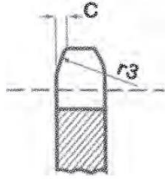


BS SPROCKETS - BOSSED

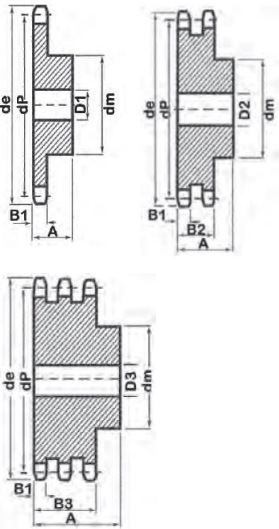


06B-1-2 SPROCKET		TEETH	de	dp	SIMPLEX				DUPLEX				
					dm	D1	A	App. Kg	dm	D1	A	App. Kg	
		8	28.6	24.9	15	8	20	0.03	-	-	-	-	
		9	31.5	27.9	18	8	20	0.04	18	8	25	0.09	
		10	34.5	30.8	20	8	20	0.06	20	8	25	0.11	
		11	37.5	33.8	22	8	25	0.09	22	10	30	0.13	
		12	40.5	36.8	25	8	25	0.1	25	10	30	0.16	
		13	43.5	39.8	28	8	25	0.11	28	10	30	0.2	
		14	46.5	42.8	31	8	25	0.12	31	10	30	0.25	
PINIONS		mm	16	52.5	48.8	37	10	28	0.18	37	12	30	0.34
TOOTH RADIUS r3			17	55.5	51.8	40	10	28	0.2	40	12	30	0.39
RADIUS WIDTH C			18	58.6	54.9	43	10	28	0.23	43	12	30	0.45
TOOTH WIDTH B1		5.3	19	61.6	57.9	45	10	28	0.25	46	12	30	0.52
TOOTH WIDTH b1			20	64.6	60.9	46	10	28	0.31	49	12	30	0.59
TOOTH WIDTH B2		15.4	21	67.6	63.9	48	12	28	0.36	52	16	30	0.68
			22	70.6	66.9	50	12	28	0.37	55	16	30	0.75
CHAIN		mm	23	73.7	70	52	12	28	0.39	58	16	30	0.8
PITCH		9.53	24	76.7	73	54	12	28	0.4	61	16	30	0.84
INSIDE		5.72	25	79.7	76	57	12	28	0.41	64	16	30	0.89
ROLLER Ø		6.35	26	82.7	79	60	12	28	0.42	67	16	30	0.91
		27	85.7	82	60	12	28	0.44	70	16	30	1	
		28	88.8	85.1	60	12	28	0.45	73	16	30	1.07	
		29	91.8	88.1	60	12	28	0.47	76	16	30	1.14	
		30	94.8	91.1	60	12	28	0.48	79	16	30	1.22	
		31	97.9	94.2	65	14	30	0.51	-	-	-	-	
		32	100.9	97.2	65	14	30	0.56	-	-	-	-	
		33	103.9	100	65	14	30	0.62	-	-	-	-	
		34	106.9	103	65	14	30	0.66	-	-	-	-	
		35	110	106	65	14	30	0.68	-	-	-	-	
		36	113	109	70	16	30	0.71	-	-	-	-	
		37	116	112	70	16	30	0.74	-	-	-	-	
		38	119	115	70	16	30	0.77	90	16	30	1.72	
		39	122.1	118	70	16	30	0.79	-	-	-	-	
		40	125.1	121	70	16	30	0.81	-	-	-	-	
45	140.2	137	75	16	30	0.91	90	19	35	2.35			
48	149.7	146	75	16	30	0.95	90	20	35	2.68			
57	176.6	173	75	19	30	1.27	90	20	35	3.47			
76	234.2	231	75	19	30	1.91	90	20	38	5.67			
95	291.8	288	75	19	30	2.61	95	25	38	8.64			
114	349.4	346	75	19	30	3.63	95	25	38	11.1			

