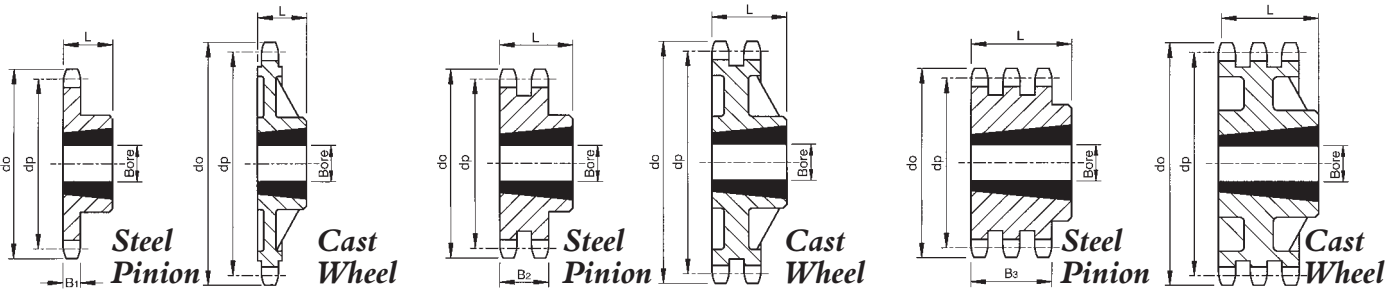


# Taper Bore Sprockets for $3/8''$ Pitch British Standard Chains Type 06B

Conforming to ISO Std 606



## Simplex Sprockets Chain No. 06B-1

## Duplex Sprockets Chain No. 06B-2

## Triplex Sprockets Chain No. 06B-3

Cat. No.	No. Teeth	Pitch Circle Ø dp	Outside Ø do	Taper Bore Bush			Length L	Approx. Weight kg
				Bush No.	Min. Bore	Max. Bore		

### Simplex Chain No. 06B-1 - Tooth Width $B_1$ - 5.3mm

TB06B1-17	17	51.83	55.3	1008	9	25	22	0.13
TB06B1-18	18	54.85	58.3	1008	9	25	22	0.15
TB06B1-19	19	57.87	61.3	1008	9	25	22	0.17
TB06B1-20	20	60.89	64.3	1008	9	25	22	0.19
TB06B1-21	21	63.91	68.0	1008	9	25	22	0.20
TB06B1-22	22	66.93	71.0	1108	9	28	22	0.20
TB06B1-23	23	69.95	73.5	1210	11	32	25	0.32
TB06B1-24	24	72.97	77.0	1210	11	32	25	0.33
TB06B1-25	25	76.00	80.0	1210	11	32	25	0.35
TB06B1-26	26	79.02	83.0	1210	11	32	25	0.37
TB06B1-27	27	82.05	86.0	1210	11	32	25	0.39
TB06B1-28	28	85.07	89.0	1210	11	32	25	0.41
TB06B1-30	30	91.12	94.7	1210	11	32	25	0.44
TB06B1-38	38	115.35	119.5	1210	11	32	25	0.85
TB06B1-45	45	136.55	140.7	1210	11	32	25	1.15
TB06B1-57	57	172.91	176.9	1210	11	32	25	1.20
TB06B1-76	76	230.49	234.9	1210	11	32	25	1.88
<b>Cast Iron Wheels</b>								
TB06B1-57	57	172.91	177.0	1210	11	32	25	1.5
TB06B1-76	76	230.49	234.9	1210	11	32	25	2.0
TB06B1-95	95	288.08	292.5	1210	11	32	25	3.2
TB06B1-114	114	345.68	349.5	1215	11	32	38	4.0

### Duplex Chain No. 06B-2 - Tooth Width $B_2$ - 15.4mm

TB06B2-17	17	51.83	55.3	1008	9	25	22	0.15
TB06B2-18	18	54.85	58.3	1008	9	25	22	0.17
TB06B2-19	19	57.87	61.3	1008	9	25	22	0.19
TB06B2-20	20	60.89	64.3	1008	9	25	22	0.22
TB06B2-21	21	63.91	68.0	1008	9	25	22	0.25
TB06B2-22	22	66.93	71.0	1108	9	28	22	0.25
TB06B2-23	23	69.95	73.5	1210	11	32	25	0.27
TB06B2-24	24	72.97	77.0	1210	11	32	25	0.34
TB06B2-25	25	76.00	80.0	1210	11	32	25	0.39
TB06B2-26	26	79.02	83.0	1210	11	32	25	0.43
TB06B2-27	27	82.05	86.0	1210	11	32	25	0.47
TB06B2-28	28	85.07	89.0	1210	11	32	25	0.52
TB06B2-30	30	91.12	94.7	1210	11	32	25	0.61
TB06B2-38	38	115.35	119.5	1610	14	42	25	1.00
TB06B2-45	45	136.55	140.7	1610	14	42	25	1.76
TB06B2-57	57	172.91	176.9	1610	14	42	25	2.51
TB06B2-76	76	230.49	234.9	1610	14	42	25	4.55
<b>Cast Iron Wheels</b>								
TB06B2-57	57	172.91	177.0	1610	14	42	25	1.8
TB06B2-76	76	230.49	234.9	1610	14	42	25	2.3
TB06B2-95	95	288.08	292.5	1610	14	42	25	4.6
TB06B2-114	114	345.68	349.5	1615	14	42	38	5.3

### Triplex Chain No. 06B-3 - Tooth Width $B_3$ - 25.6mm

TB06B3-17	17	51.83	55.3	1008	9	25	26	0.20
TB06B3-19	19	57.87	61.3	1008	9	25	26	0.25
TB06B3-21	21	63.91	68.0	1008	9	25	26	0.35
TB06B3-23	23	69.95	73.5	1210	11	32	26	0.25
TB06B3-25	25	76.00	80.0	1210	11	32	26	0.30
TB06B3-30	30	91.12	94.7	1615	14	42	38	1.50
TB06B3-38	38	115.35	119.5	1615	14	42	38	1.50
<b>Cast Iron Wheels</b>								
TB06B3-57	57	172.91	177.0	1615	14	42	38	3.0
TB06B3-76	76	230.49	234.9	1615	14	42	38	3.5

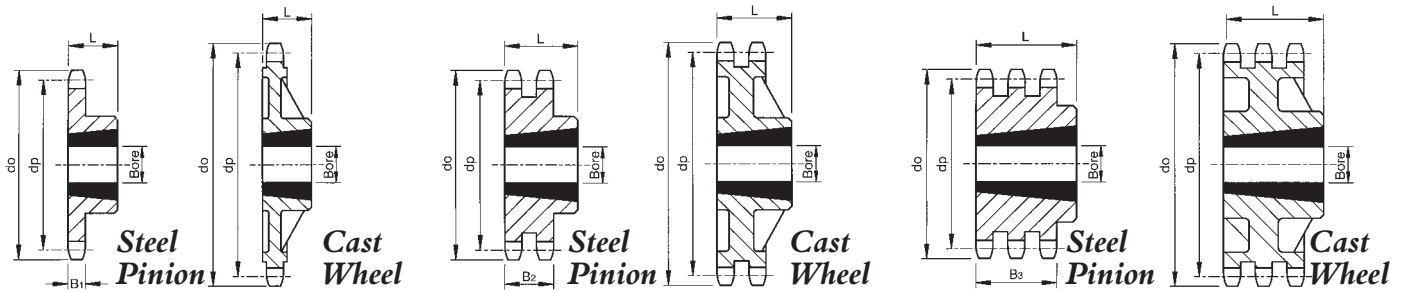
All dimensions in mm. Details Taper Bore Bushes refer pp 38/39.

## Additional Facilities

All Steel Taper Bore Sprockets are suitable for Induction Hardening of teeth. Sprockets with teeth hardened to 45 Rc can be supplied on 48-hours lead time.

# Taper Bore Sprockets for 1/2" Pitch British Standard Chains Type 08B

Conforming to ISO Std 606



**Simplex Sprockets**  
Chain No. 08B-1

**Duplex Sprockets**  
Chain No. 08B-2

**Triplex Sprockets**  
Chain No. 08B-3

Cat. No.	No. Teeth	Pitch Circle Ø dp	Outside Ø do	Taper Bore Bush			Length L	Approx. Weight kg
				Bush No.	Min. Bore	Max. Bore		

**Simplex Chain No. 08B-1 - Tooth Width B<sub>1</sub> - 7.2mm**

TB08B1-15	15	61.09	65.5	1008	9	25	22	0.21
TB08B1-16	16	65.10	69.5	1108	9	28	22	0.23
TB08B1-17	17	69.11	73.6	1210	11	32	25	0.24
TB08B1-18	18	73.14	77.8	1210	11	32	25	0.29
TB08B1-19	19	77.16	81.7	1210	11	32	25	0.35
TB08B1-20	20	81.19	85.8	1610	14	42	25	0.40
TB08B1-21	21	85.22	89.7	1610	14	42	25	0.40
TB08B1-22	22	89.24	93.8	1610	14	42	25	0.50
TB08B1-23	23	93.27	98.2	1610	14	42	25	0.54
TB08B1-24	24	97.29	101.8	1610	14	42	25	0.57
TB08B1-25	25	101.33	105.8	1610	14	42	25	0.61
TB08B1-26	26	105.36	110.0	1610	14	42	25	0.65
TB08B1-27	27	109.40	114.0	1610	14	42	25	0.69
TB08B1-28	28	113.42	118.0	2012	14	50	32	0.95
TB08B1-30	30	121.50	126.1	2012	14	50	32	1.00
TB08B1-38	38	153.80	158.6	2012	14	50	32	1.68
TB08B1-45	45	182.07	188.0	2012	14	50	32	2.07
TB08B1-57	57	230.54	236.4	2012	14	50	32	2.70
<b>Cast Iron Wheels</b>								
TB08B1-57	57	230.54	235.7	2012	14	50	32	2.5
TB08B1-76	76	307.33	312.4	2012	14	50	32	3.7
TB08B1-95	95	384.11	389.4	2012	14	50	32	5.1
TB08B1-114	114	460.90	466.9	2517	19	65	45	7.1

**Duplex Chain No. 08B-2 - Tooth Width B<sub>2</sub> - 21.0mm**

TB08B2-15	15	61.09	65.5	1008	9	25	22	0.21
TB08B2-16	16	65.10	69.5	1108	9	28	22	0.25
TB08B2-17	17	69.11	73.6	1210	11	32	25	0.29
TB08B2-18	18	73.14	77.8	1210	11	32	25	0.35
TB08B2-19	19	77.16	81.7	1210	11	32	25	0.41
TB08B2-20	20	81.19	85.8	1610	14	42	25	0.37
TB08B2-21	21	85.22	89.7	1610	14	42	25	0.43
TB08B2-22	22	89.24	93.8	1610	14	42	25	0.51
TB08B2-23	23	93.27	98.2	1610	14	42	25	0.56
TB08B2-24	24	97.29	101.8	1610	14	42	25	0.65
TB08B2-25	25	101.33	105.8	2012	14	50	32	0.75
TB08B2-26	26	105.36	110.0	2012	14	50	32	0.85
TB08B2-27	27	109.40	114.0	2012	14	50	32	0.95
TB08B2-28	28	113.42	118.0	2012	14	50	32	1.05
TB08B2-30	30	121.50	126.1	2012	14	50	32	1.29
TB08B2-38	38	153.80	158.6	2012	14	50	32	2.57
TB08B2-45	45	182.07	188.0	2012	14	50	32	3.36
<b>Cast Iron Wheels</b>								
TB08B2-57	57	230.54	235.7	2012	14	50	32	3.3
TB08B2-76	76	307.33	312.4	2012	14	50	32	4.9
TB08B2-95	95	384.11	389.4	2012	14	50	32	7.5
TB08B2-114	114	460.90	466.9	2517	19	65	45	9.5

**Triplex Chain No. 08B-3 - Tooth Width B<sub>3</sub> - 34.9mm**

TB08B3-15	15	61.09	65.5	1008	9	25	35	0.42
TB08B3-17	17	69.11	73.6	1210	11	32	35	0.55
TB08B3-19	19	77.16	81.7	1210	11	32	35	0.75
TB08B3-21	21	85.22	89.7	1610	14	42	35	0.90
TB08B3-23	23	93.27	98.2	1610	14	42	35	1.13
TB08B3-25	25	101.33	105.8	2012	14	50	35	1.45
TB08B3-27	27	109.40	114.0	2012	14	50	35	1.80
TB08B3-30	30	121.50	126.1	2012	14	50	35	2.40
TB08B3-38	38	153.80	158.6	2012	14	50	35	4.87

All dimensions in mm. Details Taper Bore Bushes refer pp 38/39.

**Additional Facilities**

All Steel Taper Bore Sprockets are suitable for Induction Hardening of teeth. Sprockets with teeth hardened to 45 Rc can be supplied on 48-hours lead time.

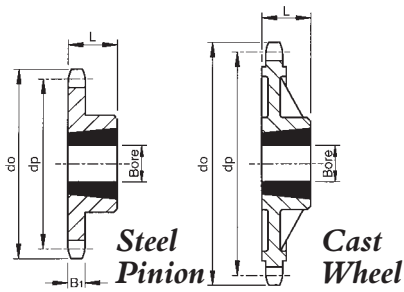
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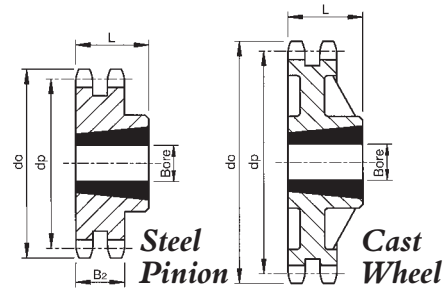
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# Taper Bore Sprockets for $5/8''$ Pitch British Standard Chains Type 10B

Conforming to ISO Std 606



**Simplex Sprockets**  
Chain No. 10B-1



**Duplex Sprockets**  
Chain No. 10B-2

Cat. No.	No. Teeth	Pitch Circle Ø dp	Outside Ø do	Taper Bore Bush			Length L	Approx. Weight kg
				Bush No.	Min. Bore	Max. Bore		

## Simplex Chain No. 10B-1 - Tooth Width B<sub>1</sub> -

TB10B1-13	13	66.32	73.0	1008	9	25	22	0.27
TB10B1-14	14	71.34	78.0	1108	9	28	22	0.28
TB10B1-15	15	76.36	83.0	1210	11	32	25	0.38
TB10B1-16	16	81.37	88.0	1610	14	42	25	0.37
TB10B1-17	17	86.39	93.0	1610	14	42	25	0.44
TB10B1-18	18	91.42	98.3	1610	14	42	25	0.52
TB10B1-19	19	96.45	103.3	1610	14	42	25	0.61
TB10B1-20	20	101.49	108.4	1610	14	42	25	0.65
TB10B1-21	21	106.52	113.4	1610	14	42	25	0.72
TB10B1-22	22	111.55	118.0	1610	14	42	25	0.79
TB10B1-23	23	116.58	123.4	1610	14	42	25	0.85
TB10B1-24	24	121.62	128.3	1610	14	42	25	1.06
TB10B1-25	25	126.66	134.0	2012	14	50	32	1.14
TB10B1-26	26	131.70	139.0	2012	14	50	32	1.21
TB10B1-27	27	136.75	144.0	2012	14	50	32	1.28
TB10B1-28	28	141.78	148.7	2012	14	50	32	1.36
TB10B1-30	30	151.87	158.8	2012	14	50	32	1.54
TB10B1-38	38	192.24	199.2	2012	14	50	32	2.52
TB10B1-45	45	227.58	235.0	2012	14	50	32	3.20
TB10B1-57	57	288.18	296.0	2012	14	50	32	4.92

## Cast Iron Wheels

TB10B1-57	57	288.18	296.0	2012	14	50	32	3.5
TB10B1-76	76	384.16	392.1	2012	14	50	32	5.4
TB10B1-95	95	480.14	488.5	2517	19	65	45	8.8
TB10B1-114	114	576.13	584.1	2517	19	65	45	14.0

## Duplex Chain No. 10B-2 - Tooth Width B<sub>2</sub> - 25.6mm

TB10B2-15	15	76.36	83.0	1210	11	32	26	0.32
TB10B2-16	16	81.37	88.0	1610	14	42	26	0.32
TB10B2-17	17	86.38	93.0	1610	14	42	26	0.41
TB10B2-18	18	91.42	98.3	1610	14	42	26	0.50
TB10B2-19	19	96.45	103.3	1610	14	42	26	0.64
TB10B2-20	20	101.49	108.4	1610	14	42	26	0.78
TB10B2-21	21	106.52	113.4	1610	14	42	26	0.93
TB10B2-22	22	111.55	118.0	1610	14	42	26	1.08
TB10B2-23	23	116.58	123.4	1610	14	42	26	1.23
TB10B2-24	24	121.62	128.3	2012	14	50	32	1.30
TB10B2-25	25	126.66	134.0	2012	14	50	32	1.45
TB10B2-26	26	131.70	139.0	2012	14	50	32	1.60
TB10B2-27	27	136.75	144.0	2012	14	50	32	1.76
TB10B2-28	28	141.78	148.7	2012	14	50	32	1.94
TB10B2-30	30	151.87	158.8	2012	14	50	32	2.30
TB10B2-38	38	192.24	199.2	2517	19	65	45	4.85

All dimensions in mm. Details Taper Bore Bushes refer pp 38/39.

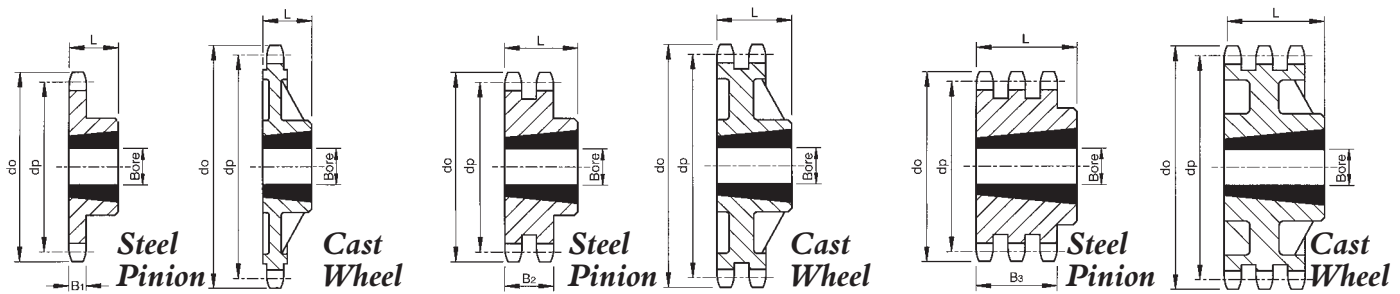
## Additional Facilities

All Steel Taper Bore Sprockets are suitable for Induction Hardening of teeth. Sprockets with teeth hardened to 45 Rc can be supplied on 48-hours lead time.

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# Taper Bore Sprockets for $3/4''$ Pitch British Standard Chains Type 12B

Conforming to ISO Std 606



## Simplex Sprockets

Chain No. 12B-1

## Duplex Sprockets

Chain No. 12B-2

## Triplex Sprockets

Chain No. 12B-3

Cat. No.	No. Teeth	Pitch Circle Ø dp	Outside Ø do	Taper Bore Bush			Length L	Approx. Weight kg
				Bush No.	Min. Bore	Max. Bore		

### Simplex Chain No. 12B-1 - Tooth Width $B_1$ - 11.1mm

TB12B1-13	13	79.59	87.5	1210	11	32	25	0.44
TB12B1-14	14	85.61	93.6	1610	14	42	25	0.45
TB12B1-15	15	91.63	99.8	1610	14	42	25	0.53
TB12B1-16	16	97.65	105.5	1610	14	42	25	0.65
TB12B1-17	17	103.67	111.5	1610	14	42	25	0.75
TB12B1-18	18	109.71	118.0	2012	14	50	32	0.96
TB12B1-19	19	115.75	124.2	2012	14	50	32	1.05
TB12B1-20	20	121.78	129.7	2012	14	50	32	1.15
TB12B1-21	21	127.82	136.0	2517	19	65	45	1.45
TB12B1-22	22	133.86	141.8	2517	19	65	45	1.57
TB12B1-23	23	139.90	149.0	2517	19	65	45	1.91
TB12B1-24	24	145.94	153.9	2517	19	65	45	2.02
TB12B1-25	25	152.00	160.0	2517	19	65	45	2.14
TB12B1-26	26	158.04	165.9	2517	19	65	45	2.26
TB12B1-27	27	164.09	172.3	2517	19	65	45	2.40
TB12B1-28	28	170.13	178.0	2517	19	65	45	2.58
TB12B1-30	30	182.25	190.5	2517	19	65	45	2.83
TB12B1-38	38	230.69	239.0	2517	19	65	45	4.77
TB12B1-45	45	273.10	282.5	2517	19	65	45	6.00
TB12B1-57	57	345.81	355.4	2517	19	65	45	8.33
<b>Cast Iron Wheels</b>								
TB12B1-57	57	345.81	354.0	2517	19	65	45	6.0
TB12B1-76	76	460.99	469.9	2517	19	65	45	8.1
TB12B1-95	95	576.17	585.1	2517	19	65	45	12.0
TB12B1-114	114	691.36	700.6	2525	19	65	63	22.5

### Duplex Chain No. 12B-2 - Tooth Width $B_2$ - 30.3mm

TB12B2-15	15	91.63	99.8	1610	14	42	30	0.68
TB12B2-16	16	97.65	105.5	1610	14	42	30	0.88
TB12B2-17	17	103.67	111.5	1610	14	42	30	1.07
TB12B2-18	18	109.71	118.0	2012	14	50	32	1.05
TB12B2-19	19	115.75	124.2	2012	14	50	32	1.29
TB12B2-20	20	121.78	129.7	2517	19	65	45	1.52
TB12B2-21	21	127.82	136.0	2517	19	65	45	1.76
TB12B2-22	22	133.86	141.8	2517	19	65	45	2.02
TB12B2-23	23	139.90	149.0	2517	19	65	45	2.32
TB12B2-24	24	145.94	153.9	2517	19	65	45	2.62
TB12B2-25	25	152.00	160.0	2517	19	65	45	2.94
TB12B2-26	26	158.04	165.9	2517	19	65	45	3.26
TB12B2-27	27	164.09	172.3	2517	19	65	45	3.60
TB12B2-28	28	170.13	178.0	2517	19	65	45	3.96
TB12B2-30	30	182.25	190.5	2517	19	65	45	4.71
TB12B2-38	38	230.69	239.0	3020	25	75	51	8.63
<b>Cast Iron Wheels</b>								
TB12B2-45	45	273.10	282.5	3020	25	75	51	7.6
TB12B2-57	57	345.81	354.0	3020	25	75	51	9.1
TB12B2-76	76	460.99	469.9	3020	25	75	51	14.2
TB12B2-95	95	576.17	585.1	3020	25	75	51	16.1
TB12B2-114	114	691.36	700.6	3030	25	75	76	24.0

### Triplex Chain No. 12B-3 - Tooth Width $B_3$ - 49.8mm

TB12B3-15	15	91.63	99.8	1615	14	42	50	1.02
TB12B3-17	17	103.67	111.5	2012	14	50	50	1.33
TB12B3-19	19	115.75	124.2	2012	14	50	50	2.03
TB12B3-21	21	127.82	136.0	2517	19	65	50	2.29
TB12B3-23	23	139.90	149.0	2517	19	65	50	3.16
TB12B3-25	25	152.00	160.0	2517	19	65	50	4.06
TB12B3-27	27	164.09	172.3	3020	25	75	51	3.94
TB12B3-30	30	182.25	190.5	3020	25	75	51	5.67
TB12B3-38	38	230.69	239.0	3020	25	75	51	12.85
TB12B3-45	45	273.10	282.5	3020	25	75	51	18.00
<b>Cast Iron Wheels</b>								
TB12B3-45	45	273.10	282.5	3020	25	75	51	10.5
TB12B3-57	57	345.81	354.0	3020	25	75	51	13.4
TB12B3-76	76	460.99	469.9	3020	25	75	51	19.5
TB12B3-95	95	576.17	585.1	3030	25	75	76	30.0
TB12B3-114	114	691.36	700.6	3030	25	75	76	44.0

All dimensions in mm. Details Taper Bore Bushes refer pp 38/39.

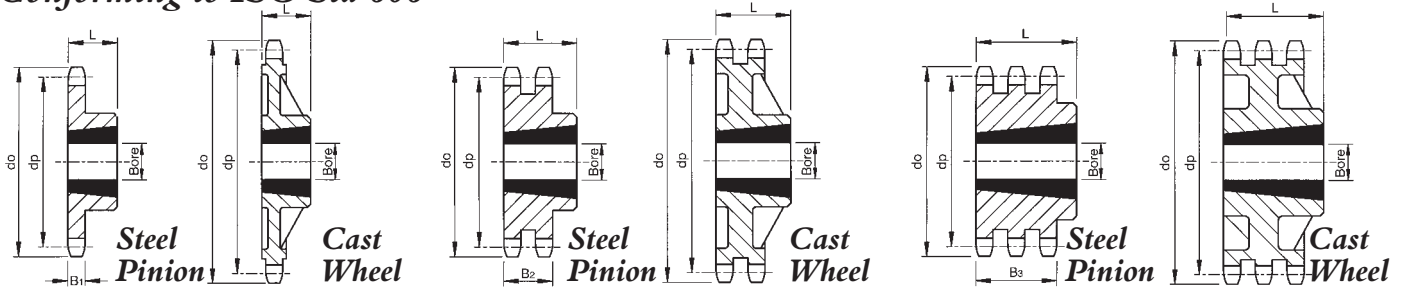
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# Taper Bore Sprockets for 1" Pitch British Standard Chains Type 16B

Conforming to ISO Std 606



## Simplex Sprockets

Chain No. 16B-1

## Duplex Sprockets

Chain No. 16B-2

## Triplex Sprockets

Chain No. 16B-3

Cat. No.	No. Teeth	Pitch Circle Ø dp	Outside Ø do	Taper Bore Bush			Length L	Approx. Weight kg
				Bush No.	Min. Bore	Max. Bore		

### Simplex Chain No. 16B-1 - Tooth Width B<sub>1</sub> - 16.2mm

TB16B1-13	13	106.12	117.0	1610	14	42	25	0.7
TB16B1-14	14	114.15	125.0	1610	14	42	25	0.9
TB16B1-15	15	122.17	133.0	1610	14	42	25	1.1
TB16B1-16	16	130.20	141.0	2012	14	50	32	1.7
TB16B1-17	17	138.22	149.0	2012	14	50	32	1.8
TB16B1-18	18	146.28	157.0	2517	19	65	45	2.3
TB16B1-19	19	154.33	165.2	2517	19	65	45	2.5
TB16B1-20	20	162.38	173.2	2517	19	65	45	2.7
TB16B1-21	21	170.43	181.2	2517	19	65	45	3.0
TB16B1-22	22	178.48	189.3	2517	19	65	45	3.2
TB16B1-23	23	186.53	197.5	2517	19	65	45	3.4
TB16B1-24	24	194.59	205.5	2517	19	65	45	3.8
TB16B1-25	25	202.66	213.5	2517	19	65	45	4.1
TB16B1-26	26	210.72	221.6	2517	19	65	45	4.5
TB16B1-27	27	218.79	229.6	2517	19	65	45	4.8
TB16B1-28	28	226.85	237.7	2517	19	65	45	5.4
TB16B1-30	30	243.00	254.0	3020	25	75	51	7.9
TB16B1-38	38	307.59	320.7	3020	25	75	51	8.5
TB16B1-45	45	364.13	377.0	3020	25	75	51	10.7

#### Cast Iron Wheels

TB16B1-57	57	461.08	474.0	3020	25	75	51	12.0
TB16B1-76	76	614.65	627.0	3020	25	75	51	18.0
TB16B1-95	95	768.22	781.0	3020	25	75	51	28.0
TB16B1-114	114	921.81	933.0	3030	25	75	76	40.0

### Duplex Chain No. 16B-2 - Tooth With B<sub>2</sub> - 47.7mm

TB16B2-15	15	122.17	133.0	2012	14	50	48	2.1
TB16B2-16	16	130.20	141.0	2517	19	65	48	2.1
TB16B2-17	17	138.22	149.0	2517	19	65	48	2.5
TB16B2-18	18	146.28	157.0	2517	19	65	48	3.1
TB16B2-19	19	154.33	165.2	2517	19	65	48	3.8
TB16B2-20	20	162.38	173.2	2517	19	65	48	4.5
TB16B2-21	21	170.43	181.2	3020	25	75	51	4.2
TB16B2-22	22	178.48	189.3	3020	25	75	51	5.0
TB16B2-23	23	186.53	197.5	3020	25	75	51	5.8
TB16B2-24	24	194.59	205.5	3020	25	75	51	6.7
TB16B2-25	25	202.66	213.5	3020	25	75	51	7.6
TB16B2-26	26	210.72	221.6	3020	25	75	51	8.3
TB16B2-27	27	218.79	229.6	3020	25	75	51	9.0
TB16B2-28	28	226.85	237.7	3020	25	75	51	9.5
TB16B2-30	30	243.00	254.0	3020	25	75	51	10.0
TB16B2-38	38	307.59	320.7	3020	25	75	51	12.0
TB16B2-45	45	364.13	377.1	3020	25	75	51	35.0
TB16B2-57	57	461.07	474.0	3525	32	90	65	60.0

#### Cast Iron Wheels

TB16B2-45	45	364.13	377.0	3020	25	75	51	15.0
TB16B2-57	57	461.08	474.0	3525	32	90	65	26.2
TB16B2-76	76	614.65	627.0	3525	32	90	65	40.5
TB16B2-95	95	768.22	781.0	3525	32	90	65	55.0
TB16B2-114	114	921.81	933.0	4040	40	100	102	65.0

### Triplex Chain No. 16B-3 - Tooth With B<sub>3</sub> - 79.6mm

TB16B3-17	17	138.22	149.0	2517	19	65	80	4.2
TB16B3-19	19	154.33	165.2	3020	25	75	80	3.6
TB16B3-21	21	170.43	181.2	3020	25	75	80	6.1
TB16B3-23	23	186.53	197.5	3525	32	90	80	7.0
TB16B3-25	25	202.66	213.5	3525	32	90	80	9.5
TB16B3-27	27	218.79	229.6	3525	32	90	80	12.5
TB16B3-30	30	243.00	254.0	3525	32	90	80	18.0
TB16B3-38	38	307.59	320.0	3525	32	90	80	23.0
TB16B3-45	45	364.13	377.1	4030	40	100	80	53.0
TB16B3-57	57	461.07	474.0	4030	40	100	80	90.0
TB16B3-76	76	614.65	627.0	4030	40	100	80	170.5

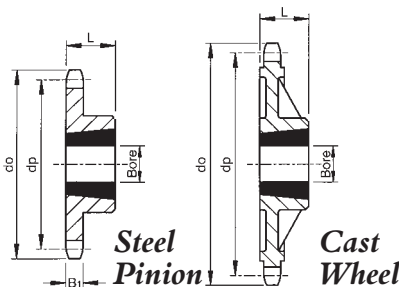
#### Cast Iron Wheels

TB16B3-45	45	364.13	377.0	4030	40	100	80	32.0
TB16B3-57	57	461.08	474.0	4030	40	100	80	40.0
TB16B3-76	76	614.65	627.0	4030	40	100	80	58.0
TB16B3-95	95	768.22	781.0	4030	40	100	80	85.0
TB16B3-114	114	921.81	933.0	4545	55	110	114	90.0

All dimensions in mm. Details Taper Bore Bushes refer pp 38/39.

