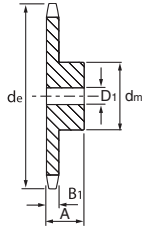


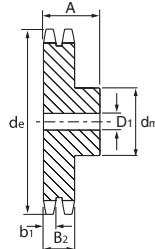
ANSI Pilot Bore Sprockets

ANSI Pilot Bore Sprockets (all C45 steel construction)

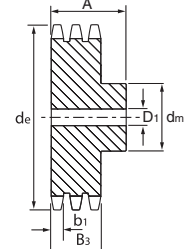
35 3/8" pitch **06A**



Type B



Type B



Type B

		Simplex					Duplex						Triplex					
Teeth	Outer Dia de	Hub Dia dm	Length thro' Bore A	B1	Stock Bore D1	Type	Hub Dia dm	Length thro' Bore A	b1	B2	Stock Bore D1	Type	Hub Dia dm	Length thro' Bore A	b1	B3	Stock Bore D1	Type
8	1.13	3/4*	3/4	0.168	3/8	B	-	-	-	-	-	-	-	-	-	-	-	-
9	1.26	27/32*	3/4	0.168	3/8	B	-	-	-	-	-	-	-	-	-	-	-	-
10	1.38	31/32*	3/4	0.168	3/8	B	-	-	-	-	-	-	-	-	-	-	-	-
11	1.50	1.1/16*	3/4	0.168	3/8	B	-	-	-	-	-	-	-	-	-	-	-	-
12	1.63	1.7/32*	3/4	0.168	1/2	B	63/64	1.1/4	0.162	0.561	1/2	B	-	-	-	-	-	-
13	1.75	1.1/4*	3/4	0.168	1/2	B	1.7/64	1.1/4	0.162	0.561	1/2	B	1.7/64	1.3/4	0.162	0.960	1/2	B
14	1.87	1.1/4	3/4	0.168	1/2	B	1.1/4	1.1/4	0.162	0.561	1/2	B	1.1/4	1.3/4	0.162	0.960	1/2	B
15	1.99	1.11/32	3/4	0.168	1/2	B	1.13/32	1.1/4	0.162	0.561	1/2	B	1.13/32	1.3/4	0.162	0.960	1/2	B
16	2.11	1.15/32	3/4	0.168	1/2	B	1.15/32	1.1/4	0.162	0.561	1/2	B	1.15/32	1.3/4	0.162	0.960	1/2	B
17	2.23	1.19/32	3/4	0.168	1/2	B	1.19/32	1.1/4	0.162	0.561	1/2	B	1.19/32	1.3/4	0.162	0.960	1/2	B
18	2.35	1.23/32	3/4	0.168	1/2	B	1.23/32	1.1/4	0.162	0.561	1/2	B	1.23/32	1.3/4	0.162	0.960	1/2	B
19	2.47	1.27/32	3/4	0.168	1/2	B	1.7/8	1.1/4	0.162	0.561	1/2	B	1.7/8	1.3/4	0.162	0.960	1/2	B
20	2.59	1.15/16	3/4	0.168	1/2	B	1.15/16	1.3/8	0.162	0.561	3/4	B	1.15/16	1.7/8	0.162	0.960	3/4	B
21	2.71	2	7/8	0.168	1/2	B	2.1/16	1.3/8	0.162	0.561	3/4	B	2.1/16	1.7/8	0.162	0.960	3/4	B
22	2.83	2	7/8	0.168	1/2	B	2.3/16	1.3/8	0.162	0.561	3/4	B	2.3/16	1.7/8	0.162	0.960	3/4	B
23	2.95	2	7/8	0.168	1/2	B	2.1/4	1.3/8	0.162	0.561	3/4	B	2.1/4	1.7/8	0.162	0.960	3/4	B
24	3.07	2	7/8	0.168	1/2	B	2.1/4	1.3/8	0.162	0.561	3/4	B	2.1/4	1.7/8	0.162	0.960	3/4	B
25	3.19	2	7/8	0.168	1/2	B	2.1/4	1.3/8	0.162	0.561	3/4	B	2.1/4	1.7/8	0.162	0.960	3/4	B
26	3.31	2	7/8	0.168	1/2	B	2.1/2	1.3/8	0.162	0.561	3/4	B	2.1/2	1.7/8	0.162	0.960	3/4	B
27	3.43	2	7/8	0.168	1/2	B	-	-	-	-	-	-	-	-	-	-	-	-
28	3.55	2	7/8	0.168	1/2	B	-	-	-	-	-	-	-	-	-	-	-	-
30	3.79	2	7/8	0.168	1/2	B	2.1/2	1.3/8	0.162	0.561	3/4	B	2.1/2	1.7/8	0.162	0.960	3/4	B
32	4.03	2	7/8	0.168	1/2	B	-	-	-	-	-	-	-	-	-	-	-	-
35	4.39	2.1/4	7/8	0.168	5/8	B	-	-	-	-	-	-	-	-	-	-	-	-
36	4.51	2.1/4	7/8	0.168	5/8	B	2.1/2	1.3/8	0.162	0.561	3/4	B	2.1/2	1.7/8	0.162	0.960	3/4	B
40	4.99	2.1/4	1	0.168	5/8	B	-	-	-	-	-	-	-	-	-	-	-	-
42	5.23	2.1/4	1	0.168	5/8	B	2.1/2	1.3/8	0.162	0.561	3/4	B	2.1/2	1.7/8	0.162	0.960	3/4	B
45	5.59	2.1/4	1	0.168	5/8	B	-	-	-	-	-	-	-	-	-	-	-	-
48	5.95	2.1/4	1	0.168	5/8	B	2.1/2	1.3/8	0.162	0.561	3/4	B	2.1/2	1.7/8	0.162	0.960	3/4	B
52	6.43	-	-	-	-	-	2.1/2	1.3/8	0.162	0.561	3/4	B	2.1/2	1.7/8	0.162	0.960	3/4	B
54	6.66	2.1/4	1	0.168	5/8	B	-	-	-	-	-	-	-	-	-	-	-	-
60	7.38	2.1/4	1	0.168	3/4	B	2.1/2	1.3/8	0.162	0.561	3/4	B	2.1/2	1.7/8	0.162	0.960	3/4	B
68	8.34	-	-	-	-	-	3.1/2	1.1/2	0.162	0.561	3/4	B	3.1/2	1.7/8	0.162	0.960	3/4	B
70	8.58	2.1/4	1	0.168	3/4	B	-	-	-	-	-	-	-	-	-	-	-	-
72	8.81	2.1/4	1	0.168	3/4	B	3.1/2	1.1/2	0.162	0.561	3/4	B	3.1/2	1.7/8	0.162	0.960	3/4	B
76	9.29	-	-	-	-	-	3.1/2	1.1/2	0.162	0.561	3/4	B	3.1/2	1.7/8	0.162	0.960	3/4	B
80	9.77	2.1/4	1	0.168	3/4	B	-	-	-	-	-	-	-	-	-	-	-	-
84	10.25	2.1/4	1	0.168	3/4	B	3.1/2	1.1/2	0.162	0.561	3/4	B	3.1/2	1.7/8	0.162	0.960	3/4	B
95	11.56	-	-	-	-	-	3.1/2	1.1/2	0.162	0.561	1	B	3.3/4	2.1/8	0.162	0.960	1	B
96	11.68	2.1/4	1	0.168	3/4	B	3.1/2	1.1/2	0.162	0.561	1	B	3.3/4	2.1/8	0.162	0.960	1	B
102	12.40	-	-	-	-	-	3.1/2	1.1/2	0.162	0.561	1	B	3.3/4	2.1/8	0.162	0.960	1	B
112	13.59	2.1/4	1	0.168	3/4	B	-	-	-	-	-	-	-	-	-	-	-	-

The full range of sprockets are also available with hardened teeth - contact CHALLENGE for further details

* has a recessed groove in the hub for chain clearance

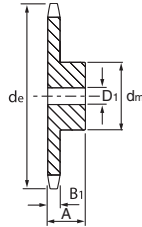
ANSI Pilot Bore Sprockets

ANSI Pilot Bore Sprockets (all C45 steel construction)