08B-1-2-3 SPROCKET	TEETH	de	dp	SIMPLEX				DUPLEX				TRIPLEX				
				dm	D1	A	App Kg	dm	D1	A	App Kg	dm	D1	A	App Kg	
	8	38	33.18	20	10	25	0.13	-	-	-	-	-	-	-	-	-
	9	42	37.13	24	10	25	0.14	24	10	32	0.18	-	-	-	-	-
	10	45.9	41.1	26	10	25	0.15	28	10	32	0.22	-	-	-	-	-
	11	49.9	45.07	29	10	25	0.17	32	12	35	0.24	-	-	-	-	-
	12	43.9	49.07	33	10	28	0.24	35	12	35	0.26	-	-	-	-	-
	13	47.9	53.06	37	10	28	0.25	38	12	35	0.28	38	16	50	0.59	
	14	61.9	57.07	41	10	28	0.31	42	12	35	0.34	42	16	50	0.72	
	15	65.9	61.09	45	10	28	0.33	46	12	35	0.36	46	16	50	0.81	
	16	69.9	65.1	50	12	28	0.37	50	16	38	0.4	50	16	50	0.9	
	17	74	69.11	52	12	28	0.51	54	16	38	0.44	54	16	50	1.04	
	18	78	73.14	56	12	28	0.52	58	16	38	0.49	58	16	50	1.22	
	19	82	77.16	60	12	28	0.65	62	16	38	0.57	62	16	50	1.41	
	20	86	81.19	64	12	28	0.76	66	16	40	0.65	66	16	50	1.58	
	21	90.1	85.22	68	14	28	0.82	70	16	40	0.72	70	16	55	1.81	
	22	94.1	89.24	70	14	28	0.88	70	16	40	0.8	70	16	55	2.03	
	23	98.1	93.27	70	14	28	1.05	70	16	40	0.83	70	16	55	2.27	
	24	102.1	97.29	70	14	28	1.07	75	16	40	0.94	75	16	55	2.44	
	25	106.2	101.3	70	14	28	1.13	80	16	40	0.98	80	16	55	2.54	
	26	110.2	105.4	70	16	30	1.15	85	16	40	1.04	85	20	55	2.83	
	27	114.2	109.4	70	16	30	1.19	85	16	40	1.08	85	20	55	2.85	
	28	118.3	113.4	70	16	30	1.3	90	16	40	1.1	90	20	55	3.16	
	29	121	117.5	80	11	30	1.23	95	20	40	1.25	95	20	55	3.53	
	30	126.3	121.5	80	16	30	1.36	100	16	40	1.16	95	20	55	3.48	
	31	130.4	125.5	90	16	30	1.41	100	20	40	1.4	-	-	-	-	
	32	134.4	129.6	90	16	30	1.46	100	20	40	1.24	-	-	-	-	
	33	138.4	133.6	90	16	30	1.51	100	20	40	1.56	-	-	-	-	
	34	142.5	137.6	90	16	30	1.56	100	20	40	1.33	-	-	-	-	
	35	146.5	141.7	90	16	30	1.61	100	20	40	1.72	-	-	-	-	
	36	150.6	145.7	90	16	35	1.69	100	20	40	2.05	-	-	-	-	
	37	154.6	149.8	90	16	35	1.74	100	20	40	1.89	-	-	-	-	
	38	158.6	153.8	90	16	35	1.78	100	20	40	2.17	120	25	55	6.49	
	39	162.7	157.8	90	16	35	1.83	100	20	40	2.07	-	-	-	-	
	40	166.7	161.9	90	16	35	1.88	100	20	40	2.28	-	-	-	-	
	41	171	165.9	-	-	-	-	110	20	50	2.25	-	-	-	-	
	42	176.5	170	90	19	35	1.97	110	20	50	2.32	-	-	-	-	
	43	179	174	-	-	-	-	110	20	50	2.44	-	-	-	-	
	44	185	178	-	-	-	-	110	20	50	2.54	-	-	-	-	
	45	188.6	182.1	90	19	35	2.11	110	20	50	2.49	-	-	-	-	
	46	193	186.1	-	-	-	-	110	20	50	2.74	-	-	-	-	
	48	200.7	194.2	100	19	35	2.76	110	20	45	2.65	-	-	-	-	
	50	208.8	202.3	88	20	42	2.9	-	-	-	-	-	-	-	-	
	55	229	222.5	88	20	42	3.15	-	-	-	-	-	-	-	-	
	57	233.1	230.5	100	19	35	3.28	110	25	45	3.88	120	25	60	12.62	
	60	249.2	242.7	100	19	35	3.45	-	-	-	-	-	-	-	-	
	76	313.9	307.3	100	19	35	5.73	120	30	45	6.6	130	30	65	22.23	
	95	390.7	384.1	100	25	35	8.9	120	30	45	9.89	-	-	-	-	
	114	467.4	460.9	100	25	35	11.17	120	30	45	12.9	-	-	-	-	