# Taper Bore Sprockets for 1<sup>1</sup>/<sub>4</sub>" Pitch British Standard Chains Type 20B

Conforming to ISO Std 606



Simplex Sprockets  
Chain No. 20B-1

Cat. No.	No. Teeth	Pitch Circle Ø dp	Outside Ø do	Taper Bore Bush			Length L	Approx. Weight kg
				Bush No.	Min. Bore	Max. Bore		

## Simplex Chain No. 20B-1 - Tooth Width B<sub>1</sub> - 18.5mm

TB20B1-13	13	132.65	147.8	2012	14	50	32	1.53
TB20B1-14	14	142.68	157.8	2517	19	65	45	1.83
TB20B1-15	15	152.72	167.9	2517	19	65	45	2.37
TB20B1-16	16	162.75	177.9	2517	19	65	45	2.72
TB20B1-17	17	172.78	187.9	2517	19	65	45	3.04
TB20B1-18	18	182.85	198.0	2517	19	65	45	3.46
TB20B1-19	19	192.91	207.1	2517	19	65	45	3.90
TB20B1-20	20	202.98	218.1	2517	19	65	45	4.30
TB20B1-21	21	213.04	228.2	2517	19	65	45	4.74
TB20B1-23	23	233.17	248.3	2517	19	65	45	5.72
TB20B1-25	25	253.33	268.5	2517	19	65	45	6.50
TB20B1-27	27	273.40	288.6	3020	25	75	51	9.00
TB20B1-30	30	303.75	318.9	3020	25	75	51	10.90
TB20B1-38	38	384.49	399.6	3020	25	75	51	18.00
TB20B1-45	45	455.17	470.3	3020	25	75	51	24.00
TB20B1-57	57	576.36	591.5	3020	25	75	51	38.50
TB20B1-76	76	768.32	783.5	3020	25	75	51	68.00
<b>Cast Iron Wheels</b>								
TB20B1-38	38	384.49	399.6	3020	25	75	51	12.6
TB20B1-45	45	455.17	470.3	3020	25	75	51	17.0
TB20B1-57	57	576.36	591.5	3020	25	75	51	25.6
TB20B1-76	76	768.32	783.5	3020	25	75	51	39.0

## Rivet Extractors

Roller Chain tools reduce time both in the field and in the shop and are a necessity for disconnecting roller chains from bulk length, or for chain repair and alteration purposes. The tool requires virtually no maintenance, all parts being produced from high grade steels, with moving parts hardened for maximum strength and wear resistant qualities. When ordering rivet extractors, always state the extractor number as indicated below.



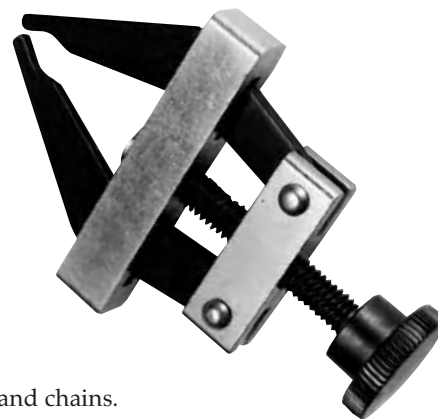
Tool Number	Chain Pitch	Roller Chain Sizes		
		B.S.	ANSI	Ext. Pitch
36	1/4" - 3/4"	05B-12B	25-60	208-212
610	3/4" - 1 1/4"	12B-20B	60-100	212-216
1220	1 1/2" - 2"	24B-32B	120-160	

## Chain Pullers

This unique tool was designed to make roller chain installation quick and easy both in the field and the workshop.

In use the pullers jaws are opened by releasing the screw, and then hooked into each open end of the chain. The screw is tightened to bring the two ends of the chain almost together with bush centres pitch length apart. The connecting link is then easily fitted to the chain. Two sizes of unit are available as below:-

Tool Number	Chain Pitch	Roller Chain Sizes		
		B.S.	ANSI	Ext. Pitch
35	3/8" - 3/4"	06B-12B	35-60	208-212
50	1/2" - 1"	08B-16B	40-80	208-216
80	1" - 2"	16B-32B	80-160	216-224



Although primarily for Simplex chains, these pullers can also be used for multistrand chains.

For larger pitch chains other tools are available to assist in assembly and disassembly including Chain Vice, and Hook-up tools suitable for both Inverted Tooth and Roller Chains of up to 2 1/2 inch pitch and 12 inch width. Knock-down and Rivet Tools can also be supplied to order, ensuring correct assembly of rivetted endless chains.

These tools, combined with the Chains, Sprockets, and Idlers ensure that you only need contact -

**- CROSS+MORSE for the TOTAL CHAIN TRANSMISSION PACKAGE -**

Tel +44(0) 121 360 0155

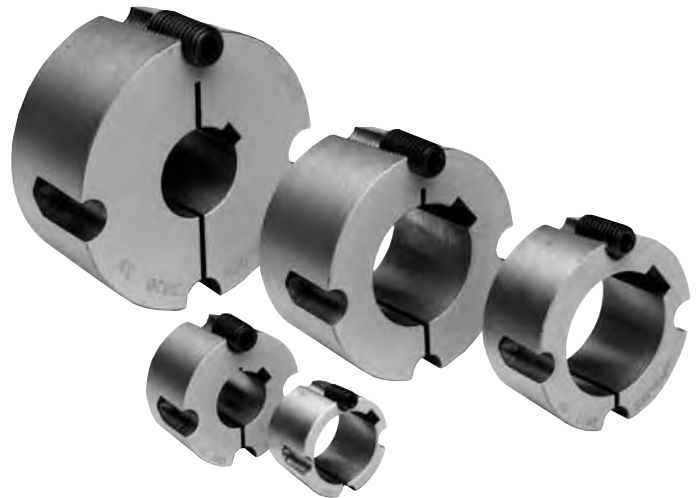
Fax +44(0) 121 325 1079

Email sales@crossmorse.com

Taper bushes provide a low cost, simple, quick method of securing sprocket, pulleys and couplings to a wide range of standard metric and imperial dimensioned shafts of general commercial tolerances and finish.


The taper surfaces on the bush and mating hub are driven together by high tensile screws, causing the split bush to be firmly contracted onto the shaft. The strong clamping force which can be achieved enables transmission of high torque without the problems of fretting associated with simple keyseated drives.

The design ensures quick, easy installation of sprockets and pulleys onto shafts with simple positioning for alignment. Positive jacking-off of the bush during removal ensures quick disassembly without normal problems of seizure between shaft and pulley. The standard bushes shown opposite are suitable for taper bore sprockets shown on pages 32-37, taper bored hubs on page 69, and the taper bored pulleys offered in the timing belt catalogue.




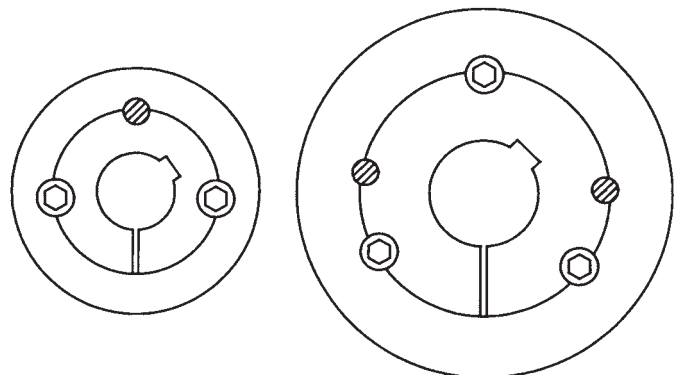
## Instructions - Installation and Removal

### Installation

1. Remove protective coating from the bore and outside bush, and bore of hub. After ensuring the mating tapered surfaces are completely clean, insert bush in hub so that holes line up.
2. Oil thread and point of grub screws, or thread and under head of cap screws. Place screws loosely in holes threaded in hub, shown thus  in diagram.
3. Clean shaft and fit hub and bush to shaft. Locate in position, remembering bush will nip the shaft first and then hub will be drawn on to the bush.
4. Using a hexagon wrench tighten screws gradually and alternately until all are pulled up very tightly. Use a piece of pipe on wrench to increase leverage.
5. When a key is not used, hammer against large end of bush using a block or sleeve to prevent damage. Screws will now turn a little more. Repeat this alternate hammering and screw tightening once or twice. After drive has run under load for a short time, check tightness of screws.
6. If a key is to be fitted, do so after the bush has been tightened on to the shaft, and then fit a parallel key that is side fitting with top clearance.
7. Fill empty holes with grease to exclude dirt.

### Removal

1. Slacken all screws by several turns, remove one or two according to number of jacking off holes thus  in diagram. Insert screws in jacking off holes after oiling thread and point of grub screws or thread under head of cap screws.
2. Tighten screws alternately until bush is loosened in hub and assembly is free on the shaft.
3. Remove assembly from shaft.



**Bush with 2 Grub Screws**  
(Sizes 1008-3030)

**Bush with 3 Grub Screws**  
(Sizes 3535 and above)

## Installation and Design Recommendations

It is recommended that a key should be fitted with bushes in rigid and flexible couplings, timing belt and chain drives, and wherever loads of a heavy pulsating nature are encountered. All keyways are parallel keyways to British Standard 4235 Part 1 : 1972 for metric dimensional shafts, or British Standard 46 Part 1 : 1958 for imperial dimensional shafts, with the exception of those marked\* in the tables which are slightly shallower. Where a key is used it should be parallel type with side fitting and top clearance.

It is not recommended to use taper bushes with maximum or minimum bore sizes on drives where high shock loads may be encountered.

# Taper Bushes

## Bush Dimensions



Bush No.	Approx. Weight kg	Bush Dimensions					Metric Bore Bushes					Imperial Bore Sizes						
		Length mm	o.d. large end of taper mm	Grub Screws			Bore sizes available mm				Keyway mm		Bore sizes available inches		Keyway Inches			
				No.	Screw Size	Key Size mm					Width	Depth at Centre			Width	Depth at Side		
1008	0.11	22.2	35	2	1/4" x 1/2" B.S.W.	3	9	11	10	12	3	1.4	3/8	1/2	1/8	3/16	1/16	3/32
1108	0.12	22.2	38	2	1/4" x 1/2" B.S.W.	3	9	11	10	12	3	1.4	3/8	1/2	1/8	3/16	1/16	3/32
1210	0.23	25.4	48	2	3/8" x 5/8" B.S.W.	5	14	11	16	12	4	1.8	5/8	3/4	1/8	3/16	1/16	3/32
1215	0.35	38.1					18	19	20	22	6	2.8	7/8	1	1/4	5/16	1/8	1/8
1310	0.28	25.4	51	2	3/8" x 5/8" B.S.W.	5	14	16	16	22	5	2.3	5/8	3/4	1/8	3/16	1/16	3/32
1610	0.35	25.4	57	2	3/8" x 5/8" B.S.W.	5	14	16	22	22	5	2.3	5/8	3/4	1/8	3/16	1/16	3/32
1615	0.45	38.1					18	19	20	22	6	2.8	7/8	1	1/4	5/16	1/8	1/8
2012	0.68	31.8	70	2	7/16" x 7/8" B.S.W.	6	14	15	16	22	5	2.3	7/8	1	3/16	1/4	3/32	1/8
2517	1.5	44.5	86	2	1/2" x 1" B.S.W.	6	24	19	20	22	6	2.8	7/8	1	5/16	3/8	1/8	1/8
2525	1.9	63					32	25	28	30	8	3.3	1 1/8	1 1/4	7/16	1/2	5/32	5/32
3020	2.7	50.8	108	2	5/8" x 1 1/4" B.S.W.	8	25	28	30	30	8	3.3	1 3/8	1 1/2	3/8	7/16	1/8	5/32
3030	3.6	76					32	35	38	42	10	3.3	1 5/8	1 3/4	1/2	5/8	7/32	7/32
3525	4.0	63	127	3	1/2" x 1 1/2" B.S.W.	10	45	48	50	55	10	3.3	1 5/8	1 1/2	7/16	3/8	5/32	1/8
3535	5.0	89					60	65	70	75	12	3.3	2 1/4	2 1/2	5/8	3/4	7/32	1/4
4030	6.5	76	146	3	5/8" x 1 3/4" B.S.W.	12	40	42	50	55	12	3.3	2 1/4	2 3/8	7/16	1/2	5/32	5/32
4040	7.7	102					48	50	55	60	14	3.8	2 3/4	3	5/8	3/4	7/32	1/4
4535	8	89	162	3	3/4" x 2" B.S.W.	14	60	65	75	80	16	4.3	2 3/4	3	5/8	3/4	7/32	1/4
4545	10	114					70	75	80	85	18	4.4	3 1/4	4	7/8	1	5/16	3/8
5040	12	102	178	3	7/8" x 2 1/4" B.S.W.	17	70	75	85	90	20	4.9	3 1/4	4	1 1/4	1	5/16	3/8
5050	14	127					80	85	90	95	22	5.4	4 1/4	4 1/2	7/8	1 1/4	7/16	5/16
							100	105	110	115	28	6.4	4 1/2	5	1 1/4	1 1/4	5/16	5/16*

†Bore size 65mm has keyway 2.3mm deep on 2525 Bush

\* Shallow Key not to B.S. 46 Part 1.

\*\*Shallow Key not to B.S. 4235 Part 1.

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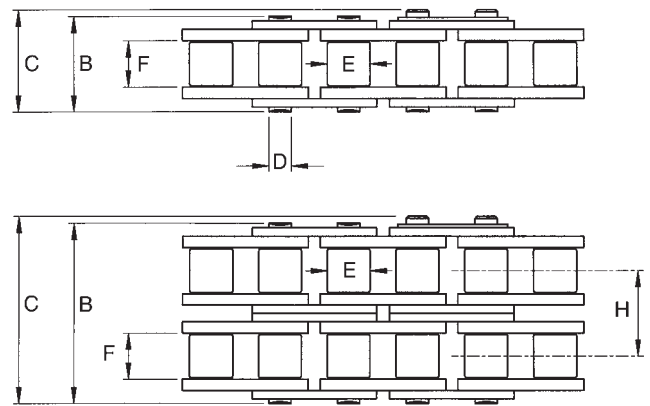
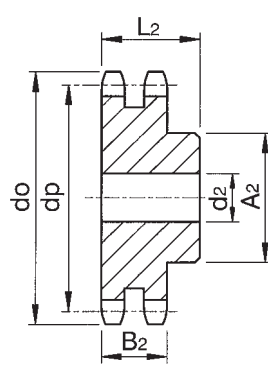
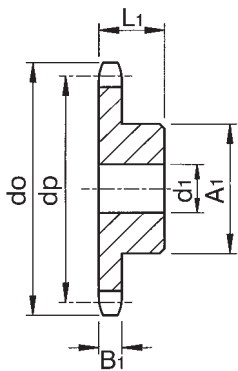


# Standard Sprockets for 8mm Pitch British Standard Chain Type 05B

Conforming to ISO Std 606



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## Simplex Sprockets

Chain No. 05B1-1  
Pitch 8.0mm  
E Roller Diameter 5.0mm  
F Inside Width 3.0mm  
B<sub>1</sub> Tooth Width 2.8mm

## Duplex Sprockets

Chain No. 05B2-2  
Pitch 8.0mm  
E Roller Diameter 5.0mm  
F Inside Width 3.0mm  
B<sub>2</sub> Tooth Width 8.3mm

## Chain Specifications

Chain No.	Simplex 05B-1	Duplex 05B-2
Plate Depth	7.1	7.1
B Pin Length	8.6	14.3
C Overall Width	11.7	17.4
D Pin Diameter	2.31	2.31
Tensile Strength N	4600	7500
Weight per metre kg	0.18	0.36

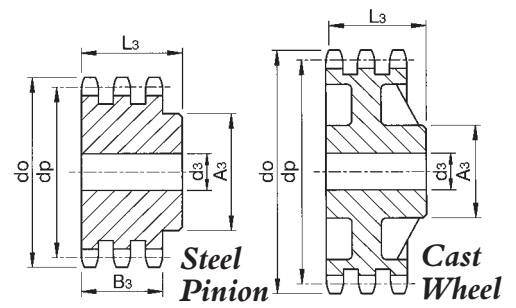
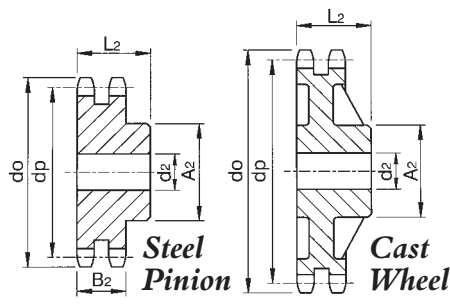
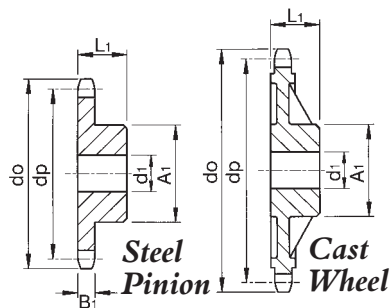
No. Teeth Z	Pitch Circle Ø dp	Outside Ø do	Simplex Sprocket						Duplex Sprocket					
			Cat. No.	Min. † Bore d <sub>1</sub>	Max. Bore	L.T.B. L <sub>1</sub>	Hub Ø A <sub>1</sub>	App. Weight kg	Cat. No.	Min. † Bore d <sub>2</sub>	Max. Bore	L.T.B. L <sub>2</sub>	Hub Ø A <sub>2</sub>	App. Weight kg
<b>Steel Pinions</b>														
8	20.90	24.0	05B1-08	6	8	12	13	.013	05B2-08	8	8	18	12	.018
9	23.39	26.6	05B1-09	6	10	12	15	.018	05B2-09	8	10	18	15	.027
10	25.89	29.2	05B1-10	8	11	12	17	.023	05B2-10	8	11	18	17	.033
11	28.39	31.7	05B1-11	8	12	13	18	.028	05B2-11	10	12	18	19	.043
12	30.91	34.2	05B1-12	8	13	13	20	.035	05B2-12	10	13	18	21	.054
13	33.42	36.7	05B1-13	8	14	13	23	.045	05B2-13	10	15	18	24	.07
14	35.95	39.2	05B1-14	8	16	13	25	.055	05B2-14	10	17	18	26	.08
15	38.48	41.7	05B1-15	8	19	13	28	.07	05B2-15	10	20	18	29	.10
16	41.01	44.3	05B1-16	8	20	14	30	.08	05B2-16	10	21	20	32	.13
17	43.53	46.8	05B1-17	8	20	14	30	.085	05B2-17	10	23	20	34	.15
18	46.07	49.3	05B1-18	8	20	14	30	.09	05B2-18	10	25	20	37	.17
19	48.61	51.9	05B1-19	8	20	14	30	.09	05B2-19	10	26	20	39	.20
20	51.14	54.4	05B1-20	8	20	14	30	.10	05B2-20	10	27	20	40	.21
21	53.68	57.0	05B1-21	8	24	14	35	.12	05B2-21	10	27	20	40	.25
22	56.21	59.5	05B1-22	8	24	14	35	.13	05B2-22	10	27	20	40	.26
23	58.75	62.0	05B1-23	8	24	14	35	.13	05B2-23	10	27	20	40	.28
24	61.29	64.6	05B1-24	8	24	14	35	.14	05B2-24	10	27	20	40	.29
25	63.83	67.5	05B1-25	8	24	14	35	.14	05B2-25	10	27	20	40	.31
26	66.37	69.5	05B1-26	10	27	16	40	.19	05B2-26	12	34	22	50	.39
27	68.91	72.2	05B1-27	10	27	16	40	.20	05B2-27	12	34	22	50	.40
28	71.45	74.8	05B1-28	10	27	16	40	.20	05B2-28	12	34	22	50	.42
29	73.99	77.3	05B1-29	10	27	16	40	.21	05B2-29	12	34	22	50	.44
30	76.53	79.8	05B1-30	10	27	16	40	.21	05B2-30	12	34	22	50	.46
31	79.08	82.4	05B1-31	12	27	16	40	.22	05B2-31	12	40	22	60	.57
32	81.61	84.9	05B1-32	12	27	16	40	.22	05B2-32	12	40	22	60	.59
33	84.16	87.5	05B1-33	12	27	16	40	.23	05B2-33	12	40	22	60	.61
34	86.70	90.0	05B1-34	12	27	16	40	.24	05B2-34	12	40	22	60	.63
35	89.25	92.5	05B1-35	12	27	16	40	.24	05B2-35	12	40	22	60	.65
36	91.79	95.0	05B1-36	12	27	16	40	.25	05B2-36	12	40	22	60	.67
37	94.33	97.6	05B1-37	12	27	16	40	.26	05B2-37	12	40	22	60	.70
38	96.88	100.2	05B1-38	12	27	16	40	.27	05B2-38	12	40	22	60	.72
39	99.42	102.7	05B1-39	12	27	16	40	.28	05B2-39	12	40	22	60	.74
40	101.97	105.3	05B1-40	12	27	16	40	.29	05B2-40	12	40	22	60	.77
45	114.69	118.0	05B1-45	12	40	20	60	.58						
50	127.41	130.7	05B1-50	12	40	20	60	.63						
57	145.22	148.6	05B1-57	14	52	20	80	1.00						
76	193.59	197.7	05B1-76	20	52	25	80	1.60						

All dimensions in mm. †Min. tolerance bore which can be machined in sprocket. Material:-Steel Pinions 8 to 40 tooth minimum U.T.S. 600N/mm<sup>2</sup> - Above 40T - 410N/mm<sup>2</sup>

## Finished Bored and Keyed Sprockets

All standard plain bore sprockets can be supplied finish bored, keywayed and with setscrews to customers' specifications. Where possible standard bores and keyways should always be used (Refer to p95 for details). For idler applications sprockets can be supplied fitted with phosphor bronze or sintered bushes with bores up to a maximum indicated for sprocket bores. All modifications are offered on our 48 hour rework service. Steel pinions 8 to 40 tooth can be supplied with teeth induction hardened to 45Rc.

# Standard Sprockets for 3/8" Pitch British Standard Chains Type 06B Conforming to ISO Std 606



### Simplex Sprockets

Chain No. 06B-1  
Pitch 9.525mm  
Roller Dia. 6.35mm  
Inside Width 5.72mm  
Overall Width 15.0mm  
Tooth Width B<sub>1</sub> 5.3mm

### Duplex Sprockets

Chain No. 06B-2  
Pitch 9.525mm  
Roller Dia. 6.35mm  
Inside Width 5.72mm  
Overall Width 25.1mm  
Tooth Width B<sub>2</sub> 15.4mm

### Triplex Sprockets

Chain No. 06B-3  
Pitch 9.525mm  
Roller Dia. 6.35mm  
Inside Width 5.72mm  
Overall Width 35.0mm  
Tooth Width B<sub>3</sub> 25.6mm

No. Teeth Z	Pitch Circle Ø dp	Outside Ø do	Simplex Sprocket						Duplex Sprocket						Triplex Sprocket					
			Cat. No.	Min.† Bore d <sub>1</sub>	Max. Bore d <sub>1</sub>	L.T.B. L <sub>1</sub>	Hub Ø A <sub>1</sub>	App. Weight kg	Cat. No.	Min.† Bore d <sub>2</sub>	Max. Bore d <sub>2</sub>	L.T.B. L <sub>2</sub>	Hub Ø A <sub>2</sub>	App. Weight kg	Cat. No.	Min.† Bore d <sub>3</sub>	Max. Bore d <sub>3</sub>	L.T.B. L <sub>3</sub>	Hub Ø A <sub>3</sub>	App. Weight kg
<b>Steel Pinions</b>																				
8	24.89	28.0	06B1-08	8	10	22	15	.03	06B2-08	8	10	22	15	.04	06B3-08	8	10	32	15	.05
9	27.85	31.0	06B1-09	8	12	22	18	.05	06B2-09	8	12	22	18	.05	06B3-09	8	12	32	18	.07
10	30.82	34.0	06B1-10	8	13	22	20	.06	06B2-10	8	13	22	20	.07	06B3-10	8	13	32	20	.09
11	33.80	37.0	06B1-11	8	14	25	22	.08	06B2-11	10	14	25	22	.09	06B3-11	12	14	35	22	.12
12	36.80	40.0	06B1-12	8	16	25	25	.11	06B2-12	10	16	25	25	.12	06B3-12	12	16	35	25	.15
13	39.79	43.0	06B1-13	10	19	25	28	.13	06B2-13	10	19	25	28	.14	06B3-13	12	19	35	28	.19
14	42.80	46.3	06B1-14	10	20	25	31	.16	06B2-14	10	20	25	31	.17	06B3-14	12	20	35	31	.24
15	42.80	49.3	06B1-15	10	23	25	34	.19	06B2-15	10	23	25	34	.21	06B3-15	12	23	35	34	.28
16	48.82	52.3	06B1-16	10	25	28	37	.24	06B2-16	12	25	30	37	.27	06B3-16	12	25	35	37	.33
17	51.83	55.3	06B1-17	10	27	28	40	.29	06B2-17	12	27	30	40	.32	06B3-17	12	27	35	40	.39
18	54.85	58.3	06B1-18	10	29	28	43	.33	06B2-18	12	29	30	43	.37	06B3-18	12	29	35	43	.45
19	57.87	61.3	06B1-19	10	30	28	45	.37	06B2-19	12	31	30	46	.42	06B3-19	12	31	35	46	.51
20	60.89	64.3	06B1-20	10	31	28	46	.39	06B2-20	12	33	30	49	.48	06B3-20	12	33	35	49	.58
21	63.91	68.0	06B1-21	12	32	28	48	.42	06B2-21	16	35	30	52	.52	06B3-21	16	35	40	52	.70
22	66.93	71.0	06B1-22	12	34	28	50	.46	06B2-22	16	36	30	55	.58	06B3-22	16	36	40	55	.79
23	69.95	73.5	06B1-23	12	35	28	52	.50	06B2-23	16	38	30	58	.65	06B3-23	16	38	40	58	.88
24	72.97	77.0	06B1-24	12	36	28	54	.54	06B2-24	16	40	30	61	.72	06B3-24	16	40	40	61	.97
25	76.00	80.0	06B1-25	12	38	28	57	.61	06B2-25	16	43	30	64	.79	06B3-25	16	43	40	64	1.07
26	79.02	83.0	06B1-26	12	40	28	60	.67	06B2-26	16	44	30	67	.87	06B3-26	16	44	40	67	1.17
27	82.05	86.0	06B1-27	12	40	28	60	.73	06B2-27	16	46	30	70	.95	06B3-27	16	46	40	70	1.28
28	85.07	89.0	06B1-28	12	40	28	60	.81	06B2-28	16	48	30	73	1.03	06B3-28	16	48	40	73	1.39
29	88.09	92.0	06B1-29	12	40	28	60	.88	06B2-29	16	50	30	76	1.12	06B3-29	16	50	40	76	1.51
30	91.12	94.7	06B1-30	12	40	30	60	.92	06B2-30	16	53	30	79	1.21	06B3-30	16	53	40	79	1.63
31	94.15	98.3	06B1-31	14	43	30	65	.97	06B2-31	16	54	30	80	1.27	06B3-31	16	54	40	80	1.72
32	97.17	101.3	06B1-32	14	43	30	65	.99	06B2-32	16	54	30	80	1.32	06B3-32	16	54	40	80	1.81
33	100.20	104.3	06B1-33	14	43	30	65	1.01	06B2-33	16	54	30	80	1.38	06B3-33	16	54	40	80	1.90
34	103.23	107.3	06B1-34	14	43	30	65	1.03	06B2-34	16	54	30	80	1.43	06B3-34	16	57	40	85	2.06
35	106.26	110.4	06B1-35	14	43	30	65	1.05	06B2-35	16	54	30	80	1.49	06B3-35	16	57	40	85	2.16
36	109.29	113.4	06B1-36	16	46	30	70	1.07	06B2-36	16	60	30	90	1.55	06B3-36	16	60	40	90	2.23
37	112.32	116.4	06B1-37	16	46	30	70	1.09	06B2-37	16	60	30	90	1.61	06B3-37	16	60	40	90	2.43
38	115.35	119.5	06B1-38	16	46	30	70	1.11	06B2-38	16	60	30	90	1.67	06B3-38	16	60	40	90	2.62
39	118.37	122.5	06B1-39	16	46	30	70	1.13	06B2-39	16	60	30	90	1.74	06B3-39	16	60	40	90	2.72
40	121.40	125.5	06B1-40	16	46	30	70	1.16	06B2-40	16	60	30	90	1.80	06B3-40	16	60	40	90	2.92
42	127.46	131.6	06B1-42	16	54	32	*80	1.50	06B2-42	20	60	40	*90	2.54	06B3-42	20	60	56	*90	3.70
45	136.55	140.7	06B1-45	16	54	32	*80	1.58	06B2-45	20	60	40	*90	2.76	06B3-45	20	60	56	*90	4.06
48	145.64	149.7	06B1-48	20	54	32	*80	1.63	06B2-48	20	60	40	*90	2.99	06B3-48	20	60	56	*90	4.45
50	151.69	155.7	06B1-50	20	54	32	*80	1.69	06B2-50	20	60	40	*90	3.16	06B3-50	20	60	56	*90	4.72
57	172.91	176.9	06B1-57	20	54	32	*80	1.91	06B2-57	20	60	40	*90	3.79	06B3-57	20	60	56	*90	5.78
60	182.00	186.0	06B1-60	20	54	32	*80	2.01	06B2-60	20	60	40	*90	4.09	06B3-60	20	60	56	*90	6.28
<b>Cast Iron Wheels</b>																				
57	172.91	176.9	06B1-57	19	42	32	70	1.60	06B2-57	19	48	40	80	2.50	06B3-57	23	54	56	90	3.60
76	230.49	234.9	06B1-76	19	42	32	70	2.10	06B2-76	19	48	40	80	3.10	06B3-76	23	60	56	100	4.00
95	288.08	292.5	06B1-95	19	48	40	80	3.50	06B2-95	19	54	45	90	4.60	06B3-95	23	60	56	100	6.50
114	345.68	349.6	06B1-114	19	48	40	80	4.20	06B2-114	19	54	45	90	5.30	06B3-114	23	60	56	100	8.00
150	454.82	459.2	06B1-150	23	54	45	90	9.00	06B2-150	23	60	50	100	10.50	06B3-150	23	75	60	125	14.00

All dimensions in mm.

†Min. toleranced bore which can be machined in sprocket.

Steel Pinions 8 to 40 tooth minimum U.T.S. 600N/mm<sup>2</sup> - Above 40T - 410N/mm<sup>2</sup>

Stock Sprockets can be reworked to customer's bore and keyway requirements, on 48 hour service.

Steel pinions 8 to 40 tooth can be supplied with teeth induction hardened to 45Rc.

\*Sprockets with an asterisk on hub Ø may be of fabricated construction.

