	100	2557	*160	25	150	3957
21	270.6	255.65	*150	25	60	1328	*160	25	100	2801	*160	30	150	4298
22	282.7	267.73	*150	25	60	1413	*160	25	100	3059	*160	30	150	4725
23	294.8	279.80	*150	25	60	1502	*160	25	100	3329	*160	30	150	5174
24	306.8	291.88	*150	25	60	1594	*160	25	100	3613	*160	30	150	5644
25	319.0	304.00	*150	25	60	1691	*160	25	100	3909	*160	30	150	6137
26	331.0	316.08	*150	30	60	1791	*160	30	100	4219	*160	30	150	6652
27	343.2	328.19	*150	30	60	1895	*160	30	100	4541	*160	30	150	7188
28	355.2	340.27	*150	30	60	2083	*160	30	100	4877	*160	30	150	7746
29	367.3	352.38	*150	30	60	2198	*160	30	100	5226	*160	30	150	8400
30	379.5	364.50	*150	30	60	2319	*160	30	100	5588	*160	40	150	8933
31	391.6	376.62	*150	30	60	2442	*160	30	100	5919	*160	40	150	9611
32	403.7	388.69	*150	30	60	2569	*160	30	100	6307	*160	40	150	10182
33	415.8	400.81	*150	30	60	2700	*160	30	100	6708	*160	40	150	10917
34	427.8	412.93	*150	30	60	2833	*160	30	100	7121	*160	40	150	11525
35	440.0	425.04	*150	30	60	2973	*160	30	100	7549	*160	40	150	12325
36	452.0	437.16	*150	30	60	3114	*160	30	100	7989	*160	40	150	12976
37	464.2	449.27	*150	30	60	3262	*160	30	100	8519	*160	40	150	13655
38	476.2	461.39	*150	30	60	3410	*160	30	100	8940	*160	40	150	14532
39	488.5	473.50	*150	30	60	3566	*160	30	100	9383	*160	40	150	15263
40	500.6	485.62	*150	30	60	3724	*160	30	100	9830	*160	40	150	16210
41	512.6	497.72	*160	30	90	4301	*180	30	100	10377	*200	40	150	17184
42	524.7	509.83	*160	30	90	4466	*180	30	100	10846	*200	40	150	17966
43	536.8	521.95	*160	30	90	4635	*180	30	100	11325	*200	40	150	19010
44	549.0	534.07	*160	30	90	4809	*180	30	100	11819	*200	40	150	19846
45	561.2	546.19	*160	30	90	4987	*180	30	100	12323	*200	40	150	20701
46	573.3	558.30	*160	30	90	5167	*180	30	100	12835	*200	40	150	21843
47	585.4	570.42	*160	30	90	5352	*180	30	100	13358	*200	40	150	22739
48	597.4	582.54	*160	30	90	5538	*180	30	100	13886	*200	40	150	23645
49	609.5	594.66	*160	30	90	5730	*180	30	100	14430	*200	40	150	24577
50	621.7	606.78	*160	30	90	5927	*180	30	100	15589	*200	40	150	25536
51	633.8	618.90	*160	30	100	6249	*180	30	110	16348	*200	40	150	26505
52	646.0	631.01	*160	30	100	6454	*180	30	110	16952	*200	40	150	27502
53	658.0	643.13	*160	30	100	6659	*180	30	110	17558	*200	40	150	28661
54	670.2	655.28	*160	30	100	6872	*180	30	110	18185	*200	40	150	29907
55	682.3	667.40	*160	30	100	7086	*180	30	110	18818	*200	40	150	30964
56	694.4	679.51	*160	30	100	7305	*180	30	110	19463	*200	40	150	32440
57	706.5	691.63	*160	30	100	7527	*180	30	110	20634	*200	40	150	33548
58	718.6	703.74	*160	30	100	7754	*180	30	110	21318	*200	40	150	34675
59	730.7	715.86	*160	30	100	7984	*180	30	110	22014	*200	40	150	35821
60	742.8	727.97	*160	30	100	8217	*180	30	110	22721	*200	40	150	36986
62	767.2	752.24	*160	30	100	8700	*180	30	110	24182	*200	40	150	39393
64	791.3	776.48	*160	30	100	9193	*200	30	110	25822	*220	40	150	41978
65	803.4	788.59	*160	30	100	9446	*200	30	110	26587	*220	40	150	43239
66	815.6	800.71	*160	30	100	9705	*200	30	120	27584	*220	40	150	44528
68	839.8	824.98	*160	30	100	10221	*200	30	120	29145	*220	40	150	47143
70	864.2	849.21	*160	30	100	10774	*200	30	120	30819	*220	40	150	49857
72	888.4	873.48	*160	30	100	11330	*200	30	120	32499	*220	40	150	52625
75	924.8	909.83	*160	30	100	12194	*200	30	120	35112	*220	40	150	56931
76	936.9	921.98	*160	30	100	12489	*200	30	120	36004	*220	40	150	59121
80	985.4	970.44	*160	30	100	13709	*200	30	120	39694	*220	40	150	65277
85	1046.0	1031.10	*160	30	100	15320	*200	30	120	44565	*220	40	150	73402
90	1167.3	1152.33	*160	30	100	18831	*200	30	120	55184	*220	40	150	91112

Sprockets
European Standard Series

1"1/2 × 1"

PLATEWHEELS 1"1/2 × 1" For Chain Acc. to DIN 8187 ISO/R 606 24B-1-2-3

Z	d _e	d _p	S		D		T	
			D ₁	W	D ₂	W	D ₃	W
8	115.0	99.55	20	0.98	25	2.31	25	3.67
9	126.4	111.40	20	1.32	25	3.18	25	5.10
10	138.0	123.29	20	1.69	25	4.19	25	6.75
11	150.0	135.21	20	2.07	25	5.33	25	8.42
12	162.0	147.22	20	2.53	25	6.59	25	10.50
13	174.2	159.18	20	3.03	25	7.99	25	12.81
14	186.2	171.22	20	3.57	25	9.52	25	15.33
15	198.2	183.26	20	4.16	25	11.18	25	18.08
16	210.3	195.30	25	4.79	25	12.85	25	21.04
17	222.3	207.34	25	5.47	25	14.77	25	24.22
18	234.3	219.42	25	6.19	25	16.82	25	27.61
19	246.5	231.49	25	6.95	25	19.00	25	31.23
20	258.6	243.57	25	7.76	25	21.31	25	35.06
21	270.6	255.65	25	8.57	25	23.75	30	38.60
22	282.7	267.73	25	9.46	25	26.33	30	42.87
23	294.8	279.80	25	10.40	25	29.03	30	47.36
24	306.8	291.88	25	11.38	25	31.86	30	52.07
25	319.0	304.00	25	12.41	25	34.83	30	56.99
26	331.0	316.08	30	13.47	30	37.93	30	62.14
27	343.2	328.19	30	14.59	30	41.86	30	67.50
28	355.2	340.27	30	15.74	30	44.84	30	73.08
29	367.3	352.38	30	16.94	30	47.95	30	79.11
30	379.5	364.50	30	18.91	30	51.18	40	84.45
31	391.6	376.62	30	19.47	30	55.18	40	92.20
32	403.7	388.69	30	20.80	30	58.64	40	97.98
33	415.8	400.81	30	22.18	30	62.98	40	105.29
34	427.8	412.93	30	23.60	30	66.67	40	111.46
35	440.0	425.04	30	25.06	30	71.35	40	117.91
36	452.0	437.16	30	26.60	30	75.75	40	125.87
37	464.2	449.27	30	28.12	30	80.28	40	132.75
38	476.2	461.39	30	29.71	30	84.95	40	139.70
39	488.5	473.50	30	31.58	30	90.11	40	150.56
40	500.6	485.62	30	33.16	30	94.63	40	158.11
41	512.6	497.72	30	34.77	40	99.22	40	167.73
42	524.7	509.83	30	36.43	40	103.96	40	175.74
43	536.8	521.95	30	38.56	40	110.09	40	183.94
44	549.0	534.07	30	40.34	40	115.15	40	192.40
45	561.2	546.19	30	42.15	40	120.32	40	201.04
46	573.3	558.30	30	44.47	40	127.03	40	212.24
47	585.4	570.42	30	46.37	40	132.45	40	221.30
48	597.4	582.54	30	48.29	40	137.93	40	230.46
49	609.5	594.66	30	50.27	40	145.23	40	242.65
50	621.7	606.78	30	52.30	40	151.10	40	252.46
51	633.8	618.90	30	54.36	40	158.82	40	265.37
52	646.0	631.01	30	56.47	40	165.00	40	275.68
53	658.0	643.13	30	58.59	40	171.18	40	286.02
54	670.2	655.28	30	61.45	40	177.59	40	296.72
55	682.3	667.40	30	63.69	40	184.06	40	307.53
56	694.4	679.51	30	65.96	40	190.65	40	318.54
57	706.5	691.63	30	68.28	40	199.57	40	329.74
58	718.6	703.74	30	70.64	40	206.46	40	344.96
59	730.7	715.86	30	73.04	40	213.47	40	356.67
60	742.8	727.97	30	76.30	40	220.60	40	368.58
62	767.2	752.24	40	81.40	40	237.94	40	397.57
64	791.3	776.48	40	86.59	40	253.13	40	422.94
65	803.4	788.59	40	89.26	40	260.93	40	435.97
66	815.6	800.71	40	91.99	40	271.87	40	449.31
68	839.8	824.98	40	97.44	40	287.97	40	475.92
70	864.2	849.21	40	103.28	40	305.23	40	504.45
72	888.4	873.48	40	110.32	40	322.57	40	533.10
75	924.8	909.83	40	119.54	40	349.54	40	577.68
76	936.9	921.98	40	122.69	40	358.75	40	592.90
80	985.4	970.44	40	135.72	40	405.48	40	663.08
85	1046.0	1031.10	40	152.93	40	456.89	40	747.14
95	1167.3	1152.33	40	190.46	40	569.00	40	930.47



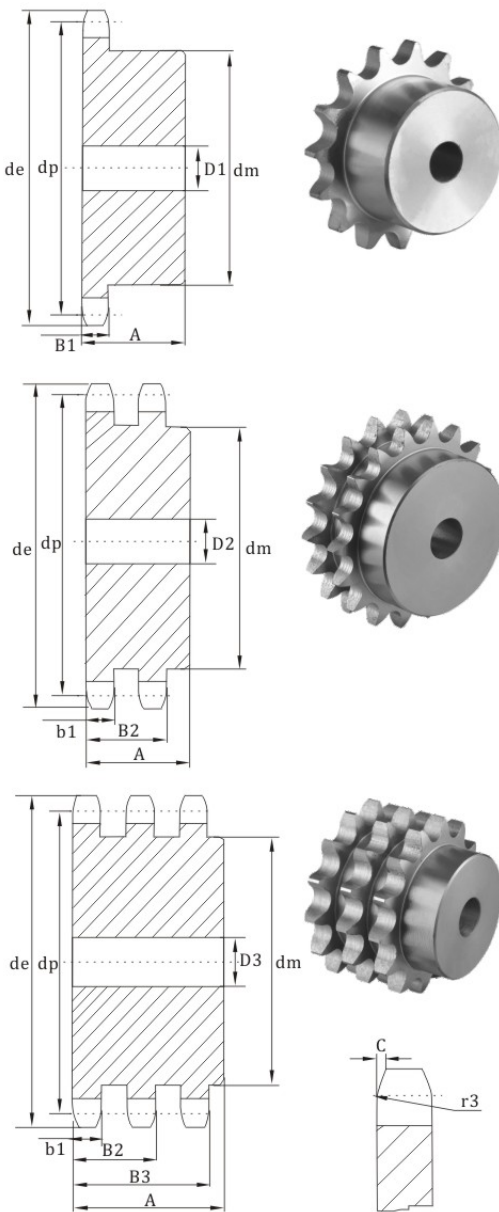
PLATEWHEELS	mm
Tooth radius r _s	38
Radius width C	4
Tooth width B ₁	24.1
Tooth width b ₁	23.6
Tooth width B ₂	72
Tooth width B ₃	120.3
CHAIN	mm
Pitch	38.1
Internal width	25.4
Roller Φ	25.4

Sprockets
European Standard Series

1"3/4 × 1"1/4

SPROCKETS 1"3/4 × 1"1/4 For Chain Acc. to DIN 8187 ISO/R 606 28B-1-2-3

Z	d _e	d _p	SIMPLEX				DUPLEX				TRIPLEX			
			d _m	D ₁	A	W	d _m	D ₂	A	W	d _m	D ₃	A	W
8	132.0	116.15	74	25	70	2.86	74	25	120	4.75	74	30	180	7.04
9	148.4	129.96	88	25	70	4.00	88	25	120	6.66	88	30	180	9.89
10	162.3	143.85	100	25	70	5.18	100	25	120	8.79	100	30	180	13.10
11	176.3	157.77	112	25	70	6.51	112	25	120	11.19	112	30	180	16.73
12	189.5	171.74	125	25	70	8.04	125	25	120	13.91	125	30	180	20.84
13	204.2	185.75	*125	25	70	8.88	*125	25	120	16.25	*125	30	180	24.70
14	218.2	199.76	*125	25	70	9.79	*125	25	120	18.81	*125	30	180	28.93
15	232.3	213.79	*125	25	70	10.77	*145	25	120	22.64	*145	30	180	34.58
16	246.3	227.84	*160	30	75	14.96	*160	30	120	26.52	*160	30	180	40.44
17	260.0	241.91	*160	30	75	16.09	*160	30	120	29.74	*160	30	180	45.77
18	274.0	255.98	*160	30	75	17.28	*160	30	120	33.17	*160	30	180	51.76
19	289.0	270.06	*160	30	75	18.51	*180	30	120	38.14	*180	30	180	58.07
20	303.0	284.15	*160	30	75	19.75	*180	30	120	42.02	*180	30	180	64.49
21	317.0	298.24	*160	30	75	21.31	*180	30	120	49.10	*180	30	180	71.28
22	331.0	312.34	*160	30	75	22.87	*180	30	120	50.40	*180	30	180	80.16
23	345.0	326.44	*160	30	75	24.36	*180	30	120	54.92	*180	30	180	85.94
24	359.0	340.55	*160	30	75	26.00	*180	30	120	59.51	*180	30	180	94.64
25	373.0	354.66	*160	30	75	27.70	*180	30	120	64.71	*180	40	180	112.07
26	387.0	368.77	*160	30	75	29.48	*180	30	120	69.23	*180	40	180	115.26
27	401.4	382.88	*160	30	75	31.86	*180	30	120	75.09	*180	40	180	123.49
28	416.0	397.00	*160	30	75	33.77	*180	30	120	80.22	*180	40	180	132.12
29	430.0	411.12	*160	30	75	35.66	*180	30	120	86.50	*180	40	180	140.69
30	444.0	425.24	*160	30	75	37.62	*180	30	120	91.83	*180	40	180	148.79
31	458.0	439.37	*180	30	75	41.13	*180	30	120	98.66	*180	40	180	160.84
32	472.0	453.49	*180	30	75	43.21	*180	30	120	104.41	*180	40	180	170.37
33	486.0	467.62	*180	30	75	45.96	*180	30	120	111.81	*180	40	180	180.19
34	500.0	481.75	*180	30	75	48.19	*180	30	120	117.98	*180	40	180	190.29
35	514.0	495.88	*180	30	75	50.48	*200	30	120	127.18	*200	40	180	210.04
36	529.0	510.01	*180	30	75	53.01	*200	30	120	136.03	*180	40	180	220.72
37	543.0	524.14	*180	30	75	56.17	*200	30	120	142.91	*180	40	180	232.14
38	557.0	538.27	*180	30	75	58.69	*200	30	120	149.97	*200	40	180	245.08
39	571.0	552.40	*180	30	75	61.27	*200	30	120	157.21	*200	40	180	257.08
40	585.0	566.54	*180	30	75	63.92	*200	30	120	164.62	*200	40	180	272.89
45	656.0	637.22	*180	30	90	80.78	200	30	120	204.98	200	40	180	340.68
50	726.0	707.91	*180	30	90	96.58	200	30	120	249.25	200	40	180	425.69
57	825.0	806.89	*180	30	100	123.27	200	30	120	319.47	200	40	180	546.64
60	869.0	849.32	*180	30	100	135.43	200	30	130	355.58	200	40	190	607.46
76	1095.0	1075.6	*180	30	100	207.74	200	30	130	558.27	200	40	190	956.52