PINIONS	mm
TOOTH RADIUS r3	
RADIUS WIDTH C	
TOOTH WIDTH B1	7.2
TOOTH WIDTH B2	21
TOOTH WIDTH B3	34.9

CHAIN	mm
PITCH	12.7
INSIDE	7.5
ROLLER Ø	8.51



10B-1-2-3 SPROCKET	TEETH	de	dp	SIMPLEX				DUPLEX				TRIPLEX					
				dm	D1	A	App Kg	dm	D1	A	App Kg	dm	D1	A	App Kg		
	8	48.4	41.48	25	10	25	0.09	-	-	-	-	-	-	-	-	-	-
	9	53.3	46.42	30	10	25	0.14	30	12	40	0.31	-	-	-	-	-	-
	10	58.3	51.37	35	10	25	0.23	35	12	40	0.39	-	-	-	-	-	-
	11	63.2	56.35	37	12	30	0.27	39	16	40	0.44	-	-	-	-	-	-
	12	68.2	61.34	42	12	30	0.32	44	16	40	0.57	-	-	-	-	-	-
	13	73.2	66.32	47	12	30	0.36	49	16	40	0.71	-	-	-	-	-	-
	14	78.2	71.34	52	12	30	0.45	54	16	40	0.84	54	16	55	-	-	-
	15	83.2	76.36	57	12	30	0.59	59	16	45	1.01	-	-	-	-	-	-
	16	88.3	81.37	60	12	30	0.68	64	16	45	1.19	-	-	-	-	-	-
	17	93.3	86.39	60	12	30	0.82	69	16	45	1.38	-	-	-	-	-	-
	18	98.3	91.42	70	14	30	0.91	74	16	45	1.62	74	46	60	-	-	-
	19	103.3	96.45	70	14	30	1.04	79	16	45	1.77	79	16	60	-	-	-
	20	108.4	101.5	75	14	30	1.13	84	16	45	1.93	-	-	-	-	-	-
	21	113.4	106.5	75	16	30	1.18	85	20	45	2.22	85	20	60	-	-	-
	22	118.4	111.6	80	16	30	1.27	90	20	45	2.53	90	20	60	-	-	-
	23	123.5	116.6	80	16	30	1.45	95	20	45	2.77	-	-	-	-	-	-
	24	128.5	121.6	80	16	30	1.5	100	20	45	2.95	-	-	-	-	-	-
	25	133.6	126.7	80	16	30	1.59	105	20	45	3.15	-	-	-	-	-	-
	26	138.6	131.7	85	20	35	1.63	110	20	45	3.42	-	-	-	-	-	-
	27	143.6	136.8	85	20	35	1.68	110	20	45	3.98	-	-	-	-	-	-
	28	148.7	141.8	90	20	35	1.72	115	20	45	4.2	-	-	-	-	-	-
	29	153.7	146.8	90	20	35	1.91	115	20	45	4.43	-	-	-	-	-	-
	30	158.8	151.9	90	20	35	2.04	120	20	45	4.66	-	-	-	-	-	-
	31	163.8	156.9	95	20	35	2.13	-	-	-	-	-	-	-	-	-	-
	32	168.9	162	95	20	35	2.27	-	-	-	-	-	-	-	-	-	-
	33	173.9	167	95	20	35	2.33	-	-	-	-	-	-	-	-	-	-
	34	178.9	172.1	95	20	35	2.36	-	-	-	-	-	-	-	-	-	-
	35	184	177.2	95	20	35	2.48	-	-	-	-	-	-	-	-	-	-
	36	189	182.2	100	20	35	2.56	-	-	-	-	-	-	-	-	-	-
	37	194.1	187.2	100	20	35	2.68	-	-	-	-	-	-	-	-	-	-
	38	199.1	192.2	100	20	35	2.72	120	20	45	7.67	120	25	60	-	-	-
	39	204.2	197.3	100	20	35	2.86	-	-	-	-	-	-	-	-	-	-
	40	209.2	250.2	100	20	35	2.95	120	20	45	7.92	-	-	-	-	-	-
	42	220.8	212.4	108	20	43	3.01	-	-	-	-	-	-	-	-	-	-
	45	236	227.6	108	20	43	3.73	120	20	45	9.21	-	-	-	-	-	-
	48	251.1	242.7	108	20	43	4.18	-	-	-	-	-	-	-	-	-	-
	50	261.2	252.8	108	20	43	4.4	-	-	-	-	-	-	-	-	-	-
	55	286.5	278.1	108	20	43	4.96	-	-	-	-	-	-	-	-	-	-
	57	296.6	288.2	108	20	43	5.27	100	30	56	15.1	-	-	-	-	-	-
	60	311.7	303.3	108	20	43	5.9	-	-	-	-	-	-	-	-	-	-
	76	392.5	384.2	90	24	50	11.03	100	30	63	26.3	-	-	-	-	-	-
	95	488.5	480.1	100	24	56	14.57	110	30	63	32.7	-	-	-	-	-	-
	114	584.5	576.1	100	25	56	20.61	125	30	70	49.3	-	-	-	-	-	-