# Standard Sprockets for 1/2" Pitch Narrow Series Roller Chains

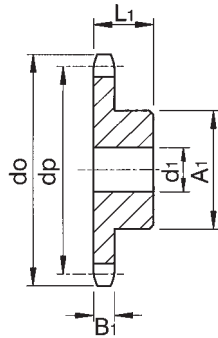


Email sales@crossmorse.com

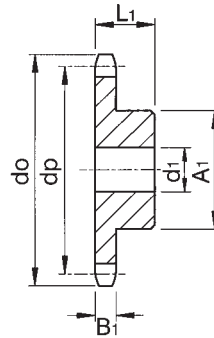
Fax +44(0) 121 325 1079

Fax +44(0) 121 360 0155

Tel +44(0) 121 360 0155



Chain No. 081  
Pitch 12.7mm  
Roller Dia. 7.75mm  
Inside Width 3.3mm  
Tooth Width B 3.0mm



Chain No. 083  
Pitch 12.7mm  
Roller Dia. 7.75mm  
Inside Width 4.88mm  
Tooth Width B 4.5mm

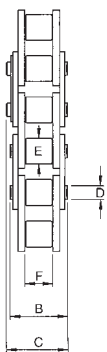
No. Teeth Z	Pitch Circle Ø dp	Outside Ø do	Simplex Sprocket for 081 Chain						Sprockets for 083 Chain					
			Cat. No.	Min. † Bore d <sub>1</sub>	Max. Bore d <sub>1</sub>	L.T.B. L <sub>1</sub>	Hub Ø A <sub>1</sub>	App. Weight kg	Cat. No.	Min. † Bore d <sub>1</sub>	Max. Bore d <sub>1</sub>	L.T.B. L <sub>1</sub>	Hub Ø A <sub>1</sub>	App. Weight kg
<b>Steel Pinions</b>														
8	33.18	37.2	081-08	8	13	14	21	.04	083-08	8	13	14	21	.04
9	37.13	41.5	081-09	8	16	14	25	.06	083-09	8	16	14	25	.06
10	41.10	46.2	081-10	8	19	14	28	.08	083-10	8	19	14	28	.08
11	45.07	49.6	081-11	8	20	16	31	.10	083-11	8	20	16	31	.11
12	49.07	53.9	081-12	8	24	16	35	.13	083-12	8	24	16	35	.14
13	53.06	58.4	081-13	8	26	16	39	.16	083-13	8	26	16	39	.17
14	57.07	62.8	081-14	8	29	16	43	.19	083-14	8	29	16	43	.20
15	61.09	66.8	081-15	8	31	16	47	.23	083-15	8	31	16	47	.24
16	65.10	70.9	081-16	10	34	18	50	.29	083-16	10	34	18	50	.30
17	69.11	74.9	081-17	10	34	18	50	.31	083-17	10	34	18	50	.32
18	73.14	78.9	081-18	10	34	18	50	.32	083-18	10	34	18	50	.33
19	77.16	82.9	081-19	10	34	18	50	.34	083-19	10	34	18	50	.34
20	81.19	86.9	081-20	10	34	18	50	.35	083-20	10	34	18	50	.36
21	85.22	91.0	081-21	12	40	20	60	.49	083-21	12	40	20	60	.51
22	89.24	95.0	081-22	12	40	20	60	.51	083-22	12	40	20	60	.53
23	93.27	99.0	081-23	12	40	20	60	.53	083-23	12	40	20	60	.55
24	97.29	103.0	081-24	12	40	20	60	.55	083-24	12	40	20	60	.57
25	101.33	107.1	081-25	12	40	20	60	.57	083-25	12	40	20	60	.59
26	105.36	111.2	081-26	16	46	20	70	.68	083-26	16	46	20	70	.72
27	109.40	115.4	081-27	16	46	20	70	.70	083-27	16	46	20	70	.74
28	113.42	119.4	081-28	16	46	20	70	.72	083-28	16	46	20	70	.77
29	117.46	123.4	081-29	16	46	20	70	.74	083-29	16	46	20	70	.79
30	121.50	127.5	081-30	16	46	20	70	.75	083-30	16	46	20	70	.82
31	125.54	131.5	081-31	16	46	20	70	.77	083-31	16	46	20	70	.84
32	129.56	135.5	081-32	16	46	20	70	.78	083-32	16	46	20	70	.87
33	133.60	139.6	081-33	16	46	20	70	.80	083-33	16	46	20	70	.90
34	137.64	143.6	081-34	16	46	20	70	.82	083-34	16	46	20	70	.93
35	141.68	147.6	081-35	16	46	20	70	.85	083-35	16	46	20	70	.96
36	145.72	151.7	081-36	16	46	25	70	1.00	083-36	16	46	25	70	1.13
37	149.76	155.7	081-37	16	46	25	70	1.02	083-37	16	46	25	70	1.16
38	153.80	159.8	081-38	16	46	25	70	1.05	083-38	16	46	25	70	1.20
39	157.83	163.8	081-39	16	46	25	70	1.08	083-39	16	46	25	70	1.23
40	161.87	167.8	081-40	16	46	25	70	1.10	083-40	16	46	25	70	1.26

All dimensions in mm. Material:-Steel Pinions 8 to 40 tooth minimum U.T.S. 600N/mm<sup>2</sup> - Above 40T - 410N/mm<sup>2</sup>

Stock Sprockets can be reworked to customers bore and keyway requirements.

†Min. tolerance bore which can be machined in sprocket.

Steel pinions 8 to 40 tooth can be supplied with teeth induction hardened to 45Rc.

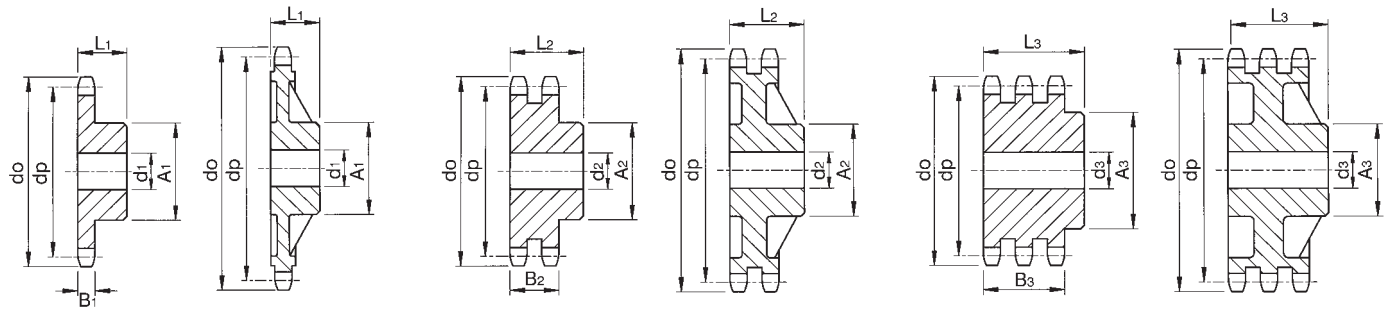


## Chains for Sprocket Types 081, 083 and 08L

Sprocket Ref.	Chain Ref.	Pin Length B	Overall Width C	Pin Diameter D	Roller Diameter E	Inside Width F	Ultimate Strength N	Weight per Metre kg
081	081	10.2	11.7	3.60	7.75	3.30	8,200	0.28
083	083	12.9	14.4	4.09	7.75	4.88	12,000	0.42
	084	14.5	16.3	4.09	7.75	4.88	16,000	0.59
	08N	10.9	13.7	3.60	7.75	4.88	8,200	0.33

# Standard Sprockets for 1/2" Pitch British Standard Chains Type 08B

Conforming to ISO Std 606



*Steel Pinion    Cast Iron Wheel    Steel Pinion    Cast Iron Wheel    Steel Pinion    Cast Iron Wheel*

### Simplex Sprockets

Chain No. 08B-1  
Pitch 12.7mm  
Roller Dia. 8.51mm  
Inside Width 7.75mm  
Overall Width 18.3mm  
Tooth Width B<sub>1</sub> 7.2mm

### Duplex Sprockets

Chain No. 08B-2  
Pitch 12.7mm  
Roller Dia. 8.51mm  
Inside Width 7.75mm  
Overall Width 32.1mm  
Tooth Width B<sub>2</sub> 21.0mm

### Triplex Sprockets

Chain No. 08B-3  
Pitch 12.7mm  
Roller Dia. 8.51mm  
Inside Width 7.75mm  
Overall Width 46.1mm  
Tooth Width B<sub>3</sub> 34.9mm

No. Teeth Z	Pitch Circle Ø dp	Outside Ø do	Simplex Sprocket						Duplex Sprocket						Triplex Sprocket					
			Cat. No.	Min. † Bore d <sub>1</sub>	Max. Bore d <sub>1</sub>	L.T.B. L <sub>1</sub>	Hub Ø A <sub>1</sub>	App. Weight kg	Cat. No.	Min. † Bore d <sub>2</sub>	Max. Bore d <sub>2</sub>	L.T.B. L <sub>2</sub>	Hub Ø A <sub>2</sub>	App. Weight kg	Cat. No.	Min. † Bore d <sub>3</sub>	Max. Bore d <sub>3</sub>	L.T.B. L <sub>3</sub>	Hub Ø A <sub>3</sub>	App. Weight kg
<b>Steel Pinions</b>																				
8	33.18	37.2	08B1-08	10	13	25	20	.07	08B2-08	10	13	32	20	.10	08B3-08	10	13	46	20	.14
9	37.13	41.0	08B1-09	10	15	25	24	.10	08B2-09	10	15	32	24	.13	08B3-09	12	15	46	24	.18
10	41.10	45.2	08B1-10	10	17	25	26	.12	08B2-10	10	19	32	28	.18	08B3-10	12	19	46	28	.25
11	45.07	48.7	08B1-11	10	20	25	29	.15	08B2-11	12	21	35	32	.24	08B3-11	16	21	50	32	.31
12	49.07	53.0	08B1-12	10	22	28	33	.21	08B2-12	12	24	35	35	.30	08B3-12	16	24	50	35	.39
13	53.06	57.4	08B1-13	10	25	28	37	.26	08B2-13	12	26	35	38	.36	08B3-13	16	26	50	38	.49
14	57.07	61.8	08B1-14	10	27	28	41	.32	08B2-14	12	28	35	42	.44	08B3-14	16	28	50	42	.60
15	61.09	65.5	08B1-15	10	30	28	45	.39	08B2-15	12	31	35	46	.52	08B3-15	16	31	50	46	.72
16	65.10	69.5	08B1-16	12	34	28	50	.46	08B2-16	14	34	35	50	.63	08B3-16	16	34	50	50	.85
17	69.11	73.6	08B1-17	12	35	28	52	.51	08B1-17	14	36	35	54	.74	08B3-17	16	36	50	54	.99
18	73.14	77.8	08B1-18	12	37	28	56	.59	08B2-18	14	38	35	58	.85	08B3-18	16	38	50	58	1.14
19	77.16	81.7	08B1-19	12	40	28	60	.67	08B2-19	14	41	35	62	.97	08B3-19	16	41	50	62	1.30
20	81.19	85.8	08B1-20	12	43	28	64	.76	08B2-20	14	44	35	66	1.10	08B3-20	16	44	50	66	1.47
21	85.22	89.7	08B1-21	14	45	28	68	.84	08B2-21	16	46	40	70	1.29	08B3-21	20	46	55	70	1.75
22	89.24	93.8	08B1-22	14	46	28	70	.91	08B2-22	16	46	40	70	1.38	08B3-22	20	46	55	70	1.88
23	93.27	98.2	08B1-23	14	46	28	70	.94	08B2-23	16	46	40	70	1.46	08B3-23	20	46	55	70	2.03
24	97.29	101.8	08B1-24	14	46	28	70	.97	08B2-24	16	50	40	75	1.64	08B3-24	20	50	55	75	2.27
25	101.33	105.8	08B1-25	14	46	28	70	1.00	08B2-25	16	54	40	80	1.83	08B3-25	20	54	55	80	2.52
26	105.36	110.0	08B1-26	16	46	30	70	1.09	08B2-26	20	57	40	85	1.99	08B3-26	20	57	55	85	2.79
27	109.40	114.0	08B1-27	16	46	30	70	1.12	08B2-27	20	57	40	85	2.09	08B3-27	20	57	55	85	2.96
28	113.42	118.0	08B1-28	16	46	30	70	1.16	08B2-28	20	60	40	90	2.30	08B3-28	20	60	55	90	3.25
29	117.46	122.0	08B1-29	16	54	30	80	1.41	08B2-29	20	63	40	95	2.52	08B3-29	20	63	55	95	3.55
30	121.50	126.1	08B1-30	16	54	30	80	1.45	08B2-30	20	67	40	100	2.76	08B3-30	20	67	55	100	3.87
31	125.54	130.2	08B1-31	16	60	30	90	1.74	08B2-31	20	67	40	100	2.88	08B3-31	20	74	55	110	4.33
32	129.56	134.3	08B1-32	16	60	30	90	1.78	08B2-32	20	67	40	100	3.00	08B3-32	20	74	55	110	4.54
33	133.60	138.4	08B1-33	16	60	30	90	1.83	08B2-33	20	67	40	100	3.13	08B3-33	20	74	55	110	4.75
34	137.64	142.6	08B1-34	16	60	30	90	1.87	08B2-34	20	67	40	100	3.26	08B3-34	20	74	55	110	4.87
35	141.68	146.7	08B1-35	16	60	30	90	1.92	08B2-35	20	67	40	100	3.40	08B3-35	20	74	55	110	5.20
36	145.72	151.0	08B1-36	20	60	35	90	2.18	08B2-36	20	67	40	100	3.55	08B3-36	25	80	55	120	5.64
37	149.76	154.6	08B1-37	20	60	35	90	2.23	08B2-37	20	67	40	100	3.69	08B3-37	25	80	55	120	5.89
38	153.80	158.6	08B1-38	20	60	35	90	2.28	08B2-38	20	67	40	100	3.84	08B3-38	25	80	55	120	6.14
39	157.83	162.7	08B1-39	20	60	35	90	2.33	08B2-39	20	67	40	100	4.00	08B3-39	25	80	55	120	6.39
40	161.87	166.8	08B1-40	20	60	35	90	2.38	08B2-40	20	67	40	100	4.16	08B3-40	25	80	55	120	6.66
42	169.94	175.4	08B1-42	20	60	40	*90	2.74	08B2-42	20	74	50	*110	5.46	08B3-42	25	74	60	*110	7.29
45	182.06	188.0	08B1-45	20	60	40	*90	2.93	08B2-45	20	74	50	*110	6.01	08B3-45	25	74	60	*110	8.20
48	194.18	200.3	08B1-48	20	60	40	*90	3.14	08B2-48	20	74	50	*110	6.60	08B3-48	25	74	60	*110	9.17
50	202.26	208.3	08B1-50	20	60	40	*90	3.27	08B2-50	20	74	50	*110	7.00	08B3-50	25	74	60	*110	9.83
57	230.54	236.4	08B1-57	20	60	40	*90	3.80	08B2-57	25	74	50	*110	8.48	08B3-57	25	74	60	*110	12.41
60	242.66	248.6	08B1-60	20	60	40	*90	4.05	08B2-60	25	74	50	*110	9.21	08B3-60	25	74	60	*110	13.62
<b>Cast Iron Wheels</b>																				
57	230.54	236.4	08B1-57	19	42	40	70	2.40	08B2-57	23	54	50	90	4.40	08B3-57	23	60	60	100	6.70
76	307.32	313.3	08B1-76	23	48	40	80	4.10	08B2-76	23	60	56	100	6.40	08B3-76	23	60	60	100	8.20
95	384.11	390.1	08B1-95	23	48	45	80	5.40	08B2-95	23	60	56	100	8.80	08B3-95	23	72	67	120	12.80
114	460.91	466.9	08B1-114	23	54	45	90	7.10	08B2-114	23	60	63	100	10.20	08B3-114	23	72	67	120	16.50

All dimensions in mm.

†Min. toleranced bore which can be machined in sprocket.

Steel Pinions 8 to 40 tooth minimum U.T.S. 600N/mm<sup>2</sup> - Above 40T - 410N/mm<sup>2</sup>

Stock Sprockets can be reworked to customers bore and keyway requirements, on 48 hour service.

Steel pinions 8 to 40 tooth can be supplied with teeth induction hardened to 45Rc.

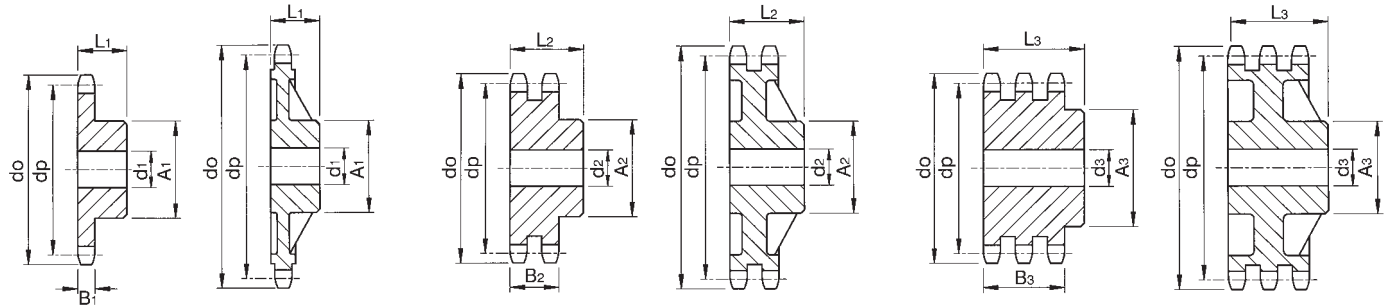
\*Sprockets with an asterisk on hub Ø may be of fabricated construction.

# Standard Sprockets for 5/8" Pitch British Standard Chains Type 10B

Conforming to ISO Std 606



Email sales@crossmorse.com Fax +44(0) 121 325 1079 Tel +44(0) 121 360 0155



**Steel Pinion    Cast Iron Wheel    Steel Pinion    Cast Iron Wheel    Steel Pinion    Cast Iron Wheel**

### Simplex Sprockets

Chain No. 10B-1  
Pitch 15.875mm  
Roller Dia. 10.16mm  
Inside Width 9.52mm  
Overall Width 20.8mm  
Tooth Width B<sub>1</sub> 9.1mm

### Duplex Sprockets

Chain No. 10B-2  
Pitch 15.875mm  
Roller Dia. 10.16mm  
Inside Width 9.52mm  
Overall Width 37.6mm  
Tooth Width B<sub>2</sub> 25.5mm

### Triplex Sprockets

Chain No. 10B-3  
Pitch 15.875mm  
Roller Dia. 10.16mm  
Inside Width 9.52mm  
Overall Width 54.1mm  
Tooth Width B<sub>3</sub> 42.1mm

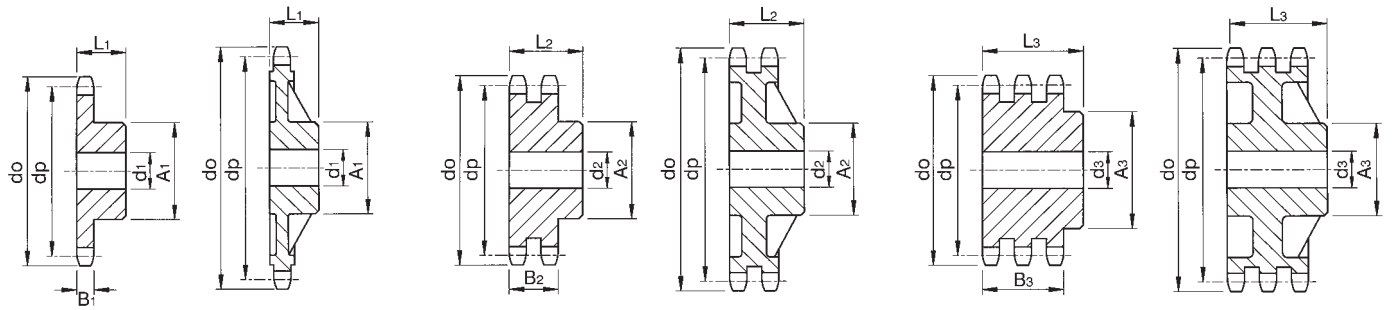
No. Teeth Z	Pitch Circle Ø dp	Outside Ø do	Simplex Sprocket					Duplex Sprocket					Triplex Sprocket							
			Cat. No.	Min. † Bore d <sub>1</sub>	Max. Bore d <sub>1</sub>	L.T.B. L <sub>1</sub>	Hub Ø A <sub>1</sub>	App. Weight kg	Cat. No.	Min. † Bore d <sub>2</sub>	Max. Bore d <sub>2</sub>	L.T.B. L <sub>2</sub>	Hub Ø A <sub>2</sub>	App. Weight kg	Cat. No.	Min. † Bore d <sub>3</sub>	Max. Bore d <sub>3</sub>	L.T.B. L <sub>3</sub>	Hub Ø A <sub>3</sub>	App. Weight kg
<b>Steel Pinions</b>																				
8	41.48	47.0	10B1-08	10	16	25	25	.12	10B2-08	12	16	40	25	.19	10B3-08	12	16	55	25	.27
9	46.42	52.6	10B1-09	10	20	25	30	.17	10B2-09	12	20	40	30	.27	10B3-09	12	20	55	30	.38
10	51.37	57.5	10B1-10	10	24	25	35	.22	10B2-10	12	24	40	35	.36	10B3-10	16	24	55	35	.47
11	56.34	63.0	10B1-11	12	25	30	37	.29	10B2-11	14	26	40	39	.43	10B3-11	16	26	55	39	.61
12	61.34	68.0	10B1-12	12	28	30	42	.38	10B2-12	14	29	40	44	.55	10B3-12	16	29	55	44	.78
13	66.32	73.0	10B1-13	12	31	30	47	.47	10B2-13	14	33	40	49	.68	10B3-13	16	33	55	49	.95
14	71.34	78.0	10B1-14	12	35	30	52	.56	10B2-14	14	36	40	54	.82	10B3-14	16	36	55	54	1.15
15	76.36	83.0	10B1-15	12	38	30	57	.67	10B2-15	14	39	40	59	.97	10B3-15	16	39	55	59	1.37
16	81.37	88.0	10B1-16	14	40	30	60	.76	10B2-16	16	43	45	64	1.26	10B3-16	16	43	60	64	1.72
17	86.39	93.0	10B1-17	14	40	30	60	.80	10B2-17	16	46	45	69	1.46	10B3-17	16	46	60	69	1.98
18	91.42	98.3	10B1-18	14	46	30	70	1.02	10B2-18	16	49	45	74	1.67	10B3-18	16	49	60	74	2.27
19	96.45	103.3	10B1-19	14	46	30	70	1.07	10B2-19	16	53	45	79	1.90	10B3-19	16	53	60	79	2.58
20	101.49	108.4	10B1-20	14	50	30	75	1.21	10B2-20	16	56	45	84	2.14	10B3-20	16	56	60	84	2.90
21	106.52	113.4	10B1-21	16	50	30	75	1.25	10B2-21	16	57	45	85	2.27	10B3-21	20	57	60	85	3.12
22	111.55	118.0	10B1-22	16	54	30	80	1.40	10B2-22	16	60	45	90	2.54	10B3-22	20	60	60	90	3.48
23	116.58	123.4	10B1-23	16	54	30	80	1.46	10B2-23	16	63	45	95	2.82	10B3-23	20	63	60	95	3.85
24	121.62	128.3	10B1-24	16	54	30	80	1.53	10B2-24	16	67	45	100	3.11	10B3-24	20	67	60	100	4.25
25	126.66	134.0	10B1-25	16	54	30	80	1.59	10B2-25	16	70	45	105	3.42	10B3-25	20	70	60	105	4.66
26	131.70	139.0	10B1-26	20	57	35	85	1.82	10B2-26	20	74	45	110	3.74	10B3-26	20	74	60	110	5.10
27	136.75	144.0	10B1-27	20	57	35	85	1.89	10B2-27	20	74	45	110	3.94	10B3-27	20	74	60	110	5.43
28	141.78	148.7	10B1-28	20	60	35	90	2.24	10B2-28	20	77	45	115	4.28	10B3-28	20	77	60	115	5.89
29	146.83	153.8	10B1-29	20	60	35	90	2.31	10B2-29	20	77	45	115	4.49	10B3-29	20	77	60	115	6.24
30	151.87	158.8	10B1-30	20	60	35	90	2.39	10B2-30	20	80	45	120	4.86	10B3-30	20	80	60	120	6.74
31	156.92	163.9	10B1-31	20	63	35	95	2.62	10B2-31	20	80	45	*120	5.09	10B3-31	20	80	60	*120	7.12
32	161.95	168.9	10B1-32	20	63	35	95	2.71	10B2-32	20	80	45	*120	5.33	10B3-32	20	80	60	*120	7.51
33	167.00	174.5	10B1-33	20	63	35	95	2.79	10B2-33	20	80	45	*120	5.58	10B3-33	20	80	60	*120	7.92
34	172.05	179.0	10B1-34	20	63	35	95	2.88	10B2-34	20	80	45	*120	5.83	10B3-34	20	80	60	*120	8.34
35	177.10	184.1	10B1-35	20	63	35	95	2.98	10B2-35	20	80	45	*120	6.10	10B3-35	20	80	60	*120	8.78
36	182.15	189.1	10B1-36	20	67	35	100	3.23	10B2-36	20	80	45	*120	6.37	10B3-36	25	80	60	*120	9.14
37	187.20	194.2	10B1-37	20	67	35	100	3.33	10B2-37	20	80	45	*120	6.65	10B3-37	25	80	60	*120	9.60
38	192.24	199.2	10B1-38	20	67	35	100	3.43	10B2-38	20	80	45	*120	6.93	10B3-38	25	80	60	*120	10.10
39	197.29	204.2	10B1-39	20	67	35	100	3.53	10B2-39	20	80	45	*120	7.23	10B3-39	25	80	60	*120	10.60
40	202.34	209.3	10B1-40	20	67	35	100	3.64	10B2-40	20	80	45	*120	7.53	10B3-40	25	80	60	*120	11.10
42	212.43	219.9	10B1-42	20	67	40	*100	4.23	10B2-42	20	87	50	*130	9.01	10B3-42	25	87	60	*130	12.40
45	227.58	235.0	10B1-45	20	67	40	*100	4.59	10B2-45	20	87	50	*130	10.03	10B3-45	25	87	60	*130	14.07
48	242.73	250.2	10B1-48	20	67	40	*100	4.99	10B2-48	25	87	50	*130	11.06	10B3-48	25	87	60	*130	15.87
50	252.82	260.3	10B1-50	20	67	40	*100	5.26	10B2-50	25	87	50	*130	11.82	10B3-50	25	87	60	*130	17.13
57	288.18	296.0	10B1-57	25	67	40	*100	6.27	10B2-57	25	87	50	*130	14.79	10B3-57	25	87	60	*130	22.00
60	303.33	310.8	10B1-60	25	67	50	*100	7.33	10B2-60	25	87	63	*130	17.46	10B3-60	25	87	67	*130	24.95
<b>Cast Iron Wheels</b>																				
57	288.18	296.0	10B1-57	23	54	45	90	4.30	10B2-57	29	60	56	100	7.50	10B3-57	31	60	63	100	9.30
76	384.15	392.1	10B1-76	23	54	50	90	6.50	10B2-76	29	60	63	100	9.30	10B3-76	34	66	67	110	14.20
95	480.14	488.5	10B1-96	23	60	56	100	9.20	10B2-95	29	66	63	110	10.50	10B3-95	34	75	70	125	18.50
114	576.13	584.1	10B1-114	23	60	56	100	14.00	10B2-114	29	75	70	125	17.00	10B3-114	34	75	80	125	26.00

All dimensions in mm. †Min. tolerated bore which can be machined in sprocket.  
Steel Pinions 8 to 35 tooth minimum U.T.S. 600N/mm<sup>2</sup> - Above 35T - 410N/mm<sup>2</sup>  
Stock Sprockets can be reworked to customers bore and keyway requirements, on 48 hour service.  
Steel pinions (other than fabricated types) 8 to 35 tooth can be supplied with teeth induction hardened to 45Rc.  
\*Sprockets with an asterisk on hub Ø may be of fabricated construction.

# Standard Sprockets for 3/4" Pitch British Standard Chains Type 12B



Conforming to ISO Std. 606



**Steel Pinion**

**Cast Iron Wheel**

**Steel Pinion**

**Cast Iron Wheel**

**Steel Pinion**

**Cast Iron Wheel**

## Simplex Sprockets

Chain No. 12B-1  
Pitch 19.05mm  
Roller Dia. 12.07mm  
Inside Width 11.68mm  
Overall Width 24.5mm  
Tooth Width B<sub>1</sub> 11.1mm

## Duplex Sprockets

Chain No. 12B-2  
Pitch 19.05mm  
Roller Dia. 12.07mm  
Inside Width 11.68mm  
Overall Width 44.0mm  
Tooth Width B<sub>2</sub> 30.3mm

## Triplex Sprockets

Chain No. 12B-3  
Pitch 19.05mm  
Roller Dia. 12.07mm  
Inside Width 11.68mm  
Overall Width 63.4mm  
Tooth Width B<sub>3</sub> 49.8mm

No. Teeth Z	Pitch Circle Ø dp	Outside Ø do	Simplex Sprocket					Duplex Sprocket					Triplex Sprocket							
			Cat. No.	min. † bore d <sub>1</sub>	max. bore d <sub>1</sub>	L.T.B. L <sub>1</sub>	Hub dia. A <sub>1</sub>	Wt. kg	Cat. No.	min. † bore d <sub>2</sub>	max. bore d <sub>2</sub>	L.T.B. L <sub>2</sub>	Hub dia. A <sub>2</sub>	Wt. kg	Cat. No.	min. † bore d <sub>3</sub>	max. bore d <sub>3</sub>	L.T.B. L <sub>3</sub>	Hub dia. A <sub>3</sub>	Wt. kg
<b>Steel Pinions</b>																				
8	49.78	57.6	12B1-08	12	20	30	31	.21	12B2-08	12	20	45	31	.31	12B3-08	16	20	65	31	.45
9	55.70	62.0	12B1-09	12	25	30	37	.30	12B2-09	12	25	45	37	.44	12B3-09	16	25	65	37	.64
10	61.64	69.0	12B1-10	12	28	30	42	.38	12B2-10	12	28	45	42	.59	12B3-10	16	28	65	42	.87
11	67.61	75.0	12B1-11	14	31	35	46	.51	12B2-11	16	31	50	47	.77	12B3-11	20	31	70	47	1.10
12	73.61	81.5	12B1-12	14	35	35	52	.65	12B2-12	16	35	50	53	.98	12B3-12	20	35	70	53	1.39
13	79.59	87.5	12B1-13	14	38	35	58	.80	12B2-13	16	39	50	59	1.21	12B3-13	20	39	70	59	1.72
14	85.61	93.6	12B1-14	14	43	35	64	.97	12B2-14	16	43	50	65	1.46	12B3-14	20	43	70	65	2.08
15	91.63	99.8	12B1-15	14	46	35	70	1.16	12B2-15	16	47	50	71	1.74	12B3-15	20	47	70	71	2.47
16	97.65	105.5	12B1-16	16	50	35	75	1.34	12B2-16	20	51	50	77	2.04	12B3-16	20	51	70	77	2.80
17	103.67	111.5	12B1-17	16	54	35	80	1.53	12B2-17	20	56	50	83	2.36	12B3-17	20	56	70	83	3.25
18	109.71	118.0	12B1-18	16	54	35	80	1.61	12B2-18	20	59	50	89	2.70	12B3-18	20	59	70	89	3.74
19	115.75	124.2	12B1-19	16	54	35	80	1.70	12B2-19	20	63	50	95	3.07	12B3-19	20	63	70	95	4.25
20	121.78	129.7	12B1-20	16	54	35	80	1.79	12B2-20	20	67	50	100	3.44	12B3-20	20	67	70	100	4.78
21	127.82	136.0	12B1-21	20	60	40	90	2.34	12B2-21	20	67	50	100	3.70	12B3-21	20	67	70	100	5.20
22	133.86	141.8	12B1-22	20	60	40	90	2.44	12B2-22	20	67	50	100	3.97	12B3-22	20	67	70	100	5.65
23	139.90	149.0	12B1-23	20	60	40	90	2.55	12B2-23	20	74	50	110	4.51	12B3-23	20	74	70	110	6.38
24	145.94	153.9	12B1-24	20	60	40	90	2.66	12B2-24	20	74	50	110	4.81	12B3-24	20	74	70	110	6.87
25	152.00	160.0	12B1-25	20	60	40	90	2.77	12B2-25	20	80	50	120	5.41	12B3-25	20	80	70	120	7.67
26	158.04	165.9	12B1-26	20	63	40	95	3.06	12B2-26	20	80	50	120	5.74	12B3-26	20	80	70	120	8.21
27	164.09	172.3	12B1-27	20	63	40	95	3.19	12B2-27	20	80	50	120	6.08	12B3-27	20	80	70	120	8.77
28	170.13	178.0	12B1-28	20	63	40	95	3.32	12B2-28	20	80	50	120	6.44	12B3-28	20	80	70	120	9.36
29	176.19	184.1	12B1-29	20	63	40	95	3.45	12B2-29	20	80	50	120	6.81	12B3-29	20	80	70	120	9.96
30	182.25	190.5	12B1-30	20	63	40	95	3.59	12B2-30	20	80	50	120	7.19	12B3-30	20	80	70	120	10.6
31	188.31	196.3	12B1-31	20	67	40	100	3.73	12B2-31	20	80	50	*120	7.59	12B3-31	25	87	70	*130	11.6
32	194.35	203.3	12B1-32	20	67	40	100	3.88	12B2-32	20	80	50	*120	8.00	12B3-32	25	87	70	*130	12.3
33	200.40	209.3	12B1-33	20	67	40	100	4.04	12B2-33	20	80	50	*120	8.42	12B3-33	25	87	70	*130	13.0
34	206.46	214.6	12B1-34	20	67	40	100	4.20	12B2-34	20	80	50	*120	8.86	12B3-34	25	87	70	*130	13.7
35	212.52	221.0	12B1-35	20	67	40	100	4.36	12B2-35	20	80	50	*120	9.32	12B3-35	25	87	70	*130	14.4
36	218.58	226.8	12B1-36	25	67	40	100	4.65	12B2-36	25	80	50	*120	9.7	12B3-36	25	87	70	*130	15.2
37	224.64	232.9	12B1-37	25	67	40	100	4.82	12B2-37	25	80	50	*120	10.2	12B3-37	25	87	70	*130	16.0
38	230.69	239.0	12B1-38	25	67	40	100	5.00	12B2-38	25	80	50	*120	10.7	12B3-38	25	87	70	*130	16.8
39	236.75	245.1	12B1-39	25	67	40	100	5.19	12B2-39	25	80	50	*120	11.2	12B3-39	25	87	70	*130	17.6
40	242.81	251.3	12B1-40	25	67	40	100	5.37	12B2-40	25	80	50	*120	11.8	12B3-40	25	87	70	*130	18.5
42	254.92	264.5	12B1-42	25	74	56	*110	7.42	12B2-42	25	94	63	*140	15.1	12B3-42	25	94	70	*140	20.7
45	273.09	282.5	12B1-45	25	74	56	*110	8.06	12B2-45	25	94	63	*140	16.9	12B3-45	25	94	70	*140	23.6
48	291.27	300.1	12B1-48	25	74	56	*110	8.72	12B2-48	25	94	63	*140	18.7	12B3-48	25	94	70	*140	26.6
50	303.39	312.3	12B1-50	25	74	56	*110	9.21	12B2-50	25	94	63	*140	20.0	12B3-50	25	94	70	*140	28.8
57	345.81	355.4	12B1-57	25	74	56	*110	11.10	12B2-57	25	94	63	*140	25.2	12B3-57	30	94	70	*140	37.0
60	363.99	373.0	12B1-60	25	74	56	*110	11.94	12B2-60	25	94	63	*140	27.5	12B3-60	30	94	70	*140	40.8
<b>Cast Iron Wheels</b>																				
57	345.81	354.0	12B1-57	29	60	56	100	6.7	12B2-57	29	72	63	120	12.0	12B3-57	39	84	70	140	16.5
76	460.98	469.9	12B1-76	29	60	56	100	10.3	12B2-76	29	80	63	135	17.0	12B3-76	39	96	75	160	24.0
95	576.17	585.1	12B1-95	29	60	65	100	14.2	12B2-95	29	80	70	135	21.0	12B3-95	39	102	82	170	32.0
114	691.36	700.6	12B1-114	29	60	65	100	23.3	12B2-114	44	80	70	135	30.5	12B3-114	49	102	82	170	46.0

All dimensions in mm.