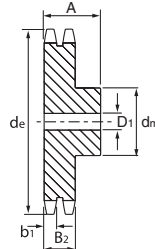
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1/2" pitch

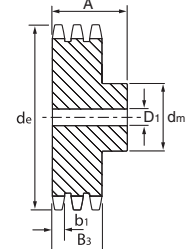
08A



Type B



Type B



Type B

		Simplex					Duplex						Triplex					
Teeth	Outer Dia de	Hub Dia dm	Length thro' Bore A	B1	Stock Bore D1	Type	Hub Dia dm	Length thro' Bore A	b1	B2	Stock Bore D1	Type	Hub Dia dm	Length thro' Bore A	b1	B3	Stock Bore D1	Type
8	1.51	63/64*	7/8	0.284	1/2	B	-	-	-	-	-	-	-	-	-	-	-	-
9	1.67	1.1/16*	7/8	0.284	1/2	B	-	-	-	-	-	-	-	-	-	-	-	-
10	1.84	1.1/4*	7/8	0.284	1/2	B	-	-	-	-	-	-	-	-	-	-	-	-
11	2.00	1.3/8*	7/8	0.284	1/2	B	1.7/16*	1.1/2	0.275	0.841	1/2	B	1.7/16*	2.1/8	0.275	1.407	1/2	B
12	2.17	1.9/16*	7/8	0.284	1/2	B	1.9/16*	1.1/2	0.275	0.841	1/2	B	1.9/16*	2.1/8	0.275	1.407	1/2	B
13	2.33	1.9/16	7/8	0.284	1/2	B	1.1/2	1.1/2	0.275	0.841	1/2	B	1.1/2	2.1/8	0.275	1.407	1/2	B
14	2.49	1.11/16	7/8	0.284	1/2	B	1.11/16	1.1/2	0.275	0.841	1/2	B	1.11/16	2.1/8	0.275	1.407	1/2	B
15	2.65	1.13/16	7/8	0.284	1/2	B	1.13/16	1.1/2	0.275	0.841	1/2	B	1.13/16	2.1/8	0.275	1.407	1/2	B
16	2.81	2	7/8	0.284	5/8	B	2	1.1/2	0.275	0.841	5/8	B	2	2.1/8	0.275	1.407	5/8	B
17	2.98	2.1/8	1	0.284	5/8	B	2.1/8	1.1/2	0.275	0.841	5/8	B	2.1/8	2.1/8	0.275	1.407	5/8	B
18	3.14	2.5/16	1	0.284	5/8	B	2.5/16	1.1/2	0.275	0.841	5/8	B	2.5/16	2.1/8	0.275	1.407	5/8	B
19	3.30	2.1/2	1	0.284	5/8	B	2.1/2	1.1/2	0.275	0.841	5/8	B	2.1/2	2.1/8	0.275	1.407	5/8	B
20	3.46	2.5/8	1	0.284	5/8	B	2.5/8	1.5/8	0.275	0.841	5/8	B	2.5/8	2.1/4	0.275	1.407	5/8	B
21	3.62	2.3/4	1	0.284	5/8	B	2.3/4	1.5/8	0.275	0.841	5/8	B	2.3/4	2.1/4	0.275	1.407	5/8	B
22	3.78	2.7/8	1	0.284	5/8	B	2.7/8	1.5/8	0.275	0.841	5/8	B	2.7/8	2.1/4	0.275	1.407	5/8	B
23	3.94	3	1	0.284	5/8	B	3	1.5/8	0.275	0.841	5/8	B	3	2.1/4	0.275	1.407	5/8	B
24	4.10	3.1/4	1	0.284	5/8	B	3.1/4	1.5/8	0.275	0.841	5/8	B	3.1/4	2.1/4	0.275	1.407	5/8	B
25	4.26	3.1/4	1	0.284	5/8	B	3.1/4	1.5/8	0.275	0.841	5/8	B	3.1/4	2.1/4	0.275	1.407	5/8	B
26	4.42	3.1/4	1	0.284	5/8	B	3.1/4	1.5/8	0.275	0.841	5/8	B	3.1/4	2.1/4	0.275	1.407	5/8	B
27	4.58	3.1/4	1	0.284	5/8	B	-	-	-	-	-	-	-	-	-	-	-	-
28	4.74	3.1/4	1	0.284	5/8	B	-	-	-	-	-	-	-	-	-	-	-	-
29	4.90	3.1/4	1	0.284	5/8	B	-	-	-	-	-	-	-	-	-	-	-	-
30	5.06	3.1/4	1	0.284	5/8	B	3.1/4	1.5/8	0.275	0.841	7/8	B	3.1/4	2.1/4	0.275	1.407	7/8	B
31	5.22	3.1/4	1	0.284	5/8	B	-	-	-	-	-	-	-	-	-	-	-	-
32	5.38	3.1/4	1	0.284	5/8	B	-	-	-	-	-	-	-	-	-	-	-	-
33	5.54	3.1/4	1	0.284	5/8	B	-	-	-	-	-	-	-	-	-	-	-	-
34	5.70	3.1/4	1	0.284	5/8	B	-	-	-	-	-	-	-	-	-	-	-	-
35	5.86	3.1/4	1	0.284	5/8	B	3.1/4	1.5/8	0.275	0.841	7/8	B	3.1/4	2.1/4	0.275	1.407	7/8	B
36	6.02	3.1/4	1	0.284	5/8	B	3.3/4	1.5/8	0.275	0.841	15/16	B	3.3/4	2.3/8	0.275	1.407	15/16	B
37	6.18	3.1/4	1	0.284	5/8	B	-	-	-	-	-	-	-	-	-	-	-	-
38	6.33	3.1/4	1	0.284	5/8	B	-	-	-	-	-	-	-	-	-	-	-	-
39	6.49	3.1/4	1	0.284	5/8	B	-	-	-	-	-	-	-	-	-	-	-	-
40	6.65	3.1/2	1.1/8	0.284	3/4	B	3.3/4	1.3/4	0.275	0.841	15/16	B	-	-	-	-	-	-
41	6.81	3.1/2	1.1/8	0.284	3/4	B	-	-	-	-	-	-	-	-	-	-	-	-
42	6.97	3.1/2	1.1/8	0.284	3/4	B	3.3/4	1.3/4	0.275	0.841	15/16	B	3.3/4	2.3/8	0.275	1.407	15/16	B
43	7.13	3.1/2	1.1/8	0.284	3/4	B	-	-	-	-	-	-	-	-	-	-	-	-
44	7.29	3.1/2	1.1/8	0.284	3/4	B	-	-	-	-	-	-	-	-	-	-	-	-
45	7.45	3.1/2	1.1/8	0.284	3/4	B	3.3/4	1.3/4	0.275	0.841	15/16	B	-	-	-	-	-	-
46	7.61	3.1/2	1.1/8	0.284	3/4	B	-	-	-	-	-	-	-	-	-	-	-	-
47	7.77	3.1/2	1.1/8	0.284	3/4	B	-	-	-	-	-	-	-	-	-	-	-	-
48	7.93	3.1/2	1.1/8	0.284	3/4	B	3.3/4	1.3/4	0.275	0.841	15/16	B	3.3/4	2.3/8	0.275	1.407	15/16	B
49	8.09	3.1/2	1.1/8	0.284	3/4	B	-	-	-	-	-	-	-	-	-	-	-	-
50	8.25	3.1/2	1.1/8	0.284	3/4	B	-	-	-	-	-	-	-	-	-	-	-	-
51	8.41	3.1/2	1.1/8	0.284	3/4	B	-	-	-	-	-	-	-	-	-	-	-	-
52	8.57	3.1/2	1.1/8	0.284	3/4	B	3.3/4	1.3/4	0.275	0.841	15/16	B	3.3/4	2.3/8	0.275	1.407	15/16	B
53	8.73	3.1/2	1.1/8	0.284	3/4	B	-	-	-	-	-	-	-	-	-	-	-	-
54	8.89	3.1/2	1.1/8	0.284	3/4	B	3.3/4	1.3/4	0.275	0.841	15/16	B	-	-	-	-	-	-
55	9.04	3.1/2	1.1/8	0.284	3/4	B	-	-	-	-	-	-	-	-	-	-	-	-
56	9.20	3.1/2	1.1/8	0.284	3/4	B	-	-	-	-	-	-	-	-	-	-	-	-
57	9.36	3.1/2	1.1/8	0.284	3/4	B	-	-	-	-	-	-	-	-	-	-	-	-
58	9.52	3.1/2	1.1/8	0.284	3/4	B	-	-	-	-	-	-	-	-	-	-	-	-
59	9.68	3.1/2	1.1/8	0.284	3/4	B	-	-	-	-	-	-	-	-	-	-	-	-
60	9.84	3.1/2	1.1/8	0.284	3/4	B	3.3/4	1.3/4	0.275	0.841	15/16	B	3.3/4	2.3/8	0.275	1.407	15/16	B
68	11.12	-	-	0.284	-	-	4.1/4	2.1/8	0.275	0.841	1.3/16	B	4	2.5/8	0.275	1.407	1.3/16	B
70	11.43	4	1.1/4	0.284	3/4	B	-	-	-	-	-	-	-	-	-	-	-	-
72	11.75	4	1.1/4	0.284	3/4	B	4.1/4	2.1/8	0.275	0.841	1.3/16	B	4	2.5/8	0.275	1.407	1.3/16	B
76	12.39	-	-	-	-	-	4.1/4	2.1/8	0.275	0.841	1.3/16	B	4	2.5/8	0.275	1.407	1.3/16	B
80	13.03	4	1.1/4	0.284	3/4	B	-	-	-	-	-	-	-	-	-	-	-	-
84	13.66	4	1.1/4	0.284	3/4	B	4.1/4	2.1/8	0.275	0.841	1.3/16	B	4.1/4	2.3/4	0.275	1.407	1.3/16	B
95	15.41	-	-	-	-	-	4.1/4	2.1/8	0.275	0.841	1.3/16	B	4.1/4	2.3/4	0.275	1.407	1.3/16	B
96	15.57	4	1.1/4	0.284	1	B	4.1/4	2.1/8	0.275	0.841	1.3/16	B	-	-	-	-	-	-
102	16.53	-	-	-	-	-	4.1/4	2.1/8	0.275	0.841	1.3/16	B	4.1/4	2.3/4	0.275	1.407	1.3/16	B
112	18.12	4	1.1/4	0.284	1	B	4.1/4	2.1/8	0.275	0.841	1.3/16	B	-	-	-	-	-	-