PINIONS	
	mm
TOOTH RADIUS r3	
RADIUS WIDTH C	
TOOTH WIDTH B1	9.1
TOOTH WIDTH b1	
TOOTH WIDTH B2	25.5
TOOTH WIDTH B3	

CHAIN	
	mm
PITCH	5.88
INSIDE	9.65
ROLLER Ø	10.2

12B-1-2-3 SPROCKET		TEETH	de	dp	SIMPLEX				DUPLEX				TRIPLEX			
					dm	D1	A	App Kg	dm	D1	A	App Kg	dm	D1	A	App Kg
	8	58	49.8	31	12	30	0.38	-	-	-	-	-	-	-	-	
	9	63.9	55.7	37	12	30	0.48	37	16	45	0.75	-	-	-	-	
	10	69.8	61.6	42	12	30	0.58	42	16	45	0.9	-	-	-	-	
	11	75.8	67.6	46	16	35	0.53	47	16	50	1	47	20	70	1.26	
	12	81.8	73.6	52	16	35	0.67	53	16	50	1.23	-	-	-	-	
	13	87.8	79.6	58	16	35	0.75	59	16	50	1.41	59	20	70	1.77	
	14	93.8	85.6	64	16	35	0.91	65	20	50	1.68	-	-	-	-	
	15	99.8	91.6	70	16	35	1.14	71	20	50	1.95	71	20	70	2.45	
	16	105.8	97.7	75	16	35	1.27	77	20	50	2.27	77	20	70	2.97	
	17	111.9	104	80	16	35	1.46	83	20	50	2.63	83	20	70	3.49	
	18	117.9	110	80	16	35	1.69	89	20	50	3.18	89	20	70	4.02	
	19	123.9	116	80	16	35	1.78	94	20	50	3.5	95	20	70	4.54	
	20	130	122	80	16	35	2.1	100	20	50	3.72	100	20	70	5.09	
	21	136	128	90	20	40	2.27	100	20	50	4.31	100	20	70	5.67	
	22	142	134	90	20	40	2.38	100	20	50	4.77	100	20	70	6.14	
23	148.1	140	90	20	40	2.49	110	20	50	4.99	110	20	70	6.62		
24	154.1	146	90	20	40	2.62	110	20	50	5.45	110	20	70	7.15		
25	160.2	152	90	20	40	2.78	120	20	50	5.67	120	25	70	7.71		
26	166.2	158	95	20	40	2.89	120	20	50	6.13	-	-	-	-		
27	172.3	164	95	20	40	3.05	120	20	50	6.49	120	25	70	8.99		
28	178.3	170	95	20	40	3.12	120	20	50	6.81	-	-	-	-		
29	184.4	176	95	20	40	3.3	120	20	50	7.13	-	-	-	-		