†Min. toleranced bore which can be machined in sprocket.

Steel Pinions 8 to 30 tooth minimum U.T.S. 600N/mm<sup>2</sup> - Above 30T - 410N/mm<sup>2</sup>

Stock Sprockets can be reworked to customers bore and keyway requirements, on 48 hour service.

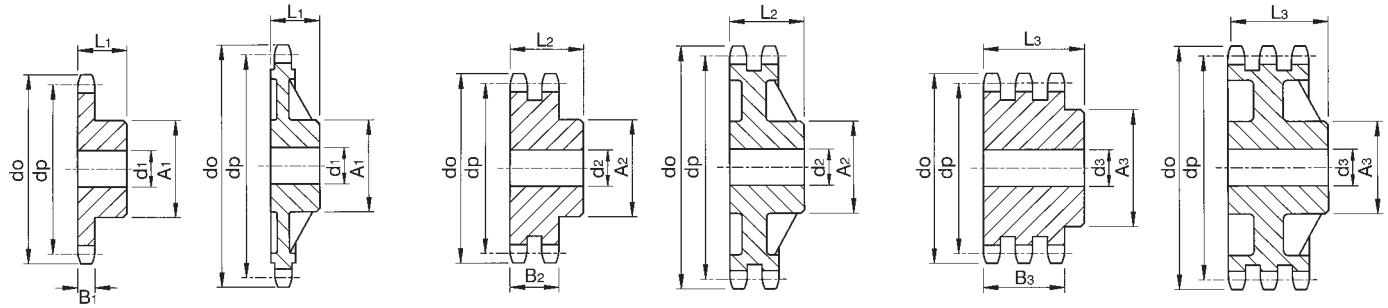
Steel pinions (other than fabricated types) 8 to 30 tooth can be supplied with teeth induction hardened to 45Rc.

\*Sprockets with an asterisk on hub Ø may be of fabricated construction.

# Standard Sprockets for 1" Pitch British Standard Chains Type 16B



Conforming to ISO Std 606



Steel Pinion    Cast Iron Wheel    Steel Pinion    Cast Iron Wheel    Steel Pinion    Cast Iron Wheel

## Simplex Sprockets

Chain No. 16B-1  
Pitch 25.4mm  
Roller Dia. 15.88mm  
Inside Width 17.02mm  
Overall Width 38.7mm  
Tooth Width B<sub>1</sub> 16.2mm

## Duplex Sprockets

Chain No. 16B-2  
Pitch 25.4mm  
Roller Dia. 15.88mm  
Inside Width 17.02mm  
Overall Width 70.7mm  
Tooth Width B<sub>2</sub> 47.7mm

## Triplex Sprockets

Chain No. 16B-3  
Pitch 25.4mm  
Roller Dia. 15.88mm  
Inside Width 17.02mm  
Overall Width 102.5mm  
Tooth Width B<sub>3</sub> 79.6mm

No. Teeth Z	Pitch Circle Ø dp	Outside Ø do	Simplex Sprocket						Duplex Sprocket						Triplex Sprocket					
			Cat. No.	Min.† Bore d <sub>1</sub>	Max. Bore d <sub>1</sub>	L.T.B. L <sub>1</sub>	Hub Ø A <sub>1</sub>	App. Weight kg	Cat. No.	Min.† Bore d <sub>2</sub>	Max. Bore d <sub>2</sub>	L.T.B. L <sub>2</sub>	Hub Ø A <sub>2</sub>	App. Weight kg	Cat. No.	Min.† Bore d <sub>3</sub>	Max. Bore d <sub>3</sub>	L.T.B. L <sub>3</sub>	Hub Ø A <sub>3</sub>	App. Weight kg
<b>Steel Pinions</b>																				
8	66.37	77.0	16B1-08	16	28	35	42	.47	16B2-08	16	28	65	42	.81	16B3-08	20	28	95	42	1.18
9	74.27	85.0	16B1-09	16	34	35	50	.65	16B2-09	16	34	65	50	1.15	16B3-09	20	34	95	50	1.68
10	82.19	93.0	16B1-10	16	36	35	55	.82	16B2-10	16	37	65	56	1.52	16B3-10	20	37	95	56	2.23
11	90.14	99.5	16B1-11	16	40	40	61	1.06	16B2-11	20	43	70	64	2.08	16B3-11	25	43	100	64	2.85
12	98.14	109.0	16B1-12	16	46	40	69	1.34	16B2-12	20	47	70	72	2.60	16B3-12	25	47	100	72	3.61
13	106.12	117.0	16B1-13	16	52	40	78	1.68	16B2-13	20	54	70	80	3.19	16B3-13	25	54	100	80	4.45
14	114.15	125.0	16B1-14	16	56	40	84	2.03	16B2-14	20	58	70	88	3.83	16B3-14	25	58	100	88	5.36
15	122.17	133.0	16B1-15	16	61	40	92	2.41	16B2-15	20	64	70	96	4.52	16B3-15	25	64	100	96	6.36
16	130.20	141.0	16B1-16	20	67	45	100	3.12	16B2-16	25	69	70	104	5.17	16B3-16	30	69	100	104	7.27
17	138.22	149.0	16B1-17	20	67	45	100	3.31	16B2-17	25	75	70	112	5.98	16B3-17	30	75	100	112	8.43
18	146.28	157.0	16B1-18	20	67	45	100	3.52	16B2-18	25	80	70	120	6.84	16B3-18	30	80	100	120	9.67
19	154.33	165.2	16B1-19	20	67	45	100	3.74	16B2-19	25	85	70	128	7.76	16B3-19	30	85	100	128	11.0
20	162.38	173.2	16B1-20	20	67	45	100	3.97	16B2-20	25	87	70	130	8.52	16B3-20	30	87	100	130	12.2
21	170.43	181.2	16B1-21	20	74	50	110	4.89	16B2-21	25	87	70	*130	9.2	16B3-21	30	87	100	*130	13.4
22	178.48	189.3	16B1-22	20	74	50	110	5.14	16B2-22	25	87	70	*130	10.0	16B3-22	30	87	100	*130	14.7
23	186.53	197.5	16B1-23	20	74	50	110	5.41	16B2-23	25	87	70	*130	10.8	16B3-23	30	87	100	*130	16.0
24	194.59	205.5	16B1-24	20	74	50	110	5.69	16B2-24	25	87	70	*130	11.7	16B3-24	30	87	100	*130	17.4
25	202.66	213.5	16B1-25	20	74	50	110	5.99	16B2-25	25	87	70	*130	12.5	16B3-25	30	87	100	*130	18.8
26	210.72	221.6	16B1-26	20	80	50	120	6.78	16B2-26	25	87	70	*130	13.5	16B3-26	30	87	100	*130	20.4
27	218.79	229.6	16B1-27	20	80	50	120	7.10	16B2-27	25	87	70	*130	14.4	16B3-27	30	87	100	*130	21.9
28	226.85	237.7	16B1-28	20	80	50	120	7.43	16B2-28	25	87	70	*130	15.4	16B3-28	30	87	100	*130	23.6
29	234.92	245.8	16B1-29	20	80	50	120	7.78	16B2-29	25	87	70	*130	16.4	16B3-29	30	87	100	*130	25.3
30	243.00	254.0	16B1-30	20	80	50	120	8.13	16B2-30	25	87	70	*130	17.5	16B3-30	30	87	100	*130	27.1
31	251.08	262.0	16B1-31	25	80	50	*120	8.50	16B2-31	25	94	70	*140	19.0	16B3-31	30	94	100	*140	29.3
32	259.13	270.0	16B1-32	25	80	50	*120	8.88	16B2-32	25	94	70	*140	20.1	16B3-32	30	94	100	*140	31.2
33	267.21	278.5	16B1-33	25	80	50	*120	9.28	16B2-33	25	94	70	*140	21.3	16B3-33	30	94	100	*140	33.1
34	275.28	287.0	16B1-34	25	80	50	*120	9.68	16B2-34	25	94	70	*140	22.5	16B3-34	30	94	100	*140	35.2
35	283.36	296.2	16B1-35	25	80	50	*120	10.10	16B2-35	25	94	70	*140	23.8	16B3-35	30	94	100	*140	37.3
36	291.44	304.6	16B1-36	25	80	50	*120	10.5	16B2-36	25	94	70	*140	25.1	16B3-36	30	94	100	*140	39.4
37	299.51	312.6	16B1-37	25	80	50	*120	11.0	16B2-37	25	94	70	*140	26.4	16B3-37	30	94	100	*140	41.6
38	307.59	320.7	16B1-38	25	80	50	*120	11.5	16B2-38	25	94	70	*140	27.8	16B3-38	30	94	100	*140	43.9
39	315.67	328.8	16B1-39	25	80	50	*120	11.9	16B2-39	25	94	70	*140	29.2	16B3-39	30	94	100	*140	46.3
40	323.75	336.9	16B1-40	25	80	50	*120	12.4	16B2-40	25	94	70	*140	30.7	16B3-40	30	94	100	*140	48.7
42	339.89	353.0	16B1-42	25	94	70	*125	17.4	16B2-42	25	100	80	*150	35.6	16B3-42	30	107	100	*160	54.7
45	364.12	377.1	16B1-45	25	94	70	*125	19.0	16B2-45	25	100	80	*150	40.4	16B3-45	30	107	100	*160	62.7
48	388.36	401.3	16B1-48	25	94	70	*125	20.8	16B2-48	30	100	80	*150	45.5	16B3-48	30	107	100	*160	71.3
50	404.52	417.4	16B1-50	25	94	70	*125	22.0	16B2-50	30	100	80	*150	49.1	16B3-50	30	107	100	*160	77.3
57	461.08	474.0	16B1-57	30	94	70	*125	26.7	16B2-57	30	107	90	*160	65.2	16B3-57	40	120	110	*180	102.9
60	485.33	498.3	16B1-60	30	94	80	*140	30.1	16B2-60	40	107	90	*160	71.4	16B3-60	40	120	110	*180	113.8
<b>Cast Iron Wheels</b>																				
57	461.08	474.0	16B1-57	34	75	70	125	13.0	16B2-57	39	96	90	160	20.5	16B3-57	44	100	100	165	42.0
76	614.64	627.0	16B1-76	34	84	80	140	25.3	16B2-76	39	105	95	175	44.0	16B3-76	44	120	110	200	63.0
95	768.22	781.0	16B1-95	39	84	80	140	36.0	16B2-95	44	105	95	175	56.0	16B3-95	49	120	110	200	88.0
114	921.81	934.0	16B1-114	39	90	80	150	46.5	16B2-114	44	105	95	175	61.0	16B3-114	49	120	115	200	90.0

All dimensions in mm.

Steel Pinions 8 to 21 tooth minimum U.T.S. 600N/mm<sup>2</sup> - Above 21T - 410N/mm<sup>2</sup>

\*Sprockets with an asterisk on hub Ø may be of fabricated construction.

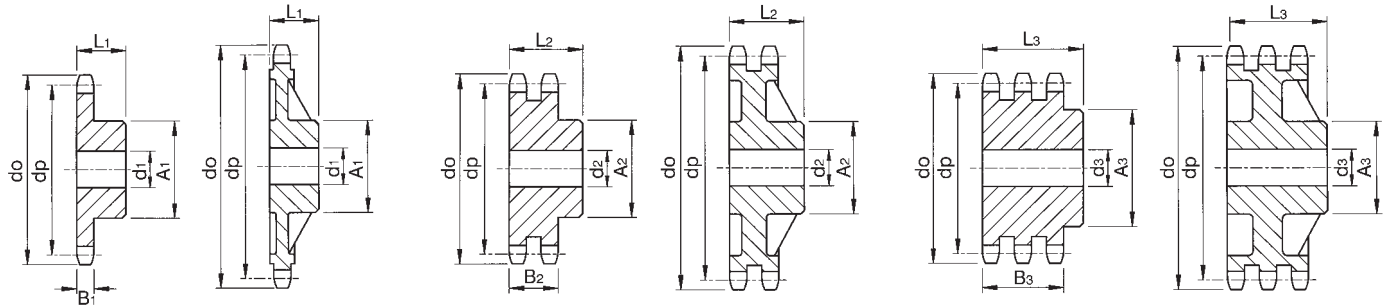
Stock Sprockets can be reworked to customers bore and keyway requirements, on 48 hour service.

Steel pinions (other than fabricated types) 8 to 21 tooth can be supplied with teeth induction hardened to 45Rc.

†Min. tolerated bore which can be machined in sprocket.

# Standard Sprockets for 1<sup>1</sup>/<sub>4</sub>" Pitch British Standard Chains Type 20B

Conforming to ISO Std 606



Steel Pinion    Cast Iron Wheel    Steel Pinion    Cast Iron Wheel    Steel Pinion    Cast Iron Wheel

### Simplex Sprockets

Chain No. 20B-1  
Pitch 31.75mm  
Roller Dia. 19.05mm  
Inside Width 19.56mm  
Overall Width 44.1mm  
Tooth Width B<sub>1</sub> 18.5mm

### Duplex Sprockets

Chain No. 20B-2  
Pitch 31.75mm  
Roller Dia. 19.05mm  
Inside Width 19.56mm  
Overall Width 80.5mm  
Tooth Width B<sub>2</sub> 54.6mm

### Triplex Sprockets

Chain No. 20B-3  
Pitch 31.75mm  
Roller Dia. 19.05mm  
Inside Width 19.56mm  
Overall Width 117.1mm  
Tooth Width B<sub>3</sub> 91.0mm

No. Teeth Z	Pitch Circle Ø dp	Outside Ø do	Simplex Sprocket						Duplex Sprocket						Triplex Sprocket					
			Cat. No.	Min.† Bore d <sub>1</sub>	Max. Bore d <sub>1</sub>	L.T.B. L <sub>1</sub>	Hub Ø A <sub>1</sub>	App. Weight kg	Cat. No.	Min.† Bore d <sub>2</sub>	Max. Bore d <sub>2</sub>	L.T.B. L <sub>2</sub>	Hub Ø A <sub>2</sub>	App. Weight kg	Cat. No.	Min.† Bore d <sub>3</sub>	Max. Bore d <sub>3</sub>	L.T.B. L <sub>3</sub>	Hub Ø A <sub>3</sub>	App. Weight kg
<b>Steel Pinions</b>																				
8	82.96	98.1	20B1-08	20	35	40	53	.85	20B2-08	20	35	75	53	1.57	20B3-08	25	35	110	53	2.14
9	92.84	108.0	20B1-09	20	42	40	63	1.18	20B2-09	20	42	75	63	2.19	20B3-09	25	42	110	63	3.04
10	102.74	117.9	20B1-10	20	46	40	70	1.50	20B2-10	20	46	75	70	2.84	20B3-10	25	46	110	70	4.02
11	112.68	127.8	20B1-11	20	51	45	77	2.02	20B2-11	25	54	80	80	3.71	20B3-11	30	54	115	80	5.17
12	122.68	137.8	20B1-12	20	58	45	88	2.57	20B2-12	25	60	80	90	4.65	20B3-12	30	60	115	90	6.53
13	132.65	147.8	20B1-13	20	65	45	98	3.14	20B2-13	25	67	80	100	5.69	20B3-13	30	67	115	100	8.03
14	142.68	157.8	20B1-14	20	72	45	108	3.77	20B2-14	25	74	80	110	6.83	20B3-14	30	74	115	110	9.68
15	152.72	167.9	20B1-15	20	78	45	118	4.45	20B2-15	25	80	80	120	8.07	20B3-15	30	80	115	120	11.5
16	162.75	177.9	20B1-16	25	80	50	120	5.22	20B2-16	30	80	80	120	8.88	20B3-16	30	80	115	120	13.1
17	172.78	187.9	20B1-17	25	80	50	120	5.57	20B2-17	30	80	80	120	9.90	20B3-17	30	80	115	120	14.7
18	182.85	198.0	20B1-18	25	80	50	120	5.95	20B2-18	30	80	80	*120	11.0	20B3-18	30	80	115	*120	16.5
19	192.91	208.1	20B1-19	25	80	50	120	6.35	20B2-19	30	80	80	*120	12.2	20B3-19	30	80	115	*120	18.4
20	202.98	218.1	20B1-20	25	80	50	120	6.77	20B2-20	30	80	80	*120	13.4	20B3-20	30	80	115	*120	20.5
21	213.04	228.2	20B1-21	30	94	55	140	8.73	20B2-21	30	94	80	*140	15.5	20B3-21	30	94	115	*140	23.4
22	223.11	238.2	20B1-22	30	94	55	140	9.20	20B2-22	30	94	80	*140	16.9	20B3-22	30	94	115	*140	25.6
23	233.17	248.3	20B1-23	30	94	55	140	9.68	20B2-23	30	94	80	*140	18.3	20B3-23	30	94	115	*140	28.0
24	243.23	258.4	20B1-24	30	94	55	140	10.2	20B2-24	30	94	80	*140	19.8	20B3-24	30	94	115	*140	30.5
25	253.33	268.5	20B1-25	30	94	55	140	10.8	20B2-25	30	94	80	*140	21.4	20B3-25	30	94	115	*140	33.1
26	263.40	278.6	20B1-26	30	100	55	*150	12.0	20B2-26	30	100	80	*150	23.4	20B3-26	30	100	115	*150	36.2
27	273.49	288.6	20B1-27	30	100	55	*150	12.6	20B2-27	30	100	80	*150	25.1	20B3-27	30	100	115	*150	39.0
28	283.56	298.7	20B1-28	30	100	55	*150	13.2	20B2-28	30	100	80	*150	26.9	20B3-28	30	100	115	*150	42.0
29	293.65	308.8	20B1-29	30	100	55	*150	13.8	20B2-29	30	100	80	*150	28.8	20B3-29	30	100	115	*150	45.0
30	303.75	318.9	20B1-30	30	100	55	*150	14.4	20B2-30	30	100	80	*150	30.7	20B3-30	30	100	115	*150	48.2
31	313.85	329.0	20B1-31	30	100	55	*150	15.1	20B2-31	30	100	80	*150	32.6	20B3-31	30	100	115	*150	51.5
32	323.91	339.1	20B1-32	30	100	55	*150	15.8	20B2-32	30	100	80	*150	34.7	20B3-32	30	100	115	*150	54.9
33	334.01	349.2	20B1-33	30	100	55	*150	16.5	20B2-33	30	100	80	*150	36.8	20B3-33	30	100	115	*150	58.4
34	344.10	359.3	20B1-34	30	100	55	*150	17.2	20B2-34	30	100	80	*150	39.0	20B3-34	30	100	115	*150	62.0
35	354.20	369.4	20B1-35	30	100	55	*150	18.0	20B2-35	30	100	80	*150	41.2	20B3-35	30	100	115	*150	65.8
36	364.30	379.5	20B1-36	30	100	55	*150	18.8	20B2-36	30	100	80	*150	43.6	20B3-36	30	100	115	*150	69.6
37	374.39	389.5	20B1-37	30	100	55	*150	19.6	20B2-37	30	100	80	*150	45.9	20B3-37	30	100	115	*150	73.6
38	384.49	399.6	20B1-38	30	100	55	*150	20.4	20B2-38	30	100	80	*150	48.4	20B3-38	30	100	115	*150	77.7
39	394.59	409.7	20B1-39	30	100	55	*150	21.3	20B2-39	30	100	80	*150	50.9	20B3-39	30	100	115	*150	82.2
40	404.69	419.8	20B1-40	30	100	55	*150	22.2	20B2-40	30	100	80	*150	53.5	20B3-40	30	100	115	*150	86.2
42	424.86	440.0	20B1-42	30	100	70	*150	26.8	20B2-42	30	107	90	*160	61.5	20B3-42	40	120	110	*180	95.8
45	455.15	470.3	20B1-45	30	100	70	*150	29.7	20B2-45	30	107	90	*160	70.1	20B3-45	40	120	110	*180	110.2
48	485.45	500.6	20B1-48	30	100	70	*150	33.0	20B2-48	30	107	90	*160	79.4	20B3-48	40	120	110	*180	125.6
50	505.65	520.8	20B1-50	30	100	70	*150	35.2	20B2-50	30	107	90	*160	85.9	20B3-50	40	120	110	*180	136.4
57	576.35	591.5	20B1-57	30	100	80	*150	45.2	20B2-57	40	107	100	*160	112.0	20B3-57	40	120	125	*180	180.8
60	606.66	621.8	20B1-60	30	100	80	*150	49.2	20B2-60	40	107	100	*160	123.8	20B3-60	40	120	125	*180	200.3
<b>Cast Iron Wheels</b>																				
57	576.35	591.5	20B1-57	39	80	80	135	25.6	20B2-57	49	96	100	160	45.0	20B3-57	62	108	125	180	65.0
76	768.30	783.5	20B1-76	49	84	90	140	39.0	20B2-76	55	108	100	180	65.0	20B3-76	63	120	140	200	85.0

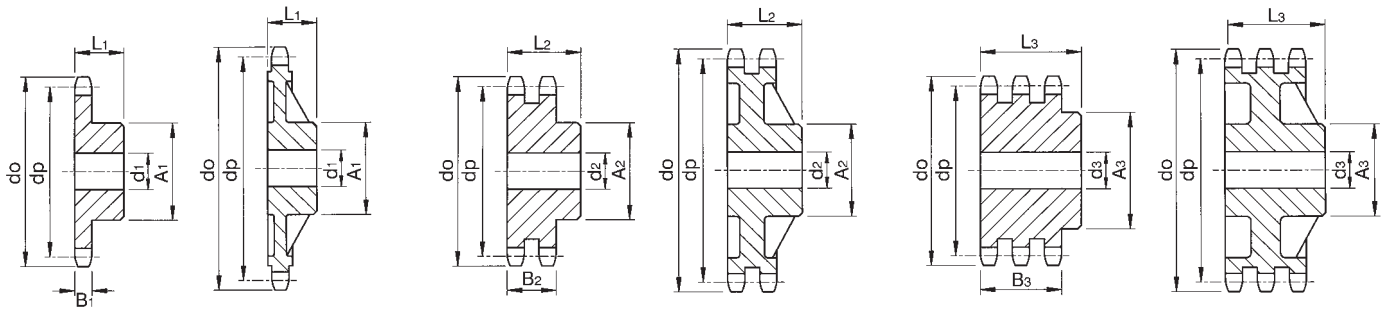
All dimensions in mm. †Min. tolerated bore which can be machined in sprocket.  
Steel Pinions 8 to 21 tooth minimum U.T.S. 600N/mm<sup>2</sup> - Above 21T - 410N/mm<sup>2</sup>  
Stock Sprockets can be reworked to customers bore and keyway requirements, on 48 hour service.  
\*Sprockets with asterisk on hub Ø may be of fabricated construction.  
Steel pinions (other than fabricated types) 8 to 21 tooth can be supplied with teeth induction hardened to 45Rc.





# Standard Sprockets for 1<sup>3</sup>/<sub>4</sub>" Pitch British Standard Chains Type 28B

Conforming to ISO Std 606



Steel Pinion    Cast Iron Wheel    Steel Pinion    Cast Iron Wheel    Steel Pinion    Cast Iron Wheel

## Simplex Sprockets

Chain No. 28B-1  
Pitch 44.45mm  
Roller Dia. 27.94mm  
Inside Width 30.99mm  
Overall Width 71.3mm  
Tooth Width B<sub>1</sub> 29.4mm

## Duplex Sprockets

Chain No. 28B-2  
Pitch 44.45mm  
Roller Dia. 127.94mm  
Inside Width 30.99mm  
Overall Width 130.3mm  
Tooth Width B<sub>2</sub> 88.4mm

## Triplex Sprockets

Chain No. 28B-3  
Pitch 44.45mm  
Roller Dia. 27.94mm  
Inside Width 30.99mm  
Overall Width 189.9mm  
Tooth Width B<sub>3</sub> 148.0mm

No. Teeth Z	Pitch Circle Ø dp	Outside Ø do	Simplex Sprocket						Duplex Sprocket						Triplex Sprocket					
			Cat. No.	Min. † Bore d <sub>1</sub>	Max. Bore d <sub>1</sub>	L.T.B. L <sub>1</sub>	Hub Ø A <sub>1</sub>	App. Weight kg	Cat. No.	Min. † Bore d <sub>2</sub>	Max. Bore d <sub>2</sub>	L.T.B. L <sub>2</sub>	Hub Ø A <sub>2</sub>	App. Weight kg	Cat. No.	Min. † Bore d <sub>3</sub>	Max. Bore d <sub>3</sub>	L.T.B. L <sub>3</sub>	Hub Ø A <sub>3</sub>	App. Weight kg
8	116.15	132.0	28B1-08	25	48	70	74	2.8	28B2-08	30	48	120	74	4.7	28B3-08	30	48	180	74	7.0
9	129.96	148.4	28B1-09	25	59	70	88	3.9	28B2-09	30	59	120	88	6.6	28B3-09	30	59	180	88	9.8
10	143.85	162.3	28B1-10	25	67	70	100	5.1	28B2-10	30	67	120	100	8.7	28B3-10	30	67	180	100	13.0
11	157.77	176.3	28B1-11	25	75	70	112	6.4	28B2-11	30	75	120	112	11.1	28B3-11	30	75	180	120	16.6
12	171.74	189.5	28B1-12	25	83	70	125	7.9	28B2-12	30	83	120	125	13.8	28B3-12	30	83	180	125	20.7
13	185.75	204.2	28B1-13	25	83	70	*125	9.1	28B2-13	30	83	120	*125	16.4	28B3-13	30	83	180	*125	24.8
14	199.76	218.2	28B1-14	25	87	70	*130	10.3	28B2-14	30	87	120	*130	19.2	28B3-14	30	87	180	*130	29.2
15	213.79	232.2	28B1-15	25	95	70	*145	11.9	28B2-15	30	95	120	*145	22.5	28B3-15	30	95	180	*145	34.4
16	227.84	246.3	28B1-16	30	107	75	*160	14.9	28B2-16	30	107	120	*160	26.3	28B3-16	30	107	180	*160	40.2
17	241.91	260.0	28B1-17	30	107	75	*160	16.0	28B2-17	30	107	120	*160	29.5	28B3-17	30	107	180	*160	45.5
18	255.98	274.0	28B1-18	30	107	75	*160	17.1	28B2-18	30	107	120	*160	32.9	28B3-18	30	107	180	*160	51.1
19	270.06	289.0	28B1-19	30	107	75	*160	18.3	28B2-19	30	120	120	*180	37.9	28B3-19	30	120	180	*180	58.5
20	284.15	303.0	28B1-20	30	107	75	*160	19.6	28B2-20	30	120	120	*180	41.7	28B3-20	30	120	180	*180	64.9
21	298.24	317.0	28B1-21	30	114	75	*170	21.8	28B2-21	30	120	120	*180	45.7	28B3-21	40	120	180	*180	70.8
22	312.34	331.0	28B1-22	30	114	75	*170	23.2	28B2-22	30	120	120	*180	50.0	28B3-22	40	120	180	*180	77.9
23	326.44	345.0	28B1-23	30	114	75	*170	24.7	28B2-23	30	120	120	*180	54.5	28B3-23	40	120	180	*180	85.4
24	340.55	359.0	28B1-24	30	114	75	*170	26.2	28B2-24	30	120	120	*180	59.2	28B3-24	40	120	180	*180	93.2
25	354.66	373.0	28B1-25	30	114	75	*170	27.9	28B2-25	30	120	120	*180	64.0	28B3-25	40	120	180	*180	101.8
26	368.77	387.0	28B1-26	30	114	75	*170	29.6	28B2-26	40	120	120	*180	69.2	28B3-26	40	120	180	*180	109.9
27	382.88	401.4	28B1-27	30	114	75	*170	31.3	28B2-27	40	120	120	*180	74.5	28B3-27	40	120	180	*180	118.8
28	397.00	416.0	28B1-28	30	114	75	*170	33.2	28B2-28	40	120	120	*180	80.0	28B3-28	40	120	180	*180	128.1
29	411.12	430.0	28B1-29	30	114	75	*170	35.0	28B2-29	40	120	120	*180	85.8	28B3-29	40	120	180	*180	137.8
30	425.24	444.0	28B1-30	30	114	75	*170	37.0	28B2-30	40	120	120	*180	91.3	28B3-30	40	120	180	*180	148.0
31	439.37	458.0	28B1-31	30	120	75	*180	40.1												
32	453.49	472.0	28B1-32	30	120	75	*180	42.2												
33	467.62	486.0	28B1-33	30	120	75	*180	44.4												
34	481.75	500.0	28B1-34	30	120	75	*180	46.6												
35	495.88	514.0	28B1-35	30	120	75	*180	48.9	28B2-35	40	134	120	*200	126.0	28B3-35	40	134	180	*200	205.0
36	510.01	529.0	28B1-36	30	120	75	*180	51.3												
37	524.14	543.0	28B1-37	30	120	75	*180	53.8												
38	538.27	557.0	28B1-38	30	120	75	*180	56.3	28B2-38	40	134	120	*200	148.5	28B3-38	40	134	180	*200	242.0
39	552.40	571.0	28B1-39	30	120	75	*180	58.9												
40	566.54	585.0	28B1-40	30	120	75	*180	61.6	28B2-40	40	134	120	*200	164.5	28B3-40	40	134	180	*200	270.0
45	637.22	656.0	28B1-45	30	120	90	*180	82.0	28B2-45	40	135	120	*200	210.0	28B3-45	40	135	180	*200	344.0
50	707.91	726.0	28B1-50	40	120	90	*180	98.0	28B2-50	40	135	120	*200	259.0	28B3-50	40	135	180	*200	427.0
57	806.89	825.0	28B1-57	40	125	100	*200	130.0	28B2-57	40	145	120	*220	340.0	28B3-57	40	145	180	*220	560.0

All dimensions in mm.

†Min. tolerated bore which can be machined in sprocket.

Steel Pinions 8 to 21 tooth minimum U.T.S. 600 N/mm<sup>2</sup> - Above 21T - 410N/mm<sup>2</sup>

Stock Sprockets can be reworked to customers bore and keyway requirements, on 48 hour service.

\*Sprockets with asterisk on hub Ø may be of fabricated construction.

Steel pinions (other than fabricated types) 8 to 21 tooth can be supplied with teeth induction hardened to 45Rc.