The full range of sprockets are also available with hardened teeth - contact CHALLENGE for further details

* has a recessed groove in the hub for chain clearance

Every effort has been taken to ensure that the data listed in this catalogue is correct. Challenge accepts no liability for any inaccuracies or damage caused.

All dimensions in inches unless otherwise stated.

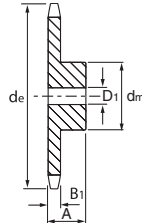
ANSI Pilot Bore Sprockets

ANSI Pilot Bore Sprockets (all C45 steel construction)

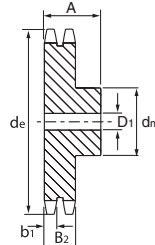
50

5/8" pitch

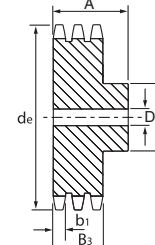
10A



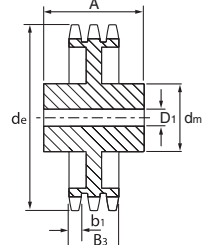
Type B



Type B



Type B



Type C

		Simplex					Duplex						Triplex					
Teeth	Outer Dia de	Hub Dia dm	Length thro' Bore A	B1	Stock Bore D1	Type	Hub Dia dm	Length thro' Bore A	b1	B2	Stock Bore D1	Type	Hub Dia dm	Length thro' Bore A	b1	B3	Stock Bore D1	Type
8	1.88	1.1/8*	1	0.343	5/8	B	-	-	-	-	-	-	-	-	-	-	-	-
9	2.09	1.3/8*	1	0.343	5/8	B	-	-	-	-	-	-	-	-	-	-	-	-
10	2.30	1.9/16*	1	0.343	5/8	B	-	-	-	-	-	-	-	-	-	-	-	-
11	2.50	1.3/4*	1	0.343	5/8	B	1.15/32	1.3/4	0.332	1.045	5/8	B	1.15/32	2.1/2	0.332	1.758	5/8	B
12	2.71	1.63/64*	1	0.343	5/8	B	1.11/16	1.3/4	0.332	1.045	5/8	B	1.11/16	2.1/2	0.332	1.758	5/8	B
13	2.91	1.7/8	1	0.343	5/8	B	1.7/8	1.3/4	0.332	1.045	5/8	B	1.7/8	2.1/2	0.332	1.758	5/8	B
14	3.11	2.1/8	1	0.343	5/8	B	2.1/16	1.3/4	0.332	1.045	5/8	B	2.1/16	2.1/2	0.332	1.758	5/8	B
15	3.32	2.3/8	1	0.343	5/8	B	2.5/16	1.3/4	0.332	1.045	3/4	B	2.5/16	2.1/2	0.332	1.758	3/4	B
16	3.52	2.1/2	1	0.343	5/8	B	2.1/2	1.3/4	0.332	1.045	3/4	B	2.1/2	2.1/2	0.332	1.758	3/4	B
17	3.72	2.11/16	1	0.343	5/8	B	2.11/16	1.3/4	0.332	1.045	3/4	B	2.11/16	2.1/2	0.332	1.758	3/4	B
18	3.92	2.7/8	1	0.343	5/8	B	2.15/16	1.3/4	0.332	1.045	3/4	B	2.15/16	2.1/2	0.332	1.758	3/4	B
19	4.12	3	1	0.343	5/8	B	3.1/8	1.3/4	0.332	1.045	1	B	3.1/8	2.1/2	0.332	1.758	1	B
20	4.32	3	1	0.343	3/4	B	3.1/4	1.3/4	0.332	1.045	1	B	3.1/4	2.5/8	0.332	1.758	1	B
21	4.52	3	1	0.343	3/4	B	3.1/2	1.3/4	0.332	1.045	1	B	3.1/2	2.5/8	0.332	1.758	1	B
22	4.72	3	1	0.343	3/4	B	3.9/16	1.7/8	0.332	1.045	1	B	3.9/16	2.5/8	0.332	1.758	1	B
23	4.92	3	1	0.343	3/4	B	3.5/8	1.7/8	0.332	1.045	1	B	3.5/8	2.5/8	0.332	1.758	1	B
24	5.12	3	1.1/4	0.343	3/4	B	3.5/8	1.7/8	0.332	1.045	1	B	3.5/8	2.5/8	0.332	1.758	1	B
25	5.32	3	1.1/4	0.343	3/4	B	3.5/8	1.7/8	0.332	1.045	1	B	3.5/8	2.5/8	0.332	1.758	1	B
26	5.52	3	1.1/4	0.343	3/4	B	3.3/4	1.7/8	0.332	1.045	1	B	3.3/4	2.5/8	0.332	1.758	1	B
27	5.72	3	1.1/4	0.343	3/4	B	-	-	-	-	-	-	-	-	-	-	-	-
28	5.92	3	1.1/4	0.343	3/4	B	-	-	-	-	-	-	-	-	-	-	-	-
29	6.12	3	1.1/4	0.343	3/4	B	-	-	-	-	-	-	-	-	-	-	-	-
30	6.32	3.1/4	1.1/4	0.343	3/4	B	3.3/4	1.7/8	0.332	1.045	1	B	3.3/4	2.5/8	0.332	1.758	1	B
31	6.52	3.1/4	1.1/4	0.343	3/4	B	-	-	-	-	-	-	-	-	-	-	-	-
32	6.72	3.1/4	1.1/4	0.343	3/4	B	3.3/4	1.7/8	0.332	1.045	1	B	-	-	-	-	-	-
33	6.92	3.1/4	1.1/4	0.343	3/4	B	-	-	-	-	-	-	-	-	-	-	-	-
34	7.12	3.1/4	1.1/4	0.343	3/4	B	-	-	-	-	-	-	-	-	-	-	-	-
35	7.32	3.1/4	1.1/4	0.343	3/4	B	3.3/4	1.7/8	0.332	1.045	1	B	3.3/4	2.5/8	0.332	1.758	1	B