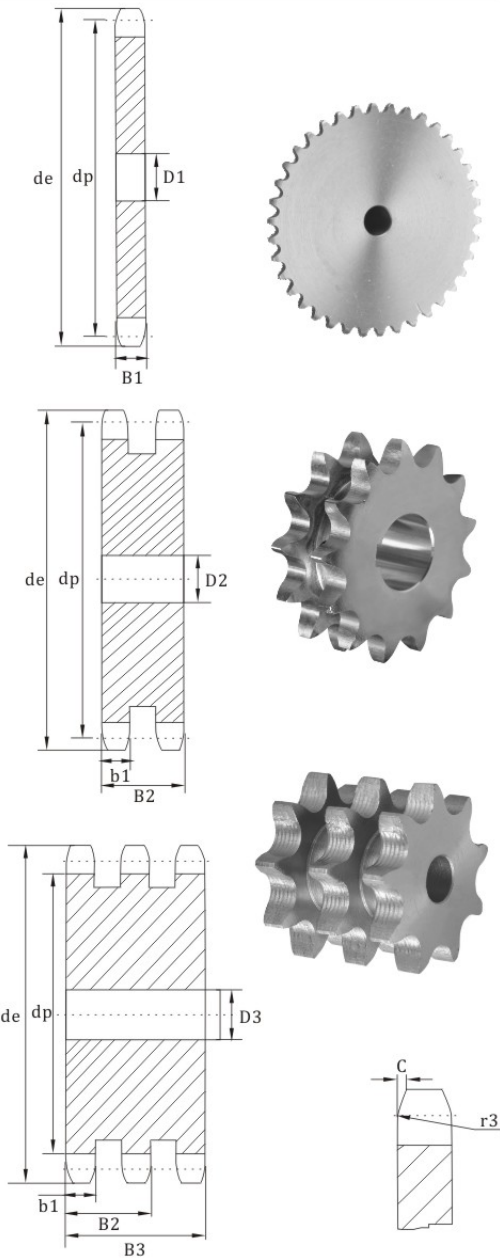
SPROCKETS	mm
Tooth radius r _s	44
Radius width C	5
Tooth width B ₁	29.4
Tooth width b ₁	28.8
Tooth width B ₂	88.4
Tooth width B ₃	148
CHAIN	mm
Pitch	44.45
Internal width	30.99
Roller Φ	27.94
Material: C 45	*Weld- on hub

Sprockets
European Standard Series

1"3/4 × 1"1/4

PLATEWHEELS 1"3/4 × 1"1/4 For Chain Acc. to DIN 8187 ISO/R 606 28B-1-2-3

Z	d _e	d _p	S		D		T	
			D ₁	W	D ₂	W	D ₃	W
8	132.0	116.15	20	1.71	25	8.16	25	6.39
9	148.4	129.96	20	2.26	25	9.37	25	8.80
10	162.3	143.85	20	2.88	25	12.03	25	11.56
11	176.3	157.77	25	3.53	25	13.56	30	14.44
12	189.5	171.74	25	4.29	25	16.05	30	17.93
13	204.2	185.75	25	5.12	25	19.81	30	21.79
14	218.2	199.76	25	6.03	25	21.74	30	26.02
15	232.3	213.79	25	7.01	25	23.55	30	30.61
16	246.3	227.84	30	8.02	30	26.47	30	35.57
17	260.0	241.91	30	9.14	30	29.50	30	40.89
18	274.0	255.98	30	10.34	30	32.76	30	46.58
19	289.0	270.06	30	11.61	30	36.44	30	52.64
20	303.0	284.15	30	12.95	30	40.06	30	59.06
21	317.0	298.24	30	14.37	30	43.85	30	65.20
22	331.0	312.34	30	15.86	30	47.81	30	73.03
23	345.0	326.44	30	17.42	30	51.94	30	79.34
24	359.0	340.55	30	19.05	30	56.24	30	88.27
25	373.0	354.66	30	20.76	30	60.71	40	95.29
26	387.0	368.77	30	22.54	30	65.35	40	105.31
27	401.4	382.88	30	24.39	30	70.30	40	113.29
28	416.0	397.00	30	26.32	30	75.51	40	121.68
29	430.0	411.12	30	28.51	30	80.68	40	131.70
30	444.0	425.24	30	30.40	30	86.02	40	142.21
31	458.0	439.37	30	32.34	30	91.53	40	153.24
32	472.0	453.49	30	34.35	30	97.21	40	162.75
33	486.0	467.62	30	37.28	30	103.06	40	172.55
34	500.0	481.75	30	39.45	30	109.09	40	182.63
35	514.0	495.88	30	41.69	30	115.28	40	193.00
36	529.0	510.01	30	44.16	30	122.11	40	214.65
37	543.0	524.14	30	47.07	30	128.66	40	226.17
38	557.0	538.27	30	49.53	30	135.37	40	237.98
39	571.0	552.40	30	53.23	30	142.27	40	250.09
40	585.0	566.54	30	55.87	30	149.33	40	262.51
45	656.0	637.22	30	70.26	30	187.77	40	337.95
50	726.0	707.91	30	87.01	30	229.99	40	418.74
57	825.0	806.89	40	113.56	40	296.99	40	540.72
60	869.0	849.32	40	126.08	40	329.51	40	599.94
76	1095.0	1075.6	40	203.89	40	570.32	40	952.56



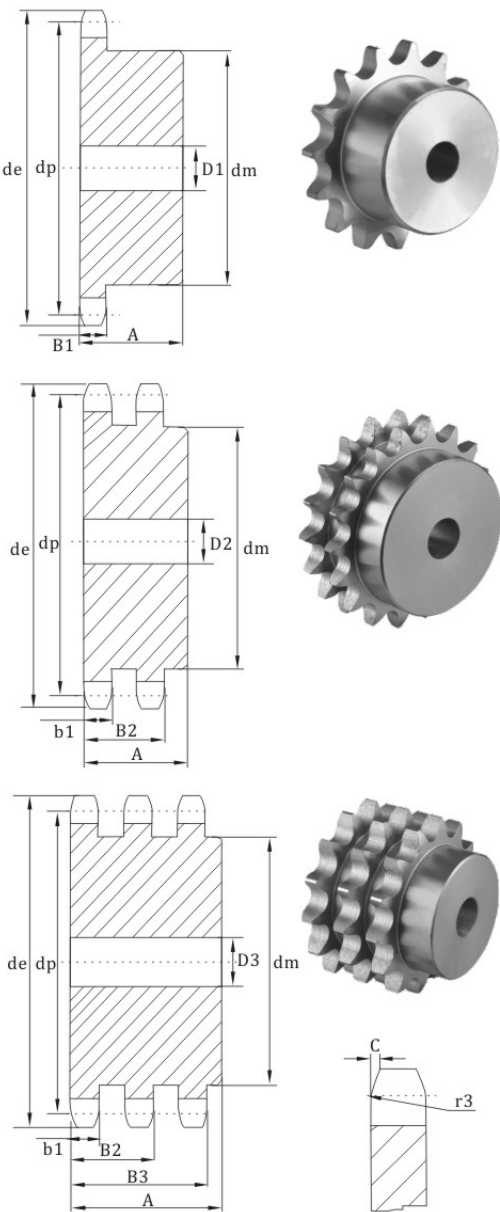
PLATEWHEELS	mm
Tooth radius r _i	44
Radius width C	5
Tooth width B _i	29.4
Tooth width b _i	28.8
Tooth width B _e	88.4
Tooth width B _s	148
CHAIN	mm
Pitch	44.45
Internal width	30.99
Roller Φ	27.94
Material:C 45	

Sprockets
European Standard Series

2" × 1"1/4

SPROCKETS 2" × 1"1/4 For Chain Acc. to DIN 8187 ISO/R 606 32B-1-2-3

Z	d _e	d _p	SIMPLEX				DUPLEX				TRIPLEX			
			d _m	D ₁	A	W	d _m	D ₂	A	W	d _m	D ₃	A	W
8	153.2	132.69	82	25	80	420	82	30	120	665	82	30	180	990
9	169.0	148.54	88	25	80	578	88	30	120	914	88	30	180	1365
10	185.0	164.44	104	25	80	760	104	30	120	1201	104	30	180	1797
11	200.8	180.34	120	30	80	926	120	30	120	1475	120	30	180	2222
12	216.8	196.29	*133	30	80	1091	*133	30	120	1795	*133	30	180	2723
13	232.8	212.29	*145	30	80	1305	*145	30	120	2168	*145	30	180	3298
14	248.8	228.29	*145	30	80	1425	*145	30	120	2503	*145	30	180	3850
15	264.8	244.30	*145	30	80	1553	*160	30	120	2930	*160	30	180	4504
16	280.9	260.40	*160	30	90	1987	*160	30	120	3321	*160	30	180	5150
17	296.9	276.40	*160	30	90	2135	*180	30	120	3876	*180	30	180	6145
18	313.0	292.55	*160	30	90	2294	*180	30	120	4324	*180	30	180	6885
19	329.1	308.66	*160	30	90	2453	*200	30	120	4952	*200	30	180	7673
20	345.2	324.71	*180	30	90	2850	*200	30	120	5456	*200	30	180	8507
21	361.3	340.82	*180	30	90	3036	*200	30	120	5987	*200	40	180	9389
22	377.5	356.98	*180	30	90	3280	*200	30	120	6547	*200	40	180	10415
23	393.6	373.08	*180	30	90	3479	*200	30	120	7135	*200	40	180	11254
24	409.7	389.18	*180	30	90	3687	*200	30	120	7752	*200	40	180	12479
25	425.8	405.33	*180	30	90	3903	*200	30	120	8366	*200	40	180	13413
26	441.9	421.44	*180	30	90	4127	*200	30	120	9069	*200	40	180	14585
27	458.1	437.59	*180	30	90	4360	*200	30	120	9781	*200	40	180	15611
28	474.2	453.69	*180	30	90	4601	*200	30	120	10426	*200	40	180	16898
29	490.4	469.90	*180	30	90	4851	*200	30	120	11253	*200	40	180	18012
30	506.5	486.00	*180	30	90	5108	*200	30	120	11952	*200	40	180	19417
32	538.8	518.26	*180	30	90	5648	*200	30	120	13791	*200	40	180	22150
35	589.5	566.72	*180	30	90	6563	*200	30	120	16350	*200	40	180	26682
38	635.5	615.14	*180	30	90	7463	*200	30	120	19371	*200	40	180	31664
40	670.3	647.49	*180	30	90	8188	*200	30	120	21455	*200	40	180	36013
45	751.0	728.25	*180	30	100	10175	*200	30	120	27057	*200	40	180	44936
50	831.8	809.04	*180	30	100	12213	*200	30	120	32988	*200	40	180	54877
57	945.0	922.16	*180	30	100	15416	*220	30	120	42447	*220	40	180	70647
60	993.4	970.65	*200	30	110	17355	*220	30	130	47044	*220	40	180	77929
76	1252.0	1229.30	*200	30	110	26588	*220	30	130	73911	*238	40	180	123108



SPROCKETS	mm
Tooth radius r _i	51
Radius width C	5
Tooth width B _i	29.4
Tooth width b _i	28.8
Tooth width B _e	87.4
Tooth width B _s	146
CHAIN	mm
Pitch	50.8
Internal width	30.99
Roller Φ	29.21
Material:C 45 *Weld- on hub	

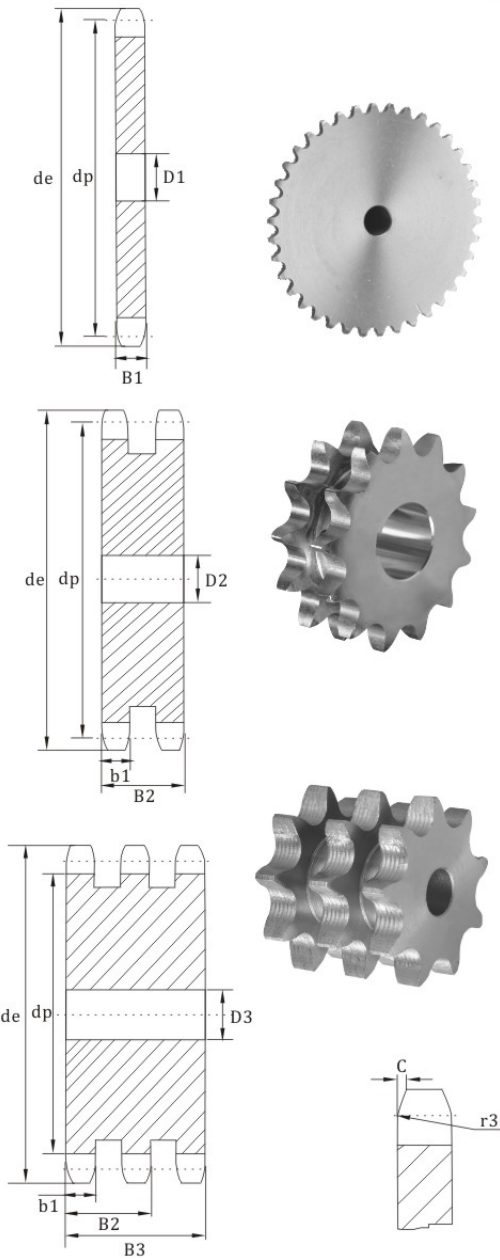
Sprockets
European Standard Series

2" × 1"1/4

Finished Bore Sprockets
European Standard Series

PLATEWHEELS 2" × 1"1/4 For Chain Acc. to DIN 8187 ISO/R 606 32B-1-2-3

Z	d _e	d _p	S		D		T	
			D ₁	W	D ₂	W	D ₃	W
8	153.2	132.69	25	2.37	25	10.13	25	8.83
9	169.0	148.54	25	3.19	25	12.32	25	11.99
10	185.0	164.44	25	3.91	25	14.76	25	15.63
11	200.8	180.34	30	4.77	30	17.39	30	19.20
12	216.8	196.29	30	5.77	30	20.28	30	23.78
13	232.8	212.29	30	6.57	30	23.38	30	28.83
14	248.8	228.29	30	7.86	30	26.70	30	34.35
15	264.8	244.30	30	8.90	30	30.25	30	40.34
16	280.9	260.40	30	10.02	30	34.04	30	46.47
17	296.9	276.40	30	11.83	30	38.03	30	53.40
18	313.0	292.55	30	13.69	30	42.26	30	60.80
19	329.1	308.66	30	15.36	30	46.72	30	68.68
20	345.2	324.71	30	16.99	30	51.41	30	77.02
21	361.3	340.82	30	18.51	30	56.31	40	85.84
22	377.5	356.98	30	20.17	30	61.48	40	96.28
23	393.6	373.08	30	21.89	30	66.83	40	104.67
24	409.7	389.18	30	23.80	30	72.41	40	116.43
25	425.8	405.33	30	26.31	30	78.22	40	125.76
26	441.9	421.44	30	28.34	30	84.24	40	137.21
27	458.1	437.59	30	30.45	30	90.53	40	147.45
28	474.2	453.69	30	34.43	30	97.01	40	162.05
29	490.4	469.90	30	36.77	30	103.75	40	173.31
30	506.5	486.00	30	39.18	30	110.67	40	184.88
32	538.8	518.26	30	45.58	30	125.24	40	217.06
35	589.5	566.72	30	54.34	30	149.92	40	259.83
38	635.5	615.14	30	63.08	30	174.23	40	309.23
40	670.3	647.49	40	72.16	40	193.83	40	344.03
45	751.0	728.25	40	91.87	40	243.31	40	431.85
50	831.8	809.04	40	113.96	40	298.49	40	529.78
57	945.0	922.16	40	148.86	40	385.26	40	683.79
60	993.4	970.65	40	165.24	40	425.73	40	755.62
76	1252.0	1229.30	40	267.00	40	676.23	40	1200.23



PLSYREHRRLS	mm
Tooth radius r _i	51
Radius width C	5
Tooth width B _i	29.4
Tooth width b _i	28.8
Tooth width B _e	87.4
Tooth width B _s	146
CHAIN	mm
Pitch	50.8
Internal width	30.99
Roller Φ	29.21
Material:C 45	

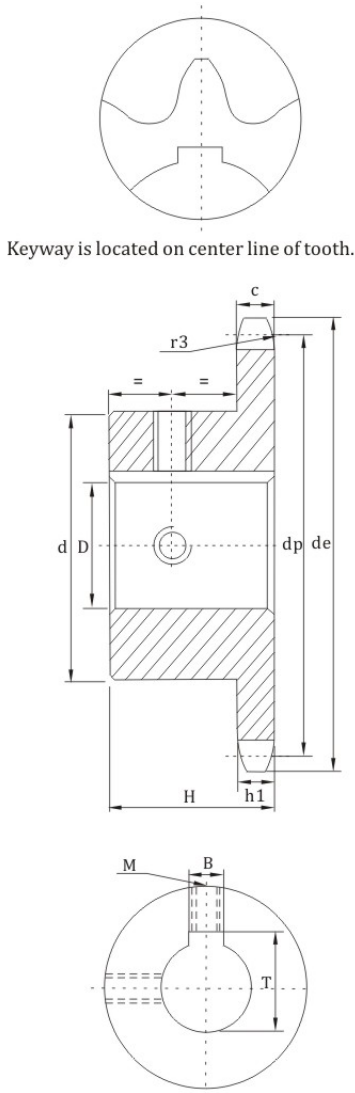
For Roller Chains DIN 8187-ISO/R 606

All sprockets are finished with induction hardened teeth. This treatment gives a longer lasting life to sprockets. And with finished bore, keyway and 2 grub Screws, this eliminates further modification by customer and can be fitted immediately.