30	190.4	182	95	20	40	3.44	120	20	50	7.49	120	25	70	10.53		
31	198.5	188	95	20	40	3.5	-	-	-	-	-	-	-	-		
32	202.5	194	95	20	40	3.75	-	-	-	-	-	-	-	-		
33	208.6	200	95	20	40	3.82	-	-	-	-	-	-	-	-		
34	214.6	207	95	20	40	3.99	-	-	-	-	-	-	-	-		
35	220.7	213	95	20	40	4.1	120	20	50	10.18	-	-	-	-		
36	226.8	219	100	25	40	4.35	120	25	50	12.31	-	-	-	-		
37	232.8	225	100	25	40	4.64	-	-	-	-	-	-	-	-		
38	238.9	230	100	25	40	4.92	120	25	50	12.99	130	25	70	20.57		
39	244.9	237	100	25	40	5.15	-	-	-	-	-	-	-	-		
40	251	243	100	25	40	5.22	-	-	-	-	-	-	-	-		
41	257	249	100	25	40	5.61	-	-	-	-	-	-	-	-		
42	265	255	100	25	60	5.78	-	-	-	-	-	-	-	-		
43	272	261	100	25	40	5.94	-	-	-	-	-	-	-	-		
44	276	267	100	25	40	6.18	-	-	-	-	-	-	-	-		
45	283.2	273	100	25	56	6.34	136	25	62	15.38	-	-	-	-		
48	301.4	291	118	25	60	7.18	-	-	-	-	-	-	-	-		
50	313.5	303	118	25	60	8.01	-	-	-	-	-	-	-	-		
55	343.8	334	118	25	60	9.9	-	-	-	-	-	-	-	-		
57	355.9	346	100	30	56	10.1	120	30	63	25.34	140	40	70	33.73		
60	374.1	364	118	25	60	11.44	-	-	-	-	-	-	-	-		
76	471.1	461	100	30	56	17.26	135	30	63	25.63	160	40	75	37.19		
95	586.2	576	100	30	65	23.83	135	30	70	39.24	-	-	-	-		
114	700.9	691	100	30	65	33.93	135	30	70	-	-	-	-	-		

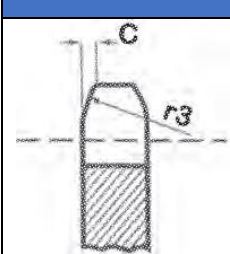
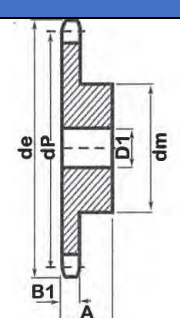
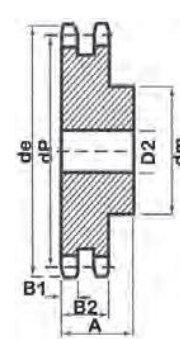
PINIONS		mm
TOOTH RADIUS r3		
RADIUS WIDTH C		
TOOTH WIDTH B1	11.1	
TOOTH WIDTH b1		
TOOTH WIDTH B2	30.3	
TOOTH WIDTH B3	49.8	
CHAIN		mm
PITCH	19.05	
INSIDE	11.68	
ROLLER Ø	12.07	