36	7.52	3.1/4	1.1/4	0.343	3/4	B	4	2.1/8	0.332	1.045	1.3/16	B	4	2.3/4	0.332	1.758	1.3/16	B
37	7.72	3.1/4	1.1/4	0.343	3/4	B	-	-	-	-	-	-	-	-	-	-	-	-
38	7.92	3.1/4	1.1/4	0.343	3/4	B	-	-	-	-	-	-	-	-	-	-	-	-
39	8.12	3.1/4	1.1/4	0.343	3/4	B	-	-	-	-	-	-	-	-	-	-	-	-
40	8.32	3.1/4	1.1/4	0.343	3/4	B	4	2.1/8	0.332	1.045	1.3/16	B	-	-	-	-	-	-
41	8.52	3.1/4	1.1/4	0.343	3/4	B	-	-	-	-	-	-	-	-	-	-	-	-
42	8.72	3.1/4	1.1/4	0.343	3/4	B	4	2.1/8	0.332	1.045	1.3/16	B	4	2.3/4	0.332	1.758	1.3/16	B
43	8.91	3.1/4	1.1/4	0.343	3/4	B	-	-	-	-	-	-	-	-	-	-	-	-
44	9.11	3.1/4	1.1/4	0.343	3/4	B	-	-	-	-	-	-	-	-	-	-	-	-
45	9.31	3.3/4	1.1/4	0.343	3/4	B	4	2.1/8	0.332	1.045	1.3/16	B	-	-	-	-	-	-
46	9.51	3.3/4	1.1/4	0.343	1	B	-	-	-	-	-	-	-	-	-	-	-	-
47	9.71	3.3/4	1.1/4	0.343	1	B	-	-	-	-	-	-	-	-	-	-	-	-
48	9.91	3.3/4	1.1/4	0.343	1	B	4.1/4	2.3/8	0.332	1.045	1.3/16	B	4	3.1/8	0.332	1.758	1.3/16	B
49	10.11	3.3/4	1.1/4	0.343	1	B	-	-	-	-	-	-	-	-	-	-	-	-
50	10.31	3.3/4	1.1/4	0.343	1	B	-	-	-	-	-	-	-	-	-	-	-	-
51	10.51	3.3/4	1.1/4	0.343	1	B	-	-	-	-	-	-	-	-	-	-	-	-
52	10.71	3.3/4	1.1/4	0.343	1	B	4.1/4	2.3/8	0.332	1.045	1.3/16	B	4	3.1/8	0.332	1.758	1.3/16	B
53	10.91	3.3/4	1.1/4	0.343	1	B	-	-	-	-	-	-	-	-	-	-	-	-
54	11.11	3.3/4	1.1/4	0.343	1	B	4.1/4	2.3/8	0.332	1.045	1.3/16	B	-	-	-	-	-	-
55	11.31	3.3/4	1.1/4	0.343	1	B	-	-	-	-	-	-	-	-	-	-	-	-
56	11.50	3.3/4	1.1/4	0.343	1	B	-	-	-	-	-	-	-	-	-	-	-	-
57	11.70	3.3/4	1.1/4	0.343	1	B	-	-	-	-	-	-	-	-	-	-	-	-
58	11.90	3.3/4	1.1/4	0.343	1	B	-	-	-	-	-	-	-	-	-	-	-	-
59	12.10	3.3/4	1.1/4	0.343	1	B	-	-	-	-	-	-	-	-	-	-	-	-
60	12.30	3.3/4	1.1/4	0.343	1	B	4.1/2	2.3/8	0.332	1.045	1.5/16	B	4.1/2	3.1/8	0.332	1.758	1.5/16	B
68	13.89	-	-	-	-	-	4.1/2	2.3/8	0.332	1.045	1.5/16	B	4.1/2	3.1/8	0.332	1.758	1.5/16	B
70	14.29	3.3/4	1.3/4	0.343	1	B	-	-	-	-	-	-	-	-	-	-	-	-
72	14.69	3.3/4	1.3/4	0.343	1	B	4.1/2	2.3/8	0.332	1.045	1.5/16	B	4.3/4	3.1/2	0.332	1.758	1.5/16	C
76	15.49	3.3/4	1.3/4	0.343	1	B	4.1/2	2.3/8	0.332	1.045	1.5/16	B	4.3/4	3.1/2	0.332	1.758	1.5/16	C
80	16.28	4.1/4	1.3/4	0.343	1	B	-	-	-	-	-	-	-	-	-	-	-	-
84	17.08	4.1/4	1.3/4	0.343	1	B	4.1/2	2.3/8	0.332	1.045	1.5/16	B	4.3/4	3.1/2	0.332	1.758	1.5/16	C
95	19.27	4.1/4	1.3/4	0.343	1	B	4.1/2	2.3/8	0.332	1.045	1.5/16	B	4.3/4	3.3/4	0.332	1.758	1.5/16	C
96	19.47	4.1/4	1.3/4	0.343	1	B	4.1/2	2.3/8	0.332	1.045	1.5/16	B	-	-	-	-	-	-
102	20.66	-	-	-	-	-	4.1/2	2.3/8	0.332	1.045	1.5/16	B	4.3/4	3.3/4	0.332	1.758	1.5/16	C
112	22.65	4.1/4	1.3/4	0.343	1	B	5.1/4	2.3/8	0.332	1.045	1.5/16	B	-	-	-	-	-	-

The full range of sprockets are also available with hardened teeth - contact CHALLENGE for further details

* has a recessed groove in the hub for chain clearance

All dimensions in inches unless otherwise stated.

Every effort has been taken to ensure that the data listed in this catalogue is correct. Challenge accepts no liability for any inaccuracies or damage caused.

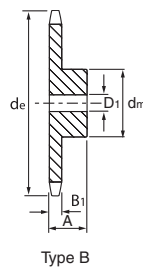
ANSI Pilot Bore Sprockets

ANSI Pilot Bore Sprockets (all C45 steel construction)