Bore-Keyway-Screws

D (H7)	B (H9)	T	M
10	4	D+1.8 (+0.1/0)	M3
11	4	D+1.8 (+0.1/0)	M3
12	4	D+1.8 (+0.1/0)	M3
14	5	D+2.3 (+0.1/0)	M4
16	5	D+2.3 (+0.1/0)	M4
18	6	D+2.8 (+0.1/0)	M5
19	6	D+2.8 (+0.1/0)	M5
20	6	D+2.8 (+0.1/0)	M5
22	6	D+2.8 (+0.1/0)	M5
24	8	D+3.3 (+0.2/0)	M6
25	8	D+3.3 (+0.2/0)	M6
28	8	D+3.3 (+0.2/0)	M6
30	8	D+3.3 (+0.2/0)	M6
32	10	D+3.3 (+0.2/0)	M8
35	10	D+3.3 (+0.2/0)	M8
38	10	D+3.3 (+0.2/0)	M8
40	12	D+3.3 (+0.2/0)	M10
42	12	D+3.3 (+0.2/0)	M10
45	14	D+3.8 (+0.2/0)	M12
48	14	D+3.8 (+0.2/0)	M12
50	14	D+3.8 (+0.2/0)	M12
60	18	D+4.4 (+0.2/0)	M12
65	18	D+4.4 (+0.2/0)	M12
70	20	D+4.9 (+0.2/0)	M12



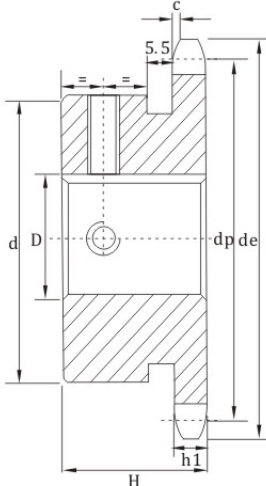
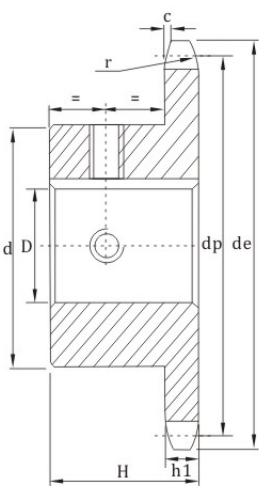
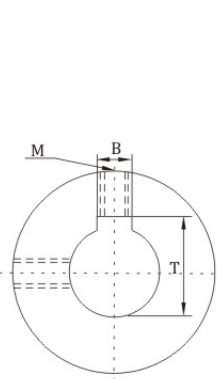
Finished Bore Sprockets
European Standard Series

3/8" × 7/32"

SPROCKETS 3/8" × 7/32"

06B-1

SPROCKETS	mm
Tooth radius r	10
Radius width C	1
Tooth width h _t	5.3
CHAIN	mm
Pitch	9.525
Internal width	5.72
Roller Φ	6.35



06B-1 9.525 × 5.72mm

Type(*)

Material:C45

Z	d _e	d _p	D	H	d	Z	d _e	d _p	D	H	d	Z	d _e	d _p	D	H	d
10	34	30.80	10	22	24	16	52.3	48.82	22	16	37	20	64.3	60.89	24	28	46
			11		26				24		42				25		
			12		29				12						16		
			14		29				12						18		
11	37	33.8	10	25	24	17	55.3	51.83	14	28	40	21	68	63.91	19	28	48
			12		26				16						20		
			14		29*				18						22		
			16		31*				19						24		
12	40	36.8	10	25	25	17	55.3	51.83	20	28	42	22	71	66.93	25	28	50
			12		26				22						16		
			14		29*				24						18		
			16		31*				25						19		
13	43	39.8	10	25	28	18	58.3	54.85	12	28	43	22	71	66.93	20	28	50
			12		29				14						22		
			14		31				16						24		
			16		35*				18						25		
14	46.3	42.8	12	25	31	18	58.3	54.85	20	28	43	23	73.5	69.95	16	28	52
			14		35				22						18		
			16						24						22		
			18						25						24		
15	49.3	45.81	12	25	34	19	61.3	57.87	12	28	45	24	77	72.97	16	28	54
			14						14						18		
			16						16						20		
			18						18						22		
			20						20						24		
			22						22						25		
			24						24						25		
			25		42*				25						25		
16	52.3	48.82	12	28	37	20	64.3	60.89	12	28	46	25	80	76	16	28	57
			14						14						18		
			16						16						20		
			18						18						22		
			19						19						24		
			20						20						25		

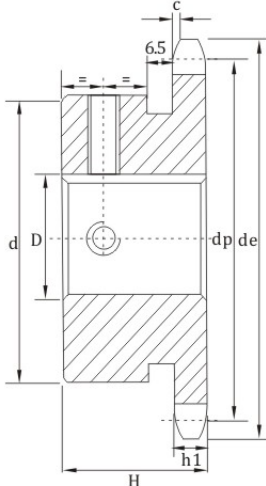
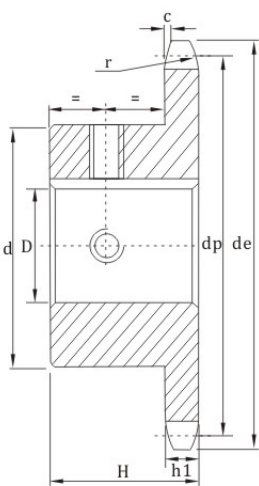
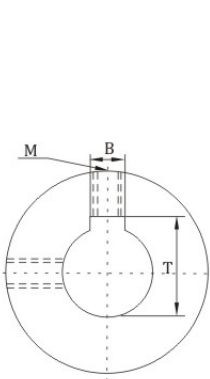
Finished Bore Sprockets
European Standard Series

1/2" × 5/16"

SPROCKETS 1/2" × 5/16"

08B-1

SPROCKETS	mm
Tooth radius r	13
Radius width C	1.3
Tooth width h _t	7.2
CHAIN	mm
Pitch	12.7
Internal width	7.75
Roller Φ	8.51



08B-1 12.7 × 7.75mm

Type(*)

Material:C45

Z	d _e	d _p	D	H	d	Z	d _e	d _p	D	H	d	Z	d _e	d _p	D	H	d	Z	d _e	d _p	D	H	d																				
10	45.2	41.1	12	25	26				18	28	45	18	77.8	73.14	38	28	56				20	28	70																				
			14		29				19						16		22																										
			16		31				20						18		24																										
			12		29				22						19		25																										
11	48.7	45.07	14	25	31	15	65.5	61.09	24	28		19	81.7	77.16	20	28	60	22	93.8	89.24	28	28	70																				
			16		31				25						22		30																										
			18		34				28						24		32																										
			19		35				30						47		25				35																						
12	53	49.07	12	28	33				16	28	50				28	28	60	23	98.2	93.27	19	28	70																				
			14						18						30		19				20																						
			16						18						32		20				22																						
			18						19						35		22				24																						
			19		35				20		16				18		25				28			30	32	35	38	25	28	30	32	35	38	25	28	30	32	35	38				
			20		36				22		16				18		19				20			22	24	25	28	30	32	35	38	25	28	30	32	35	38	25	28	30	32	35	38
			22		38				24		16				18		19				20			22	24	25	28	30	32	35	38	25	28	30	32	35	38	25	28	30	32	35	38
			24		41*				25		16				18		19				20			22	24	25	28	30	32	35	38	25	28	30	32	35	38	25	28	30	32	35	38
25	42*		16	18	19	20	22	24	25	28	30	32	35	38	25	28	30	32	35	38	25	28	30	32	35	38																	
14	57.4	53.06	12	28	37				16	28	52	20	85.8	81.19	24	28	64	24	101.8	97.29	19	28	70																				
			14						18						30		20				22			24	25	28	30	32	35	38	25	28	30	32	35	38	25	28	30	32	35	38	
			16						18						19		20				22			24	25	28	30	32	35	38	25	28	30	32	35	38	25	28	30	32	35	38	
			18						19						20		22				24			25	28	30	32	35	38	25	28	30	32	35	38	25	28	30	32	35	38		
			19		37				22		16				18		19				20			22	24	25	28	30	32	35	38	25	28	30	32	35	38	25	28	30	32	35	38
			20		37				24		16				18		19				20			22	24	25	28	30	32	35	38	25	28	30	32	35	38	25	28	30	32	35	38
			22		42				25		16				18		19				20			22	24	25	28	30	32	35	38	25	28	30	32	35	38	25	28	30	32	35	38
			24		45*						16				18		19				20			22	24	25	28	30	32	35	38	25	28	30	32	35	38	25	28	30	32	35	38
15	61.8	57.07	12	28	41				16	28	56	21	89.7	85.22	24	28	68	25	105.8	101.33	19	28	70																				
			14						18						20		22				24			25	28	30	32	35	38	25	28	30	32	35	38	25	28	30	32	35	38		
			16						18						19		20				22			24	25	28	30	32	35	38	25	28	30	32	35	38	25	28	30	32	35	38	
			18						19						20		22				24			25	28	30	32	35	38	25	28	30	32	35	38	25	28	30	32	35	38		
			19		41				22		16				18		19				20			22	24	25	28	30	32	35	38	25	28	30	32	35	38	25	28	30	32	35	38
			20		41				24		16				18		19				20			22	24	25	28	30	32	35	38	25	28	30	32	35	38	25	28	30	32	35	38
			22		41				26		16				18		19				20			22	24	25	28	30	32	35	38	25	28	30	32	35	38	25	28	30	32	35	38
			24		45						16				18		19				20			22	24	25	28	30	32	35	38	25	28	30	32	35	38	25	28	30	32	35	38

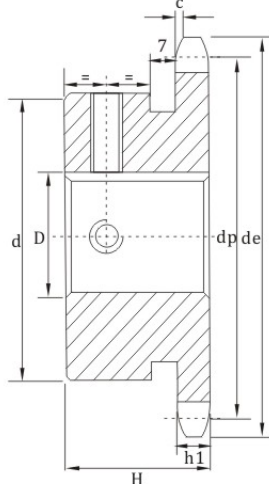
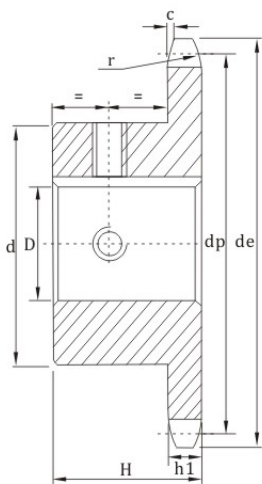
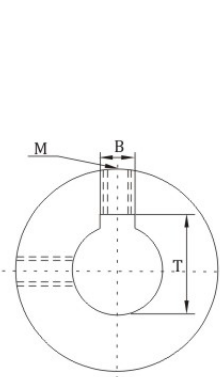
Finished Bore Sprockets
European Standard Series

5/8" × 3/8"

SPROCKETS 5/8" × 3/8"

10B-1

SPROCKETS	mm
Tooth radius r	16
Radius width C	1.6
Tooth width h _t	9.1
CHAIN	mm
Pitch	15.875
Internal width	9.65
Roller Φ	10.16



10B-1 15.875 × 9.65mm

Type(*)

Material:C45

Z	d _e	d _p	D	H	d	Z	d _e	d _p	D	H	d	Z	d _e	d _p	D	H	d	Z	d _e	d _p	D	H	d
10	57.5	51.37	16	25	35	15	83	76.36	20	30	57	19	103.3	96.45	22	118	111.55	35	22	118	111.55	30	80
			19						22						24			38					
			20						24						25			40					
			24						25						28			42					
			42*						30						30			19					
11	63	56.34	16	30	37	19	103.3	96.45	28	30	70	23	123.4	116.58	32	123.4	116.58	20	24	123.4	116.58	30	80
			18						30						35			19					
			19						32						38			20					
			20						35						40			22					
			24						19						24			25					
12	68	61.34	16	30	42	16	88	81.37	20	30	60	20	108.4	101.49	22	108.4	101.49	28	20	108.4	101.49	30	75
			18						25						24			30					
			19						28						32			32					
			20						30						35			38					
			22						32						40			42					
13	73	66.32	16	30	47	17	93	86.39	24	30	60	24	128.3	121.62	28	128.3	121.62	30	24	128.3	121.62	30	80
			18						25						32			32					
			19						28						35			35					
			20						30						38			40					
			22						32						42			42					
14	78	71.34	16	30	52	18	98.3	91.42	24	30	70	25	134	126.66	28	134	126.66	30	25	134	126.66	30	80
			18						25						32			32					
			19						28						35			35					
			20						30						38			40					
			22						32						42			42					
15	83	76.36	16	30	57	19	103.3	96.45	24	30	70	22	118	111.55	28	118	111.55	30	22	118	111.55	30	80
			18						25						32			32					
			19						28						35			35					
			20						30						38			40					
			22						32						42			42					

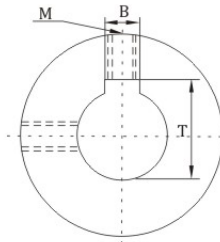
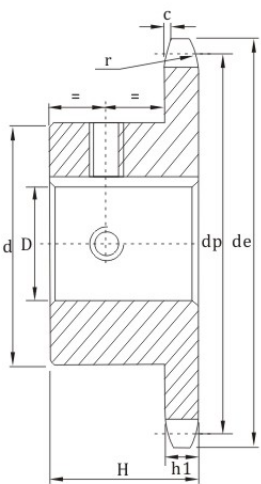
Finished Bore Sprockets
European Standard Series

3/4" × 7/16"

SPROCKETS 3/4" × 7/16"