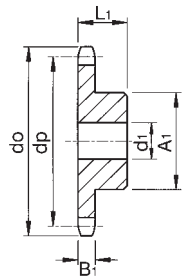
Tel +44(0) 121 360 0155

Fax +44(0) 121 325 1079

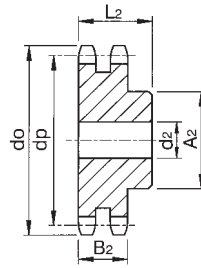
Email sales@crossmorse.com

# Standard Sprockets for 2" Pitch British Standard Chains Type 32B

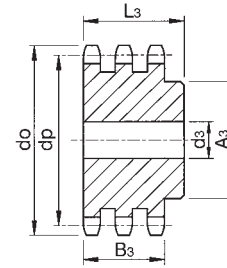
Conforming to ISO Std 606



Steel Pinion



Steel Pinion



Steel Pinion

## Simplex Sprockets

Chain No. 32B-1  
Pitch 50.8mm  
Roller Dia. 29.21mm  
Inside Width 30.99mm  
Overall Width 68.6mm  
Tooth Width B<sub>1</sub> 29.4mm

## Duplex Sprockets

Chain No. 32B-2  
Pitch 50.8mm  
Roller Dia. 29.21mm  
Inside Width 30.99mm  
Overall Width 126.8mm  
Tooth Width B<sub>2</sub> 87.4mm

## Triplex Sprockets

Chain No. 32B-3  
Pitch 50.8mm  
Roller Dia. 29.21mm  
Inside Width 30.99mm  
Overall Width 185.0mm  
Tooth Width B<sub>3</sub> 146.0mm

No. Teeth Z	Pitch Circle Ø dp	Outside Ø do	Simplex Sprocket						Duplex Sprocket						Triplex Sprocket					
			Cat. No.	Min. † Bore d <sub>1</sub>	Max. Bore d <sub>1</sub>	L.T.B. L <sub>1</sub>	Hub Ø A <sub>1</sub>	App. Weight kg	Cat. No.	Min. † Bore d <sub>2</sub>	Max. Bore d <sub>2</sub>	L.T.B. L <sub>2</sub>	Hub Ø A <sub>2</sub>	App. Weight kg	Cat. No.	Min. † Bore d <sub>3</sub>	Max. Bore d <sub>3</sub>	L.T.B. L <sub>3</sub>	Hub Ø A <sub>3</sub>	App. Weight kg
8	132.69	153.2	32B1-08	30	55	80	82	4.2	32B2-08	30	55	120	82	6.6	32B3-08	30	55	180	82	9.8
9	148.54	169.0	32B1-09	30	58	80	88	5.7	32B2-09	30	58	120	88	9.1	32B3-09	30	58	180	88	13.6
10	164.44	185.0	32B1-10	30	69	80	104	7.6	32B2-10	30	69	120	104	12.0	32B3-10	30	69	180	104	17.9
11	180.34	200.8	32B1-11	30	80	80	*120	9.2	32B2-11	35	80	120	120	14.7	32B3-11	35	80	180	120	22.1
12	196.29	216.8	32B1-12	30	90	80	*133	10.8	32B2-12	35	90	120	*133	17.8	32B3-12	35	90	180	*133	27.1
13	212.29	232.8	32B1-13	30	97	80	*145	12.9	32B2-13	35	97	120	*145	21.6	32B3-13	35	97	180	*145	32.8
14	228.29	248.8	32B1-14	30	103	80	*155	15.0	32B2-14	35	103	120	*155	25.5	32B3-14	35	103	180	*155	38.9
15	244.30	264.8	32B1-15	30	107	80	*160	16.8	32B2-15	35	107	120	*160	29.4	32B3-15	35	107	180	*160	45.2
16	260.40	280.9	32B1-16	30	107	90	*160	19.2	32B2-16	40	107	120	*160	33.0	32B3-16	40	107	180	*160	51.2
17	276.40	296.9	32B1-17	30	114	90	*170	21.9	32B2-17	40	120	120	*180	38.5	32B3-17	40	120	180	*180	59.5
18	292.55	313.0	32B1-18	30	114	90	*170	23.4	32B2-18	40	120	120	*180	42.9	32B3-18	40	120	180	*180	66.9
19	308.66	329.1	32B1-19	30	114	90	*170	25.0	32B2-19	40	134	120	*200	49.2	32B3-19	40	134	180	*200	76.3
20	324.71	345.2	32B1-20	30	120	90	*180	28.0	32B2-20	40	134	120	*200	54.2	32B3-20	40	134	180	*200	84.6
21	340.82	361.3	32B1-21	40	120	90	*180	29.8	32B2-21	40	134	120	*200	59.4	32B3-21	40	134	180	*200	93.3
22	356.98	377.5	32B1-22	40	120	90	*180	31.6	32B2-22	40	134	120	*200	65.0	32B3-22	40	134	180	*200	102.5
23	373.08	393.6	32B1-23	40	120	90	*180	33.6	32B2-23	40	134	120	*200	70.8	32B3-23	40	134	180	*200	112.2
24	389.18	409.7	32B1-24	40	120	90	*180	35.6	32B2-24	40	134	120	*200	76.9	32B3-24	40	134	180	*200	122.4
25	405.33	425.8	32B1-25	40	120	90	*180	37.7	32B2-25	40	134	120	*200	83.3	32B3-25	40	134	180	*200	133.0
26	421.44	441.9	32B1-26	40	120	90	*180	40.0	32B2-26	40	134	120	*200	89.9	32B3-26	40	134	180	*200	144.1
27	437.59	458.1	32B1-27	40	120	90	*180	42.3	32B2-27	40	134	120	*200	96.8	32B3-27	40	134	180	*200	155.6
28	453.69	474.2	32B1-28	40	120	90	*180	44.7	32B2-28	40	134	120	*200	104.0	32B3-28	40	134	180	*200	167.6
29	469.90	490.4	32B1-29	40	120	90	*180	47.2												
30	486.00	506.5	32B1-30	40	120	90	*180	49.7	32B2-30	40	134	120	*200	119.3	32B3-30	40	134	180	*200	193.0
32	581.26	538.8	32B1-32	40	120	90	*180	55.2												
35	566.72	589.5	32B1-35	40	120	90	*180	64.0												
38	615.14	635.5	32B1-38	40	120	90	*180	73.6	32B2-38	40	134	120	*200	176.0	32B3-38	40	134	180	*200	285.0
40	647.49	670.3	32B1-40	40	120	90	*180	80.5												
45	728.25	751.0	32B1-45	40	120	100	*180	112.7	32B2-45	40	140	120	*200	274.0	32B3-45	40	140	180	*200	449.0
50	809.04	831.8	32B1-50	40	120	100	*180	134.9	32B2-50	40	140	120	*200	338.0	32B3-50	40	140	180	*200	557.0
57	922.16	993.4	32B1-57	40	120	100	*180	187.1	32B2-57	40	145	120	*220	476.0	32B3-57	40	165	180	*250	782.0

All dimensions in mm.

Steel Pinions 8 to 21 tooth minimum U.T.S. 600 N/mm<sup>2</sup> - Above 21T - 410N/mm<sup>2</sup>

Stock Sprockets can be reworked to customers bore and keyway requirements, on 48 hour service.

\*Sprockets with asterisk on hub Ø may be of fabricated construction.

Steel pinions (other than fabricated types) 8 to 21 tooth can be supplied with teeth induction hardened to 45Rc.

†Min. toleranced bore which can be machined in sprocket.

# Standard Stainless Steel Sprockets for 3/8" to 1" Pitch British Standard Chains Types 06S1-12 to 10S1-18

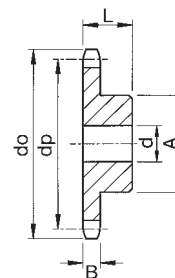


Conforming to ISO Std 606

## Sprocket Data

A standard stock range of sprockets manufactured from Stainless Steel type ANSI 304L for maximum corrosion resistance. These sprockets are suitable for corrosive environments, including the high temperature and moisture conditions found in many food process and packaging operations, and will also withstand many alkaline and acidic fluids at elevated temperatures.

The sprockets are suitable to use with either stainless steel chains or plated chains, refer page 18.



Chain No.	Tooth Width B
06B-1	5.3
08B-1	7.2
10B-1	9.2
ANSI 50	9.2
12B-1	11.2
16B-1	16.2

Cat No.	Pitch	No of Teeth	Pitch Circle Ø dp	Outside Ø do	Min. Bore d	Max. Bore d	L.T.B. L	Hub Ø A	Weight
06S1-12	3/8"	12	36.80	40.00	8.00	16.00	25.00	25.00	0.11
06S1-13		13	39.80	43.00	10.00	19.00	25.00	28.00	0.13
06S1-14		14	42.80	46.30	10.00	20.00	25.00	31.00	0.16
06S1-15		15	45.81	49.30	10.00	23.00	25.00	34.00	0.19
06S1-16		16	48.82	52.30	10.00	25.00	28.00	37.00	0.24
06S1-17		17	51.84	55.30	10.00	27.00	28.00	40.00	0.29
06S1-18		18	54.85	58.30	10.00	29.00	28.00	43.00	0.33
06S1-19		19	57.87	61.30	10.00	30.00	28.00	45.00	0.37
06S1-20		20	60.89	64.30	10.00	31.00	28.00	46.00	0.39
06S1-21		21	63.91	68.00	12.00	32.00	28.00	48.00	0.42
06S1-22		22	66.93	71.00	12.00	34.00	28.00	50.00	0.47
06S1-23		23	69.95	73.50	12.00	35.00	28.00	52.00	0.50
06S1-24		24	72.97	77.00	12.00	36.00	28.00	54.00	0.55
06S1-25		25	76.00	80.00	12.00	38.00	28.00	57.00	0.61
06S1-30		30	91.12	94.70	12.00	40.00	28.00	60.00	0.92
08S1-12	1/2"	12	49.07	53.00	10.00	22.00	28.00	33.00	0.21
08S1-13		13	53.07	57.90	10.00	25.00	28.00	37.00	0.26
08S1-14		14	57.07	61.80	10.00	27.00	28.00	41.00	0.31
08S1-15		15	61.08	65.50	10.00	30.00	28.00	45.00	0.39
08S1-16		16	65.10	69.90	12.00	34.00	28.00	50.00	0.46
08S1-17		17	69.12	73.60	12.00	35.00	28.00	52.00	0.51
08S1-18		18	73.14	78.00	12.00	37.00	28.00	56.00	0.59
08S1-19		19	77.16	81.70	12.00	40.00	28.00	60.00	0.67
08S1-20		20	81.18	86.00	12.00	43.00	28.00	64.00	0.55
08S1-21		21	85.21	90.10	14.00	45.00	28.00	68.00	0.84
08S1-22		22	89.24	93.80	14.00	46.00	28.00	70.00	0.91
08S1-23		23	93.27	98.10	14.00	46.00	28.00	70.00	0.94
08S1-24		24	97.30	101.80	14.00	46.00	28.00	70.00	1.00
08S1-25		25	101.33	105.80	14.00	54.00	28.00	80.00	1.10
08S1-26		26	105.36	110.00	16.00	46.00	28.00	70.00	1.09
08S1-27	27	109.40	114.00	16.00	46.00	30.00	80.00	1.12	
08S1-30	30	121.50	126.30	16.00	54.00	30.00	80.00	1.48	
08S1-34	34	137.64	142.60	16.00	63.00	30.00	90.00	1.87	
08S1-38	38	153.79	158.60	20.00	63.00	35.00	90.00	2.00	
08S1-40	40	161.87	166.80	20.00	63.00	35.00	90.00	2.38	
10S1-10	5/8"	10	41.10	57.50	10.00	24.00	25.00	35.00	0.22
10S1-11		11	45.08	63.00	12.00	25.00	30.00	37.00	0.29
10S1-12		12	49.07	68.00	12.00	28.00	30.00	42.00	0.38
10S1-13		13	66.33	73.00	12.00	31.00	30.00	47.00	0.47
10S1-14		14	71.34	78.00	12.00	35.00	30.00	52.00	0.60
10S1-15		15	76.35	83.00	12.00	38.00	30.00	57.00	0.67
10S1-16		16	81.37	88.00	12.00	40.00	30.00	60.00	0.76
10S1-17		17	86.39	93.00	12.00	40.00	30.00	60.00	0.82
10S1-18		18	91.42	98.30	12.00	46.00	30.00	70.00	1.02

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# Standard Stainless Steel Sprockets for 3/8" to 1" Pitch British Standard Chains Types 10S1-19 to 16S1-30

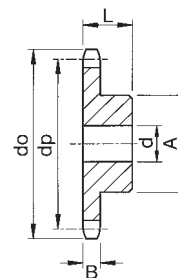


Conforming to ISO Std 606

## Sprocket Data

A standard stock range of sprockets manufactured from Stainless Steel type ANSI 304L for maximum corrosion resistance. These sprockets are suitable for corrosive environments, including the high temperature and moisture conditions found in many food process and packaging operations, and will also withstand many alkaline and acidic fluids at elevated temperatures.

The sprockets are suitable to use with either stainless steel chains or plated chains, refer page 18.



Chain No.	Tooth Width B
06B-1	5.3
08B-1	7.2
10B-1	9.2
ANSI 50	9.2
12B-1	11.2
16B-1	16.2

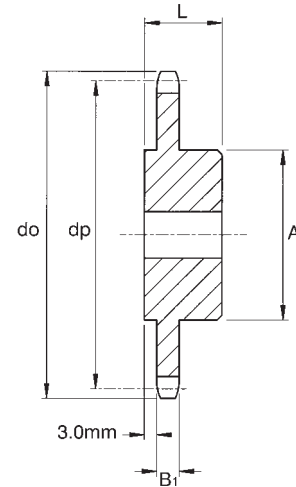
Cat No.	Pitch	No of Teeth	Pitch Circle Ø dp	Outside Ø do	Min. Bore d	Max. Bore d	L.T.B. L	Hub Ø A	Weight
10S1-19	5/8"	19	96.45	103.30	14.00	50.00	30.00	75.00	1.15
10S1-20		20	101.48	108.40	14.00	50.00	30.00	75.00	1.21
10S1-21		21	106.51	113.40	16.00	54.00	30.00	80.00	1.36
10S1-22		22	111.55	118.00	16.00	54.00	30.00	80.00	1.40
10S1-23		23	116.59	123.40	16.00	54.00	30.00	80.00	1.46
10S1-24		24	121.62	128.30	16.00	54.00	30.00	80.00	1.53
10S1-25		25	126.66	134.00	16.00	54.00	30.00	80.00	1.59
10S1-26		26	131.70	139.00	20.00	57.00	35.00	85.00	1.82
10S1-30		30	151.87	158.80	20.00	60.00	35.00	90.00	2.39
10S1-35		35	177.10	184.10	20.00	63.00	35.00	95.00	2.00
12S1-11	3/4"	11	56.35	75.00	14.00	31.00	35.00	46.00	0.54
12S1-12		12	61.34	81.50	14.00	35.00	35.00	52.00	0.70
12S1-13		13	79.60	87.50	16.00	38.00	35.00	58.00	0.80
12S1-14		14	85.61	93.60	14.00	43.00	35.00	64.00	1.00
12S1-15		15	91.63	99.80	16.00	46.00	35.00	70.00	1.16
12S1-16		16	97.65	105.00	16.00	50.00	35.00	75.00	1.34
12S1-17		17	103.67	115.50	16.00	54.00	35.00	80.00	1.53
12S1-18		18	109.70	118.00	16.00	54.00	35.00	80.00	1.61
12S1-19		19	115.74	124.20	16.00	54.00	35.00	80.00	1.70
12S1-20		20	121.78	129.70	16.00	54.00	35.00	80.00	1.79
12S1-21		21	127.82	136.00	20.00	60.00	40.00	90.00	2.34
12S1-22		22	133.86	141.80	20.00	60.00	40.00	90.00	2.40
12S1-23		23	139.90	149.00	20.00	60.00	40.00	90.00	2.55
12S1-24		24	145.95	153.90	20.00	60.00	40.00	90.00	2.74
12S1-25	25	151.99	160.00	20.00	60.00	40.00	90.00	2.77	
12S1-27	27	164.09	144.00	20.00	57.00	35.00	85.00	2.77	
12S1-30	30	182.25	190.50	20.00	63.00	40.00	95.00	3.72	
16S1-12	1"	12	73.60	109.00	16.00	46.00	40.00	69.00	1.34
16S1-13		13	106.14	117.00	16.00	52.00	40.00	78.00	1.68
16S1-14		14	114.15	125.00	16.00	56.00	40.00	84.00	2.03
16S1-15		15	122.17	133.00	16.00	61.00	40.00	92.00	2.41
16S1-16		16	130.20	141.00	19.00	67.00	45.00	100.00	3.12
16S1-17		17	138.23	149.00	20.00	67.00	45.00	100.00	3.31
16S1-18		18	146.27	157.00	20.00	67.00	45.00	100.00	3.52
16S1-19		19	154.32	165.20	20.00	67.00	45.00	100.00	3.74
16S1-20		20	162.37	173.00	20.00	67.00	45.00	100.00	3.97
16S1-21		21	170.42	181.20	20.00	74.00	50.00	100.00	4.89
16S1-22		22	178.48	189.30	20.00	74.00	50.00	110.00	5.14
16S1-23		23	186.54	197.50	20.00	74.00	50.00	110.00	5.62
16S1-24		24	194.60	205.50	20.00	74.00	50.00	110.00	5.90
16S1-25		25	202.66	213.50	20.00	74.00	50.00	110.00	6.18
16S1-30		30	243.00	254.00	20.00	80.00	50.00	120.00	8.13

# Original T. D. Cross Sprockets

Refs. H11 and H11A with Double Boss  
to suit 1/2" Pitch Chains Types 086 and 08B-1



These sprockets are to original T. D. Cross & Sons dimensions with a small boss on the face side of the sprocket, to act as spacer. All sprockets, now manufactured from medium carbon steel for improved wear life, are suitable for induction hardening.



Simplex Sprocket

Sprocket Type	H11	H11A
Chain Ref.	086	08B-1
Chain Size	1/2" x 0.205"	1/2" x 5/16"
Roller Diameter	8.51mm	8.51mm
Tooth Width B <sub>1</sub>	4.7mm	7.2mm

## Sprocket Series H11 for 1/2" Pitch Narrow Series Chain Ref. 086

Cat No.	No. Teeth	Pitch Circle Ø dp	Outside Ø do max.	Stock Bore d H8	Max. Bore d max.	Hub dia. A	Length L	App. Weight kg
H11-10	10	41.10	46.3	12.70	18	27.0	25.4	0.11
H11-11	11	45.07	50.3	12.70	18	27.0	25.4	0.14
H11-12	12	49.07	54.4	12.70	24	35.0	25.4	0.18
H11-13	13	53.06	58.2	12.70	24	35.0	25.4	0.24
H11-14	14	57.07	62.3	12.70	27	41.3	25.4	0.29
H11-15	15	61.09	66.3	12.70	31	47.0	25.4	0.36
H11-16	16	65.10	70.4	12.70	31	47.0	25.4	0.41
H11-17	17	69.11	74.5	12.70	36	54.0	25.4	0.47
H11-18	18	73.14	78.3	12.70	36	54.0	25.4	0.52
H11-19	19	77.16	82.3	12.70	36	54.0	25.4	0.53
H11-20	20	81.19	86.4	12.70	36	54.0	25.4	0.56
H11-21	21	85.22	90.5	12.70	46	70.0	25.4	0.59
H11-22	22	89.24	94.5	12.70	46	70.0	25.4	0.62
H11-23	23	93.27	98.6	12.70	46	70.0	25.4	0.65
H11-24	24	97.29	102.6	12.70	46	70.0	25.4	0.68
H11-25	25	101.33	106.5	12.70	46	70.0	25.4	0.72
H11-26	26	105.36	110.5	12.70	46	70.0	25.4	0.76
H11-27	27	109.40	114.6	19.05	46	70.0	31.8	1.03
H11-28	28	113.42	118.6	19.05	46	70.0	31.8	1.06
H11-29	29	117.46	122.7	19.05	46	70.0	31.8	1.22
H11-30	30	121.50	126.8	19.05	46	70.0	31.8	1.30

## Sprocket Series H11A for 1/2" Pitch Narrow Series Chain Ref. 08B-1

Cat No.	No. Teeth	Pitch Circle Ø dp	Outside Ø do max.	Stock Bore d H8	Max. Bore d max.	Hub dia. A	Length L	App. Weight kg
H11A-10	10	41.10	46.3	12.70	18	27.0	25.4	0.11
H11A-11	11	45.07	50.3	12.70	18	27.0	25.4	0.14
H11A-12	12	49.07	54.4	12.70	24	35.0	25.4	0.18
H11A-13	13	53.06	58.2	12.70	24	35.0	25.4	0.24
H11A-14	14	57.07	62.3	12.70	27	41.3	25.4	0.29
H11A-15	15	61.09	66.3	12.70	31	47.0	25.4	0.36
H11A-16	16	65.10	70.4	12.70	31	47.0	25.4	0.41
H11A-17	17	69.11	74.5	12.70	36	54.0	25.4	0.47
H11A-18	18	73.14	78.3	12.70	36	54.0	25.4	0.52
H11A-19	19	77.16	82.3	12.70	36	54.0	25.4	0.53
H11A-20	20	81.19	86.4	12.70	36	54.0	25.4	0.56
H11A-21	21	85.22	90.5	12.70	46	70.0	25.4	0.59
H11A-22	22	89.24	94.5	12.70	46	70.0	25.4	0.62
H11A-23	23	93.27	98.6	12.70	46	70.0	25.4	0.65
H11A-24	24	97.29	102.6	12.70	46	70.0	25.4	0.68
H11A-25	25	101.33	106.5	12.70	46	70.0	25.4	0.72
H11A-26	26	105.36	110.5	12.70	46	70.0	25.4	0.76
H11A-27	27	109.40	114.6	19.05	46	70.0	31.8	1.03
H11A-28	28	113.42	118.6	19.05	46	70.0	31.8	1.06
H11A-29	29	117.46	122.7	19.05	46	70.0	31.8	1.22
H11A-30	30	121.50	126.8	19.05	46	70.0	31.8	1.30

All dimensions in mm.  
Stock Sprockets can be reworked to customers bore and keyway requirements.

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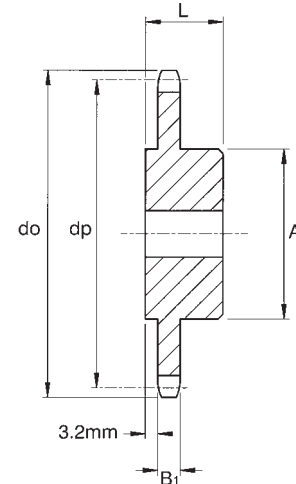
Email sales@crossmorse.com

# Original T. D. Cross Sprockets



Refs. H11C and H11D with Double Boss  
to suit Chain Types 10B-1 ( $5/8$ " pitch) and 06B-1 ( $3/8$ " pitch)

These sprockets are to original T. D. Cross & Sons dimensions with a small boss on the face side of the sprocket, to act as spacer. All sprockets, now manufactured from medium carbon steel for improved wear life, are suitable for induction hardening.



Simplex Sprocket

Sprocket Type	H11C	H11D
Chain Ref.	10B-1	06B-1
Chain Size	$5/8$ " x $3/8$ "	$3/8$ " x $7/32$ "
Roller Diameter	10.16mm	6.35mm
Tooth Width B <sub>1</sub>	9.0mm	5.3mm

## Sprocket Series H11C for $5/8$ " Pitch Chain to ISO Ref. 10B-1

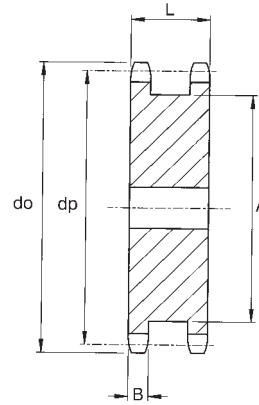
Cat No.	No. Teeth	Pitch Circle Ø dp	Outside Ø do max.	Stock Bore d H8	Max. Bore d max.	Hub dia. A	Length L	App. Weight kg
H11C-10	10	51.37	58.9	12.70	23	34.9	25.4	0.22
H11C-11	11	56.34	64.0	12.70	26	38.1	25.4	0.27
H11C-12	12	61.34	68.8	12.70	30	44.5	25.4	0.35
H11C-13	13	66.32	73.9	12.70	31	47.0	25.4	0.44
H11C-14	14	71.34	79.0	12.70	36	54.0	25.4	0.52
H11C-15	15	76.36	83.8	12.70	36	54.0	25.4	0.56
H11C-16	16	81.37	88.9	12.70	36	54.0	25.4	0.60
H11C-17	17	86.39	94.0	12.70	36	54.0	25.4	0.63
H11C-18	18	91.42	99.1	12.70	36	54.0	25.4	0.69
H11C-19	19	96.45	104.2	12.70	46	70.0	25.4	0.74
H11C-20	20	101.49	109.0	12.70	46	70.0	25.4	0.79
H11C-21	21	106.52	114.1	12.70	46	70.0	25.4	0.85
H11C-22	22	111.55	119.2	12.70	46	70.0	25.4	0.91
H11C-23	23	116.58	124.2	19.05	46	70.0	31.8	1.30
H11C-24	24	121.62	129.3	19.05	46	70.0	31.8	1.39
H11C-25	25	126.66	134.4	19.05	46	70.0	31.8	1.43
H11C-26	26	131.70	139.2	25.40	68	102.0	38.1	1.78
H11C-27	27	136.75	144.3	25.40	68	102.0	38.1	2.22
H11C-28	28	141.78	149.4	25.40	68	102.0	38.1	2.73
H11C-29	29	146.83	153.8	25.40	68	102.0	38.1	2.80
H11C-30	30	151.87	158.8	25.40	68	102.0	38.1	2.88

## Sprocket Series H11D for $3/8$ " Pitch Chain to ISO Ref. 06B-1

Cat No.	No. Teeth	Pitch Circle Ø dp	Outside Ø do max.	Stock Bore d H8	Max. Bore d max.	Hub dia. A	Length L	App. Weight kg
H11D-09	9	27.85	31.7	9.53	10	15.9	25.4	0.04
H11D-10	10	30.82	34.8	9.53	12	19.0	25.4	0.05
H11D-11	11	33.80	37.9	9.53	14	22.2	25.4	0.07
H11D-12	12	36.80	40.9	9.53	17	25.4	25.4	0.10
H11D-13	13	39.79	43.9	9.53	19	28.6	25.4	0.13
H11D-14	14	42.80	46.7	9.53	21	31.8	25.4	0.17
H11D-15	15	45.81	49.8	9.53	22	33.3	25.4	0.18
H11D-16	16	48.82	52.8	12.70	24	35.0	25.4	0.19
H11D-17	17	51.83	55.9	12.70	24	35.0	25.4	0.20
H11D-18	18	54.85	58.9	12.70	24	35.0	25.4	0.28
H11D-19	19	57.87	62.0	12.70	31	47.0	25.4	0.32
H11D-20	20	60.89	65.0	12.70	31	47.0	25.4	0.33
H11D-21	21	63.91	67.8	12.70	31	47.0	25.4	0.37
H11D-22	22	66.93	70.9	12.70	36	54.0	25.4	0.46
H11D-23	23	69.95	73.9	12.70	36	54.0	25.4	0.48
H11D-24	24	72.97	77.0	12.70	36	54.0	25.4	0.49
H11D-25	25	76.00	80.0	12.70	36	54.0	25.4	0.50
H11D-26	26	79.02	83.1	12.70	36	54.0	25.4	0.52
H11D-27	27	82.05	86.1	12.70	36	54.0	25.4	0.53
H11D-28	28	85.07	89.2	12.70	36	54.0	25.4	0.55
H11D-29	29	88.09	92.2	12.70	36	54.0	25.4	0.57
H11D-30	30	91.12	95.3	12.70	36	54.0	25.4	0.59

All dimensions in mm.  
Stock Sprockets can be reworked to customers bore and keyway requirements.

# Double Simplex Sprockets for $3/8''$ to 1'' Pitch Standard Roller Chains



## Simplex Sprocket

Chain No.	Tooth Width B
06B-1	5.3
08B-1	7.2
10B-1	9.2
ANSI 50	9.2
12B-1	11.2
16B-1	16.2

Cat. No.	No. of Teeth	Pitch Circle Ø dp	Outside Ø do	Stock Bore d H8	Max Bore † d	Hub Diameter A	Length L	Approx. Weight kg
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### For $3/8''$ Pitch Chains to ISO 606 - 06B-1

DS06B1-14	14	42.80	46.3	10	20	31	23.5	0.17
DS06B1-15	15	45.81	49.3	10	23	34	23.5	0.20
DS06B1-16	16	48.82	52.3	10	25	37	23.5	0.23
DS06B1-17	17	51.83	55.3	10	27	40	23.5	0.27
DS06B1-18	18	54.85	58.3	10	29	43	23.5	0.31
DS06B1-19	19	57.87	61.3	10	31	46	23.5	0.35
DS06B1-20	20	60.89	64.3	10	33	48	23.5	0.39
DS06B1-21	21	63.91	68.0	10	35	52	23.5	0.45
DS06B1-23	23	69.95	73.5	10	38	58	23.5	0.55
DS06B1-25	25	76.00	80.0	10	43	64	23.5	0.67

### For $1/2''$ Pitch Chains to ISO 606 - 08B-1

DS08B1-12	12	49.07	53.0	12	24	35	31	0.29
DS08B1-13	13	53.06	57.4	12	26	38	31	0.35
DS08B1-14	14	57.07	61.8	12	27	41	31	0.43
DS08B1-15	15	61.09	65.5	12	30	45	31	0.49
DS08B1-16	16	65.10	69.5	12	34	49	31	0.58
DS08B1-17	17	69.11	73.6	12	36	53	31	0.66
DS08B1-18	18	73.14	77.8	12	38	58	31	0.75
DS08B1-19	19	77.16	81.7	12	41	62	31	0.85
DS08B1-20	20	81.19	85.8	12	44	66	31	0.96
DS08B1-21	21	85.22	89.7	18	46	70	31	1.04
DS08B1-23	23	93.27	98.2	18	51	78	31	1.28
DS08B1-25	25	101.33	105.8	18	56	86	31	1.55

### For $5/8''$ Pitch Chains to ISO 606 - 10A-1 (ANSI 50)\* and 10B-1

DS10B1-12	12	61.34	68.0	19	30	45	36.5	0.55
DS10B1-13	13	66.32	73.0	19	34	50	36.5	0.66
DS10B1-14	14	71.34	78.0	19	36	55	36.5	0.80
DS10B1-15	15	76.36	83.0	19	40	60	36.5	0.94
DS10B1-16	16	81.37	88.0	19	43	65	36.5	1.11
DS10B1-17	17	86.38	93.0	19	46	70	36.5	1.25
DS10B1-18	18	91.42	98.3	19	50	75	36.5	1.43
DS10B1-19	19	96.45	103.3	19	54	80	36.5	1.62
DS10B1-20	20	101.49	108.4	19	58	85	36.5	1.81
DS10B1-21	21	106.52	113.4	19	60	90	36.5	2.02
DS10B1-23	23	116.58	123.4	19	65	100	36.5	2.47
DS10B1-25	25	126.66	134.0	19	72	110	36.5	2.97

### For $3/4''$ Pitch Chains to ISO 606 - 12B-1

DS12B1-12	12	73.61	81.5	24	35	53	45	1.05
DS12B1-13	13	79.59	87.5	24	39	59	45	1.24
DS12B1-14	14	85.61	93.6	24	43	65	45	1.46
DS12B1-15	15	91.63	99.8	24	47	71	45	1.63
DS12B1-16	16	97.65	105.5	24	51	77	45	1.94
DS12B1-17	17	103.67	111.5	24	56	83	45	2.18
DS12B1-18	18	109.71	118.0	24	59	89	45	2.50
DS12B1-19	19	115.75	124.2	24	63	95	45	2.83
DS12B1-20	20	121.78	129.7	24	66	101	45	3.17
DS12B1-21	21	127.82	136.0	24	70	107	45	3.54
DS12B1-23	23	139.90	149.0	24	78	119	45	4.33
DS12B1-25	25	152.00	160.0	24	85	131	45	5.20

### For 1'' Pitch Chains to ISO 606 - 16B-1

DS16B1-12	12	98.14	109.0	25	47	72	63.5	2.50
DS16B1-13	13	106.12	117.0	25	54	81	63.5	3.13
DS16B1-14	14	114.15	125.0	25	58	88	63.5	3.75
DS16B1-15	15	122.17	133.0	25	64	97	63.5	4.36
DS16B1-16	16	130.20	141.0	25	69	104	63.5	5.00
DS16B1-17	17	138.22	149.0	25	75	113	63.5	5.78
DS16B1-18	18	146.28	157.0	25	80	121	63.5	6.56
DS16B1-19	19	154.33	165.2	25	86	129	63.5	7.40
DS16B1-20	20	162.38	173.2	25	90	137	63.5	8.29
DS16B1-21	21	170.43	181.2	25	96	145	63.5	9.21
DS16B1-23	23	186.53	197.5	25	108	161	63.5	11.18
DS16B1-25	25	202.66	213.5	25	116	177	63.5	13.38

†Maximum bore sizes listed allow for B.S. Standard Key. For Plain Bore, sizes can be increased approximately 20%.