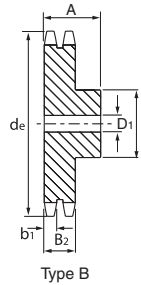
60

3/4" pitch

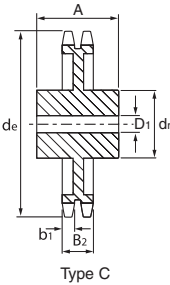
12A



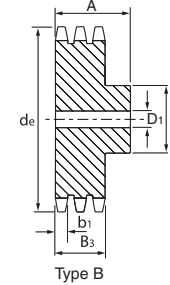
Type B



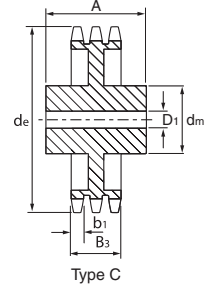
Type B



Type C



Type B



Type C

		Simplex					Duplex						Triplex					
Teeth	Outer Dia de	Hub Dia dm	Length thro' Bore A	B1	Stock Bore D1	Type	Hub Dia dm	Length thro' Bore A	b1	B2	Stock Bore D1	Type	Hub Dia dm	Length thro' Bore A	b1	B3	Stock Bore D1	Type
8	2.26	1.15/32*	1.1/4	0.459	5/8	B	-	-	-	-	-	-	-	-	-	-	-	-
9	2.51	1.9/16*	1.1/4	0.459	3/4	B	-	-	-	-	-	-	-	-	-	-	-	-
10	2.76	1.15/16*	1.1/4	0.459	3/4	B	-	-	-	-	-	-	-	-	-	-	-	-
11	3.00	2.1/16*	1.1/4	0.459	3/4	B	1.13/16	2.1/8	0.444	1.341	1	B	1.13/16	3	0.444	2.238	1	B
12	3.25	2.3/8*	1.1/4	0.459	3/4	B	2.1/8	2.1/8	0.444	1.341	1	B	2.1/8	3	0.444	2.238	1	B
13	3.49	2.11/32	1.1/4	0.459	3/4	B	2.1/4	2.1/8	0.444	1.341	1	B	2.1/4	3	0.444	2.238	1	B
14	3.74	2.9/16	1.1/4	0.459	3/4	B	2.1/2	2.1/8	0.444	1.341	1	B	2.1/2	3	0.444	2.238	1	B
15	3.98	2.7/8	1.1/4	0.459	3/4	B	2.13/16	2.1/8	0.444	1.341	1	B	2.13/16	3	0.444	2.238	1	B
16	4.22	3.1/16	1.1/4	0.459	3/4	B	3	2.1/8	0.444	1.341	1	B	3	3	0.444	2.238	1	B
17	4.46	3.1/4	1.1/4	0.459	3/4	B	3.1/4	2.1/8	0.444	1.341	1	B	3.1/4	3	0.444	2.238	1	B
18	4.70	3.1/2	1.1/4	0.459	3/4	B	3.1/2	2.1/8	0.444	1.341	1	B	3.1/2	3	0.444	2.238	1	B
19	4.95	3.1/2	1.1/4	0.459	3/4	B	3.11/16	2.1/8	0.444	1.341	1	B	3.11/16	3	0.444	2.238	1	B
20	5.19	3.7/8	1.1/4	0.459	3/4	B	3.3/4	2.1/8	0.444	1.341	1	B	3.3/4	3	0.444	2.238	1	B
21	5.43	4	1.1/4	0.459	3/4	B	4.1/8	2.1/8	0.444	1.341	1	B	4.1/8	3	0.444	2.238	1	B
22	5.67	4	1.1/4	0.459	3/4	B	4.1/4	2.1/8	0.444	1.341	1	B	4.1/4	3	0.444	2.238	1	B
23	5.91	4	1.1/4	0.459	3/4	B	4.1/4	2.1/8	0.444	1.341	1	B	4.1/4	3	0.444	2.238	1	B
24	6.15	4	1.1/4	0.459	3/4	B	4.1/4	2.1/8	0.444	1.341	1	B	4.1/4	3	0.444	2.238	1	B
25	6.39	4	1.1/4	0.459	3/4	B	4.1/4	2.1/8	0.444	1.341	1	B	4.1/4	3	0.444	2.238	1	B
26	6.63	4	1.1/4	0.459	3/4	-	4.1/4	2.1/8	0.444	1.341	1	B	4.1/4	3	0.444	2.238	1	B
27	6.87	4	1.1/4	0.459	3/4	B	-	-	-	-	-	-	-	-	-	-	-	-
28	7.11	4	1.1/4	0.459	3/4	B	-	-	-	-	-	-	-	-	-	-	-	-
29	7.35	4	1.1/4	0.459	3/4	B	-	-	-	-	-	-	-	-	-	-	-	-
30	7.59	4	1.1/4	0.459	3/4	B	4.1/4	2.1/8	0.444	1.341	1	B	4.1/4	3	0.444	2.238	1	B
31	7.83	4	1.1/4	0.459	3/4	B	-	-	-	-	-	-	-	-	-	-	-	-
32	8.07	4	1.1/4	0.459	3/4	B	4.1/2	2.3/8	0.444	1.341	1.1/4	B	-	-	-	-	-	-
33	8.30	4	1.1/4	0.459	1	B	-	-	-	-	-	-	-	-	-	-	-	-
34	8.54	4	1.1/4	0.459	1	B	-	-	-	-	-	-	-	-	-	-	-	-
35	8.78	4	1.1/4	0.459	1	B	4.1/2	2.3/8	0.444	1.341	1.1/4	B	4.1/2	3.1/4	0.444	2.238	1.1/4	B
36	9.02	4	1.1/4	0.459	1	B	4.1/2	2.3/8	0.444	1.341	1.1/4	B	4.1/2	3.1/4	0.444	2.238	1.1/4	B
37	9.26	4	1.1/4	0.459	1	B	-	-	-	-	-	-	-	-	-	-	-	-
38	9.50	4.1/4	1.1/4	0.459	1	B	-	-	-	-	-	-	-	-	-	-	-	-
39	9.74	4.1/4	1.1/4	0.459	1	B	-	-	-	-	-	-	-	-	-	-	-	-
40	9.98	4.1/4	1.1/4	0.459	1	B	4.3/4	2.3/4	0.444	1.341	1.1/4	B	-	-	-	-	-	-
41	10.22	4.1/4	1.1/4	0.459	1	B	-	-	-	-	-	-	-	-	-	-	-	-
42	10.46	4.1/4	1.1/4	0.459	1	B	4.3/4	2.3/4	0.444	1.341	1.1/4	B	4.3/4	3.5/8	0.444	2.238	1.1/4	B
43	10.70	4.1/4	1.1/4	0.459	1	B	-	-	-	-	-	-	-	-	-	-	-	-
44	10.94	4.1/4	1.1/4	0.459	15/16	B	-	-	-	-	-	-	-	-	-	-	-	-
45	11.18	4.1/4	1.1/4	0.459	15/16	B	4.3/4	2.3/4	0.444	1.341	1.1/4	B	4.3/4	3.5/8	0.444	2.238	1.1/4	B
46	11.42	4.1/4	1.1/4	0.459	15/16	B	-	-	-	-	-	-	-	-	-	-	-	-
47	11.65	4.1/4	1.1/4	0.459	15/16	B	-	-	-	-	-	-	-	-	-	-	-	-
48	11.89	4.1/4	1.1/4	0.459	15/16	B	-	-	-	-	-	-	-	-	-	-	-	-
49	12.13	4.1/4	1.1/4	0.459	15/16	B	-	-	-	-	-	-	-	-	-	-	-	-
50	12.37	4.1/4	1.1/4	0.459	15/16	B	-	-	-	-	-	-	-	-	-	-	-	-
51	12.61	4.1/4	1.1/4	0.459	15/16	B	-	-	-	-	-	-	-	-	-	-	-	-
52	12.85	4.1/4	1.1/4	0.459	15/16	B	4.3/4	2.3/4	0.444	1.341	1.1/4	B	4.3/4	3.1/2	0.444	2.238	1.1/4	C
53	13.09	4.1/4	1.1/4	0.459	15/16	B	-	-	-	-	-	-	-	-	-	-	-	-
54	13.33	4.1/4	1.3/4	0.459	15/16	B	-	-	-	-	-	-	-	-	-	-	-	-
55	13.57	4.1/4	1.3/4	0.459	1.1/4	B	-	-	-	-	-	-	-	-	-	-	-	-
56	13.81	4.1/4	1.3/4	0.459	1.1/4	B	-	-	-	-	-	-	-	-	-	-	-	-
57	14.04	4.1/4	1.3/4	0.459	1.1/4	B	-	-	-	-	-	-	-	-	-	-	-	-
58	14.28	4.1/4	1.3/4	0.459	1.1/4	B	-	-	-	-	-	-	-	-	-	-	-	-
59	14.52	4.1/4	1.3/4	0.459	1.1/4	B	-	-	-	-	-	-	-	-	-	-	-	-
60	14.76	4.1/4	1.3/4	0.459	1.1/4	B	4.3/4	2.3/4	0.444	1.341	1.1/4	B	4.3/4	3.1/2	0.444	2.238	1.1/4	C
64	15.72	4.1/4	1.3/4	0.459	1.1/4	B	-	-	-	-	-	-	-	-	-	-	-	-
65	15.96	4.1/4	1.3/4	0.459	1.1/4	B	-	-	-	-	-	-	-	-	-	-	-	-
68	16.67	4.1/4	1.3/4	0.459	1.1/4	B	5	3	0.444	1.341	1.1/4	C	5	3.1/2	0.444	2.238	1.1/4	C
70	17.15	4.1/4	1.3/4	0.459	1.1/4	B	-	-	-	-	-	-	-	-	-	-	-	-
72	17.63	4.1/4	2	0.459	1.1/4	B	5	3	0.444	1.341	1.1/4	C	5	3.1/2	0.444	2.238	1.1/4	C
76	18.58	4.1/4	2	0.459	1.1/4	B	5	3	0.444	1.341	1.1/4	C	5.1/2	3.1/2	0.444	2.238	1.1/2	C
80	19.54	4.1/4	2	0.459	1.1/4	B	-	-	-	-	-	-	-	-	-	-	-	-
84	20.49	4.3/4	2	0.459	1.1/4	B	-	-	-	-	-	-	-	-	-	-	-	-
90	21.93	5	2.1/4	0.459	1.1/4	B	-	-	-	-	-	-	-	-	-	-	-	-
95	23.12	-	-	-	-	-	5.1/2	3.1/2	0.444	1.341	1.1/4	C	5.1/2	4	0.444	2.238	1.1/2	C
96	23.36	5.1/2	2.1/4	0.459	1.1/4	B	-	-	-	-	-	-	-	-	-	-	-	-
112	27.18	5.1/2	2.1/4	0.459	1.1/4	B	-	-	-	-	-	-	-	-	-	-	-	-