12B-1

SPROCKETS	mm
Tooth radius r	19
Radius width C	2
Tooth width h _t	11.1
CHAIN	mm
Pitch	19.05
Internal width	11.68
Roller Φ	12.07



12B-1 19.05 × 11.68mm

Material:C45

Z	d _e	d _p	D	H	d	Z	d _e	d _p	D	H	d	Z	d _e	d _p	D	H	d	Z	d _e	d _p	D	H	d																
10	69	61.64	19	30	42	14	93.6	85.61	32	35	64	18	118	109.71	40	35	80	22	141.8	133.86	38	40	90																
			20						35						40																								
			24						38						25						28			30	32	35													
			25						40						28						30			32	35														
			28		45				19		20				22		24				25			28	30	32	35	38	40	42	45	48	50						
			30		47				20		22				24		25				28			30	32	35	38	40	42	45	48	50							
			32		49				22		24				25		28				30			32	35	38	40	42	45	48	50								
11	75	67.61	19	35	48	15	99.8	91.63	24	35	70	19	124.2	115.75	38	35	80	23	149	139.9	25	28	30	32	35	38	40	90											
			20						25						40						42								45	48	50	53							
			24						28						30						32								35	38	40	42	45	48	50	53			
			25						28						30						32								35	38	40	42	45	48	50	53			
			28		49				24		25				28		30				32								35	38	40	42	45	48	50	53			
			30		51				25		28				30		32				35								38	40	42	45	48	50	53				
			32		53				28		30				32		35				38								40	42	45	48	50	53					
12	81.5	73.6	19	35	52	16	105.5	97.65	24	35	75	20	129.7	121.78	38	35	80	24	153.9	145.94	25	28	30	32	35	38	40	90											
			20						20						40						42								45	48	50	53							
			22						22						42						45								48	50	53								
			24						24						44						47								50	53									
			25		25				45		48				51		54				57								60	63	66	69	72	75	78	81	84	87	90
			28		28				48		51				54		57				60								63	66	69	72	75	78	81	84	87	90	
			30		30				50		53				56		59				62								65	68	71	74	77	80	83	86	89	92	
32	32	52	55	58	61	64	67	70	73	76	79	82	85	88	91																								
13	87.5	79.59	19	35	58	17	111.5	103.67	28	35	80	21	136	127.82	38	35	90	25	160	152	38	40	90																
			20						25						40						42			45	48	50	53												
			22						28						42						45			48	51	54	57	60	63	66	69	72	75	78	81	84	87	90	
			24						30						44						47			50	53	56	59	62	65	68	71	74	77	80	83	86	89	92	
			25		32				46		49				52		55				58			61	64	67	70	73	76	79	82	85	88	91	94	97	100		
			28		35				50		53				56		59				62			65	68	71	74	77	80	83	86	89	92						
			30		38				54		57				60		63				66			69	72	75	78	81	84	87	90								
14	93.6	85.61	19	35	64	18	118	109.71	24	35	80	22	141.8	133.86	30	40	90	25	160	152	38	40	90																
			20						25						40						42			45	48	50	53												
			22						28						42						45			48	51	54	57	60	63	66	69	72	75	78	81	84	87	90	
			24						30						44						47			50	53	56	59	62	65	68	71	74	77	80	83	86	89	92	
			25		32				46		49				52		55				58			61	64	67	70	73	76	79	82	85	88	91	94	97	100		
			28		35				50		53				56		59				62			65	68	71	74	77	80	83	86	89	92						
			30		38				54		57				60		63				66			69	72	75	78	81	84	87	90								

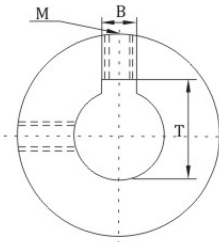
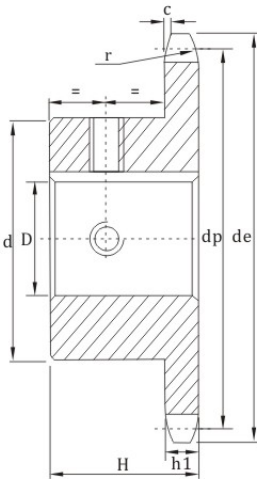
Finished Bore Sprockets
European Standard Series

1" × 17.02mm

SPROCKETS 1" × 17.02mm

16B-1

SPROCKETS	mm
Tooth radius r	26
Radius width C	2.5
Tooth width h _i	16.2
CHAIN	mm
Pitch	25.4
Internal width	17.02
Roller Φ	15.88



16B-1 25.4 × 17.02mm

Material:C45

Z	d _e	d _p	D	H	d	Z	d _e	d _p	D	H	d	Z	d _e	d _p	D	H	d	Z	d _e	d _p	D	H	d
11	99.5	90.14	25	40	61	15	133	122.17	30	40	92	18	157	146.28	48	45	100	22	189.3	178.48	38	50	110
			28						32						50						40		
			30						35						25						42		
			32						38						28						45		
			35						40						30						48		
			38						42						32						50		
			40						45						35						25		
12	109	98.14	28	40	69	16	141	130.2	25	45	100	19	165.2	154.33	38	45	100	23	197.5	186.53	28	50	110
			30						28						40						30		
			32						30						42						32		
			35						32						45						35		
			38						35						48						38		
			40						40						50						40		
			42						42						25						42		
13	117	106.12	25	40	78	17	149	138.22	28	45	100	20	173.2	162.38	38	45	100	24	205.5	194.59	25	50	110
			28						30						40						28		
			30						32						42						30		
			32						35						45						32		
			35						38						48						35		
			38						40						50						38		
			40						42						25						40		
14	125	114.15	25	40	84	18	157	146.28	28	45	100	21	181.2	170.43	38	45	110	25	213.5	202.66	25	50	110
			28						30						40						28		
			30						32						42						30		
			32						35						45						32		
			35						38						48						35		
			38						40						50						38		
			40						42						25						40		
15	133	122.17	25	40	92	22	189.3	178.48	28	45	110	25	213.5	202.66	38	50	120	31	241.5	230.66	25	50	120
			28						30						40						28		
			30						32						42						30		

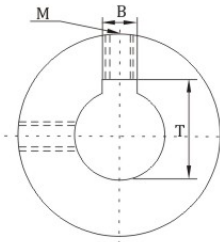
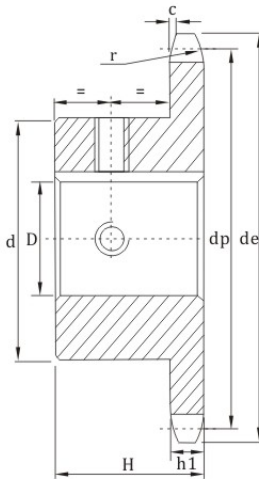
Finished Bore Sprockets
European Standard Series

1"1/4 × 3/4"

SPROCKETS 1"1/4 × 3/4"

20B-1

SPROCKETS	mm
Tooth radius r	32
Radius width C	3.5
Tooth width h _i	18.5
CHAIN	mm
Pitch	31.75
Internal width	19.56
Roller Φ	19.05



20B-1 31.75 × 19.56mm

Material:C45

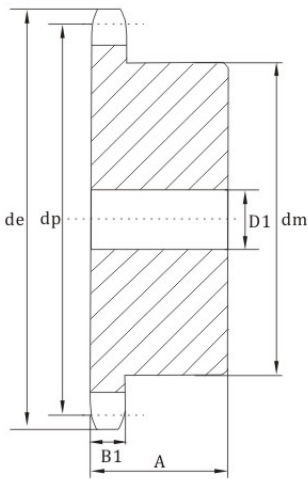
Z	d _e	d _p	D	H	d	Z	d _e	d _p	D	H	d	Z	d _e	d _p	D	H	d	
09	108	92.84	25	40	63	13	147.8	132.65	32	45	98	17	187.9	172.78	38	50	120	
			30						35						40			45
			32						38						42			48
			35						40						45			50
			38						42						48			55
10	117.9	102.74	25	40	70	14	157.8	142.68	32	45	108	18	198	182.85	38	50	120	
			30						35						40			45
			32						38						42			48
			35						40						45			50
			38						42						48			55
11	127.8	112.68	25	45	77	15	167.8	152.68	32	45	108	18	198	182.85	38	50	120	
			28						35						40			45
			30						38						42			48
			32						40						45			50
			35						42						48			55
			38		45				50						55			
			40		48				55						60			
			42		50				55						65			
			45		55				60						70			
			50		60				65						75			
12	137.8	122.68	25	45	88	16	177.9	162.75	32	50	120	20	218.1	202.98	38	50	120	
			28						35						40			45
			30						38						42			48
			32						40						45			50
			35						42						48			55
			38		45				50						55			
			40		48				55						60			
			42		50				55						65			
			45		55				60						70			
			48		60				65						75			
13	147.8	132.65	25	45	98	17	187.9	172.78	32	50	120	21	213.5	202.66	38	50	120	
			28						35						40			45
			30						38						42			48
			31						40						45			50

Stainless Steel Sprockets
European Standard Series

For Chain Acc. to DIN 8187 ISO/R 606

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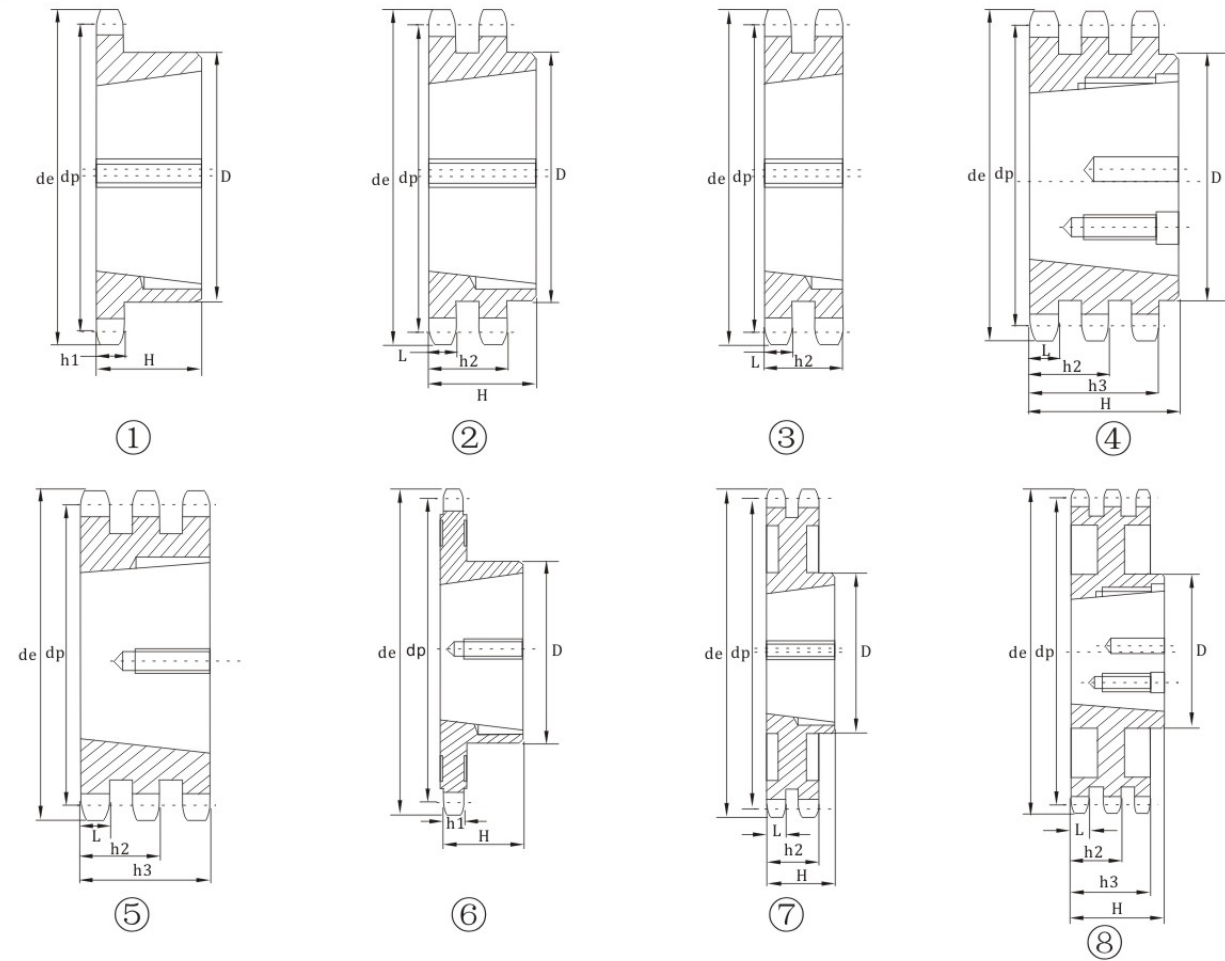


Pitch	Z	12	13	15	16	17	18	19	20	21	23	25	30
06B 3/8" × 7/32"	de	-	43.0	49.3	52.3	55.3	58.3	61.3	64.3	68.0	73.5	80.0	94.7
	dp	-	39.79	45.81	48.82	51.83	54.85	57.87	60.89	63.91	69.95	76.00	91.12
	dm	-	28	34	37	40	43	45	46	48	52	57	60
	D _i	-	10	10	10	10	10	10	10	12	12	12	12
	A	-	25	25	28	28	28	28	28	28	28	28	30
08B 1/2" × 5/16"	de	53.0	57.9	65.9	69.9	74.0	78.0	82.0	86.0	90.1	98.1	106.2	126.3
	dp	49.07	53.6	61.09	65.10	69.11	73.14	77.16	81.19	85.22	93.27	101.33	121.50
	dm	33	37	45	50	52	56	60	64	68	70	70	80
	D _i	10	10	10	12	12	12	12	12	14	14	14	16
	A	28	28	28	28	28	28	28	28	28	28	28	30
10B 5/8" × 3/8"	de	-	73.0	83.0	88.0	93.0	98.3	103.3	108.4	113.4	123.4	134.0	158.8
	dp	-	66.32	76.36	81.37	86.39	91.42	96.45	101.49	106.52	116.58	126.66	151.87
	dm	-	47	57	60	60	70	75	75	80	80	80	90
	D _i	-	12	12	12	12	12	14	14	16	16	16	20
	A	-	30	30	30	30	30	30	30	30	30	30	35
12B 3/4" × 7/16"	de	-	87.5	99.8	105.5	111.5	118.0	124.2	129.7	136.0	149.0	160.0	-
	dp	-	79.59	91.63	97.65	103.67	109.71	115.75	121.78	127.82	139.90	152.0	-
	dm	-	58	70	75	80	80	80	80	90	90	90	-
	D _i	-	16	16	16	16	16	16	16	20	20	20	-
	A	-	35	35	35	35	35	35	35	40	40	40	-
16B 1" × 17.02	de	-	117.0	133.0	141.0	149.0	157.0	165.2	173.0	181.2	-	-	-
	dp	-	106.12	122.17	130.20	138.22	146.28	154.33	162.38	170.43	-	-	-
	dm	-	78	92	100	100	100	100	100	110	-	-	-
	D _i	-	16	16	19	20	20	20	20	20	-	-	-
	A	-	40	40	45	45	45	45	45	50	-	-	-

SIMPLEX SPROCKETS IN STAINLESS STEEL AISI 304L
Material:Stainless steel SUS 304l

Taper Bore Sprockets
European Standard Series

SPROCKETS 3/8" × 7/32" For Chain Acc. to DIN 8187 ISO/R 606



SPROCKETS	mm	CHAIN	mm	
Tooth radius r	10	Pitch	9.525	Steel=C45
Radius width C	1	Internal width	5.72	*Cast iron=G22
Tooth width h ₁	5.3	Roller Φ	6.35	cast iron with black phosphated
Tooth width L	5.2			
Tooth width h ₂	15.4			
Tooth width h ₃	25.6			

Z	d _e	d _p	TS				TD				TT			
			D	H	for Bush	Type	D	H	for Bush	Type	D	H	for Bush	Type
17	55.3	51.83	45	22	1008	1	41	22	1008	2	-	25.6	1008	5
19	61.3	57.87	45	22	1008	1	46	22	1008	2	-	25.6	1008	5
21	68.0	63.91	46	22	1008	1	49	22	1008	2	-	25.6	1008	5
23	73.5	69.95	63	25	1210	1	59	25	1210	2	-	25.6	1210	5
25	80.0	76.02	63	25	1210	1	64	25	1210	2	-	25.6	1210	5
27	86.0	82.02	63	25	1210	1	70	25	1210	2	-	25.6	1210	5
30	94.7	91.12	63	25	1210	1	75	25	1210	2	79	38	1615	4
*38	119.5	115.35	70	25	1210	1	80	25	1610	2	90	38	1615	4
*45	140.7	136.55	70	25	1210	1	80	25	1610	2				
*57	176.9	172.91	70	25	1210	6	80	25	1610	7				
*76	234.9	230.49	70	25	1210	6	80	25	1610	7				
*95	292.5	288.08	80	25	1210	6	90	25	1610	7				
*114	349.5	345.68	80	25	1210	6	95	38	1615	7				

Taper Bore Sprockets
European Standard Series

08B-1-2-3
SPROCKETS 1/2" x 5/16"
For Chain Acc. to DIN 8187
ISO/R 606

Table with 5 columns: SPROCKETS, mm, CHAIN, mm, and material specifications (Steel=C45, *Cast iron=G22, cast iron with black phosphated). Rows include Tooth radius r, Radius width C, Tooth width h1, Tooth width L, Tooth width h2, and Tooth width h3.