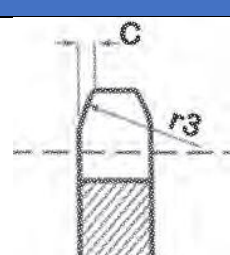
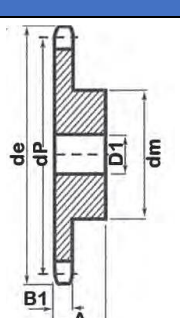
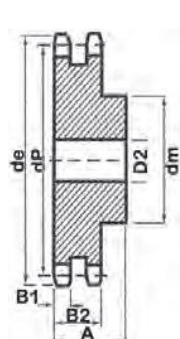
Every effort has been taken to ensure that the data listed in this catalogue is correct.
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16B-1-2-3 SPROCKET		TEETH	de	dp	SIMPLEX				DUPLEX				TRIPLEX			
					dm	D1	A	App Kg	dm	D1	A	App Kg	dm	D1	A	App Kg
	8	77.9	66.37	42	16	35	0.5	-	-	-	-	-	-	-	-	
	9	85.8	74.27	50	16	35	1.2	50	20	65	1.61	-	-	-	-	
	10	93.8	82.19	55	16	35	1.35	56	20	65	1.72	56	20	95	1.21	
	11	101.7	90.14	61	16	40	1.45	64	20	70	1.82	-	-	-	-	
	12	109.7	98.14	69	16	40	1.82	72	20	70	2.36	-	-	-	-	
	13	117.7	106.1	78	16	40	1.94	80	20	70	2.95	80	25	100	4.13	
	14	125.7	114.2	84	16	40	2.09	88	20	70	3.5	-	-	-	-	
	15	133.7	122.2	92	16	40	2.59	96	20	70	4.18	96	25	100	5.54	
	16	141.8	130.2	100	20	45	3	104	25	70	5.22	-	-	-	-	
	17	149.8	138.2	100	20	45	3.18	112	25	70	5.99	112	25	100	8.17	
	18	157.8	146.3	100	20	45	3.77	120	25	70	6.81	-	-	-	-	
	19	165.9	154.4	100	20	45	3.86	128	25	70	7.71	128	25	100	10.89	
	20	173.9	162.4	100	20	45	4.09	130	25	70	8.26	-	-	-	-	
	21	182	170.4	110	20	50	4.54	130	25	70	8.85	130	25	100	13.61	
22	190.1	178.5	110	20	50	5	130	25	70	9.53	-	-	-	-		
23	198.1	186.5	110	20	50	5.08	130	25	70	10.43	130	25	100	14.97		
24	206.2	194.6	110	20	50	5.54	130	25	70	11.44	-	-	-	-		
25	214.2	202.7	110	20	50	5.76	130	25	70	12.47	130	25	100	17.7		
26	222.3	210.7	120	20	50	7.03	130	25	70	13.62	-	-	-	-		
27	230.4	218.8	120	20	50	7.53	130	25	70	14.75	130	30	100	21.57		
28	238.4	226.9	120	20	50	7.58	130	25	70	15.89	-	-	-	-		
29	246.5	234.9	120	20	50	7.94	130	25	70	17.02	-	-	-	-		
30	254.6	243	120	20	50	8.26	130	25	70	18.16	130	30	100	26.33		
31	262.6	251.1	120	25	50	8.62	-	-	-	-	-	-	-	-		
32	270.7	259.1	120	25	50	8.98	-	-	-	-	-	-	-	-		
33	278.8	267.2	120	25	50	9.33	-	-	-	-	-	-	-	-		
34	286.9	275.3	120	25	50	9.69	-	-	-	-	-	-	-	-		
35	294.9	283.4	120	25	50	10.05	-	-	-	-	-	-	-	-		
36	303	291.4	120	25	50	10.41	-	-	-	-	-	-	-	-		
37	311.1	299.5	120	25	50	10.78	-	-	-	-	-	-	-	-		
38	319.2	307.6	120	25	50	11.12	140	25	70	29.6	140	30	100	41.45		
39	327.2	315.7	120	25	50	11.48	-	-	-	-	-	-	-	-		
40	335.3	323.4	120	25	50	11.83	-	-	-	-	-	-	-	-		
45	377.9	364.1	125	30	70	13.62	150	40	75	34.35	160	45	100	45		
57	474.9	461.1	125	30	70	22.16	170	40	90	38.18	165	45	100	51.35		
76	628.4	614.7	140	35	80	39.24	175	40	95	68.11	200	45	110	77.11		
95	782	768.2	140	40	80	57.12	-	-	-	-	-	-	-	-		
114	935.6	921.8	140	30	80	75	-	-	-	-	-	-	-	-		