Note: Stock sprockets can be supplied finished bored, keyed and/or setscrewed to customers requirements.

Above range of Double Simplex Sprockets are stock items. Other sizes can be manufactured to order on short lead time.

\*When sprockets used for ANSI 50 chain, chains must be mounted with connecting links facing away from sprocket.

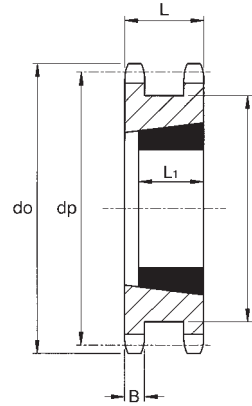
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# Double Simplex Taper Bore Sprockets for $\frac{3}{8}$ " to 1" Pitch Roller Chains



## Simplex Sprocket

Chain No.	Tooth Width B	Sprocket Width L
06B-1	5.3	23.5
08B-1	7.2	31.0
10B-1	9.2	36.5
ANSI 50	9.2	36.5
12B-1	11.2	45.0
16B-1	16.2	63.5

Cat. No.	No. Teeth	Pitch Circle Ø dp	Outside Ø do	Taper Bore Bush		Hub Diameter A	Length L <sub>1</sub>	Approx. Weight kg
				Bush No.	Max. Bore			

### For $\frac{3}{8}$ " Pitch Chains to ISO 606 - 06B-1

DS06B1-18TB	18	54.85	58.3	1008	25	43	22.2	0.19
DS06B1-19TB	19	57.87	61.3	1008	25	46	22.2	0.23
DS06B1-20TB	20	60.89	64.3	1108	28	48	22.2	0.25
DS06B1-21TB	21	63.91	68.0	1108	28	52	22.2	0.31
DS06B1-23TB	23	69.95	73.5	1108	28	58	22.2	0.41
DS06B1-25TB	25	76.00	80.0	1108	28	64	22.2	0.53

### For $\frac{1}{2}$ " Pitch Chains to ISO 606 - 08B-1

DS08B1-15TB	15	61.09	65.5	1008	25	45	22.2	0.36
DS08B1-16TB	16	65.10	69.5	1108	28	49	22.2	0.43
DS08B1-17TB	17	69.11	73.6	1108	28	53	22.2	0.39
DS08B1-18TB	18	73.14	77.8	1210	32	58	25.4	0.48
DS08B1-19TB	19	77.16	81.7	1210	32	62	25.4	0.58
DS08B1-20TB	20	81.19	85.8	1210	32	66	25.4	0.65
DS08B1-21TB	21	85.22	89.7	1610	42	70	25.4	0.63
DS08B1-23TB	23	93.27	98.2	1610	42	78	25.4	0.87
DS08B1-25TB	25	101.33	105.8	2012	51	86	31.8	0.87

### For $\frac{3}{4}$ " Pitch Chains to ISO 606 - 10A-1 (ANSI 50)\* and 10B-1

DS10B1-12TB	12	61.34	68.0	1108	28	45	22.2	0.42
DS10B1-13TB	13	66.32	73.0	1108	28	50	22.2	0.53
DS10B1-14TB	14	71.34	78.0	1108	28	55	22.2	0.67
DS10B1-15TB	15	76.36	83.0	1210	32	60	25.4	0.64
DS10B1-16TB	16	81.37	88.0	1210	32	65	25.4	0.81
DS10B1-17TB	17	86.38	93.0	1610	42	70	25.4	0.80
DS10B1-18TB	18	91.42	98.3	1610	42	75	25.4	0.98
DS10B1-19TB	19	96.45	103.3	1610	42	80	25.4	1.17
DS10B1-20TB	20	101.49	108.4	1610	42	85	25.4	1.36
DS10B1-21TB	21	106.52	113.4	2012	51	90	31.8	1.24
DS10B1-23TB	23	116.58	123.4	2012	51	100	31.8	1.69
DS10B1-25TB	25	126.66	134.0	2012	51	110	31.8	2.20

### For $\frac{3}{4}$ " Pitch Chains to ISO 606 - 12B-1

DS12B1-13TB	13	79.59	87.5	1210	32	59	25.4	0.94
DS12B1-14TB	14	85.61	93.6	1210	32	65	25.4	1.16
DS12B1-15TB	15	91.63	99.8	1610	42	71	25.4	1.18
DS12B1-16TB	16	97.65	105.5	1610	42	77	25.4	1.49
DS12B1-17TB	17	103.67	111.5	1610	42	83	25.4	1.73
DS12B1-18TB	18	109.71	118.0	2012	51	89	31.8	1.62
DS12B1-19TB	19	115.75	124.2	2012	51	95	31.8	1.95
DS12B1-20TB	20	121.78	129.7	2517	65	101	44.5	1.70
DS12B1-21TB	21	127.82	136.0	2517	65	107	44.5	2.05
DS12B1-23TB	23	139.90	149.0	2517	65	119	44.5	2.85
DS12B1-25TB	25	152.00	160.0	2517	65	131	44.5	3.75

### For 1" Pitch Chains to ISO 606 - 16B-1

DS16B1-12TB	12	98.14	109.0	1615	42	72	38.1	1.90
DS16B1-13TB	13	106.12	117.0	1615	42	81	38.1	2.50
DS16B1-14TB	14	114.15	125.0	2012	51	88	31.8	2.50
DS16B1-15TB	15	122.17	133.0	2012	51	97	31.8	3.10
DS16B1-16TB	16	130.20	141.0	2012	51	104	31.8	3.75
DS16B1-17TB	17	138.22	149.0	2517	65	113	44.5	3.90
DS16B1-18TB	18	146.28	157.0	2517	65	121	44.5	4.70
DS16B1-19TB	19	154.33	165.2	2517	65	129	44.5	5.50
DS16B1-20TB	20	162.38	173.2	3020	76	137	50.8	5.15
DS16B1-21TB	21	170.43	181.2	3020	76	145	50.8	6.05
DS16B1-23TB	23	186.53	197.5	3525	90	161	63.5	7.20
DS16B1-25TB	25	202.66	213.5	3525	90	177	63.5	9.40

All dimensions in mm. Details Taper Bore Bushes refer to pp 38/39.

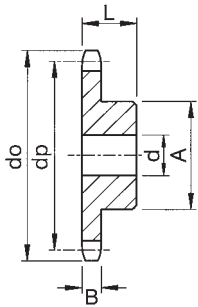
\*When sprockets used for ANSI 50 chain, chains must be mounted with connecting links facing away from sprocket.

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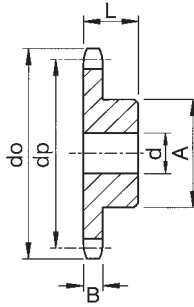
# Standard Sprockets for 3/8" & 1/2" Pitch American Standard Chains



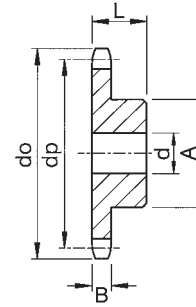
Refs ANSI 35, 40 & 41



ANSI 35 Chain (ISO Ref 06C)  
Pitch 9.525mm  
Roller Dia. 5.08mm  
Inside Width 4.77mm  
Tooth Width B 4.4mm



ANSI 40 Chain (ISO Ref 08A-1)  
Pitch 12.7mm  
Roller Dia. 7.95mm  
Inside Width 7.85mm  
Tooth Width B 7.4mm



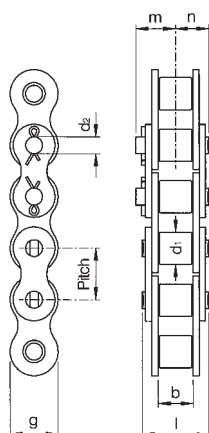
ANSI 41 Chain (ISO Ref 085)  
Pitch 12.7mm  
Roller Dia. 7.77mm  
Inside Width 6.35mm  
Tooth Width B 5.9mm

No. Teeth Z	Sprockets for ANSI 35 Chain						Sprockets for ANSI 40 Chain						Sprockets for ANSI 41 Chain					
	Cat No.	min. bore d	max. bore d	L.T.B. L	Hub dia. A	App. Wt. kg	Cat No.	min. bore d	max. bore d	L.T.B. L	Hub dia. A	App. Wt. kg	Cat No.	min. bore d	max. bore d	L.T.B. L	Hub dia. A	App. Wt. kg
<b>Steel Pinions</b>																		
10	35B10	8	13	22	20	.06	40B10	10	17	25	26	.12	41B10	10	17	25	26	.11
11	35B11	8	14	25	22	.08	40B11	10	20	25	29	.15	41B11	10	20	25	29	.14
12	35B12	8	16	25	25	.11	40B12	10	22	28	35	.21	41B12	10	22	28	33	.20
13	35B13	10	19	25	28	.13	40B13	10	25	28	35	.26	41B13	10	25	28	37	.25
14	35B14	10	20	25	31	.16	40B14	10	27	28	35	.32	41B14	10	27	28	41	.31
15	35B15	10	23	25	34	.19	40B15	10	30	28	46	.39	41B15	10	30	28	45	.37
16	35B16	10	25	28	37	.24	40B16	12	34	28	48	.46	41B16	12	34	28	50	.44
17	35B17	10	26	28	38	.29	40B17	12	35	28	48	.51	41B17	12	35	28	52	.50
18	35B18	10	26	28	38	.33	40B18	12	37	28	58	.59	41B18	12	37	28	56	.57
19	35B19	10	31	28	46	.37	40B19	12	40	28	60	.67	41B19	12	40	28	60	.65
20	35B20	10	31	28	46	.39	40B20	12	43	28	60	.76	41B20	12	43	28	64	.74
21	35B21	12	31	28	46	.42	40B21	14	45	28	65	.84	41B21	14	45	28	68	.82
22	35B22	12	35	28	52	.46	40B22	14	46	28	65	.91	41B22	14	46	28	70	.87
23	35B23	12	35	28	52	.50	40B23	14	46	28	65	.94	41B23	14	46	28	70	.90
24	35B24	12	35	28	52	.54	40B24	14	46	28	70	.97	41B24	14	46	28	70	.92
25	35B25	12	38	28	58	.61	40B25	14	46	28	70	1.00	41B25	14	46	28	70	.95
26	35B26	12	38	28	58	.67	40B26	16	46	30	70	1.09	41B26	16	46	30	70	1.02
27	35B27	12	38	28	58	.73	40B27	16	46	30	70	1.12	41B27	16	46	30	70	1.06
28	35B28	12	40	28	60	.81	40B28	16	46	30	70	1.16	41B28	16	46	30	70	1.09
30	35B30	12	40	30	60	.92	40B30	16	54	30	80	1.45	41B30	16	54	30	80	1.39
31													41B31	16	60	30	90	1.67
32							40B32	16	60	30	90	1.78	41B32	16	60	30	90	1.71
33													41B33	16	60	30	90	1.75
34													41B34	16	60	30	90	1.79
35							40B35	16	60	30	90	1.92	41B35	16	60	30	90	1.82
36							40B36	16	60	35	90	2.18	41B36	16	60	35	90	2.07
37													41B37	16	60	35	90	2.11
38							40B38	16	60	35	90	2.28	41B38	16	60	35	90	2.16
39													41B39	16	60	35	90	2.20
40							40B40	16	60	35	90	2.38	41B40	16	60	35	90	2.24

All dimensions in mm. Material:- Steel with min. U.T.S. 600 N/mm<sup>2</sup>.

Stock Sprockets can be reworked to customers bore and keyway requirements, on 48 hour service. All sprockets can be supplied with teeth induction hardened to 45Rc.

For Pitch Circle and Outside Diameters refer to equivalent size B.S. Sprockets. Refer pages 41 to 43.



## Standard Series Chain Dimensions

complying to ANSI B29.1

ANSI No.	ISO Chain Ref.	Pitch P Inches	Inside Width b min. mm	Roller Ø d: max. mm	g d: max. mm	Plate Depth g mm	Rivet Pin Length l max. mm	Length to Cotter Pin m mm	Length to Rivet Pin n mm	Bearing Area cm <sup>2</sup>	Tensile Strength N	Weight Approx kg/m
35	*06C-1	3/8	4.77	5.08*	3.58	9.0	12.0	8.7	6.0	0.27	8,400	0.31
41	085	1/2	6.35	7.77	3.58	9.9	13.2	9.4	6.6	0.32	8,000	0.42
40	08A-1	1/2	7.85	7.95	3.96	11.8	16.6	10.7	8.3	0.44	14,800	0.62

\*ANSI 35 Chain is bush chain to ISO 1395 - d: dim is bush Ø.

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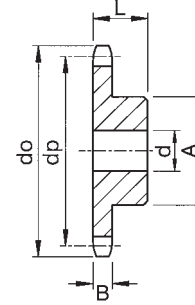
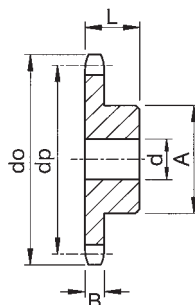
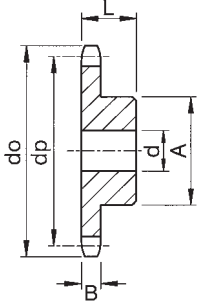
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# Standard Sprockets for 5/8", 3/4" & 1" Pitch American Standard Roller Chains Refs ANSI 50, 60 & 80



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ANSI 50 Chain (ISO Ref 10A-1)  
Pitch 15.875mm  
Roller Dia. 10.16mm  
Inside Width 9.40mm  
Tooth Width B 9.0mm

ANSI 60 Chain (ISO Ref 12A-1)  
Pitch 19.05mm  
Roller Dia. 11.91mm  
Inside Width 12.60mm  
Tooth Width B 12.0mm

ANSI 80 Chain (ISO Ref 16A-1)  
Pitch 25.4mm  
Roller Dia. 15.88mm  
Inside Width 15.80mm  
Tooth Width B 15.0mm

No. Teeth Z	Sprockets for ANSI 50 Chain						Sprockets for ANSI 60 Chain						Sprockets for ANSI 80 Chain					
	Cat No.	min. bore d	max. bore d	L.T.B. L	Hub dia. A	App. Wt. kg	Cat No.	min. bore d	max. bore d	L.T.B. L	Hub dia. A	App. Wt. kg	Cat No.	min. bore d	max. bore d	L.T.B. L	Hub dia. A	App. Wt. kg
<b>Steel Pinions</b>																		
8	50B08	10	16	25	25	.12							80B08	16	28	35	42	.47
9	50B09	10	20	25	30	.17							80B09	16	34	35	50	.65
10	50B10	10	24	25	35	.22	60B10	12	28	30	42	.38	80B10	16	36	35	55	.82
11	50B11	12	25	30	37	.29	60B11	12	30	30	45	.51	80B11	16	40	40	61	1.06
12	50B12	12	28	30	42	.38	60B12	12	30	30	45	.65	80B12	16	46	40	69	1.34
13	50B13	12	31	30	47	.47	60B13	14	40	35	60	.80	80B13	16	52	40	78	1.68
14	50B14	12	35	30	52	.56	60B14	14	40	35	60	.97	80B14	16	56	40	84	2.03
15	50B15	12	38	30	57	.67	60B15	14	40	35	60	1.16	80B15	16	61	40	92	2.41
16	50B16	14	40	30	60	.76	60B16	16	50	35	75	1.34	80B16	20	67	45	100	3.12
17	50B17	14	40	30	60	.80	60B17	16	50	35	75	1.53	80B17	20	67	45	100	3.31
18	50B18	14	46	30	70	1.02	60B18	16	50	35	75	1.61	80B18	20	67	45	100	3.52
19	50B19	14	46	30	70	1.07	60B19	16	54	35	80	1.70	80B19	20	67	45	100	3.74
20	50B20	14	50	30	75	1.21	60B20	16	54	35	80	1.79	80B20	20	67	45	100	3.97
21	50B21	16	50	30	75	1.25	60B21	16	54	35	80	2.34	80B21	20	74	50	110	4.89
22	50B22	16	54	30	80	1.40	60B22	20	60	40	90	2.44	80B22	20	74	50	110	5.14
23	50B23	16	54	30	80	1.46	60B23	20	60	40	90	2.55	80B23	20	74	50	110	5.41
24	50B24	16	54	30	80	1.53	60B24	20	60	40	90	2.66	80B24	20	74	50	110	5.69
25	50B25	16	54	30	80	1.59	60B25	20	60	40	90	2.77	80B25	20	74	50	110	5.99
26	50B26	20	57	35	85	1.82	60B26	20	60	40	90	3.06	80B26	20	80	50	120	6.78
27	50B27	20	57	35	85	1.89	60B27	20	60	40	90	3.19	80B27	20	80	50	120	7.10
28	50B28	20	60	35	90	2.24	60B28	20	63	40	95	3.32	80B28	20	80	50	120	7.43
29	50B29	20	60	35	90	2.31							80B29	20	80	50	120	7.78
30	50B30	20	60	35	90	2.39	60B30	20	63	40	95	3.59	80B30	20	80	50	120	8.13
31	50B31	20	63	35	95	2.62												
32	50B32	20	63	35	95	2.71												
33	50B33	20	63	35	95	2.79												
34	50B34	20	63	35	95	2.88												
35	50B35	20	63	35	95	2.98												
36	50B36	20	67	35	100	3.23												
37	50B37	20	67	35	100	3.33												
38	50B38	20	67	35	100	3.43												
39	50B39	20	67	35	100	3.53												
40	50B40	20	67	35	100	3.64												

All dimensions in mm.

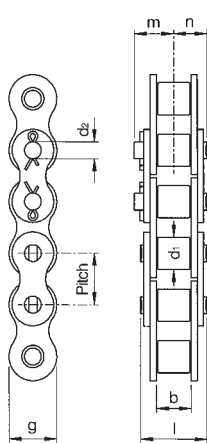
ANSI 50 Steel Pinions 8 to 35 tooth minimum U.T.S. 600N/mm<sup>2</sup> - Above 35T - 410N/mm<sup>2</sup>

ANSI 60 Steel Pinions 8 to 30 tooth minimum U.T.S. 600N/mm<sup>2</sup> - Above 30T - 410N/mm<sup>2</sup>

ANSI 80 Steel Pinions 8 to 21 tooth minimum U.T.S. 600N/mm<sup>2</sup> - Above 21T - 410N/mm<sup>2</sup>

Stock Sprockets can be reworked to customers bore and keyway requirements, on 48 hour service. Sprockets with minimum U.T.S. 600N/mm<sup>2</sup> can be induction hardened to 45Rc.

For Pitch Circle and Outside Diameters refer to equivalent size B.S. Sprockets. Refer pages 44 to 46.



## Standard Series Chain Dimensions

complying to ANSI B29.1

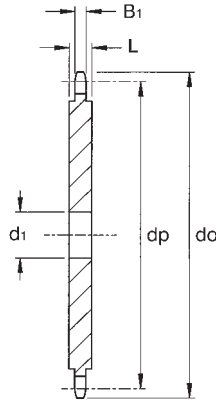
ANSI No.	ISO Chain Ref.	Pitch P Inches	Inside Width b min. mm	Roller Ø d: max. mm	Pin Ø d: max. mm	Plate Depth 9 mm	Rivet Pin Length l max. mm	Length to Cotter Pin m mm	Length to Rivet Pin n mm	Bearing Area cm <sup>2</sup>	Tensile Strength N	Weight Approx kg/m
50	10A-1	5/8	9.40	10.16	5.08	15.0	20.2	14.3	10.1	0.70	24,400	1.04
60	12A-1	3/4	12.60	11.91	5.94	18.0	25.0	16.3	12.5	1.06	34,400	1.48
80	16A-1	1	15.80	15.88	7.92	24.0	32.6	18.8	16.3	1.79	64,500	2.50

# Standard Platewheels for 8mm Pitch British Standard Chains Type 05B



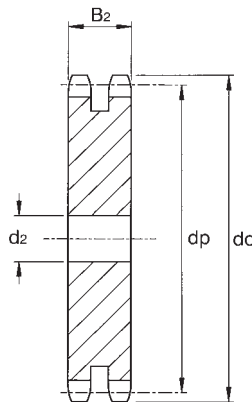
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## Platewheels for Simplex Chain 05B-1 Conforming to ISO 606



Chain No: 05B-1  
 Pitch 8.0mm  
 Roller Dia. 5.0mm  
 Inside Width 3.0mm  
 Overall Width 11.7mm  
 Tooth Width B<sub>1</sub> 2.8mm  
 Plate Width L 2.8mm (up to 40T)  
 4.0mm (41T & over)

## Platewheels for Duplex Chain 05B-2 Conforming to ISO 606



Chain No: 05B-2  
 Pitch 8.0mm  
 Roller Dia. 5.0mm  
 Inside Width 3.0mm  
 Overall Width 17.4mm  
 Tooth Width B<sub>2</sub> 8.3mm

No. Teeth	Pitch Circle Ø dp	Outside Ø do	Platewheel for 05B-1			Platewheel for 05B-1		
			Cat. No.	Min Bore d <sub>1</sub>	Approx. Weight kg	Cat. No.	Min Bore d <sub>2</sub>	Approx. Weight kg
8	20.90	24.0	P05B1-08	6	0.005	P05B2-08	8	0.010
9	23.39	26.6	P05B1-09	6	0.006	P05B2-09	8	0.014
10	25.89	29.2	P05B1-10	8	0.008	P05B2-10	8	0.019
11	28.39	31.7	P05B1-11	8	0.010	P05B2-11	8	0.025
12	30.91	34.2	P05B1-12	8	0.012	P05B2-12	8	0.031
13	33.42	36.7	P05B1-13	8	0.014	P05B2-13	8	0.038
14	35.95	39.2	P05B1-14	8	0.017	P05B2-14	8	0.046
15	38.48	41.7	P05B1-15	8	0.020	P05B2-15	8	0.054
16	41.01	44.3	P05B1-16	8	0.023	P05B2-16	10	0.061
17	43.53	46.8	P05B1-17	8	0.027	P05B2-17	10	0.071
18	46.07	49.3	P05B1-18	8	0.030	P05B2-18	10	0.081
19	48.61	51.9	P05B1-19	8	0.034	P05B2-19	10	0.092
20	51.14	54.4	P05B1-20	8	0.038	P05B2-20	10	0.104
21	53.68	57.0	P05B1-21	8	0.042	P05B2-21	10	0.116
22	56.21	59.5	P05B1-22	8	0.046	P05B2-22	10	0.129
23	58.75	62.0	P05B1-23	8	0.051	P05B2-23	10	0.143
24	61.29	64.6	P05B1-24	8	0.056	P05B2-24	10	0.157
25	63.83	67.5	P05B1-25	8	0.061	P05B2-25	10	0.172
26	66.37	69.5	P05B1-26	10	0.066	P05B2-26	12	0.185
27	68.91	72.2	P05B1-27	10	0.071	P05B2-27	12	0.202
28	71.45	74.8	P05B1-28	10	0.077	P05B2-28	12	0.219
29	73.99	77.3	P05B1-29	10	0.083	P05B2-29	12	0.236
30	76.53	79.8	P05B1-30	10	0.090	P05B2-30	12	0.255
31	79.08	82.4	P05B1-31	10	0.096	P05B2-31	12	0.274
32	81.61	84.9	P05B1-32	10	0.102	P05B2-32	12	0.293
33	84.16	87.5	P05B1-33	10	0.109	P05B2-33	12	0.314
34	86.70	90.0	P05B1-34	10	0.116	P05B2-34	12	0.335
35	89.25	92.5	P05B1-35	10	0.123	P05B2-35	12	0.356
36	91.79	95.0	P05B1-36	10	0.130	P05B2-35	12	0.378
37	94.33	97.6	P05B1-37	10	0.138	P05B2-37	12	0.401
38	96.88	100.2	P05B1-38	10	0.146	P05B2-38	12	0.425
39	99.42	102.7	P05B1-39	10	0.154	P05B2-39	12	0.449
40	101.97	105.3	P05B1-40	10	0.162	P05B2-40	12	0.474
41	104.51	107.8	P05B1-41	12	0.263	P05B2-41	14	0.494
42	107.05	110.4	P05B1-42	12	0.277	P05B2-42	14	0.520
43	109.60	112.9	P05B1-43	12	0.292	P05B2-43	14	0.547
44	112.14	115.5	P05B1-44	12	0.306	P05B2-44	14	0.575
45	114.69	118.0	P05B1-45	12	0.321	P05B2-45	14	0.603
46	117.23	120.6	P05B1-46	12	0.336	P05B2-46	14	0.632
47	119.77	123.1	P05B1-47	12	0.356	P05B2-47	14	0.662
48	122.32	125.6	P05B1-48	12	0.368	P05B2-48	14	0.692
49	124.86	128.2	P05B1-49	12	0.385	P05B2-49	14	0.723
50	127.41	130.7	P05B1-50	12	0.401	P05B2-50	14	0.754
51	129.95	133.3	P05B1-51	14	0.415	P05B2-51	16	0.787
52	132.49	135.8	P05B1-52	14	0.433	P05B2-52	16	0.819
53	135.04	138.4	P05B1-53	14	0.450	P05B2-53	16	0.853
54	137.59	140.9	P05B1-54	14	0.468	P05B2-54	16	0.887
55	140.13	143.5	P05B1-55	14	0.487	P05B2-55	16	0.922
56	142.68	146.0	P05B1-56	14	0.506	P05B2-56	16	0.958
57	145.22	148.6	P05B1-57	14	0.525	P05B2-57	16	0.994
58	147.77	151.0	P05B1-58	14	0.544	P05B2-58	16	1.031
59	150.31	153.6	P05B1-59	14	0.564	P05B2-59	16	1.068
60	152.85	156.2	P05B1-60	14	0.585	P05B2-60	16	1.106
62	157.95	162.0	P05B1-62	16	0.626	P05B2-62	20	1.178
64	163.04	167.1	P05B1-64	16	0.669	P05B2-64	20	1.259
65	165.58	169.6	P05B1-65	16	0.691	P05B2-65	20	1.300
66	168.13	172.2	P05B1-66	16	0.713	P05B2-66	20	1.342
68	173.22	177.3	P05B1-68	16	0.759	P05B2-68	20	1.429
70	178.31	182.4	P05B1-70	16	0.806	P05B2-70	20	1.518
72	183.41	187.5	P05B1-72	20	0.851	P05B2-72	20	1.609
75	191.04	195.1	P05B1-75	20	0.926	P05B2-75	20	1.752
76	193.59	197.7	P05B1-76	20	0.952	P05B2-76	20	1.800
78	198.68	202.8	P05B1-78	20	1.000	P05B2-78	20	1.900
80	203.77	207.9	P05B1-80	20	1.051	P05B2-80	20	2.005
85	216.50	220.6	P05B1-85	20	1.200	P05B2-85	20	2.270
90	229.23	233.4	P05B1-90	20	1.351	P05B2-90	20	2.555
95	241.96	246.1	P05B1-95	20	1.510	P05B2-95	20	2.855
100	254.68	258.9	P05B1-100	20	1.678	P05B2-100	20	3.170
110	280.15	284.3	P05B1-110	20	2.040	P05B2-110	20	3.855
114	290.33	294.5	P05B1-114	20	2.195	P05B2-114	20	4.150
120	305.61	310.0	P05B1-120	20	2.440	P05B2-120	20	4.610
125	318.34	322.5	P05B1-125	20	2.650	P05B2-125	20	5.010

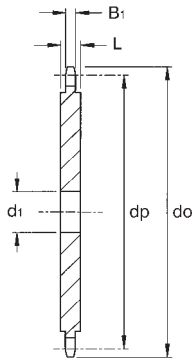
All dimensions in mm.  
 Stock Platewheels can be reworked to customers bore and keyway requirements, on 48 hour service.  
 Platewheels manufactured in steel 8 to 40 tooth with a minimum U.T.S. 600N/mm<sup>2</sup> - Above 40T - 410N/mm<sup>2</sup>  
 Platewheels 8 to 40 tooth can be supplied with teeth induction hardened to 45Rc."



# Standard Platewheels for 1/2" Pitch Narrow Series Roller Chains

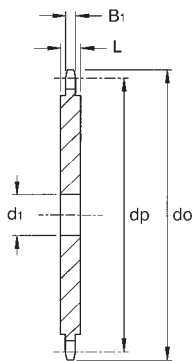


## Platewheels for Simplex Chain 081 Conforming to ISO 606



Chain No: 081  
Pitch 12.7mm  
Roller Dia. 7.75mm  
Inside Width 3.3mm  
Tooth Width B<sub>1</sub> 3.3mm  
Plate Width:  
L: 3.0mm (up to 40T)  
L: 4.0mm (up to 85T)  
L: 6.0mm (90T over)

## Platewheels for Simplex Chain 083\* Conforming to ISO 606



Chain No: 083  
Pitch 12.7mm  
Roller Dia. 7.75mm  
Inside Width 4.88mm  
Tooth Width B<sub>1</sub> 4.5mm  
Plate Width:  
L: 4.5mm (up to 85T)  
L: 6.0mm (90T over)

No. Teeth	Pitch Circle Ø dp	Outside Ø do	Platewheel for 081 Chain			Platewheel for 083 Chain*		
			Cat. No.	Min. Bore d <sub>i</sub>	Approx. Weight kg	Cat. No.	Min. Bore d <sub>i</sub>	Approx. Weight kg
8	33.18	37.2	P081-08	8	.015	P083-08	8	.02
9	37.13	41.5	P081-09	8	.02	P083-09	8	.03
10	41.10	46.2	P081-10	8	.025	P083-10	8	.035
11	45.07	49.6	P081-11	8	.03	P083-11	8	.045
12	49.07	53.9	P081-12	8	.035	P083-12	8	.055
13	53.06	58.4	P081-13	8	.045	P083-13	8	.065
14	57.07	62.8	P081-14	8	.05	P083-14	8	.075
15	61.09	66.8	P081-15	8	.06	P083-15	8	.09
16	65.10	70.9	P081-16	10	.065	P083-16	10	.10
17	69.11	74.9	P081-17	10	.075	P083-17	10	.11
18	73.14	78.9	P081-18	10	.085	P083-18	10	.13
19	77.16	82.9	P081-19	10	.095	P083-19	10	.14
20	81.19	86.9	P081-20	10	.11	P083-20	10	.16
21	85.22	91.0	P081-21	10	.12	P083-21	10	.18
22	89.24	95.0	P081-22	10	.13	P083-22	10	.20
23	93.27	99.0	P081-23	10	.145	P083-23	10	.22
24	97.29	103.0	P081-24	10	.16	P083-24	10	.24
25	101.33	107.1	P081-25	10	.17	P083-25	10	.26
26	105.36	111.2	P081-26	12	.185	P083-26	12	.28
27	109.40	115.4	P081-27	12	.20	P083-27	12	.30
28	113.42	119.4	P081-28	12	.215	P083-28	12	.32
29	117.46	123.4	P081-29	12	.23	P083-29	12	.35
30	121.50	127.5	P081-30	12	.25	P083-30	12	.37
31	125.54	131.5	P081-31	12	.27	P083-31	12	.40
32	129.56	135.5	P081-32	12	.29	P083-32	12	.43
33	133.60	139.6	P081-33	12	.30	P083-33	12	.45
34	137.64	143.6	P081-34	12	.32	P083-34	12	.48
35	141.68	147.6	P081-35	12	.35	P083-35	12	.51
36	145.72	151.7	P081-36	16	.36	P083-36	16	.54
37	149.76	155.7	P081-37	16	.38	P083-37	16	.57
38	153.80	159.8	P081-38	16	.41	P083-38	16	.60
39	157.83	163.8	P081-39	16	.43	P083-39	16	.64
40	161.87	167.8	P081-40	16	.45	P083-40	16	.67
41	165.91	171.4	P081-41	16	.63	P083-41	16	.71
42	169.95	175.4	P081-42	16	.66	P083-42	16	.74
43	173.99	179.5	P081-43	16	.69	P083-43	16	.78
44	178.03	183.5	P081-44	16	.72	P083-44	16	.82
45	182.07	187.5	P081-45	16	.76	P083-45	16	.86
46	186.10	191.6	P081-46	20	.79	P083-46	20	.89
47	190.14	195.6	P081-47	20	.83	P083-47	20	.93
48	194.18	199.7	P081-48	20	.86	P083-48	20	.97
49	198.22	203.7	P081-49	20	.90	P083-49	20	1.02
50	202.26	207.8	P081-50	20	.94	P083-50	20	1.06
51	206.30	211.8	P081-51	20	.98	P083-51	20	1.10
52	210.34	215.9	P081-52	20	1.02	P083-52	20	1.15
53	214.37	219.9	P081-53	20	1.06	P083-53	20	1.19
54	218.43	224.0	P081-54	20	1.10	P083-54	20	1.24
55	222.46	228.0	P081-55	20	1.14	P083-55	20	1.29
56	226.50	232.1	P081-56	20	1.18	P083-56	20	1.34
57	230.54	236.1	P081-57	20	1.23	P083-57	20	1.39
58	234.58	240.2	P081-58	20	1.27	P083-58	20	1.44
59	238.62	244.2	P081-59	20	1.32	P083-59	20	1.49
60	242.66	248.2	P081-60	20	1.36	P083-60	20	1.54
62	250.75	256.7	P081-62	20	1.46	P083-62	20	1.64
64	258.82	264.8	P081-64	20	1.55	P083-64	20	1.75
65	262.86	268.8	P081-65	20	1.60	P083-65	20	1.81
66	266.90	272.9	P081-66	25	1.65	P083-66	25	1.86
68	274.99	280.9	P081-68	25	1.75	P083-68	25	1.98
70	283.07	289.0	P081-70	25	1.86	P083-70	25	2.10
72	291.16	297.1	P081-72	25	1.97	P083-72	25	2.22
76	307.33	313.3	P081-76	25	2.20	P083-76	25	2.48
78	315.40	321.4	P081-78	25	2.32	P083-78	25	2.62
80	323.48	329.4	P081-80	25	2.44	P083-80	25	2.76
85	343.70	349.7	P081-85	25	2.76	P083-85	25	3.12
90	363.90	369.9	P081-90	25	4.70	P083-90	25	4.70
95	384.10	390.1	P081-95	25	5.25	P083-95	25	5.25
100	404.13	410.3	P081-100	25	5.85	P083-100	25	5.85
110	444.74	450.7	P081-110	25	7.10	P083-110	25	7.10
114	460.90	466.9	P081-114	25	7.60	P083-114	25	7.60
120	485.16	491.2	P081-120	25	8.45	P083-120	25	8.45
125	505.37	511.4	P081-125	25	9.18	P083-125	25	9.18

All dimensions in mm. Material - Steel with min. U.T.S. 490 N/mm<sup>2</sup>  
Stock Platewheels can be bored to customers requirements, or supplied with threaded bore to suit adapters. Ref. page 69, all on 48 hour service.  
Platewheels manufactured in steel 8 to 40 tooth with a minimum U.T.S. 600N/mm<sup>2</sup> - Above 40T - 410N/mm<sup>2</sup>  
Platewheels 8 to 40 tooth can be supplied with teeth induction hardened to 45Rc.  
\*Also suitable for 084 and 08N Chains.