Table with 15 columns: Z, de, dp, TS (D, H, for Bush, Type), TD (D, H, for Bush, Type), and TT (D, H, for Bush, Type). Rows list sprocket specifications for various tooth counts (Z) from 15 to 114.

10B-1-2-3
SPROCKETS 5/8" x 3/8"mm
For Chain Acc. to DIN 8187
ISO/R 606

Table with 5 columns: SPROCKETS, mm, CHAIN, mm, and material specifications. Rows include Tooth radius r, Radius width C, Tooth width h1, Tooth width L, Tooth width h2, and Tooth width h3.

Table with 15 columns: Z, de, dp, TS (D, H, for Bush, Type), TD (D, H, for Bush, Type), and TT (D, H, for Bush, Type). Rows list sprocket specifications for various tooth counts (Z) from 13 to 114.

Taper Bore Sprockets
European Standard Series

12B-1-2-3
SPROCKETS 3/4" x 7/16"
For roller chains DIN 8187
ISO/R 606

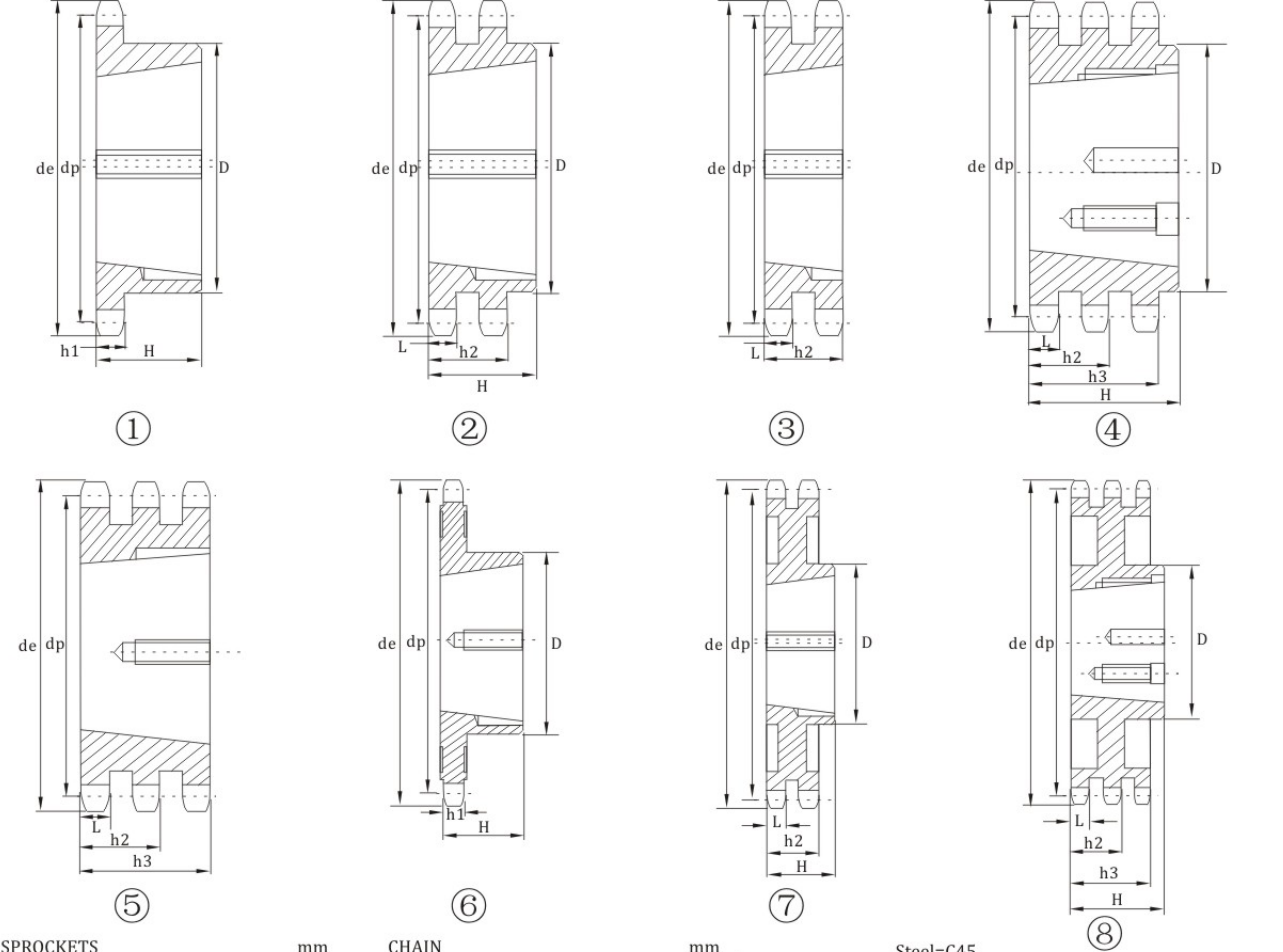


Table with 5 columns: SPROCKETS, mm, CHAIN, mm, and material specifications. Rows include Tooth radius r, Radius width C, Tooth width h1, Tooth width L, Tooth width h2, and Tooth width h3.

Table with 15 columns: Z, de, dp, TS (D, H, for Bush, Type), TD (D, H, for Bush, Type), and TT (D, H, for Bush, Type). Rows list sprocket specifications for various tooth counts (Z) from 13 to 114.

Taper Bore Sprockets
European Standard Series

16B-1-2-3

Table with 3 columns: 25.4 × 17.02mm, For Chain Acc. to DIN 8187, ISO/R 606

Table with 5 columns: SPROCKETS, mm, CHAIN, mm, Steel=C45. Rows include Tooth radius r, Radius width C, Tooth width h1, Tooth width L, Tooth width h2, Tooth width h3.

Table with 15 columns: Z, de, dp, TS (D, H, for Bush, Type), TD (D, H, for Bush, Type), TT (D, H, for Bush, Type). Rows include sprocket specifications for various tooth counts.

20B-1-2-3

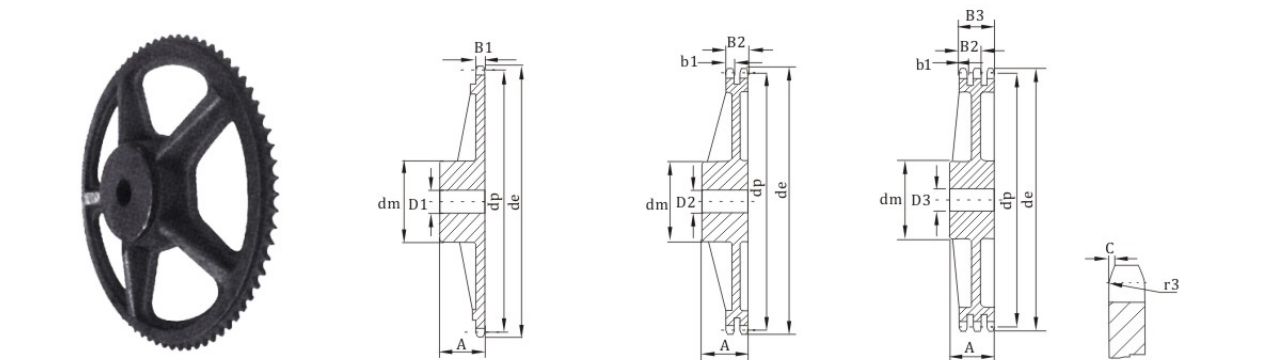
Table with 3 columns: 31.75 × 19.56mm, For Chain Acc. to DIN 8187, ISO/R 606

Table with 5 columns: SPROCKETS, mm, CHAIN, mm, Steel=C45. Rows include Tooth radius r, Radius width C, Tooth width h1, Tooth width L, Tooth width h2, Tooth width h3.

Table with 7 columns: Z, de, dp, TS (D, H, for Bush, Type). Rows include sprocket specifications for various tooth counts.

Cast Iron Sprockets
European Standard Series

Stock Bore For Chain Acc. to DIN 8187-ISO/R 606 Material:GG22-GG25



06B-1-2-3

Table with 3 columns: SPROCKETS 3/8" × 7/32", For Chain Acc. to DIN 8187, ISO/R 606

Table with 12 columns: Z, de, dp, SIMPLEX (dm, D1, A), DUPLEX (dm, D2, A), TRIPLEX (dm, D3, A). Rows include sprocket specifications for various tooth counts.

08B-1-2-3

Table with 3 columns: SPROCKETS 1/2" × 5/16", For Chain Acc. to DIN 8187, ISO/R 606

Table with 12 columns: Z, de, dp, SIMPLEX (dm, D1, A), DUPLEX (dm, D2, A), TRIPLEX (dm, D3, A). Rows include sprocket specifications for various tooth counts.

10B-1-2-3

Table with 3 columns: SPROCKETS 5/8" × 3/8", For Chain Acc. to DIN 8187, ISO/R 606

Table with 12 columns: Z, de, dp, SIMPLEX (dm, D1, A), DUPLEX (dm, D2, A), TRIPLEX (dm, D3, A). Rows include sprocket specifications for various tooth counts.

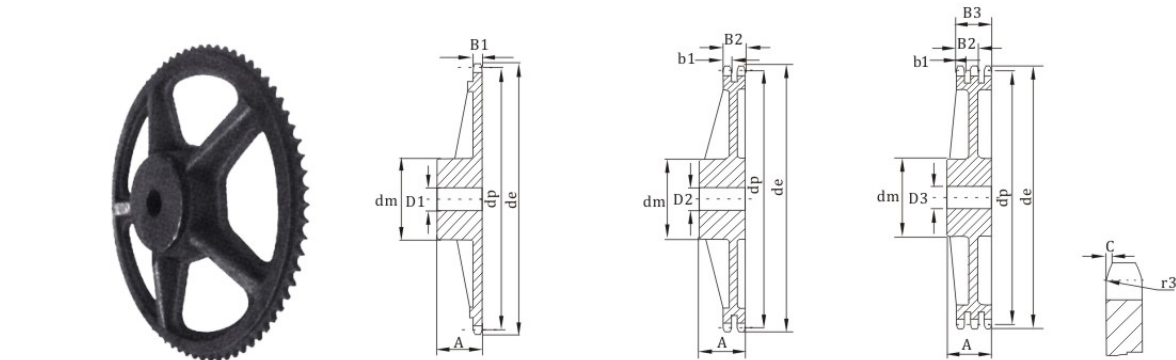
12B-1-2-3

Table with 3 columns: SPROCKETS 3/4" × 7/16", For Chain Acc. to DIN 8187, ISO/R 606

Table with 12 columns: Z, de, dp, SIMPLEX (dm, D1, A), DUPLEX (dm, D2, A), TRIPLEX (dm, D3, A). Rows include sprocket specifications for various tooth counts.

Cast Iron Sprockets
European Standard Series

Stock Bore For Chain Acc. to DIN 8187-ISO/R 606 Material:GG22-GG25



16B-1-2-3 SPROCKETS 1" × 17.02mm For Chain Acc. to DIN 8187 ISO/R 606

Z	d _e	d _p	SIMPLEX			DUPLEX			TRIPLEX		
			d _m	D ₁	A	d _m	D ₂	A	d _m	D ₃	A
30	254.0	243.00	110	30	65	125	40	75	145	40	90
38	320.0	307.59	110	30	65	140	40	75	160	45	100
45	377.0	364.13	125	30	70	150	40	75	160	45	100
57	474.0	461.08	125	35	70	170	40	90	165	45	100
76	627.0	614.65	140	35	80	175	40	95	200	45	110
95	781.0	768.22	140	40	80	175	45	95	200	50	110
114	933.0	921.81	140	40	80	175	45	95	200	50	115

SPROCKETS	mm
Tooth radius r ₃	26
Radius width C	2.5
Tooth width B ₁	16.2
Tooth width b ₁	15.8
Tooth width B ₂	47.7
Tooth width B ₃	79.6
CHAIN	mm
Pitch	25.4
Internal width	17.02
Roller Φ	15.88

20B-1-2-3 SPROCKETS 1"1/4 × 3/4" For Chain Acc. to DIN 8187 ISO/R 606

Z	d _e	d _p	SIMPLEX			DUPLEX			TRIPLEX		
			d _m	D ₁	A	d _m	D ₂	A	d _m	D ₃	A
30	318.9	303.75	115	35	70	130	40	80	160	50	100
38	399.6	384.49	125	35	70	140	45	90	180	56	110
45	470.3	455.17	125	35	70	140	45	90	180	56	110
57	591.5	576.36	135	40	80	160	50	100	180	60	125
76	783.5	768.32	140	40	90	180	50	100	200	60	140

SPROCKETS	mm
Tooth radius r ₃	32
Radius width C	3.5
Tooth width B ₁	18.5
Tooth width b ₁	18.2
Tooth width B ₂	54.6
Tooth width B ₃	91
CHAIN	mm
Pitch	31.75
Internal width	19.56
Roller Φ	19.05

24B-1-2-3 SPROCKETS 1"1/2 × 1" For Chain Acc. to DIN 8187 ISO/R 606

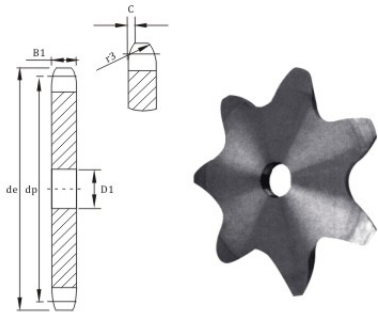
Z	d _e	d _p	SIMPLEX			DUPLEX			TRIPLEX		
			d _m	D ₁	A	d _m	D ₂	A	d _m	D ₃	A
30	379.5	364.50	130	40	85	160	40	95	180	60	150
38	476.2	461.39	140	45	90	180	45	100	200	60	150
45	561.2	546.20	140	45	90	180	45	100	200	60	150
57	706.5	691.63	160	45	100	200	55	110	200	70	150
76	936.9	921.98	170	45	100	220	55	120	250	70	150

SPROCKETS	mm
Tooth radius r ₃	38
Radius width C	4
Tooth width B ₁	24.1
Tooth width b ₁	23.6
Tooth width B ₂	72
Tooth width B ₃	120.3
CHAIN	mm
Pitch	38.1
Internal width	25.4
Roller Φ	25.4