PINIONS	mm
TOOTH RADIUS r3	
RADIUS WIDTH C	
TOOTH WIDTH B1	16.2
TOOTH WIDTH b1	
TOOTH WIDTH B2	47.7
TOOTH WIDTH B3	79.6

CHAIN	mm
PITCH	25.4
INSIDE	17
ROLLER Ø	15.88

20B-1-2 SPROCKET		TEETH	de	dp	SIMPLEX				DUPLEX			
					dm	D1	A	App Kg	dm	D1	A	App Kg
  	9	1.065	92.84	63	20	40	1.45	-	-	-	-	
	10	117	102.7	70	20	40	1.86	-	-	-	-	
	11	127	112.7	77	20	45	2.4	80	25	80	3.67	
	12	137	122.7	88	20	45	2.95	90	25	80	4.09	
	13	147.5	132.7	98	20	45	3	100	25	80	5.53	
	14	157.6	142.7	108	20	45	3.4	110	25	80	6.62	
	15	167.6	152.7	118	20	45	4.31	120	25	80	7.76	
	16	177.7	162.8	120	25	50	4.63	120	30	80	9.53	
	17	187.8	172.8	120	25	50	4.99	120	30	80	10.44	
	18	197.8	182.9	120	25	50	5.44	120	30	80	12.25	
	19	207.9	192.9	120	25	50	5.9	120	30	80	12.92	
	20	217.9	203	120	25	50	6.35	120	30	80	14.97	
	21	228	213	140	30	55	7.03	140	30	80	16.55	
	22	238.1	223.1	140	30	55	7.71	140	30	80	17.69	
	23	248.2	233.2	140	30	55	8.16	140	30	80	19.06	
	24	258.3	243.2	140	30	55	8.62	140	30	80	20.4	
	25	268.4	253.3	140	30	55	9.07	140	30	80	21.77	
	26	278.4	263.4	150	30	55	9.53	150	30	80	23.12	
	27	288.5	273.5	150	30	55	10.43	150	30	80	24.97	
	28	299	283.6	150	30	55	11.34	150	30	80	25.84	
	29	308.8	293.6	150	30	55	11.24	150	30	80	27.2	
	30	319	303.8	150	30	55	12.02	150	30	80	28.56	

24B-1-2 SPROCKET		TEETH	de	dp	SIMPLEX				DUPLEX			
					dm	D1	A	App Kg	dm	D1	A	App Kg
  	9	125	111.4	70	25	95	2.02	-	-	-	-	
	10	137	123.3	80	25	95	2.61	-	-	-	-	
	11	149	135.2	90	25	100	3.77	90	25	100	6.5	
	12	161	147.2	102	25	100	4.77	102	25	100	7.91	
	13	137	159.2	114	25	100	5.91	114	25	100	9.92	
	14	185	171.2	128	25	100	6.68	128	25	100	11.98	
	15	197	183.3	132	25	100	7.49	132	25	100	14.13	
	16	209	195.3	136	30	100	9.08	136	30	100	16.35	
	17	221	207.3	136	30	100	9.76	136	30	100	17.85	
	18	233	219.4	160	30	100	10.49	160	30	100	20.35	
	19	245.5	231.5	160	30	100	11.21	160	30	100	22.56	
	20	257.5	243.6	160	30	100	12.26	160	30	100	24.78	
	21	270.5	255.7	160	30	100	13.38	160	30	100	26.99	
	22	282.5	267.7	160	30	100	13.67	160	30	100	29.74	
	23	294.5	279.8	160	30	100	14.74	160	30	100	31.16	
	24	307	292	160	30	100	15.82	160	30	100	33.27	
	25	319	304	160	30	100	16.38	160	30	100	35.39	
	26	331	317	160	30	100	17.64	160	30	100	37.5	
	27	343	328	160	30	100	18.56	160	30	100	39.61	
	28	355	340	160	30	100	19.47	160	30	100	41.73	
	29	367	352	160	30	100	20.39	160	30	100	43.84	
	30	379	365	160	30	100	21.3	160	30	100	45.95	

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