The full range of sprockets are also available with hardened teeth - contact CHALLENGE for further details

* has a recessed groove in the hub for chain clearance

Every effort has been taken to ensure that the data listed in this catalogue is correct. Challenge accepts no liability for any inaccuracies or damage caused.

All dimensions in inches unless otherwise stated.

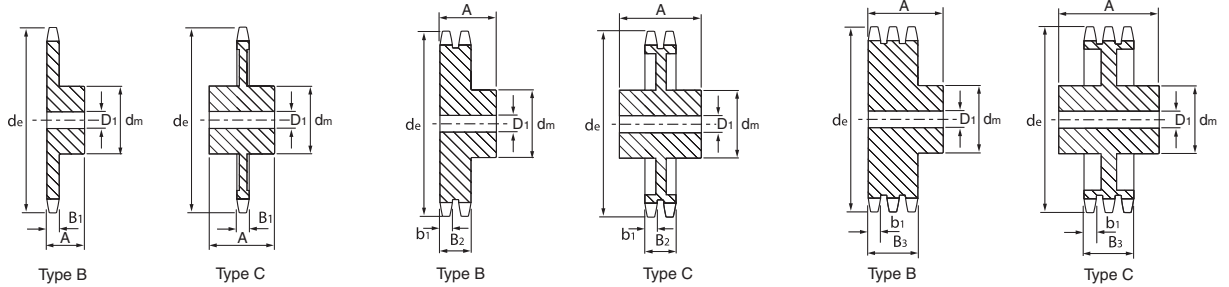
ANSI Pilot Bore Sprockets

ANSI Pilot Bore Sprockets (all C45 steel construction)

80

1" pitch

16A



		Simplex					Duplex						Triplex					
Teeth	Outer Dia de	Hub Dia dm	Length thro' Bore A	B1	Stock Bore D1	Type	Hub Dia dm	Length thro' Bore A	b1	B2	Stock Bore D1	Type	Hub Dia dm	Length thro' Bore A	b1	B3	Stock Bore D1	Type
8	3.01	1.15/16*	1.5/8	0.575	1	B	-	-	-	-	-	-	-	-	-	-	-	-
9	3.35	2.1/4*	1.5/8	0.575	1	B	-	-	-	-	-	-	-	-	-	-	-	-
10	3.68	2.9/16*	1.5/8	0.575	1	B	2.9/16*	2.3/4	0.557	1.710	1	B	-	-	-	-	-	-
11	4.01	2.13/16*	1.5/8	0.575	1	B	2.1/2	2.1/2	0.557	1.710	1	B	2.1/2	3.5/8	0.557	2.863	1	B
12	4.33	3.1/8*	1.5/8	0.575	1	B	2.27/32	2.1/2	0.557	1.710	1	B	2.27/32	3.5/8	0.557	2.863	1	B
13	4.66	3	1.1/2	0.575	1	B	3.5/32	2.1/2	0.557	1.710	1	B	3.5/32	3.5/8	0.557	2.863	1	B
14	4.98	3.1/4	1.1/2	0.575	1	B	3.15/32	2.1/2	0.557	1.710	1	B	3.15/32	3.5/8	0.557	2.863	1	B
15	5.30	3.13/16	1.1/2	0.575	1	B	3.51/64	2.1/2	0.557	1.710	1	B	3.51/64	3.5/8	0.557	2.863	1	B
16	5.63	4	1.1/2	0.575	1	B	4	2.3/4	0.557	1.710	1	B	4	3.7/8	0.557	2.863	1	B
17	5.95	4	1.1/2	0.575	1	B	4.27/64	2.3/4	0.557	1.710	1	B	4.27/64	3.7/8	0.557	2.863	1	B
18	6.27	4.1/4	1.1/2	0.575	1	B	4.47/64	2.3/4	0.557	1.710	1	B	4.47/64	3.7/8	0.557	2.863	1	B
19	6.59	4.1/4	1.1/2	0.575	1	B	5	2.3/4	0.557	1.710	1	B	5	3.7/8	0.557	2.863	1	B
20	6.91	4.1/4	1.1/2	0.575	1	B	5	2.3/4	0.557	1.710	1	B	5	3.7/8	0.557	2.863	1	B
21	7.24	4.1/4	1.3/4	0.575	1	B	5	2.3/4	0.557	1.710	1	B	5	3.7/8	0.557	2.863	1	B
22	7.56	4.1/4	1.3/4	0.575	1	B	5	2.3/4	0.557	1.710	1	B	5	3.7/8	0.557	2.863	1	B
23	7.88	4.1/4	1.3/4	0.575	1	B	5	2.3/4	0.557	1.710	1	B	5	3.7/8	0.557	2.863	1	B
24	8.20	4.1/4	1.3/4	0.575	1	B	5.1/4	2.3/4	0.557	1.710	1	B	5.1/4	3.7/8	0.557	2.863	1	B
25	8.52	4.1/4	1.3/4	0.575	1	B	5.1/4	3	0.557	1.710	1	B	5.1/4	3.7/8	0.557	2.863	1	B
26	8.84	4.3/4	2	0.575	1.1/4	B	5.1/4	3	0.557	1.710	1	B	5.1/4	3.7/8	0.557	2.863	1	B
27	9.16	4.3/4	2	0.575	1.1/4	B	-	-	-	-	-	-	-	-	-	-	-	-
28	9.48	4.3/4	2	0.575	1.1/4	B	-	-	-	-	-	-	-	-	-	-	-	-
29	9.80	4.3/4	2	0.575	1.3/16	B	-	-	-	-	-	-	-	-	-	-	-	-
30	10.11	4.3/4	2	0.575	1.3/16	B	5.3/4	3	0.557	1.710	1.1/4	B	5.3/4	4.1/4	0.557	2.863	1.1/4	B
31	10.43	4.3/4	2	0.575	1.3/16	B	-	-	-	-	-	-	-	-	-	-	-	-
32	10.75	4.3/4	2	0.575	1.3/16	B	5.3/4	3	0.557	1.710	1.1/4	B	-	-	-	-	-	-
33	11.07	4.3/4	2	0.575	1.3/16	B	-	-	-	-	-	-	-	-	-	-	-	-
34	11.39	4.3/4	2	0.575	1.3/16	B	-	-	-	-	-	-	-	-	-	-	-	-
35	11.71	4.3/4	2	0.575	1.3/16	B	5.3/4	3	0.557	1.710	1.1/4	B	5.3/4	4.1/4	0.557	2.863	1.1/4	B
36	12.03	4.3/4	2	0.575	1.3/16	B	5.3/4	3.1/8	0.557	1.710	1.1/4	B	5.3/4	4.1/4	0.557	2.863	1.1/4	B
37	12.35	4.3/4	2	0.575	1.3/16	B	-	-	-	-	-	-	-	-	-	-	-	-
38	12.67	4.3/4	2	0.575	1.3/16	B	-	-	-	-	-	-	-	-	-	-	-	-
39	12.99	4.3/4	2	0.575	1.3/16	B	-	-	-	-	-	-	-	-	-	-	-	-
40	13.31	4.3/4	2	0.575	1.3/16	B	-	-	-	-	-	-	-	-	-	-	-	-
41	13.63	4.3/4	2	0.575	1.1/4	B	-	-	-	-	-	-	-	-	-	-	-	-
42	13.94	4.3/4	2	0.575	1.1/4	B	5.3/4	3.1/8	0.557	1.710	1.1/4	B	6	4.1/2	0.557	2.863	1.1/4	C
43	14.26	4.3/4	2	0.575	1.1/4	B	-	-	-	-	-	-	-	-	-	-	-	-
44	14.58	4.3/4	2	0.575	1.1/4	B	-	-	-	-	-	-	-	-	-	-	-	-
45	14.90	4.3/4	2	0.575	1.1/4	B	5.3/4	3.1/8	0.557	1.710	1.1/4	B	6	4.1/2	0.557	2.863	1.1/4	C
46	15.22	4.3/4	2	0.575	1.1/4	B	-	-	-	-	-	-	-	-	-	-	-	-
47	15.54	4.3/4	2	0.575	1.1/4	B	-	-	-	-	-	-	-	-	-	-	-	-
48	15.86	4.3/4	2	0.575	1.1/4	B	-	-	-	-	-	-	-	-	-	-	-	-
49	16.18	4.3/4	2	0.575	1.1/4	B	-	-	-	-	-	-	-	-	-	-	-	-
50	16.50	4.3/4	2	0.575	1.1/4	B	-	-	-	-	-	-	-	-	-	-	-	-
51	16.81	4.3/4	2	0.575	1.1/4	B	-	-	-	-	-	-	-	-	-	-	-	-
52	17.13	4.3/4	2	0.575	1.1/4	B	5.3/4	3.3/4	0.557	1.710	1.1/2	C	6	4.1/2	0.557	2.863	1.1/2	C
53	17.45	4.3/4	2	0.575	1.1/4	B	-	-	-	-	-	-	-	-	-	-	-	-
54	17.77	5.1/4	2	0.575	1.1/4	B	-	-	-	-	-	-	-	-	-	-	-	-
55	18.09	5.1/4	2	0.575	1.1/4	B	-	-	-	-	-	-	-	-	-	-	-	-
56	18.41	5.1/4	2	0.575	1.1/4	B	-	-	-	-	-	-	-	-	-	-	-	-
57	18.73	5.1/4	2	0.575	1.1/4	B	-	-	-	-	-	-	-	-	-	-	-	-
58	19.04	5.1/4	2	0.575	1.1/4	B	-	-	-	-	-	-	-	-	-	-	-	-
59	19.36	5.1/4	2	0.575	1.1/4	B	-	-	-	-	-	-	-	-	-	-	-	-
60	19.68	5.1/4	2	0.575	1.1/4	B	5.3/4	3.3/4	0.557	1.710	1.1/2	C	6.1/4	4.3/4	0.557	2.863	1.1/2	C
65	21.27	5.1/4	2	0.575	1.1/4	B	-	-	-	-	-	-	-	-	-	-	-	-
68	22.23	-	-	-	-	-	6	4	0.557	1.710	1.1/2	C	6.1/4	4.3/4	0.557	2.863	1.1/2	C
70	22.87	6.1/4	3.1/2	0.575	1.1/2	C	-	-	-	-	-	-	-	-	-	-	-	-
72	23.50	6.1/4	3.1/2	0.575	1.1/2	C	-	-	-	-	-	-	-	-	-	-	-	-
76	24.78	6.1/4	3.1/2	0.575	1.1/2	C	6	4	0.557	1.710	1.1/2	C	6.1/4	4.3/4	0.557	2.863	1.1/2	C
80	26.05	6.1/4	3.1/2	0.575	1.1/2	C	-	-	-	-	-	-	-	-	-	-	-	-
84	27.33	6.1/4	3.1/2	0.575	1.1/2	C	-	-	-	-	-	-	-	-	-	-	-	-
90	29.24	6.1/4	3.1/2	0.575	1.1/2	C	-	-	-	-	-	-	-	-	-	-	-	-
95	30.83	-	-	-	-	-	6	4.1/4	0.557	1.710	1.1/2	C	6.3/4	5	0.557	2.863	1.1/2	C
96	31.15	6.1/4	3.1/2	0.575	1.1/2	C	-	-	-	-	-	-	-	-	-	-	-	-
112	36.24	6.1/4	3.1/2	0.575	1.1/2	C	-	-	-	-	-	-	-	-	-	-	-	-