Tel +44(0) 121 360 0155 Fax +44(0) 121 325 1079 Email sales@crossmorse.com



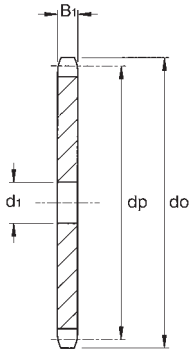




# Standard Platewheels for 3/4" Pitch British Standard Chain Type 12B

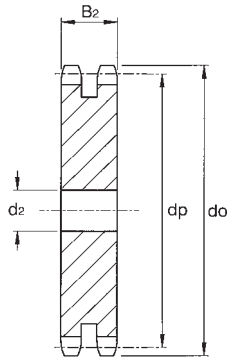


## Platewheels for Simplex Chain 12B-1 Conforming to ISO 606



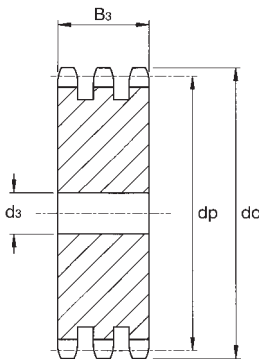
Chain No: 12B-1  
Pitch 19.05mm  
Roller Dia. 12.07mm  
Inside Width 11.68mm  
Overall Width 24.5mm  
Tooth Width B<sub>1</sub> 11.1mm

## Platewheels for Duplex Chain 12B-2 Conforming to ISO 606



Chain No: 12B-2  
Pitch 19.05mm  
Roller Dia. 12.07mm  
Inside Width 11.68mm  
Overall Width 44.0mm  
Tooth Width B<sub>2</sub> 30.3mm

## Platewheels for Triplex Chain 12B-3 Conforming to ISO 606



Chain No: 12B-3  
Pitch 19.05mm  
Roller Dia. 12.07mm  
Inside Width 11.68mm  
Overall Width 63.4mm  
Tooth Width B<sub>3</sub> 49.8mm

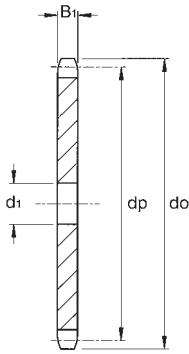
No. Teeth	Pitch Circle Ø dp	Outside Ø do	Platewheel for 12B-1 Chain			Platewheel for 12B-2 Chain			Platewheel for 12B-3 Chain		
			Cat. No.	Min. Bore d <sub>i</sub>	Approx. Weight kg	Cat. No.	Min. Bore d <sub>i</sub>	Approx. Weight kg	Cat. No.	Min. Bore d <sub>i</sub>	Approx. Weight kg
8	49.78	57.6	P12B1-08	12	.11	P12B2-08	12	.26	P12B3-08	12	.42
9	55.70	62.0	P12B1-09	12	.15	P12B2-09	12	.36	P12B3-09	12	.57
10	61.64	69.0	P12B1-10	12	.19	P12B2-10	12	.47	P12B3-10	12	.75
11	67.61	75.0	P12B1-11	14	.24	P12B2-11	14	.59	P12B3-11	16	.91
12	73.61	81.5	P12B1-12	14	.29	P12B2-12	14	.73	P12B3-12	16	1.13
13	79.59	87.5	P12B1-13	14	.34	P12B2-13	14	.88	P12B3-13	16	1.38
14	85.61	93.6	P12B1-14	14	.40	P12B2-14	14	1.02	P12B3-14	16	1.64
15	91.63	99.8	P12B1-15	14	.46	P12B2-15	14	1.20	P12B3-15	16	1.93
16	97.65	105.5	P12B1-16	14	.53	P12B2-16	16	1.39	P12B3-16	16	2.24
17	103.67	111.5	P12B1-17	14	.61	P12B2-17	16	1.59	P12B3-17	16	2.58
18	109.71	118.0	P12B1-18	14	.69	P12B2-18	16	1.81	P12B3-18	16	2.94
19	115.75	124.2	P12B1-19	14	.78	P12B2-19	16	2.05	P12B3-19	16	3.32
20	121.78	129.7	P12B1-20	14	.87	P12B2-20	16	2.29	P12B3-20	16	3.72
21	127.82	136.0	P12B1-21	16	.96	P12B2-21	16	2.53	P12B3-21	20	4.14
22	133.86	141.8	P12B1-22	16	1.06	P12B2-22	16	2.80	P12B3-22	20	4.59
23	139.90	149.0	P12B1-23	16	1.17	P12B2-23	16	3.09	P12B3-23	20	5.06
24	145.94	153.9	P12B1-24	16	1.28	P12B2-24	16	3.39	P12B3-24	20	5.55
25	152.00	160.0	P12B1-25	16	1.39	P12B2-25	16	3.70	P12B3-25	20	6.07
26	158.04	165.9	P12B1-26	16	1.51	P12B2-26	20	4.03	P12B3-26	20	6.61
27	164.09	172.3	P12B1-27	16	1.64	P12B2-27	20	4.38	P12B3-27	20	7.17
28	170.13	178.0	P12B1-28	16	1.77	P12B2-28	20	4.73	P12B3-28	20	7.75
29	176.19	184.1	P12B1-29	16	1.90	P12B2-29	20	5.10	P12B3-29	20	8.35
30	182.25	190.5	P12B1-30	16	2.04	P12B2-30	20	5.49	P12B3-30	20	8.98
31	188.31	196.3	P12B1-31	20	2.18	P12B2-31	20	5.88	P12B3-31	25	9.63
32	194.36	203.3	P12B1-32	20	2.33	P12B2-32	20	6.29	P12B3-32	25	10.31
33	200.40	209.2	P12B1-33	20	2.48	P12B2-33	20	6.72	P12B3-33	25	11.00
34	206.46	214.6	P12B1-34	20	2.64	P12B2-34	20	7.16	P12B3-34	25	11.72
35	212.52	221.0	P12B1-35	20	2.80	P12B2-35	20	7.61	P12B3-35	25	12.42
36	218.58	226.8	P12B1-36	20	2.97	P12B2-36	25	8.04	P12B3-36	25	13.22
37	224.64	232.9	P12B1-37	20	3.15	P12B2-37	25	8.52	P12B3-37	25	14.01
38	230.69	239.0	P12B1-38	20	3.33	P12B2-38	25	9.01	P12B3-38	25	14.82
39	236.75	245.1	P12B1-39	20	3.51	P12B2-39	25	9.52	P12B3-39	25	15.65
40	242.81	251.3	P12B1-40	20	3.70	P12B2-40	25	10.04	P12B3-40	25	16.51
41	248.87	257.3	P12B1-41	25	3.88	P12B2-41	25	10.57	P12B3-41	25	17.38
42	254.93	264.5	P12B1-42	25	4.08	P12B2-42	25	11.12	P12B3-42	25	18.28
43	260.98	270.5	P12B1-43	25	4.28	P12B2-43	25	11.68	P12B3-43	25	19.20
44	267.04	276.5	P12B1-44	25	4.49	P12B2-44	25	12.26	P12B3-44	25	20.15
45	273.10	282.5	P12B1-45	25	4.70	P12B2-45	25	12.85	P12B3-45	25	21.11
46	279.16	287.9	P12B1-46	25	4.92	P12B2-46	25	13.45	P12B3-46	25	22.10
47	285.21	294.0	P12B1-47	25	5.14	P12B2-47	25	14.07	P12B3-47	25	23.11
48	291.27	300.1	P12B1-48	25	5.37	P12B2-48	25	14.70	P12B3-48	25	24.15
49	297.33	306.2	P12B1-49	25	5.60	P12B2-49	25	15.35	P12B3-49	25	25.21
50	303.39	312.3	P12B1-50	25	5.84	P12B2-50	25	16.01	P12B3-50	25	26.29
51	309.45	318.4	P12B1-51	25	6.08	P12B2-51	25	16.68	P12B3-51	25	27.39
52	315.50	324.5	P12B1-52	25	6.33	P12B2-52	25	17.36	P12B3-52	25	28.51
53	321.56	330.5	P12B1-53	25	6.58	P12B2-53	25	18.06	P12B3-53	25	29.66
54	327.64	336.6	P12B1-54	25	6.84	P12B2-54	25	18.78	P12B3-54	25	30.83
55	333.70	342.7	P12B1-55	25	7.10	P12B2-55	25	19.50	P12B3-55	25	32.02
56	339.75	348.7	P12B1-56	25	7.37	P12B2-56	25	20.25	P12B3-56	30	33.04
57	345.81	355.4	P12B1-57	25	7.64	P12B2-57	25	21.00	P12B3-57	30	34.28
58	351.87	361.5	P12B1-58	25	7.91	P12B2-58	25	21.77	P12B3-58	30	35.54
59	357.93	367.5	P12B1-59	25	8.20	P12B2-59	25	22.55	P12B3-59	30	36.82
60	363.99	373.0	P12B1-60	25	8.48	P12B2-60	25	23.35	P12B3-60	30	38.13
62	376.12	385.1	P12B1-62	25	9.07	P12B2-62	30	24.93	P12B3-62	30	40.80
64	388.24	397.2	P12B1-64	25	9.68	P12B2-64	30	26.62	P12B3-64	30	43.57
65	394.29	403.2	P12B1-65	25	9.99	P12B2-65	30	27.48	P12B3-65	30	44.99
66	400.35	409.3	P12B1-66	30	10.29	P12B2-66	30	28.36	P12B3-66	30	46.43
68	412.49	421.4	P12B1-68	30	10.93	P12B2-68	30	30.16	P12B3-68	30	49.38
70	424.60	433.6	P12B1-70	30	11.60	P12B2-70	30	32.01	P12B3-70	30	52.42
72	436.74	447.0	P12B1-72	30	12.28	P12B2-72	30	33.92	P12B3-72	30	55.55
75	454.91	463.9	P12B1-75	30	13.35	P12B2-75	30	36.88	P12B3-75	30	60.42
76	460.99	469.9	P12B1-76	30	13.71	P12B2-76	30	37.90	P12B3-76	30	62.08
78	473.10	482.1	P12B1-78	30	14.46	P12B2-78	30	39.97	P12B3-78	30	65.48
80	485.22	494.2	P12B1-80	30	15.22	P12B2-80	30	42.10	P12B3-80	30	68.98
85	515.55	524.5	P12B1-85	30	17.22	P12B2-85	30	47.66	P12B3-85	30	78.10
90	545.86	554.8	P12B1-90	30	19.34	P12B2-90	30	53.56	P12B3-90	30	87.79
95	576.17	585.1	P12B1-95	30	21.58	P12B2-95	30	59.81	P12B3-95	30	98.04
100	606.47	615.4	P12B1-100	30	23.94	P12B2-100	30	66.40	P12B3-100	30	108.86
110	667.11	676.1	P12B1-110	30	29.03	P12B2-110	30	80.61	P12B3-110	30	132.19
114	691.36	700.6	P12B1-114	30	31.21	P12B2-114	30	86.68	P12B3-114	30	142.15
120	727.74	736.7	P12B1-120	30	34.61	P12B2-120	30	96.19	P12B3-120	30	157.77
125	758.05	767.0	P12B1-125	30	37.59	P12B2-125	30	104.50	P12B3-125	30	171.41

All dimensions in mm.  
Stock Platewheels can be reworked to customers bore and keyway requirements, on 48 hour service.  
Platewheels manufactured in steel 8 to 30 tooth with a minimum U.T.S. 600N/mm<sup>2</sup> - Above 30T - 410N/mm<sup>2</sup>  
Platewheels 8 to 30 tooth can be supplied with teeth induction hardened to 45Rc.

# Standard Platewheels for 1" Pitch British Standard Chain Type 16B

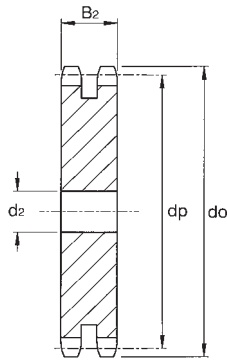


## Platewheels for Simplex Chain 16B-1 Conforming to ISO 606



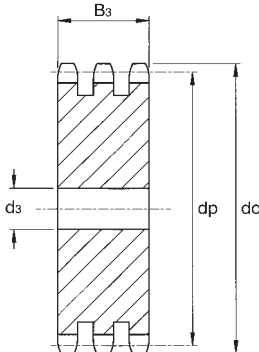
Chain No: 16B-1  
Pitch 25.40mm  
Roller Dia. 15.88mm  
Inside Width 17.02mm  
Overall Width 38.7mm  
Tooth Width B<sub>1</sub> 16.2mm

## Platewheels for Duplex Chain 16B-2 Conforming to ISO 606



Chain No: 16B-2  
Pitch 25.40mm  
Roller Dia. 15.88mm  
Inside Width 17.02mm  
Overall Width 70.7mm  
Tooth Width B<sub>2</sub> 47.7mm

## Platewheels for Triplex Chain 16B-3 Conforming to ISO 606



Chain No: 16B-3  
Pitch 25.40mm  
Roller Dia. 15.88mm  
Inside Width 17.02mm  
Overall Width 102.5mm  
Tooth Width B<sub>3</sub> 79.6mm

No. Teeth	Pitch Circle Ø dp	Outside Ø do	Platewheel for 16B-1 Chain			Platewheel for 16B-2 Chain			Platewheel for 16B-3 Chain		
			Cat. No.	Min. Bore d <sub>i</sub>	Approx. Weight kg	Cat. No.	Min. Bore d <sub>i</sub>	Approx. Weight kg	Cat. No.	Min. Bore d <sub>i</sub>	Approx. Weight kg
8	66.37	77.0	P16B1-08	14	.28	P16B2-08	16	.71	P16B3-08	20	1.12
9	74.27	85.0	P16B1-09	14	.38	P16B2-09	16	.97	P16B3-09	20	1.55
10	82.19	93.0	P16B1-10	15	.48	P16B2-10	16	1.27	P16B3-10	20	2.04
11	90.14	99.5	P16B1-11	16	.60	P16B2-11	20	1.57	P16B3-11	20	2.53
12	98.14	109.0	P16B1-12	16	.73	P16B2-12	20	1.94	P16B3-12	20	3.15
13	106.12	117.0	P16B1-13	16	.88	P16B2-13	20	2.36	P16B3-13	20	3.83
14	114.15	125.0	P16B1-14	16	1.03	P16B2-14	20	2.81	P16B3-14	20	4.58
15	122.17	133.0	P16B1-15	16	1.20	P16B2-15	20	3.30	P16B3-15	20	5.39
16	130.20	141.0	P16B1-16	20	1.37	P16B2-16	20	3.84	P16B3-16	30	6.16
17	138.22	149.0	P16B1-17	20	1.56	P16B2-17	20	4.40	P16B3-17	30	7.10
18	146.28	157.0	P16B1-18	20	1.77	P16B2-18	20	5.01	P16B3-18	30	8.10
19	154.33	165.2	P16B1-19	20	1.99	P16B2-19	20	5.66	P16B3-19	30	9.17
20	162.38	173.0	P16B1-20	20	2.22	P16B2-20	20	6.34	P16B3-20	30	10.31
21	170.43	181.2	P16B1-21	20	2.46	P16B2-21	25	7.00	P16B3-21	30	11.50
22	178.48	189.3	P16B1-22	20	2.72	P16B2-22	25	7.76	P16B3-22	30	12.76
23	186.53	197.5	P16B1-23	20	2.99	P16B2-23	25	8.56	P16B3-23	30	14.09
24	194.59	205.5	P16B1-24	20	3.27	P16B2-24	25	9.40	P16B3-24	30	15.48
25	202.66	213.5	P16B1-25	20	3.57	P16B2-25	25	10.28	P16B3-25	30	16.93
26	210.72	221.6	P16B1-26	20	3.85	P16B2-26	25	11.19	P16B3-26	30	18.32
27	218.79	229.6	P16B1-27	20	4.17	P16B2-27	25	12.15	P16B3-27	30	19.90
28	226.85	237.7	P16B1-28	20	4.50	P16B2-28	25	13.14	P16B3-28	30	21.55
29	234.92	245.8	P16B1-29	20	4.84	P16B2-29	25	14.17	P16B3-29	30	23.26
30	243.00	254.0	P16B1-30	20	5.20	P16B2-30	25	15.24	P16B3-30	30	25.03
31	251.08	262.0	P16B1-31	25	5.57	P16B2-31	25	16.35	P16B3-31	30	26.87
32	259.13	270.0	P16B1-32	25	5.95	P16B2-32	25	17.49	P16B3-32	30	28.78
33	267.21	278.5	P16B1-33	25	6.34	P16B2-33	25	18.68	P16B3-33	30	30.74
34	275.28	287.0	P16B1-34	25	6.75	P16B2-34	25	19.90	P16B3-34	30	32.77
35	283.36	296.2	P16B1-35	25	7.17	P16B2-35	25	21.16	P16B3-35	30	34.87
36	291.44	304.6	P16B1-36	25	7.60	P16B2-36	25	22.46	P16B3-36	30	37.03
37	299.51	312.6	P16B1-37	25	8.04	P16B2-37	25	23.80	P16B3-37	30	39.25
38	307.59	320.7	P16B1-38	25	8.50	P16B2-38	25	25.17	P16B3-38	30	41.54
39	315.67	328.8	P16B1-39	25	8.97	P16B2-39	25	26.59	P16B3-39	30	43.89
40	323.75	336.9	P16B1-40	25	9.45	P16B2-40	25	28.04	P16B3-40	30	46.31
41	331.82	345.0	P16B1-41	25	9.94	P16B2-41	25	29.53	P16B3-41	30	48.80
42	339.90	353.0	P16B1-42	25	10.45	P16B2-42	25	31.06	P16B3-42	30	51.33
43	347.98	361.1	P16B1-43	25	10.97	P16B2-43	25	32.63	P16B3-43	30	53.91
44	356.05	369.1	P16B1-44	25	11.50	P16B2-44	25	34.24	P16B3-44	30	56.62
45	364.13	377.1	P16B1-45	25	12.04	P16B2-45	25	35.89	P16B3-45	30	59.35
46	372.21	385.2	P16B1-46	25	12.60	P16B2-46	30	37.49	P16B3-46	30	62.15
47	380.29	393.2	P16B1-47	25	13.17	P16B2-47	30	39.14	P16B3-47	30	65.00
48	388.36	401.3	P16B1-48	25	13.75	P16B2-48	30	40.97	P16B3-48	30	67.95
49	396.44	409.3	P16B1-49	25	14.34	P16B2-49	30	42.86	P16B3-49	30	71.00
50	404.52	417.4	P16B1-50	25	14.95	P16B2-50	30	44.61	P16B3-50	30	74.00
51	412.60	425.5	P16B1-51	30	15.54	P16B2-51	30	46.49	P16B3-51	40	76.78
52	420.67	433.6	P16B1-52	30	16.17	P16B2-52	30	48.40	P16B3-52	40	79.97
53	428.75	441.7	P16B1-53	30	16.82	P16B2-53	30	50.35	P16B3-53	40	83.15
54	436.85	448.3	P16B1-54	30	17.47	P16B2-54	30	52.34	P16B3-54	40	86.50
55	444.93	457.9	P16B1-55	30	18.14	P16B2-55	30	54.38	P16B3-55	40	89.91
56	453.01	466.0	P16B1-56	30	18.82	P16B2-56	40	56.24	P16B3-56	40	93.40
57	461.07	474.0	P16B1-57	30	19.52	P16B2-57	40	58.35	P16B3-57	40	96.86
58	469.16	482.1	P16B1-58	30	20.22	P16B2-58	40	60.50	P16B3-58	40	100.40
59	477.24	490.2	P16B1-59	30	20.94	P16B2-59	40	62.70	P16B3-59	40	104.00
60	485.32	498.3	P16B1-60	30	21.67	P16B2-60	40	64.90	P16B3-60	40	107.80
62	501.50	514.5	P16B1-62	30	23.17	P16B2-62	40	69.46	P16B3-62	40	115.00
64	517.65	530.7	P16B1-64	30	24.72	P16B2-64	40	74.28	P16B3-64	40	122.70
65	525.73	538.8	P16B1-65	30	25.52	P16B2-65	40	76.59	P16B3-65	40	127.20
66	533.80	546.8	P16B1-66	30	26.32	P16B2-66	40	78.94	P16B3-66	40	131.80
68	549.98	562.9	P16B1-68	30	27.97	P16B2-68	40	84.07	P16B3-68	40	139.70
70	566.14	579.2	P16B1-70	30	29.67	P16B2-70	40	89.24	P16B3-70	40	148.30
72	582.32	595.4	P16B1-72	30	31.42	P16B2-72	40	94.57	P16B3-72	40	157.20
75	606.55	619.7	P16B1-75	30	34.14	P16B2-75	40	102.85	P16B3-75	40	171.00
76	614.65	627.0	P16B1-76	30	35.07	P16B2-76	40	105.70	P16B3-76	40	175.70
78	630.80	643.3	P16B1-78	30	36.97	P16B2-78	40	111.40	P16B3-78	40	185.00
80	646.96	660.0	P16B1-80	30	38.92	P16B2-80	40	117.40	P16B3-80	40	195.20
85	687.40	699.9	P16B1-85	30	44.01	P16B2-85	40	133.00	P16B3-85	40	221.10
90	727.81	740.3	P16B1-90	30	49.41	P16B2-90	40	149.50	P16B3-90	40	248.60
95	768.22	781.1	P16B1-95	30	55.13	P16B2-95	40	166.90	P16B3-95	40	277.70
100	808.63	821.1	P16B1-100	30	66.16	P16B2-100	40	185.30	P16B3-100	40	308.40
110	889.48	902.0	P16B1-110	30	74.16	P16B2-110	40	225.00	P16B3-110	40	374.60
114	921.81	934.3	P16B1-114	30	79.70	P16B2-114	40	242.00	P16B3-114	40	402.80
120	970.33	982.8	P16B1-120	30	88.40	P16B2-120	40	268.60	P16B3-120	40	447.20
125	1010.73	1023.2	P16B1-125	30	95.99	P16B2-125	40	291.80	P16B3-125	40	485.90

All dimensions in mm.  
Stock Platewheels can be reworked to customers bore and keyway requirements, on 48 hour service.  
Platewheels manufactured in steel 8 to 21 tooth with a minimum U.T.S. 600N/mm<sup>2</sup> - Above 21T - 410N/mm<sup>2</sup>  
Platewheels 8 to 21 tooth can be supplied with teeth induction hardened to 45Rc.

Tel +44(0) 121 360 0155

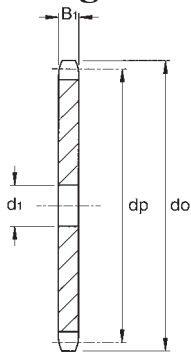
Fax +44(0) 121 325 1079

Email sales@crossmorse.com

# Standard Platewheels for 1 1/4" Pitch British Standard Chain Type 20B

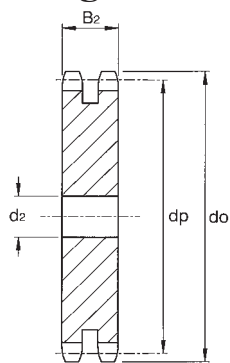


## Platewheels for Simplex Chain 20B-1 Conforming to ISO 606



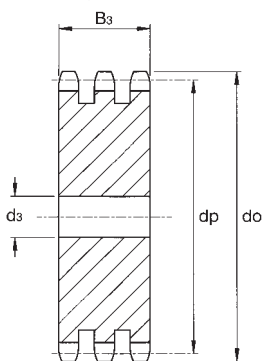
Chain No: 20B-1  
Pitch 31.75mm  
Roller Dia. 19.05mm  
Inside Width 19.56mm  
Overall Width 44.1mm  
Tooth Width B<sub>1</sub> 18.5mm

## Platewheels for Duplex Chain 20B-2 Conforming to ISO 606



Chain No: 20B-2  
Pitch 31.75mm  
Roller Dia. 19.05mm  
Inside Width 19.56mm  
Overall Width 80.5mm  
Tooth Width B<sub>2</sub> 54.6mm

## Platewheels for Triplex Chain 20B-3 Conforming to ISO 606



Chain No: 20B-3  
Pitch 31.75mm  
Roller Dia. 19.05mm  
Inside Width 19.56mm  
Overall Width 117.1mm  
Tooth Width B<sub>3</sub> 91.0mm

No. Teeth	Pitch Circle Ø dp	Outside Ø do	Platewheel for 20B-1 Chain			Platewheel for 20B-2 Chain			Platewheel for 20B-3 Chain		
			Cat. No.	Min. Bore d <sub>i</sub>	Approx. Weight kg	Cat. No.	Min. Bore d <sub>i</sub>	Approx. Weight kg	Cat. No.	Min. Bore d <sub>i</sub>	Approx. Weight kg
8	82.96	98.1	P20B1-08	16	0.5	P20B2-08	20	1.3	P20B3-08	20	2.0
9	92.84	108.0	P20B1-09	16	0.7	P20B2-09	20	1.7	P20B3-09	20	2.8
10	102.74	117.9	P20B1-10	16	0.9	P20B2-10	20	2.3	P20B3-10	20	3.6
11	112.68	127.8	P20B1-11	20	1.1	P20B2-11	20	2.9	P20B3-11	25	4.5
12	122.68	137.8	P20B1-12	20	1.3	P20B2-12	20	3.5	P20B3-12	25	5.6
13	132.65	147.8	P20B1-13	20	1.6	P20B2-13	20	4.3	P20B3-13	25	6.8
14	142.68	157.8	P20B1-14	20	1.9	P20B2-14	20	5.1	P20B3-14	25	8.2
15	152.72	167.9	P20B1-15	20	2.2	P20B2-15	20	6.0	P20B3-15	25	9.6
16	162.75	177.9	P20B1-16	25	2.5	P20B2-16	30	6.8	P20B3-16	30	11.0
17	172.78	187.9	P20B1-17	25	2.9	P20B2-17	30	7.8	P20B3-17	30	12.7
18	182.85	198.0	P20B1-18	25	3.2	P20B2-18	30	8.9	P20B3-18	30	14.5
19	192.91	208.1	P20B1-19	25	3.6	P20B2-19	30	10.0	P20B3-19	30	16.4
20	202.98	218.1	P20B1-20	25	4.1	P20B2-20	30	11.2	P20B3-20	30	18.4
21	213.04	228.2	P20B1-21	25	4.5	P20B2-21	30	12.5	P20B3-21	30	20.6
22	223.11	238.3	P20B1-22	25	5.0	P20B2-22	30	13.9	P20B3-22	30	22.8
23	233.17	248.3	P20B1-23	25	5.5	P20B2-23	30	15.3	P20B3-23	30	25.2
24	243.23	258.4	P20B1-24	25	6.0	P20B2-24	30	16.8	P20B3-24	30	27.7
25	253.33	268.5	P20B1-25	25	6.5	P20B2-25	30	18.4	P20B3-25	30	30.3
26	263.40	278.6	P20B1-26	30	7.0	P20B2-26	30	20.0	P20B3-26	30	33.0
27	273.40	288.6	P20B1-27	30	7.6	P20B2-27	30	21.7	P20B3-27	30	35.8
28	283.56	298.7	P20B1-28	30	8.2	P20B2-28	30	23.5	P20B3-28	30	38.7
29	293.65	308.8	P20B1-29	30	8.8	P20B2-29	30	25.3	P20B3-29	30	41.8
30	303.75	318.9	P20B1-30	30	9.5	P20B2-30	30	27.2	P20B3-30	30	45.0
31	313.85	329.0	P20B1-31	30	10.1	P20B2-31	30	29.2	P20B3-31	30	48.3
32	323.91	339.1	P20B1-32	30	10.8	P20B2-32	30	31.2	P20B3-32	30	51.7
33	334.01	349.2	P20B1-33	30	11.5	P20B2-33	30	33.4	P20B3-33	30	55.2
34	344.10	359.3	P20B1-34	30	12.3	P20B2-34	30	35.5	P20B3-34	30	58.8
35	354.20	369.4	P20B1-35	30	13.0	P20B2-35	30	37.8	P20B3-35	30	62.5
36	364.30	379.5	P20B1-36	30	13.8	P20B2-36	30	40.1	P20B3-36	30	66.4
37	374.39	389.5	P20B1-37	30	14.6	P20B2-37	30	42.5	P20B3-37	30	70.4
38	384.49	399.6	P20B1-38	30	15.5	P20B2-38	30	45.0	P20B3-38	30	74.4
39	394.59	409.7	P20B1-39	30	16.3	P20B2-39	30	47.5	P20B3-39	30	78.7
40	404.68	419.8	P20B1-40	30	17.2	P20B2-40	30	50.1	P20B3-40	30	83.0
41	414.78	429.9	P20B1-41	30	18.1						
42	424.88	440.0	P20B1-42	30	19.0	P20B2-42	30	55.5	P20B3-42	40	91.5
43	434.97	450.1	P20B1-43	30	19.9						
44	445.07	460.2	P20B1-44	30	20.9						
45	455.17	470.3	P20B1-45	30	21.9	P20B2-45	30	64.1	P20B3-45	40	105.9
46	465.26	480.4	P20B1-46	30	22.9	P20B2-46	30	67.1	P20B3-46	40	110.9
47	475.36	490.5	P20B1-47	30	23.9						
48	485.46	500.6	P20B1-48	30	25.0	P20B2-48	30	73.3	P20B3-48	40	121.2
49	495.55	510.7	P20B1-49	30	26.1						
50	505.65	520.8	P20B1-50	30	27.2	P20B2-50	30	79.8	P20B3-50	40	132.0
51	515.75	530.9	P20B1-51	30	28.3						
52	525.84	541.0	P20B1-52	30	29.4	P20B2-52	40	86.3	P20B3-52	40	143.3
53	535.94	551.1	P20B1-53	30	30.6						
54	546.07	561.2	P20B1-54	30	31.8						
55	556.16	571.3	P20B1-55	30	33.0	P20B2-55	40	97.0	P20B3-55	40	161.1
56	566.26	581.4	P20B1-56	30	34.3						
57	576.36	591.5	P20B1-57	30	35.5	P20B2-57	40	104.5	P20B3-57	40	173.5
58	586.45	601.6	P20B1-58	30	36.8						
59	596.55	611.7	P20B1-59	30	38.1						
60	606.65	621.8	P20B1-60	30	39.4	P20B2-60	40	116.2	P20B3-60	40	192.9
62	626.87	642.0	P20B1-62	30	42.2						
64	647.06	662.2	P20B1-64	30	45.0						
65	657.16	672.3	P20B1-65	30	46.4	P20B2-65	40	137.0	P20B3-65	40	227.7
66	667.26	682.4	P20B1-66	30	47.9						
68	687.48	702.6	P20B1-68	30	50.9						
70	707.67	722.8	P20B1-70	30	53.9	P20B2-70	40	159.6	P20B3-70	40	265.3
72	727.90	743.1	P20B1-72	30	57.1						
75	758.19	773.3	P20B1-75	30	62.1						
76	768.32	783.5	P20B1-76	30	63.8	P20B2-76	40	189.0	P20B3-76	40	314.3
80	808.72	823.9	P20B1-80	30	70.7	P20B2-80	40	209.9	P20B3-80	40	349.2
85	859.25	874.4	P20B1-85	30	80.0						
90	909.76	924.9	P20B1-90	30	89.8						
95	960.28	975.4	P20B1-95	30	100.2	P20B2-95	40	298.3	P20B3-95	40	496.4
100	1010.79	1026.0	P20B1-100	40	111.1						
114	1152.26	1167.4	P20B1-114	40	144.7	P20B2-114	40	423.3	P20B3-114	40	720.0

All dimensions in mm.