Platewheels For Conveyor Chain

Z	d _e	d _p	S D ₁			Z	d _e	d _p	S D ₁		
12	85.7	77.28	14								
14	98.3	89.88	14								
15	104.6	96.18	14								
16	110.9	102.52	16								
17	117.2	108.82	16								
19	129.9	121.52	16								
20	136.2	127.84	16								
21	142.6	134.18	20								
23	155.3	146.88	20								
26	174.3	165.92	20								
27	180.7	172.27	20								
35	231.5	223.12	20								
38	250.6	242.18	25								
39	256.9	248.54	25								
40	263.3	254.92	25								

PLATEWHEELS 20 × 16mm
For chains Acc.to DIN 8164

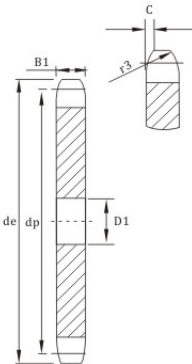


PLATEWHEELS	mm
Tooth radius r ₃	20
Radius width C	1.7
Tooth width B ₁	14.5

CHAIN	mm
Pitch	20
Internal width	16
Roller Φ	12

Z	d _e	d _p	S D ₁			Z	d _e	d _p	S D ₁		
11	117.4	106.48	20								
12	126.9	115.91	20								
13	137.3	125.36	20								
15	156.2	144.29	20								
17	175.2	163.27	20								
21	213.2	201.29	25								
22	222.8	210.80	25								
23	232.3	220.32	25								
27	270.4	258.41	25								
30	299.0	287.00	25								
38	375.2	363.27	30								

PLATEWHEELS 30 × 17.02mm
For chains Acc.to DIN 8164



PLATEWHEELS	mm
Tooth radius r ₃	27
Radius width C	2.2
Tooth width B ₁	15.8

CHAIN	mm
Pitch	30
Internal width	17.02
Roller Φ	15.88

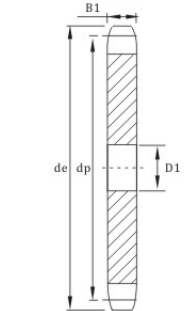
Platewheels For Conveyor Chain

Z	Roller 25			Roller 28			Roller 31		
	d _e	d _p	D _i	d _e	d _p	D _i	d _e	d _p	D _i
6	115.0	100.00	20				116.2	100.00	20
7	132.7	115.24	20				133.8	115.24	20
8	158.1	130.60	25	150.2	130.60	25	152.3	130.60	25
9	163.7	146.20	25				167.9	146.20	25
10	179.3	161.85	25	181.4	161.85	25	183.5	161.85	25
11	195.0	177.50	25				199.2	177.50	25
12	211.0	193.20	25				212.0	193.20	25
13	226.4	208.95	30				230.6	208.95	30
14	242.2	224.70	30	244.3	244.70	30	246.4	224.70	30
15	257.9	240.45	30	260.0	240.45	30	262.1	240.45	30
16	273.8	256.30	30				278.0	256.30	30
17	289.5	272.05	30				293.7	272.05	30
18	305.4	287.95	30	307.5	287.95	30	309.6	287.95	30
19	321.3	303.80	30				325.5	303.80	30
20	337.1	319.60	30				341.3	319.60	30
21	352.9	335.45	30				357.1	335.45	30
22				370.9	351.35	30	373.0	351.35	30
23							388.9	367.20	30
24	400.0	383.05	30	402.6	383.05	30	404.7	383.05	30
25	416.4	398.95	30				419.7	398.95	30
26	432.3	414.80	30				436.5	414.80	30
27	448.2	430.70	30				452.4	430.70	30
28	464.0	446.55	30				468.2	446.55	30
29	480.0	462.50	30						
30	495.8	478.35	30						
32							431.8	510.10	30
35							579.5	557.80	30
38	622.9	605.45	30				622.0	605.45	30

Z	Roller 25			Roller 31					
	d _e	d _p	D _i	d _e	d _p	D _i			
8	213.4	195.98	30	217.6	195.98	30			
9	236.8	219.30	30	241.0	219.30	30			
10	260.2	242.77	30	264.4	242.77	30			
11	283.7	266.25	30	287.9	266.25	30			
12	307.3	289.80	30	311.5	289.80	30			
13	330.9	313.42	30	334.1	313.42	30			
14				358.7	337.05	30			
15	378.1	360.67	30	382.3	360.67	30			
16	401.9	384.45	30	406.1	384.45	30			
17				419.7	408.07	30			
20	496.9	479.40	30						
21				524.8	503.17	30			
25	615.9	598.42	30	620.1	598.42	30			

PLATE WHEELS P 50

R25-28-31



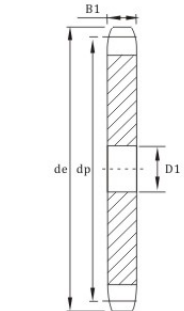
CHAIN	mm
Pitch	50
Internal width	11.5
Roller Φ	25
Tooth width B _i	10.5

CHAIN	mm
Pitch	50
Internal width	15
Roller Φ	28
Tooth width B _i	13.5

CHAIN	mm
Pitch	50
Internal width	15
Roller Φ	31
Tooth width B _i	13.5

PLATEWHEELS P75

R25-31



CHAIN	mm
Pitch	75
Internal width	11.5
Roller Φ	25
Tooth width B _i	10.5

CHAIN	mm
Pitch	75
Internal width	15
Roller Φ	31
Tooth width B _i	13.5

Platewheels For Conveyor Chain

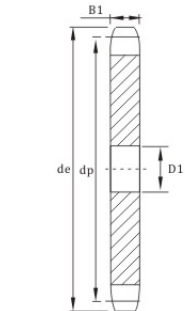
Z	Roller 25			Roller 31			Roller 40		
	d _e	d _p	D _i	d _e	d _p	D _i	d _e	d _p	D _i
8	278.7	261.31	30	282.9	261.31	30	283.0	261.31	30
9				314.1	292.40	30	314.0	292.40	30
10	341.2	323.61	30	345.4	323.61	30	345.0	323.61	30
11	372.5	345.95	30	376.7	354.95	30	378.0	354.95	30
12	403.9	386.40	30	408.1	386.40	30	409.0	386.40	30
13				439.6	417.90	30			
14				471.1	449.40	30	473.0	449.40	30
15				502.6	480.90	30			
16				534.3	512.60	30	536.0	512.60	30
17				565.8	544.10	30			
18				597.6	575.90	30			
19									
20							663.0	639.20	30

Table Top Wheels

Z	d _e	D _i	L	
13	78.98	15	43.5	
15	93.67	15	43.5	
17	105.47	20	43.5	
19	117.34	20	43.5	
21	129.26	20	43.5	
23	141.22	20	43.5	
25	153.21	20	43.5	
27	165.20	20	43.5	
29	177.24	20	43.5	
31	189.28	20	43.5	

PLATEWHEEL1 P.100

Ro25-31-40



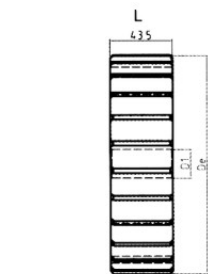
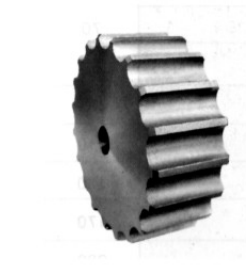
CHAIN	mm
Pitch	100
Internal width	11.5
Roller Φ	25
Tooth width B _i	10.5

CHAIN	mm
Pitch	100
Internal width	15
Roller Φ	31
Tooth width B _i	13.5

CHAIN	mm
Pitch	100
Internal width	22
Roller Φ	40
Tooth width B _i	20

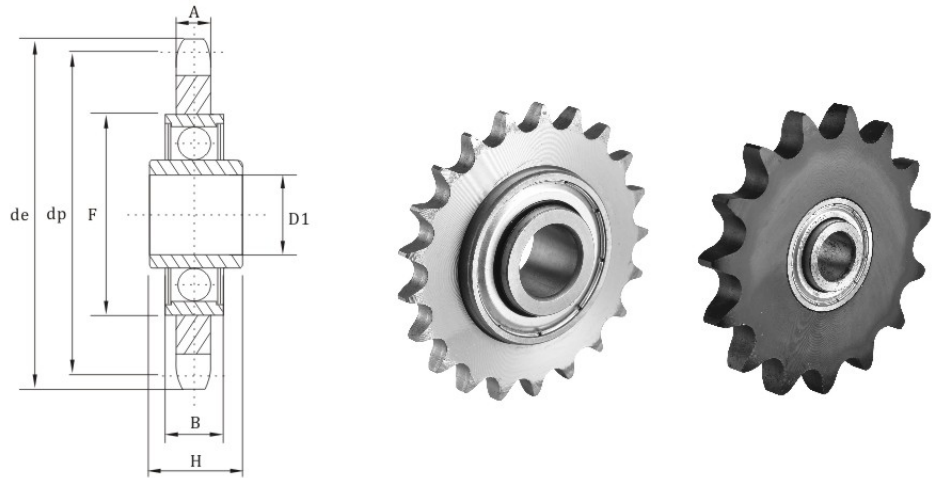
TABLE TOP WHEELS

For chains Acc.to DIN 8153



Idler Sprockets with Ball Bearing
European Standard Series

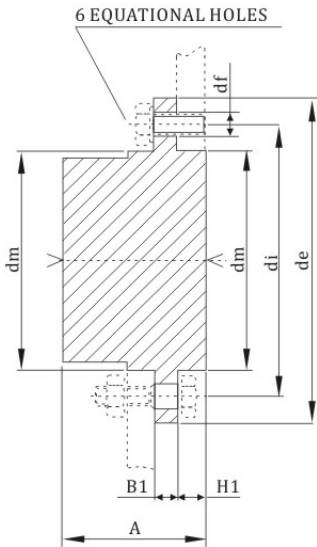
IDLER SPROCKETS



Z	Pitch	d _e	d _p	A	D ₁	F	B	H	Bearing
23	8×3"	62.15	58.75	2.8	16	40	12	18.3	203 KRR
21	3/8"×7/32"	68.0	63.90	5.3	16	40	12	18.3	203 KRR
18	1/2"×1/8"	78.9	73.14	3	16	40	12	18.3	203 KRR
18	1/2"×3/16"	78.9	73.13	4.5	16	40	12	18.3	203 KRR
16	1/2"×5/16"	69.5	65.10	7.2	16	40	12	18.3	203 KRR
18	1/2"×5/16"	77.8	73.14	7.2	16	40	12	18.3	203 KRR
14	5/8"×3/8"	78.0	71.34	9.1	16	40	12	18.3	203 KRR
15	5/8"×3/8"	83.0	76.36	9.1	16	40	12	18.3	203 KRR
17	5/8"×3/8"	93.0	86.39	9.1	16	40	12	18.3	203 KRR
13	3/4"×7/16"	87.5	79.59	11.1	16	40	12	18.3	203 KRR
15	3/4"×7/16"	99.8	91.63	11.1	16	40	12	18.3	203 KRR
12	1"×17.02	109.0	98.14	16.2	20	47	14	17.7	204 KRR
13	1"1/4×3/4"	147.8	132.65	18.5	25	52	15	21.0	205 KRR

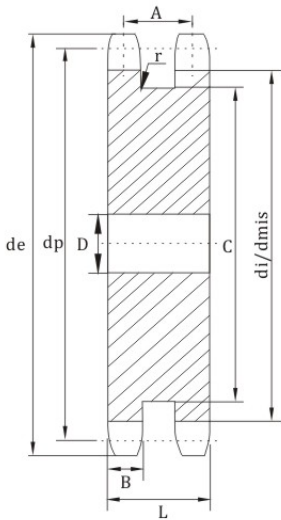
DISASSEMBLING HUBS FOR PLATEWHEELS

Nr.		d _e	d _i	D _m ¹⁰	A	D _f	B ₁	H ₁
30		55	45	30	20.0	4.2	4	3.0
40		70	58	40	25.0	5.2	5	5.2
50		80	67	50	32.0	6.2	7	7.0
60		90	76	60	38.5	6.2	7	8.7
70		110	94	70	45.5	8.2	8	10.5
80		130	107	80	55.0	8.2	12	15.0
100		170	140	100	73.0	10.2	17	23.0
140		220	182	140	83.0	12.2	20	23.0
160		245	205	160	93.0	16.5	25	25.0



Double Sprockets for Two Single Chains
European Standard Series

DOUBLE SIMPLEX For roller chains DIN 8187 ISO/R 606

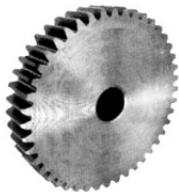
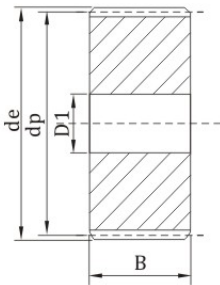
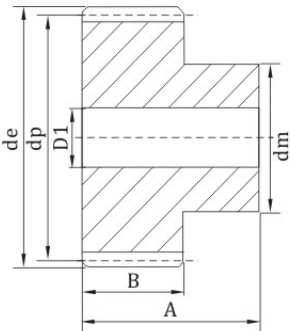


Type	Z	d _e	d _p	d _i	d _{mis}	D	A	B h14	C max	L
06B-1 R6. 35 3/8"×7/32"	13	43	39.80	33.45	33.16	10	20.3	5.3	28	25.5
	15	49.3	45.81	39.46	39.21	10	20.3	5.3	34	25.5
	17	55.3	51.84	45.49	45.27	12	20.3	5.3	40	25.5
	19	61.3	57.87	51.52	51.32	12	20.3	5.3	46	25.5
	21	68	63.91	57.56	57.38	15	20.3	5.3	52	25.5
	23	73.5	69.95	63.60	63.44	15	20.3	5.3	59	25.5
	25	80	76.00	69.65	69.50	15	20.3	5.3	65	25.5
08B-1 R8. 51 1/2"×5/16"	13	57.4	53.07	44.56	44.17	10	24.8	7.2	37	32
	15	65.5	61.08	52.57	52.24	10	24.8	7.2	45	32
	17	73.6	69.12	60.61	60.31	12	24.8	7.2	53	32
	19	81.7	77.16	68.65	68.39	12	24.8	7.2	62	32
	21	89.7	85.21	76.71	76.46	15	24.8	7.2	70	32
	23	98.2	93.27	84.76	84.54	15	24.8	7.2	78	32
	25	105.8	101.33	92.82	92.62	15	24.8	7.2	86	32
10B-1 R10. 16 5/8"×3/8"	13	73	66.33	56.17	55.69	15	27.9	9.1	48	37
	15	83	76.35	66.19	65.78	15	27.9	9.1	58	37
	17	93	86.39	76.23	75.87	15	27.9	9.1	68	37
	19	103.3	96.45	86.29	85.96	19	27.9	9.1	79	37
	21	113.4	106.51	96.35	96.06	19	27.9	9.1	89	37
	23	123.4	116.59	106.43	106.15	19	27.9	9.1	99	37
	25	134	126.66	116.50	116.25	19	27.9	9.1	109	37
12B-1 R12. 07 3/4"×7/16"	13	87.5	79.60	67.53	66.95	20	33.9	11.1	59	45
	15	99.8	91.63	79.56	79.05	20	33.9	11.1	71	45
	17	111.5	103.67	91.60	91.18	20	33.9	11.1	83	45
	19	124.2	115.74	103.67	103.27	20	33.9	11.1	95	45
	21	136	127.82	115.75	115.39	24	33.9	11.1	107	45
	23	149	139.90	127.83	127.51	24	33.9	11.1	119	45
	25	160	151.99	139.92	139.62	24	33.9	11.1	131	45
16B-1 R15. 88 1"×17.02	13	117	106.14	90.26	89.48	24	47.8	16.2	78	64
	15	133	122.17	106.29	105.62	24	47.8	16.2	95	64
	17	149	138.23	122.35	121.76	24	47.8	16.2	111	64
	19	165.2	154.32	138.44	137.91	24	47.8	16.2	127	64
	21	181.2	170.42	154.54	154.06	24	47.8	16.2	143	64