The full range of sprockets are also available with hardened teeth - contact CHALLENGE for further details

* has a recessed groove in the hub for chain clearance

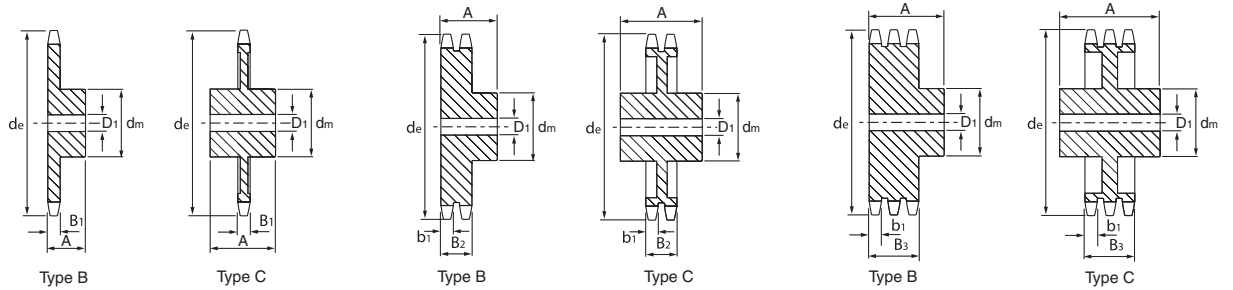
All dimensions in inches unless otherwise stated.

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ANSI Pilot Bore Sprockets

ANSI Pilot Bore Sprockets (all C45 steel construction)