Stock Platewheels can be reworked to customers bore and keyway requirements, on 48 hour service.  
Platewheels manufactured in steel 8 to 21 tooth with a minimum U.T.S. 600N/mm<sup>2</sup> - Above 21T - 410N/mm<sup>2</sup>  
Platewheels 8 to 21 tooth can be supplied with teeth induction hardened to 45Rc.

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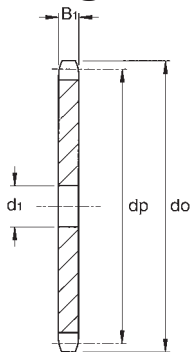
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# Standard Platewheels for 1½" Pitch British Standard Chain Type 24B

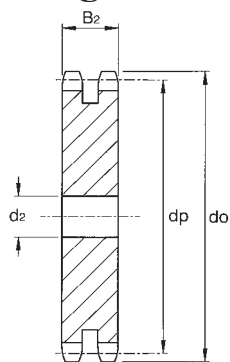


## Platewheels for Simplex Chain 24B-1 Conforming to ISO 606



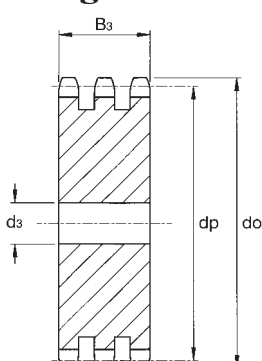
Chain No: 24B-1  
Pitch 38.10mm  
Roller Dia. 25.40mm  
Inside Width 25.40mm  
Overall Width 56.9mm  
Tooth Width B<sub>1</sub> 24.1mm

## Platewheels for Duplex Chain 24B-2 Conforming to ISO 606



Chain No: 24B-2  
Pitch 38.10mm  
Roller Dia. 25.40mm  
Inside Width 25.40mm  
Overall Width 105.0mm  
Tooth Width B<sub>2</sub> 72.0mm

## Platewheels for Triplex Chain 24B-3 Conforming to ISO 606



Chain No: 24B-3  
Pitch 38.10mm  
Roller Dia. 25.40mm  
Inside Width 25.40mm  
Overall Width 153.0mm  
Tooth Width B<sub>3</sub> 120.3mm

No. Teeth	Pitch Circle Ø dp	Outside Ø do	Platewheel for 24B-1 Chain			Platewheel for 24B-2 Chain			Platewheel for 24B-3 Chain		
			Cat. No.	Min. Bore d <sub>1</sub>	Approx. Weight kg	Cat. No.	Min. Bore d <sub>2</sub>	Approx. Weight kg	Cat. No.	Min. Bore d <sub>3</sub>	Approx. Weight kg
8	99.55	115.0	P24B1-08	20	1.0	P24B2-08	25	2.3	P24B3-08	25	3.6
9	111.40	126.4	P24B1-09	20	1.3	P24B2-09	25	3.1	P24B3-09	25	5.0
10	123.29	138.0	P24B1-10	20	1.6	P24B2-10	25	4.1	P24B3-10	25	6.7
11	135.21	150.0	P24B1-11	25	2.0	P24B2-11	25	5.2	P24B3-11	30	8.3
12	147.22	162.0	P24B1-12	25	2.4	P24B2-12	25	6.5	P24B3-12	30	10.4
13	159.18	174.2	P24B1-13	25	2.9	P24B2-13	25	7.9	P24B3-13	30	12.7
14	171.22	186.2	P24B1-14	25	3.4	P24B2-14	25	9.4	P24B3-14	30	15.2
15	183.26	198.2	P24B1-15	25	4.0	P24B2-15	25	11.0	P24B3-15	30	17.9
16	195.30	210.3	P24B1-16	25	4.6	P24B2-16	30	12.7	P24B3-16	30	20.8
17	207.34	222.3	P24B1-17	25	5.2	P24B2-17	30	14.6	P24B3-17	30	24.0
18	219.42	234.3	P24B1-18	25	5.9	P24B2-18	30	16.6	P24B3-18	30	27.3
19	231.49	246.5	P24B1-19	25	6.6	P24B2-19	30	18.8	P24B3-19	30	30.9
20	243.57	258.6	P24B1-20	25	7.4	P24B2-20	30	21.0	P24B3-20	30	34.7
21	255.65	270.6	P24B1-21	30	8.2	P24B2-21	30	23.5	P24B3-21	40	38.2
22	267.73	282.7	P24B1-22	30	9.1	P24B2-22	30	26.0	P24B3-22	40	42.5
23	279.80	294.8	P24B1-23	30	10.0	P24B2-23	30	28.7	P24B3-23	40	46.9
24	291.88	306.8	P24B1-24	30	10.9	P24B2-24	30	31.5	P24B3-24	40	51.6
25	304.00	319.0	P24B1-25	30	11.9	P24B2-25	30	34.4	P24B3-25	40	56.5
26	316.08	331.0	P24B1-26	30	12.9	P24B2-26	30	37.5	P24B3-26	40	61.6
27	328.19	343.2	P24B1-27	30	13.9	P24B2-27	30	40.7	P24B3-27	40	66.9
28	340.27	355.2	P24B1-28	30	15.0	P24B2-28	30	44.0	P24B3-28	40	72.5
29	352.38	367.3	P24B1-29	30	16.2	P24B2-29	30	47.4	P24B3-29	40	78.2
30	364.50	379.5	P24B1-30	30	17.4	P24B2-30	30	51.0	P24B3-30	40	84.2
31	376.62	391.6	P24B1-31	30	18.6	P24B2-31	40	54.4	P24B3-31	40	90.8
32	388.69	403.7	P24B1-32	30	19.8	P24B2-32	40	58.3	P24B3-32	40	96.8
33	400.81	415.8	P24B1-33	30	21.2	P24B2-33	40	62.2	P24B3-33	40	103.4
34	412.93	427.8	P24B1-34	30	22.5	P24B2-34	40	66.3	P24B3-34	40	110.2
35	425.04	440.0	P24B1-35	30	23.9	P24B2-35	40	70.5	P24B3-35	40	117.3
36	437.16	452.0	P24B1-36	30	25.3	P24B2-36	40	74.9	P24B3-36	40	124.6
37	449.27	464.2	P24B1-37	30	26.8	P24B2-37	40	79.4	P24B3-37	40	132.1
38	461.39	476.2	P24B1-38	30	28.3	P24B2-38	40	84.0	P24B3-38	40	139.8
39	473.50	488.5	P24B1-39	30	29.9	P24B2-39	40	88.7	P24B3-39	40	147.7
40	485.62	500.6	P24B1-40	30	31.5	P24B2-40	40	93.6	P24B3-40	40	155.8
41	497.74	512.6	P24B1-41	30	33.2						
42	509.85	524.7	P24B1-42	30	34.8	P24B2-42	40	103.7	P24B3-42	40	172.8
43	521.97	536.8	P24B1-43	30	36.6						
44	534.08	549.0	P24B1-44	30	38.3						
45	546.20	561.2	P24B1-45	30	40.2	P24B2-45	40	119.9	P24B3-45	40	199.8
46	558.32	573.3	P24B1-46	30	42.0	P24B2-46	40	125.6	P24B3-46	40	209.2
47	570.43	585.4	P24B1-47	30	43.9						
48	582.55	597.4	P24B1-48	30	45.8	P24B2-48	40	137.3	P24B3-48	40	228.8
49	594.66	609.5	P24B1-49	30	47.8						
50	606.78	621.7	P24B1-50	30	49.8	P24B2-50	40	149.5	P24B3-50	40	249.2
51	618.89	633.8	P24B1-51	30	51.9						
52	631.01	646.0	P24B1-52	30	54.0						
53	643.13	658.0	P24B1-53	30	56.2						
54	655.28	670.2	P24B1-54	30	58.3						
55	667.40	682.3	P24B1-55	30	60.6	P24B2-55	40	182.2	P24B3-55	40	304.0
56	679.51	694.4	P24B1-56	30	62.8						
57	691.63	706.5	P24B1-57	30	65.2	P24B2-57	40	196.2	P24B3-57	40	327.4
58	703.74	718.6	P24B1-58	30	67.5						
59	715.86	730.7	P24B1-59	30	69.9						
60	727.97	742.8	P24B1-60	30	72.3	P24B2-60	40	218.2	P24B3-60	40	364.2
62	752.24	767.2	P24B1-62	40	77.2						
64	776.48	791.3	P24B1-64	40	82.4						
65	788.59	803.4	P24B1-65	40	85.1	P24B2-65	40	257.5	P24B3-65	40	429.9
66	800.71	815.6	P24B1-66	40	87.8						
68	824.98	839.8	P24B1-68	40	93.3						
70	849.21	864.2	P24B1-70	40	98.9						
72	873.48	888.4	P24B1-72	40	104.8						
75	909.83	924.8	P24B1-75	40	113.8						
76	921.98	939.9	P24B1-76	40	116.9	P24B2-76	40	355.1	P24B3-76	40	593.4
80	970.44	985.7	P24B1-80	40	129.8						
85	1031.10	1046.0	P24B1-85	40	146.8						
95	1152.33	1167.0	P24B1-95	40	183.9						

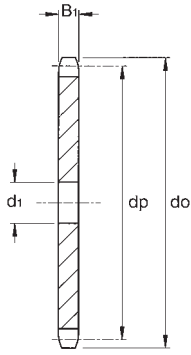
All dimensions in mm.  
Stock Platewheels can be reworked to customers bore and keyway requirements, on 48 hour service.  
Platewheels manufactured in steel 8 to 21 tooth with a minimum U.T.S. 600N/mm<sup>2</sup> - Above 21T - 410N/mm<sup>2</sup>  
Platewheels 8 to 21 tooth can be supplied with teeth induction hardened to 45Rc.

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# Standard Platewheels for 1 3/4" & 2" Pitch B.S. Chains Types 28B & 32B

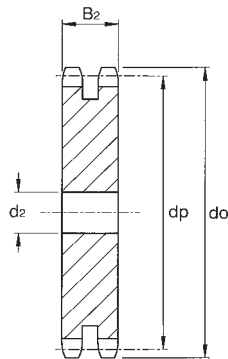


## Platewheels for Simplex Chains Conforming to ISO 606 28B - 1 3/4" Pitch Platewheel



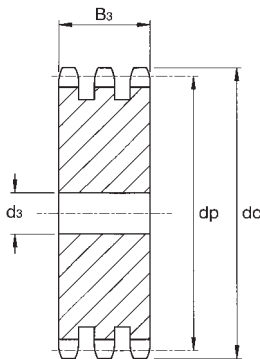
Chain No:	28B-1	32B-1
Pitch	44.45mm	50.8mm
Roller Dia.	27.94mm	29.21mm
Inside Width	30.99mm	30.99mm
Overall Width	71.3mm	68.6mm
Tooth Width B <sub>1</sub>	29.4mm	29.4mm

## Platewheels for Duplex Chain Conforming to ISO 606



Chain No:	28B-2	32B-2
Pitch	44.45mm	50.8mm
Roller Dia.	27.94mm	29.21mm
Inside Width	30.99mm	30.99mm
Overall Width	130.3mm	126.8mm
Tooth Width B <sub>2</sub>	88.4mm	87.4mm

## Platewheels for Triplex Chain Conforming to ISO 606



Chain No:	28B-3	32B-3
Pitch	44.45mm	50.8mm
Roller Dia.	27.94mm	29.21mm
Inside Width	30.99mm	30.99mm
Overall Width	189.9mm	185.0mm
Tooth Width B <sub>3</sub>	148.0mm	146.0mm

No. Teeth	Pitch Circle Ø dp	Outside Ø do	Platewheel for 28B-1 Chain			Platewheel for 28B-2 Chain			Platewheel for 28B-3 Chain		
			Cat. No.	Min. Bore d <sub>i</sub>	Approx. Weight kg	Cat. No.	Min. Bore d <sub>i</sub>	Approx. Weight kg	Cat. No.	Min. Bore d <sub>i</sub>	Approx. Weight kg
8	116.15	132.0	P28B1-08	25	1.7	P28B2-08	25	3.9	P28B3-08	25	6.1
9	129.96	148.4	P28B1-09	25	2.3	P28B2-09	25	5.6	P28B3-09	25	8.8
10	143.85	162.3	P28B1-10	25	2.9	P28B2-10	25	7.2	P28B3-10	25	11.5
11	157.77	176.3	P28B1-11	25	3.6	P28B2-11	30	9.0	P28B3-11	30	14.4
12	171.74	189.5	P28B1-12	25	4.3	P28B2-12	30	11.0	P28B3-12	30	17.7
13	185.75	204.2	P28B1-13	25	5.2	P28B2-13	30	13.4	P28B3-13	30	21.7
14	199.76	218.2	P28B1-14	25	6.1	P28B2-14	30	15.9	P28B3-14	30	25.8
15	213.79	232.3	P28B1-15	25	7.1	P28B2-15	30	18.7	P28B3-15	30	30.4
16	227.84	246.3	P28B1-16	30	8.1	P28B2-16	30	21.6	P28B3-16	30	35.3
17	241.91	260.0	P28B1-17	30	9.1	P28B2-17	30	24.8	P28B3-17	30	40.5
18	255.98	274.0	P28B1-18	30	10.3	P28B2-18	30	28.2	P28B3-18	30	46.2
19	270.06	289.0	P28B1-19	30	11.7	P28B2-19	30	32.0	P28B3-19	30	52.5
20	284.15	303.0	P28B1-20	30	13.0	P28B2-20	30	35.8	P28B3-20	30	58.8
21	298.24	317.0	P28B1-21	30	14.4	P28B2-21	30	39.9	P28B3-21	40	64.9
22	312.34	331.0	P28B1-22	30	15.9	P28B2-22	30	44.1	P28B3-22	40	72.0
23	326.44	345.0	P28B1-23	30	17.4	P28B2-23	30	48.6	P28B3-23	40	79.5
24	340.55	359.0	P28B1-24	30	19.0	P28B2-24	30	53.3	P28B3-24	40	87.3
25	354.66	373.0	P28B1-25	30	20.7	P28B2-25	30	58.2	P28B3-25	40	95.5
26	368.77	387.0	P28B1-26	30	22.4	P28B2-26	30	63.4	P28B3-26	40	104.0
27	382.88	401.0	P28B1-27	30	24.3	P28B2-27	30	68.8	P28B3-27	40	113.1
28	397.00	416.0	P28B1-28	30	26.3	P28B2-28	30	74.6	P28B3-28	40	122.6
29	411.12	430.0	P28B1-29	30	28.2	P28B2-29	30	80.4			
30	425.24	444.0	P28B1-30	30	30.3	P28B2-30	30	86.4	P28B3-30	40	142.2
31	439.37	458.0	P28B1-31	30	32.4						
32	453.49	472.0	P28B1-32	30	34.5						
33	467.62	486.0	P28B1-33	30	36.8						
34	481.75	500.0	P28B1-34	30	39.1						
35	495.88	514.0	P28B1-35	30	41.5	P28B2-35	40	119.2	P28B3-35	40	197.6
36	510.01	529.0	P28B1-36	30	44.1						
37	524.14	543.0	P28B1-37	30	46.7						
38	538.27	557.0	P28B1-38	30	49.3	P28B2-38	40	142.1	P28B3-38	40	235.8
39	552.40	571.0	P28B1-39	30	52.0						
40	566.54	585.0	P28B1-40	30	54.7	P28B2-40	40	158.3	P28B3-40	40	262.7
45	637.22	656.0	P28B1-45	30	69.7	P28B2-45	40	202.8	P28B3-45	40	336.9
50	707.91	726.0	P28B1-50	30	86.3	P28B2-50	40	252.3	P28B3-50	40	419.5
57	806.90	825.0	P28B1-57	40	112.6	P28B2-57	40	331.2	P28B3-57	40	551.2
60	849.32	869.0	P28B1-60	40	125.5	P28B2-60	40	369.2	P28B3-60	40	614.6
76	1075.62	1095.0	P28B1-76	40	202.8	P28B2-76	40	600.2	P28B3-76	40	1000.4

## 32B - 2" Pitch Platewheel

No. Teeth	Pitch Circle Ø dp	Outside Ø do	Platewheel for 32B-1 Chain			Platewheel for 32B-2 Chain			Platewheel for 32B-3 Chain		
			Cat. No.	Min. Bore d <sub>i</sub>	Approx. Weight kg	Cat. No.	Min. Bore d <sub>i</sub>	Approx. Weight kg	Cat. No.	Min. Bore d <sub>i</sub>	Approx. Weight kg
8	132.75	153.2	P32B1-08	25	2.6	P32B2-08	25	5.8	P32B3-08	25	9.3
9	148.53	169.0	P32B1-09	25	3.4	P32B2-09	25	7.7	P32B3-09	25	12.5
10	164.39	185.0	P32B1-10	25	4.2	P32B2-10	25	10.0	P32B3-10	25	16.1
11	180.31	200.8	P32B1-11	30	5.1	P32B2-11	35	12.5	P32B3-11	35	20.2
12	196.28	216.8	P32B1-12	30	6.1	P32B2-12	35	15.2	P32B3-12	35	24.7
13	212.27	232.8	P32B1-13	30	7.2	P32B2-13	35	18.3	P32B3-13	35	29.8
14	228.29	248.8	P32B1-14	30	8.5	P32B2-14	35	21.7	P32B3-14	35	35.3
15	244.33	264.8	P32B1-15	30	9.7	P32B2-15	35	25.3	P32B3-15	35	41.2
16	260.39	280.9	P32B1-16	30	11.1	P32B2-16	40	29.2	P32B3-16	40	47.7
17	276.46	296.9	P32B1-17	30	12.6	P32B2-17	40	33.4	P32B3-17	40	54.6
18	292.55	313.0	P32B1-18	30	14.2	P32B2-18	40	37.9	P32B3-18	40	62.0
19	308.64	329.1	P32B1-19	30	15.9	P32B2-19	40	42.6	P32B3-19	40	69.9
20	324.74	345.2	P32B1-20	30	17.7	P32B2-20	40	47.7	P32B3-20	40	78.2
21	340.84	361.3	P32B1-21	40	19.5	P32B2-21	40	53.0	P32B3-21	40	87.0
22	356.96	377.5	P32B1-22	40	21.5	P32B2-22	40	58.6	P32B3-22	40	96.4
23	373.07	393.6	P32B1-23	40	23.5	P32B2-23	40	64.5	P32B3-23	40	106.1
24	389.19	409.7	P32B1-24	40	25.7	P32B2-24	40	70.7	P32B3-24	40	116.3
25	405.32	425.8	P32B1-25	40	27.9	P32B2-25	40	77.1	P32B3-25	40	127.0
26	421.45	441.9	P32B1-26	40	30.3	P32B2-26	40	83.9	P32B3-26	40	138.2
27	437.58	458.1	P32B1-27	40	32.7	P32B2-27	40	90.9	P32B3-27	40	149.8
28	453.72	474.2	P32B1-28	40	35.2	P32B2-28	40	98.2	P32B3-28	40	161.9
29	469.85	490.4	P32B1-29	40	37.8	P32B2-29	40	105.8	P32B3-29	40	174.5
30	485.99	506.5	P32B1-30	40	40.5	P32B2-30	40	113.6	P32B3-30	40	187.6
32	518.28	538.8	P32B1-32	40	46.3	P32B2-32	40	130.2	P32B3-32	40	215.1
35	566.72	589.5	P32B1-35	40	56.0	P32B2-35	40	158.1	P32B3-35	40	261.3
38	615.17	635.5	P32B1-38	40	65.6	P32B2-38	40	186.6	P32B3-38	40	308.8
40	647.47	670.3	P32B1-40	40	73.4	P32B2-40	40	208.9	P32B3-40	40	345.7
45	728.25	751.0	P32B1-45	40	93.1	P32B2-45	40	266.6	P32B3-45	40	441.7
50	809.04	831.8	P32B1-50	40	115.2	P32B2-50	40	331.4	P32B3-50	40	549.5
57	922.16	945.0	P32B1-57	40	150.2	P32B2-57	40	434.1	P32B3-57	40	720.4
60	970.65	993.4	P32B1-60	40	166.5	P32B2-60	40	482.2	P32B3-60	40	800.5
76	1229.28	1252.0	P32B1-76	40	268.1	P32B2-76	40	782.0	P32B3-76	40	1300.0

All dimensions in mm.  
Stock Platewheels can be reworked to customers bore and keyway requirements, on 48 hour service.  
Platewheels manufactured in steel 8 to 21 tooth with a minimum U.T.S. 600N/mm<sup>2</sup> - Above 21T - 410N/mm<sup>2</sup>  
Platewheels 8 to 21 tooth can be supplied with teeth induction hardened to 45Rc.

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# Steel Adaptors for Platewheels



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Steel adaptors, used in conjunction with standard platewheels (pp 59-68) enable low cost production of steel sprockets with tooth range 19-114 teeth. Three types of adaptors are available, threaded adaptor, weld-on hubs, and detachable hubs.

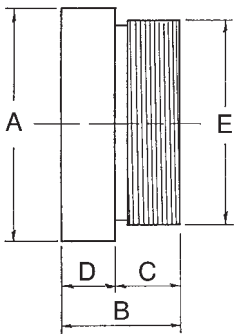
**The threaded adaptors** were originally developed to convert cycle sprockets for industrial use. They enable simple, quick exchange of platewheels to adjust drives for prototypes and development work. These adaptors are suitable for simplex platewheels from  $\frac{3}{8}$ " to  $\frac{3}{4}$ " pitch chain, and also for Industrial Ratchet Freewheels (refer catalogue 'Freewheel Clutches').

**The weld-on hubs** are designed to enable conversion of platewheels to sprockets, with a fully welded construction. They are available with pilot parallel bore, finish bored and keyed, or bored to suit standard taper bushes.

**Detachable hubs** enable modifications in the field by replacement of platewheels. A limited level of phasing can also be achieved, dependant on number of teeth in the sprocket. In addition to production of sprockets, adaptors can also be used in the construction of fans, wheels and conveyor rollers.



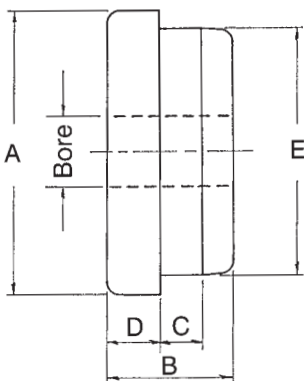
## Threaded Adaptors with Solid Bore



Hub Ref.	Max Bore	A Max	B	C	D	E R.H. Thread C.E.I. Form 24T.P.I.	Approx. Weight Kg
A211	20	42	27	14.3	12.7	1.37"	0.23
A212	24	48	27	14.3	123.7	1.625"	0.32
A213	30	58	27	14.3	12.7	2.00"	0.48

Hubs can be supplied bored, keywayed and setscrewed to customers requirements. Some sizes platewheels for 081, and 08B-1 chain stocked with threaded bore for A211 adaptor.

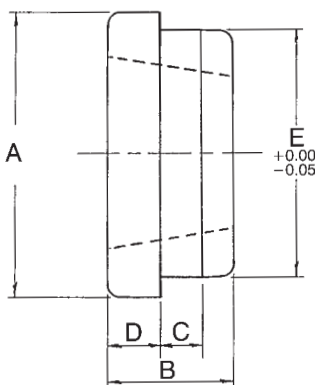
## Steel Weld-on Hubs with Pilot Bore



Hub Ref.	Pilot Bore Size	Max Bore	A	B	C	D	E	Approx. Weight Kg
A214	20	40	70	38	11	16	60.00 59.95	0.89
A215	20	45	80	38	11	16	70.00 59.95	1.25
A216	25	55	95	44	13	19	85.00 84.95	2.10
A217	25	70	120	44	13	19	110.00 109.95	3.51
A218	25	85	145	51	16	19	130.00 129.95	5.78

Hubs can be supplied bored and keywayed to customers requirements.

## Steel Weld-on Hubs with Taper Bore



Hub Ref.	Use Bush Size	Max Bore	A	B	C	D	E	Approx. Weight Kg
H12	1210	32	70	25	10	9	65	0.25
H16	1610	42	80	25	10	9	75	0.41
H20	2012	50	95	32	12	12	90	0.75
H25	2517	60	115	45	15	19	110	1.48
H30	3020	75	145	51	15	19	140	2.73
W30	3030	75	145	76	15	19	140	4.05
H35	3525	90	190	65	25	25	180	4.70
W35	3535	90	190	89	25	25	180	6.40
H40	4040	100	200	102	30	32	190	13.80

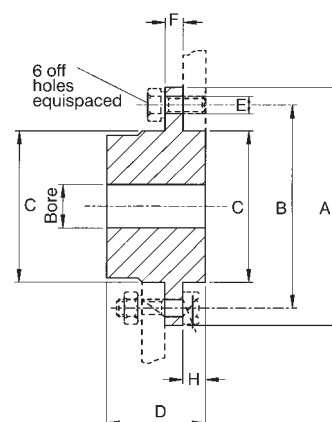
Hubs are taper bored and drilled to suit standard taper bushes (refer pp. 38/39). Earlier series 'M' taper bore hubs are available on short delivery. M25 & M30 have been superseded by H25 & H30 respectively. All dimensions in mm.

# Steel Adaptors and Idler Sprockets



## Detachable Hubs

Hub Ref.	Min. Bore	Max. Bore	A	B	C	D	E	F	H	App. Wt.
D30	8	20	55	45	30	20.0	4.2	4	3.0	0.15
D40	10	26	70	58	40	25.0	5.2	5	5.2	0.32
D50	14	32	80	67	50	32.0	6.2	7	7.0	0.61
D60	16	40	90	76	60	38.5	6.2	7	8.7	0.95
D70	20	45	110	94	70	45.5	8.2	8	10.5	1.90
D80	25	52	130	107	80	55.0	8.2	12	15.0	2.65
D100	30	65	170	140	100	73.0	10.2	17	23.0	6.00
D140	35	90	220	182	140	83.0	12.2	20	23.0	13.08
D160	40	104	245	205	160	93.0	16.5	25	25.0	18.80



All dimensions in mm.  
Hubs can be supplied bored and keywayed to customers requirements.

## Idler Sprockets

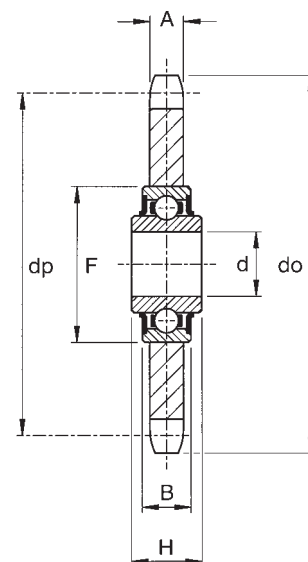
The standard Idler Sprockets in this series are supplied complete with built in fully shielded and greased for life ball bearing, providing full lifetime maintenance free operation. Two standards of bearings are offered, an economy bearing for light duty applications, and a top quality European bearing for higher loads and speeds.

The extended width inner race enables correct mounting on the shaft without the need for spacers. The sprocket is manufactured from medium carbon steel and secured to the outer race of the bearing by press fit. Many chain drives, by virtue of their design, require a tensioning sprocket, and where fixed idlers are preferred this range of Idler Sprockets provides the ideal solution.

In addition to the standard range, Idler Sprockets can be manufactured to order to suit other sizes of B.S. Standard Chains and ANSI Series, in both Simplex and Multistrand construction, and with alternate numbers of teeth.



Part No.	Chain Size	Sprocket Dimensions				Bearing Dimensions				Weight
		No. Teeth	P.C.D.	OD	Tooth Width	Min Bore	Hub Dia	LTB	Approx. kg	
		Z	dp	do	A	d	F	B	H	
IS05B1-23T	05B1	23	58.75	62.0	7.0	16.0	40.0	12.0	18.3	0.15
IS06B1-20T	06B1	20	60.89	64.3	7.0	16.0	40.0	12.0	18.3	0.07
IS06B1-21T	06B1	21	63.90	68.0	7.0	16.0	40.0	12.0	18.3	0.16
IS081-18T	081	18	73.14	78.9	7.0	16.0	40.0	12.0	18.3	0.21
IS083-16T	083	16	65.10	70.9	7.0	16.0	40.0	12.0	18.3	0.50
IS083-18T	083	18	73.14	78.9	7.0	16.0	40.0	12.0	18.3	0.20
IS08B1-14T	08B1	14	57.07	61.8	7.2	16.0	40.0	12.0	18.3	0.11
IS08B1-15T	08B1	15	61.09	65.5	7.2	16.0	40.0	12.0	18.3	0.12
IS08B1-16T	08B1	16	65.10	69.5	7.2	16.0	40.0	12.0	18.3	0.18
IS08B1-18T	08B1	18	73.14	77.8	7.2	16.0	40.0	12.0	18.3	0.23
IS08B1-20T	08B1	20	81.19	85.8	7.2	16.0	40.0	12.0	18.3	0.26
IS08B1-21T	08B1	21	85.22	89.7	7.2	16.0	40.0	12.0	18.3	0.26
IS10B1-13T	10B1*	13	66.32	73.0	9.1	16.0	40.0	12.0	18.3	0.24
IS10B1-14T	10B1*	14	71.34	78.0	9.1	16.0	40.0	12.0	18.3	0.24
IS10B1-15T	10B1*	15	76.36	83.0	9.1	16.0	40.0	12.0	18.3	0.27
IS10B1-16T	10B1*	16	81.37	88.0	9.1	16.0	40.0	12.0	18.3	0.32
IS10B1-17T	10B1*	17	86.39	93.0	9.1	16.0	40.0	12.0	18.3	0.33
IS10B1-18T	10B1*	18	91.42	98.3	9.1	16.0	40.0	12.0	18.3	0.30
IS10B1-21T	10B1*	21	106.52	113.4	9.1	16.0	40.0	12.0	18.3	0.50
IS12B1-12T	12B1	12	73.60	81.5	11.1	16.0	40.0	12.0	18.3	0.32
IS12B1-13T	12B1	13	79.59	87.5	11.1	16.0	40.0	12.0	18.3	0.36
IS12B1-15T	12B1	15	91.63	99.8	11.1	16.0	40.0	12.0	18.3	0.45
IS12B1-16T	12B1	16	97.65	105.5	11.1	16.0	40.0	12.0	18.3	0.50
IS16B1-12T	16B1	12	98.14	109.0	16.2	20.0	47.0	14.0	17.7	0.65
IS16B1-15T	16B1	15	122.17	133.0	16.2	20.0	47.0	14.0	17.7	1.10
IS16B1-17T	16B1	17	138.24	149.0	16.2	20.0	47.0	14.0	17.7	1.50
IS20B1-13T	20B1	13	132.65	147.8	18.5	25.0	52.0	15.0	21.0	1.50



\*Also suitable for ANSI 50 Chain.