Spur Gears
European Standard Series

SPUR GEARS

Z	Mod.1				Mod.1.5				Mod.2				Mod.2.5			
	d _e	d _p	d _m	D1	d _e	d _p	d _m	D1	d _e	d _p	d _m	D1	d _e	d _p	d _m	D1
12	14	12	9	-	21.0	18.0	14	8	28	24	18	10	35.0	30.0	22	10
13	15	13	10	-	22.5	19.5	15	8	30	26	20	10	37.5	32.5	25	10
14	16	14	11	-	24.0	21.0	17	8	32	28	22	10	40.0	35.0	28	10
15	17	15	12	-	25.5	22.5	18	8	34	30	24	10	42.5	37.5	30	10
16	18	16	13	-	27.0	24.0	19	8	36	32	25	10	45.0	40.0	32	12
17	19	17	14	-	28.5	25.5	20	8	38	34	25	10	47.5	42.5	35	12
18	20	18	15	8	30.0	27.0	20	8	40	36	25	10	50.0	45.0	35	12
19	21	19	15	8	31.5	28.5	20	8	42	38	25	10	52.5	47.5	35	12
20	22	20	16	8	33.0	30.0	25	8	44	40	30	10	55.0	50.0	40	12
21	23	21	16	8	34.5	31.5	25	10	46	42	30	12	57.5	52.5	40	14
22	24	22	16	8	36.0	33.0	25	10	48	44	30	12	60.0	55.0	45	14
23	25	23	18	8	37.5	34.5	25	10	50	46	30	12	62.5	57.5	45	14
24	26	24	20	10	39.0	36.0	25	10	52	48	35	12	65.0	60.0	45	14
25	27	25	20	10	40.5	37.5	25	10	54	50	35	12	67.5	62.5	50	14
26	28	26	20	10	42.0	39.0	30	12	56	52	40	12	70.5	65.0	50	14
27	29	27	20	10	43.5	40.5	30	12	58	54	40	12	72.5	67.5	50	14
28	30	28	20	10	45.0	42.0	30	12	60	56	40	12	75.0	70.0	50	14
29	31	29	20	10	46.5	43.5	30	12	62	58	40	14	77.5	72.5	50	14
30	32	30	20	10	48.0	45.0	30	12	64	60	40	14	80.0	75.0	55	14
31	33	31	25	10	49.5	46.5	35	12	66	62	45	14	82.5	77.5	55	16
32	34	32	25	10	51.0	48.0	35	12	68	64	45	14	85.0	80.0	55	16
33	35	33	25	10	52.5	49.5	35	12	70	66	45	14	87.5	82.5	55	16
34	36	34	25	10	54.0	51.0	35	12	72	68	45	14	90.0	85.0	55	16
35	37	35	25	10	55.5	52.5	35	12	74	70	45	14	92.5	87.5	60	16
36	38	36	25	10	57.0	54.0	35	12	76	72	45	14	95.0	90.0	60	16
37	39	37	25	10	58.5	55.5	40	12	78	74	50	14	97.5	92.5	60	16
38	40	38	25	10	60.0	57.0	40	12	80	76	50	14	100.0	95.0	60	16
39	41	39	25	10	61.5	58.5	40	12	82	78	50	14	102.5	97.5	60	16
40	42	40	25	10	63.0	60.0	40	12	84	80	50	14	105.0	100.0	70	16
41	43	41	30	10	64.5	61.5	40	12	86	82	55	16	107.5	102.5	70	16
42	44	42	30	10	66.0	63.0	50	12	88	84	55	16	110.0	105.0	70	16
43	45	43	30	10	67.5	64.5	50	12	90	86	55	16	112.5	107.5	70	16
44	46	44	30	10	69.0	66.0	50	12	92	88	60	16	115.0	110.0	70	16
45	47	45	30	12	70.5	67.5	50	12	94	90	60	16	117.5	112.5	70	16
46	48	46	30	12	72.0	69.0	50	14	96	92	60	16	120.0	115.0	70	16
47	49	47	30	12	73.5	70.5	50	14	98	94	70	16	122.5	117.5	80	20
48	50	48	30	12	75.0	72.0	50	14	100	96	70	16	125.0	120.0	80	20
49	51	49	30	12	76.5	73.5	50	14	102	98	70	16	127.5	122.5	80	20
50	52	50	30	12	78.0	75.0	50	14	104	100	70	16	130.0	125.0	80	20
51	53	51	40	12	79.5	76.5	60	14	106	102	70	16	132.5	127.5	80	20
52	54	52	40	12	81.0	78.0	60	14	108	104	70	16	135.0	130.0	90	20
53	55	53	40	12	82.5	79.5	60	14	110	106	70	16	137.5	132.5	90	20
54	56	54	40	12	84.0	81.0	60	14	112	108	70	16	140.0	135.0	90	20
55	57	55	40	12	85.5	82.5	60	14	114	110	70	16	142.5	137.5	90	20
56	58	56	40	12	87.0	84.0	60	16	116	112	70	16	145.0	140.0	100	20
57	59	57	40	12	88.5	85.5	60	16	118	114	70	16	147.5	142.5	100	20
58	60	58	40	12	90.0	87.0	60	16	120	116	70	16	150.0	145.0	100	20
59	61	59	40	12	91.5	88.5	60	16	122	118	70	16	152.5	147.5	100	20
60	62	60	40	12	93.0	90.0	60	16	124	120	70	16	155.0	150.0	100	20
61	63	61	50	12	94.5	91.5	70	16	126	122	80	16				
62	64	62	50	12	96.0	93.0	70	16	128	124	80	16				
63	65	63	50	12	97.5	94.5	70	16	130	126	80	16				
64	66	64	50	12	99.0	96.0	70	16	132	128	80	16				
65	67	65	50	12	100.5	97.5	70	16	134	130	80	16	167.5	162.5		20
66	68	66	50	12	102.0	99.0	70	16	136	132	80	16				
67	69	67	50	12	103.5	100.5	70	16	138	134	80	16				
68	70	68	50	12	105.0	102.0	70	16	140	136	80	16				
69	71	69	50	12	106.5	103.5	70	16	142	138	80	16				
70	72	70	50	12	108.0	105.0	70	16	144	140	80	16	180.0	175.0		20
72	74	71		12	111.0	108.0		16	148	144		16	185.0	180.0		20
75	77	75		12	115.0	112.5		16	154	150		20	192.5	187.5		20
76	78	76		12	117.0	114.0		16	156	152		20	195.0	190.0		20
80	82	80		12	123.0	120.0		16	164	160		20	205.0	200.0		25
85	87	85		12	130.0	127.5		16	174	170		20	217.5	212.5		25
90	92	90		12	138.0	135.0		16	184	180		20	230.0	225.0		25
95	97	95		12	145.5	142.5		16	194	190		20	242.5	237.5		25
100	102	100		12	153.0	150.0		16	204	200		20	255.0	250.0		25
110	112	110		12	168.0	165.0		16	224	220		20	280.0	275.0		25
114	116	114		12	174.0	171.0		16	232	228		20	290.0	285.0		25
120	122	120		12	183.0	180.0		16	244	240		20	305.0	300.0		25
127	129	127		12	193.5	190.5		16	258	254		20	322.5	317.5		25



Tooth width "B"

- Module 1 =15mm
- Module 1.5 =17mm
- Module 2 =20mm
- Module 2.5 =25mm
- Module 3 =30mm
- Module 4 =40mm
- Module 5 =50mm
- Module 6 =60mm

Tooth width "A"

- Module 1 =25mm
- Module 1.5 =30mm
- Module 2 =35mm
- Module 2.5 =45mm
- Module 3 =50mm
- Module 4 =60mm
- Module 5 =75mm
- Module 6 =80mm

Material:C45
Pressure angle 20°

Spur Gears
European Standard Series

SPUR GEARS

Z	Mod.3				Mod.4				Mod.5				Mod.6			
	d _e	d _p	d _m	D1	d _e	d _p	d _m	D1	d _e	d _p	d _m	D1	d _e	d _p	d _m	D1
12	42	36	27	12	56	48	35	14	70	60	45	20	84	72	54	20
13	45	39	30	12	60	52	40	14	75	65	50	20	90	78	60	20
14	48	42	33	12	64	56	45	14	80	70	55	20	96	84	65	20
15	51	45	35	12	68	60	45	14	85	75	60	20	102	90	70	20
16	54	58	38	14	72	64	50	16	90	80	65	20	108	95	75	20
17	57	51	42	14	76	68	50	16	95	85	70	20	114	100	75	20
18	60	54	45	14	80	72	50	16	100	90	70	20	120	108	80	20
19	63	57	45	14	84	76	60	16	105	95	70	20	126	114	85	20
20	66	60	45	14	88	80	60	16	110	100	80	20	132	120	90	20
21	69	63	45	16	92	84	70	16	115	105	80	20	138	126	95	20
22	72	66	50	16	96	88	70	16	120	110	80	20	144	132	100	20
23	75	69	50	16	100	92	75	20	125	115	90	20	150	138	105	20
24	78	72	50	16	104	96	75	20	130	120	90	20	156	144	110	25
25	81	75	60	16	108	100	75	20	135	125	90	20	162	150	110	25
26	84	78	60	16	112	104	75	20	140	130	100	20				
27	87	81	60	16	116	108	75	20	145	135	100	20				
28	90	84	60	16	120	112	75	20	150	140	100	25	180	168		25
29	93	87	60	16	124	116	75	20	155	145	110	25				
30	96	90	60	16	128	120	75	20	160	150	110	25	192	180		25
31	99	93	60	16	132	124	80	20								
32	102	96	70	16	136	128	80	20	170	160		25	204	192		25
33	105	99	70	16	140	132	80	20								
34	108	102	70	16	144	136	80	20								
35	111	105	70	16	148	140	80	20	185	175		25	222	210		25
36	114	108	70	20	152	144	80	25								
37	117	111	70	20												
38	120	114	80	20	160	152		25	200	190		25	240	220		25
39	123	117	80	20												
40	126	120	80	20	168	160		25	210	200		25	252	240		25
41	129	123	80	20												
42	132	126	80	20												
43	135	129	80	20												
44	138	132	90	20												
45	141	135	90	20	188	180		25	235	225		25				
46	144	138	90	20												
47	147	141	100	20												
48	150	144	100	20	200	192		25	250	240		25				
50	156	150		20	208	200		25	260	250		30				
52	162	156		20	216	208		25	270	260		30				
55	171	165		20	228	220		25	285	275		30				
57	177	171		20	236	228		25	295	285		30				
60	186	180		20	248	240		25	310	300		30				
65	201	195		20	268	260		25	335	325		30				
70	216	210		25	288	280		25	360	350		30				
72	222	216		25												
75	231	225		25	308	300		25	385	375		30				
76	234	228		25	312	304		30	390	380		30				
80	246	240		25	328	320		30	410	400		30				
85	261	255		25	348	340		30	435	425		30				
90	276	270		25	368	360		30	460	450		30				
95	291	285		25	388	380		30	485	475		30				
100	306	300		25	408	400		30	510	500		30				
110	336	320		25	448	440		30	560	550		30				
114	348	342		30	464	456		30	580	570		30				
120	366	360		30												
127	387	381		30												

Bevel Gears
European Standard Series

BEVEL GEARS

M	Z	De	Dp	A	F	Dn	D1	Dm	L	Lm
1.5	16	26.1	24.0	18	8	18	8	23.8	17	8.9
	20	32.1	30.0	20	8	22	10	28.7	18	9.8
	22	35.1	33.0	20	8	25	10	30.2	18	9.7
	25	39.6	37.5	23	8	28	10	35.4	21	12
	30	47.1	45.0	25	10	30	12	39.7	22.5	12
2	16	34.8	32.0	20	9	25	10	28.8	17	9.3
	20	42.8	40.0	25	12	32	10	35.7	22	12
	22	46.8	44.0	25	12	36	10	37.7	22	17.7
	25	52.8	50.0	28	14	40	12	42.3	25	12.3
	30	62.8	60.0	30	16	50	12	47.8	27	12.8
2.5	16	43.5	40.0	25.5	10	32	12	37.3	22	13.3
	20	53.5	50.0	30.5	12	40	12	45.9	27	16
	22	58.5	55.0	30.5	12	45	12	48.3	27	15.9
	25	66.0	62.5	33.5	15	50	15	53.0	30	16
	30	78.5	75.0	35.5	18	55	15	59.1	32	16
3	16	52.2	48.0	30	12	40	15	44.2	26	16.2
	20	64.2	60.0	35	18	45	15	51.1	31	13.6
	22	70.2	66.0	35	18	50	15	54.0	31	13
	25	79.2	75.0	38	20	55	15	60.1	34	16
	30	94.4	90.0	40	22	60	20	68.1	36	19
3.5	16	60.9	56.0	35.5	16	45	15	50.8	31	17.2
	20	74.9	70.0	40.5	22	55	15	58.6	36	19
	22	81.9	77.0	40.5	22	60	15	62.0	36	18
	25	92.4	87.5	43.5	26	65	20	67.5	39	18
	30	109.9	105.0	45.5	30	70	20	75.4	41	17
4	16	69.6	64.0	38	18	50	15	55.6	33	16.6
	20	85.6	80.0	43	25	60	18	63.8	38	18
	22	93.6	88.0	43	25	65	18	67.7	38	18
	25	105.6	100.0	45	28	70	20	73.5	40	18
	30	125.6	120.0	48	32	80	25	83.7	43	16
4.5	16	78.3	72.0	43	20	55	18	63.0	37	18.5
	20	96.3	90.0	48	28	65	20	71.5	42	18
	22	105.3	99.0	48	28	70	20	75.8	42	18
	25	118.8	112.5	50	32	75	20	81.8	44	18
	30	141.3	135.0	53	35	90	20	93.8	47	17
5	16	87.0	80.0	45.5	22	60	20	67.8	39	17.8
	20	107.1	100.0	50.5	30	70	20	77.3	44	18.5
	22	117.1	110.0	50.5	30	80	20	82.2	44	18.5
	25	132.1	125.0	54.5	35	90	20	90.2	48	18.5
	30	157.1	150.0	56.5	38	110	30	102.4	50	18

M	Z	De	Dp	A	F	Dn	D1	Dm	L	Lm
1.5	16	26.7	24	18.5	8	21	10	34.9	17	10.3
	32	49.3	48	20	8	32	12	27.5	17.5	10
2	16	35.6	32	23	10	27	10	45.4	21	12.2
	32	65.8	64	25	10	40	12	35.2	22	10
2.5	16	44.4	40	27.5	12	34	12	56.0	25	14.4
	32	82.2	80	30	12	50	15	43.0	26.5	15
3	16	53.4	48	28	15	40	15	61.6	25	11.6
	32	98.7	96	35	15	60	15	50.4	30.5	15
3.5	16	62.3	56	33.5	18	48	15	72.3	30.5	14.4
	32	115.1	112	40	18	70	20	57.7	35	19
4	16	71.1	64	36	20	50	20	80.8	32	13.4
	32	131.6	128	45	20	80	20	65.5	39.5	23
4.5	16	80.1	72	39.5	22	60	20	90.4	35	15.4
	32	148.0	144	50	22	80	25	73.2	43.5	24
5	16	88.9	80	50	25	60	20	106.1	45	21.1
	32	164.5	160	55	25	85	25	80.6	48	27

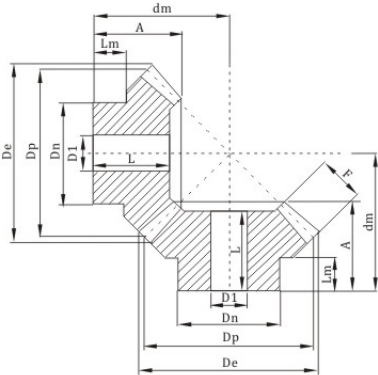
BEVEL GEARS

Pressure angle 20°

Type A

Ratio 1:1

Material:C45



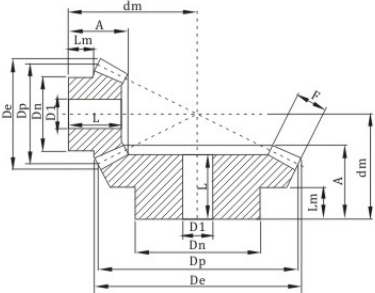
BEVEL GEARS

Pressure angle 20°

Type A

Ratio 1:2

Material:C45



Bevel Gears
European Standard Series

BEVEL GEARS

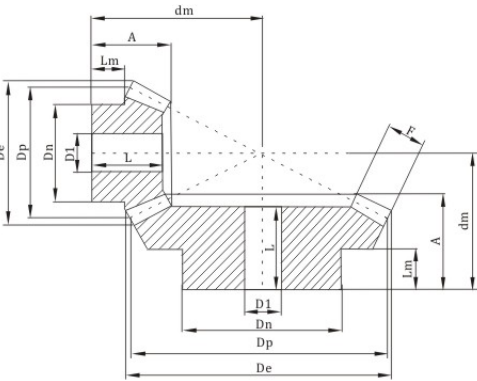
M	Z	De	Dp	A	F	Dn	D1	Dm	L	Lm
1.5	16	26.9	24	22	12	20	10	46.3	21	9.7
	48	72.9	72	22	12	42	15	29.2	19	12
2	16	35.8	32	25.5	15	25	12	58.9	24	9.4
	48	97.3	96	26	15	50	15	35.9	22	13
2.5	16	44.7	40	28	18	33	14	70.4	26	9.2
	48	121.6	120	32	18	60	20	44.6	27	16
3	16	53.7	48	30	18	42	15	84.2	28	11.2
	48	145.9	144	38	18	65	20	54.1	32	19
3.5	16	62.6	56	36.5	22	48	15	98.8	34	13.4
	48	170.2	168	44	22	75	20	62.5	37	23
4	16	71.6	64	42	25	55	20	113.3	39	15.7
	48	194.5	192	50	25	85	22	71.2	42	27
4.5	16	80.6	72	53	28	60	20	133.4	50	23.4
	48	218.8	216	58	28	90	25	81.9	49	27
5	16	89.5	80	60	35	60	20	145.7	57	22.5
	48	243.1	240	65	35	100	28	90.5	55	35

BEVEL GEARS

Pressure angle 20°

Type A

Ratio 1:3



Material:C45

M	Z	De	Dp	A	F	Dn	D1	Dm	L	Lm
1.5	16	26.9	24	25	12	18	10	61.1	24	12.2
	64	96.7	96	25	12	60	15	33	22	13
2	16	35.9	32	24	15	25	12	73.1	23	8.5
	64	129.0	128	28	15	70	20	38.9	24	14
2.5	16	44.9	40	30.5	18	34	15	92.6	29	11.7
	64	161.2	160	35	18	80	20	48.8	30	16
3	16	53.8	48	32	20	40	15	108	30	11.1
	64	193.5	192	42	20	90	20	58.8	36	22
3.5	16	62.8	56	40	25	45	15	127.1	38	14
	64	225.7	224	50	25	100	25	69.3	43	22
4	16	71.7	64	50	30	50	20	148.2	48	18.5
	64	257.9	256	60	30	110	28	81.8	52	30
4.5	16	80.7	72	55	32	60	20	167.1	53	21.6
	64	290.1	288	65	32	120	30	89.8	57	35
5	16	89.7	80	60	35	65	20	185.1	58	23.2
	64	322.4	320	70	35	120	30	97.7	61	42

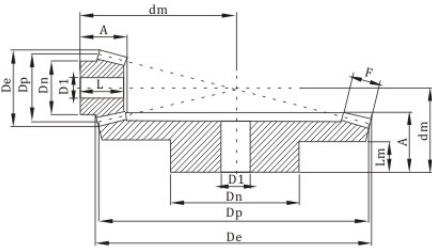
BEVEL GEARS

Pressure angle 20°

Type A

Ratio 1:4

Material:C45

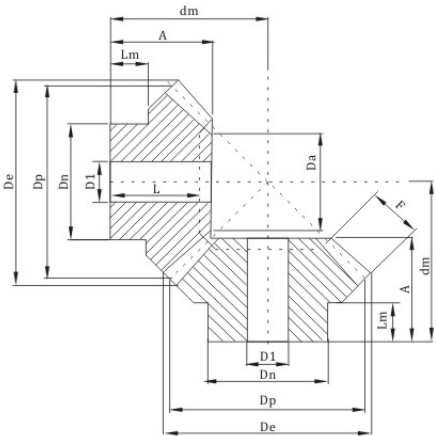


Bevel Gears
European Standard Series

BEVEL GEARS

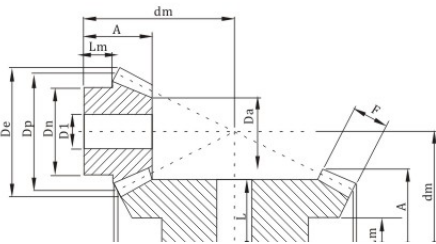
M	Z	De	Dp	A	F	Dn	D1	dm	Da	L	Dm
1	16	17.4	16.0	11.2	4	13.3	4	16	7	-	6.7
	19	20.4	19.0	11.8	4	15.3	4	18	11.5	-	6.6
	22	23.4	22.0	12.8	4.7	16.3	5	20	11.5	-	6.1
	26	27.4	26.0	13.3	5.5	20.3	5	22	14.5	-	7
1.5	30	31.4	30.0	16.0	6.4	20.3	5	26	17.5	-	8
	16	26.1	24.0	18.9	6	20.3	8	26	12	-	12.2
	19	30.6	28.5	21.3	7	20.3	8	30	14.5	-	11.6
	22	35.1	33.0	22.5	7.5	25.3	8	33	17	-	12.7
2	26	41.1	39.0	23.2	8.5	28.3	8	36	22	-	12
	30	47.1	45.5	27.2	10	30.0	12	42	26	-	12.1
	16	34.8	32.0	23.5	8	25.3	8	33	15.5	-	13.6
	19	40.8	38.0	24.2	9	25.3	8	36	19.5	-	12
2.5	22	46.8	44.0	27.9	10	30.3	10	42	23.5	-	14
	26	54.8	52.0	31.4	12	35.3	12	48	29	-	13.7
	30	62.8	60.0	34.1	13	40.3	12	54	36	-	17
	16	43.5	40.0	28.1	10	30.3	12	40	20	-	15.2
3.5	19	51.0	47.5	27.1	11	35.3	12	42	25	-	13
	22	58.5	55.0	30.1	12	45.3	12	48	31.5	-	15.7
	26	68.5	65.0	33.2	15	45.3	15	54	36.5	-	16
	30	78.5	75.0	39.0	16	50.3	15	64	45.5	-	20
4	16	52.2	48.0	31.7	12	40.3	12	46	23	-	18.1
	19	61.2	57.0	36.0	13	40.3	14	54	30	-	17.1
	22	70.2	66.0	36.9	15	50.3	15	58	36.5	-	17.1
	26	82.2	78.0	38.4	17	50.3	15	64	45.5	-	18
5	30	94.2	90.0	43.8	19	60.3	20	74	55	-	22
	16	60.9	56.0	36.4	14	45.3	15	53	27.5	-	19.8
	19	71.4	66.5	36.9	15	50.3	15	58	35.3	-	18
	22	81.9	77.0	39.1	17	55.3	15	64	43.5	-	18
6	26	95.9	91.0	42.2	20	60.3	20	72	52.3	-	20
	30	110.0	105.0	47.3	23	70.3	20	82	67	43	22
	16	69.7	64.0	44.3	15	50.3	15	64	32	-	25.1
	19	81.7	76.0	44.4	18	55.3	18	68	40	-	22
7	22	93.7	88.0	45.9	20	60.3	18	74	49	-	22
	26	109.7	104.0	48.0	23	70.3	20	82	65	43	22
	30	125.7	120.0	54.2	26	80.3	25	94	76	49	25
	16	78.4	72.0	46.3	17.5	55.3	18	68	35.5	-	25
8	19	91.8	85.5	47.3	20	60.3	20	74	44.6	-	25
	22	105.3	99.0	50.1	22	70.3	20	82	56	-	25
	26	123.3	117.0	53.2	25	75.3	20	92	68.1	45	25
	30	141.4	135.0	60.0	29	80.3	25	105	85	54	28
9	16	87.1	80.0	48.9	18	60.3	20	74	42	-	25
	19	102.1	95.0	52.2	22	60.3	20	82	50	-	25
	22	117.1	110.0	58.2	24	80.3	20	94	68	52	30
	26	137.1	130.0	62.7	29	80.3	20	105	82	57	30
10	30	157.1	150.0	68.9	32	80.3	30	119	97	63	35

BEVEL GEARS
Pressure angle 20°
Type B
Ratio 1:1
Material:C45



M	Z	De	Dp	A	F	Dn	D1	dm	Da	L	Dm
1	15	17.4	15.0	11.9	5	13.3	4	22	8	-	6.6
	30	30.6	30.0	15.1	5	20.3	5	20	-	14	9
1.5	15	26.1	22.5	21.1	9	20.3	8	35	11.5	-	12
	30	45.9	45.0	25.2	9	32.3	8	32	-	23	16
2	15	34.8	30.0	26.0	11.5	25.3	8	45	16	-	13.8
	30	61.2	60.0	29.8	11.5	40.3	12	39	-	27	18
2.5	15	43.5	37.5	31.8	15	32.3	12	55	20	-	16.2
	30	76.5	75.0	33.7	15	45.3	15	45	-	30	20
3	15	52.2	45.0	37.3	17	40.3	12	66	25	-	19.8
	30	91.8	90.0	42.1	17	55.3	15	56	-	38	25
3.5	15	60.9	52.5	46.1	20.5	45.3	15	79	28.5	-	24.7
	30	107.1	105.0	45.0	20.5	55.3	20	61	-	40	25
4	15	69.6	60.0	48.6	22.5	50.3	20	87	34	-	24.6
	30	122.3	120.0	57.3	22.5	80.3	20	76	-	52	35

BEVEL GEARS
Pressure angle 20°
Type B
Ratio 1:2
Material:C45



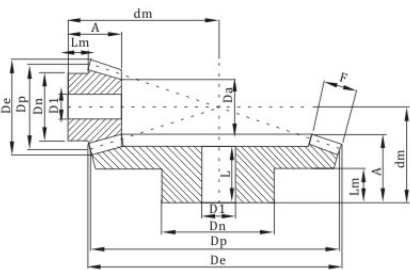
Spur Racks
European Standard Series

Bevel Gears
European Standard Series

BEVEL GEARS

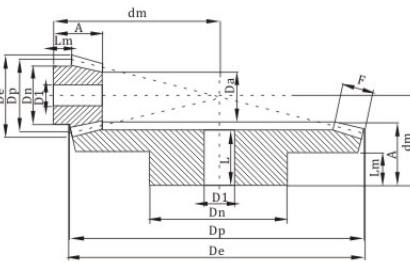
M	Z	De	Dp	A	F	Dn	D1	dm	Da	L	Dm
1	15	17.7	15.0	16.6	7.1	13.3	4	32	8	-	9.3
	45	45.3	45.0	17.1	7.1	25.3	8	22	-	-	10
1.5	15	26.5	22.5	22.6	10.5	19.3	8	46	14	-	11.7
	45	68.1	67.5	29.6	10.5	45.3	14	37	-	-	20
2	15	35.4	30.0	28.9	14	25.3	8	60	18	-	14.2
	45	90.8	90.0	32.1	14	45.3	15	42	-	-	20
2.5	15	44.2	37.5	34.6	18	32.3	12	73	22.5	-	15.9
	45	113.4	112.5	39.7	18	60.3	20	52	-	-	25
3	15	53	45.0	41.3	21	40.3	15	88	28.5	-	19.7
	45	136.1	135.0	47.2	21	60.3	20	62	-	-	30
3.5	15	61.9	52.5	49.6	23.5	45.3	15	105	33.5	-	25.1
	45	158.8	157.5	54.4	23.5	80.3	20	72	-	-	35
4	15	70.7	60.0	54.3	27.5	50.3	20	117	38	-	25.4
	45	181.5	180.0	57.0	27.5	80.3	22	77	-	-	35
4.5	15	79.5	67.5	55.2	28.5	55.3	20	128	44	-	24.8
	45	204.2	202.5	63.9	28.5	90.3	25	87	-	-	40
5	15	88.4	75	65.3	33	60.3	20	145	47	-	30
	45	226.9	225.0	66.7	33	90.3	28	92	-	-	40

BEVEL GEARS
Pressure angle 20°
Type B
Ratio 1:3
Material:C45



M	Z	De	Dp	A	F	Dn	D1	dm	Da	L	Dm
1	15	17.8	15.0	17.2	9.3	13.3	4	38	8	-	7.7
	60	60.3	60.0	17.1	9.3	30.3	8	22	-	15	10
1.5	15	26.7	22.5	23.0	11	20.3	8	57	15	-	11.7
	60	90.4	90.0	34	11	50.3	15	42	-	31	25
2	15	35.6	30.0	31	16	25.3	8	75	20	-	14.4
	60	120.6	120.0	37.6	16	60.3	16	48	-	34	25
2.5	15	44.5	37.5	38.1	19	32.3	14	94	25	-	18.4
	60	150.7	150.0	44.8	19	60.3	20	58	-	40	30
3	15	53.3	45.0	48.1	23	40.3	15	115	30	-	24.5
	60	180.8	180.0	53.2	23	80.3	20	69	-	48	35
3.5	15	62.2	52.5	52.1	26	45.3	15	131	36	-	25.1
	60	211.0	210.0	60.4	26	90.3	25	79	-	54	40
4	15	71.1	60.0	55.1	30	50.3	20	145	37.5	-	23.8
	60	241.1	240.0	60.8	30	90.3	28	82	-	53	40
4.5	15	79.9	67.5	59.1	34	60.3	20	160	45.2	-	24.1
	60	271.2	270.0	68.2	34	100.3	30	92	-	61	40
5	15	88.8	75.0	68.1	38	70.3	20	180	50.1	-	29.4
	60	301.3	300.0	73.5	38	110.3	30	100	-	66	40

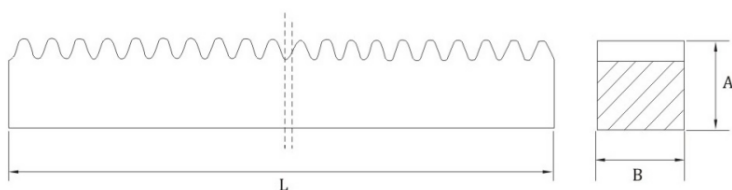
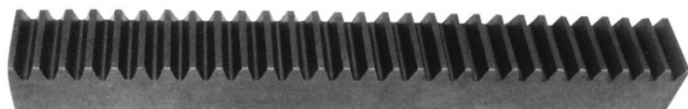
BEVEL GEARS
Pressure angle 20°
Type B
Ratio 1:4
Material:C45



Spur Racks European Standard Series

Racks According to DIN 782

Pressure angle 20°



Material: C45

Mod.	LENGTH			
	500	1000	2000	
	A × B	A × B	A × B	
1	15 × 15	15 × 15	15 × 15	
1.5	17 × 17	17 × 17	17 × 17	
2	20 × 20	20 × 20	20 × 20	
2.5	25 × 25	25 × 25	25 × 25	
3	30 × 30	30 × 30	30 × 30	
4	–	25 × 25	25 × 25	
4	–	30 × 30	30 × 30	
4	40 × 40	40 × 40	40 × 40	
5	50 × 50	50 × 50	50 × 50	
6	–	60 × 60	60 × 60	