100 1.1/4" pitch **20A**



		Simplex					Duplex						Triplex					
Teeth	Outer Dia de	Hub Dia dm	Length thro' Bore A	B1	Stock Bore D1	Type	Hub Dia dm	Length thro' Bore A	b1	B2	Stock Bore D1	Type	Hub Dia dm	Length thro' Bore A	b1	B3	Stock Bore D1	Type
8	3.77	2.7/16*	1.7/8	0.692	1	B	-	-	-	-	-	-	-	-	-	-	-	-
9	4.18	2.13/16*	1.7/8	0.692	1	B	2.3/8	2.7/8	0.669	2.077	1	B	-	-	-	-	-	-
10	4.60	3.1/4*	1.7/8	0.692	1	B	2.3/4	2.7/8	0.669	2.077	1	B	-	-	-	-	-	-
11	5.01	3.9/16*	1.7/8	0.692	1	B	3.1/8	2.7/8	0.669	2.077	1	B	3.1/8	4.1/4	0.669	3.485	1	B
12	5.42	4*	1.7/8	0.692	1	B	3.3/8	2.7/8	0.669	2.077	1.1/8	B	3.3/8	4.1/4	0.669	3.485	1.1/8	B
13	5.82	3.7/8	1.5/8	0.692	1	B	3.13/16	2.7/8	0.669	2.077	1.1/8	B	3.13/16	4.1/4	0.669	3.485	1.1/8	B
14	6.23	4.3/16	1.5/8	0.692	1.1/4	B	4.3/16	2.7/8	0.669	2.077	1.1/8	B	4.3/16	4.1/4	0.669	3.485	1.1/8	B
15	6.63	4.1/2	1.3/4	0.692	1.1/4	B	4.5/8	3.1/8	0.669	2.077	1.1/4	B	4.5/8	4.1/2	0.669	3.485	1.1/4	B
16	7.03	4.1/2	1.3/4	0.692	1.5/16	B	5	3.1/8	0.669	2.077	1.1/4	B	5	4.1/2	0.669	3.485	1.1/4	B
17	7.44	4.1/2	1.3/4	0.692	1.5/16	B	5.1/4	3.1/8	0.669	2.077	1.1/4	B	5.1/4	4.1/2	0.669	3.485	1.1/4	B
18	7.84	4.1/2	1.3/4	0.692	1.5/16	B	5.1/4	3.1/8	0.669	2.077	1.1/4	B	5.1/4	4.3/4	0.669	3.485	1.1/4	B
19	8.24	4.1/2	2	0.692	1.5/16	B	5.1/2	3.3/8	0.669	2.077	1.1/4	B	5.1/2	4.3/4	0.669	3.485	1.1/4	B
20	8.64	4.1/2	2	0.692	1.5/16	B	5.1/2	3.3/8	0.669	2.077	1.1/4	B	5.1/2	4.3/4	0.669	3.485	1.1/4	B
21	9.04	4.1/2	2	0.692	1.5/16	B	5.1/2	3.3/8	0.669	2.077	1.1/4	B	5.1/2	4.3/4	0.669	3.485	1.1/4	B
22	9.44	4.1/2	2	0.692	1.5/16	B	5.1/2	3.3/8	0.669	2.077	1.1/4	B	5.1/2	4.3/4	0.669	3.485	1.1/4	B
23	9.84	4.1/2	2	0.692	1.1/4	B	5.1/2	3.3/8	0.669	2.077	1.1/4	B	5.1/2	4.3/4	0.669	3.485	1.1/4	B
24	10.25	4.1/2	2	0.692	1.1/4	B	5.3/4	3.3/8	0.669	2.077	1.1/4	B	5.3/4	4.3/4	0.669	3.485	1.1/4	B
25	10.65	4.1/2	2	0.692	1.1/4	B	5.3/4	3.3/8	0.669	2.077	1.1/4	B	5.3/4	4.3/4	0.669	3.485	1.1/4	B
26	11.05	5	2	0.692	1.1/4	B	5.3/4	3.3/8	0.669	2.077	1.1/2	B	5.3/4	4.3/4	0.669	3.485	1.1/2	B
27	11.44	5	2	0.692	1.1/4	B	-	-	-	-	-	-	-	-	-	-	-	-
28	11.84	5	2	0.692	1.1/4	B	-	-	-	-	-	-	-	-	-	-	-	-
29	12.24	5	2	0.692	1.1/4	B	-	-	-	-	-	-	-	-	-	-	-	-
30	12.64	5	2	0.692	1.1/4	B	5.3/4	3.3/8	0.669	2.077	1.1/2	B	5.3/4	4.3/4	0.669	3.485	1.1/2	B
32	13.44	5	2	0.692	1.1/4	B	-	-	-	-	-	-	-	-	-	-	-	-
35	14.64	5	2.1/2	0.692	1.1/4	B	6	4.1/4	0.669	2.077	1.1/2	C	6	5	0.669	3.485	1.1/2	C
36	15.04	5	2.1/2	0.692	1.1/4	B	-	-	-	-	-	-	-	-	-	-	-	-
38	15.84	5	2.1/2	0.692	1.1/4	B	-	-	-	-	-	-	-	-	-	-	-	-
39	16.23	5	2.1/2	0.692	1.1/4	B	-	-	-	-	-	-	-	-	-	-	-	-
40	16.63	5	2.1/2	0.692	1.1/4	B	-	-	-	-	-	-	-	-	-	-	-	-
42	17.43	5	2.1/2	0.692	1.1/4	B	-	-	-	-	-	-	-	-	-	-	-	-
45	18.63	5	2.1/2	0.692	1.1/2	B	6	4.1/2	0.669	2.077	1.1/2	C	6	5	0.669	3.485	1.1/2	C
48	19.82	6	2.1/2	0.692	1.1/2	B	-	-	-	-	-	-	-	-	-	-	-	-
54	22.21	6	3.1/4	0.692	1.1/2	C	-	-	-	-	-	-	-	-	-	-	-	-
60	24.60	6	3.1/4	0.692	1.1/2	C	7.1/2	5	0.669	2.077	1.1/2	C	7.1/2	5	0.669	3.485	1.1/2	C
70	28.58	7	3.3/4	0.692	1.1/2	C	7.1/2	5	0.669	2.077	1.1/2	C	7.1/2	5	0.669	3.485	1.1/2	C
72	29.38	7	3.3/4	0.692	1.1/2	C	-	-	-	-	-	-	-	-	-	-	-	-
76	30.97	7	3.3/4	0.692	1.1/2	C	-	-	-	-	-	-	-	-	-	-	-	-
80	32.57	7	3.3/4	0.692	1.1/2	C	7.1/2	5	0.669	2.077	1.1/2	C	7.1/2	5	0.669	3.485	1.1/2	C
84	34.16	7	3.3/4	0.692	1.1/2	C	-	-	-	-	-	-	-	-	-	-	-	-
90	36.55	7	3.3/4	0.692	1.1/2	C	-	-	-	-	-	-	-	-	-	-	-	-
96	38.93	7	4.1/2	0.692	1.1/2	C	-	-	-	-	-	-	-	-	-	-	-	-

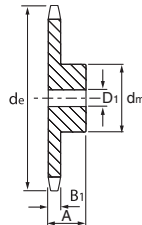
The full range of sprockets are also available with hardened teeth - contact CHALLENGE for further details

* has a recessed groove in the hub for chain clearance

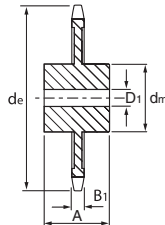
ANSI Pilot Bore Sprockets

ANSI Pilot Bore Sprockets (all C45 steel construction)

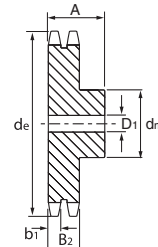
120 1.1/2" pitch **24A**



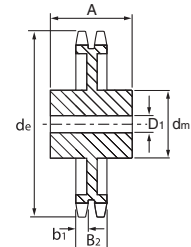
Type B



Type C



Type B



Type C

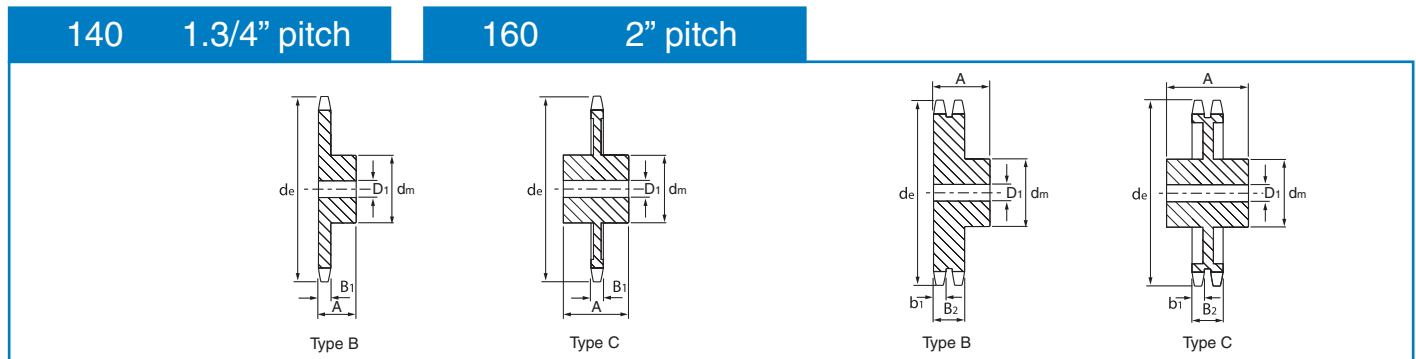
Teeth	Outer Dia de	Simplex					Duplex					
		Hub Dia dm	Length thro' Bore A	B1	Stock Bore D1	Type	Hub Dia dm	Length thro' Bore A	b1	B2	Stock Bore D1	Type
9	5.02	3.3/8*	2.1/4	0.924	1.3/8	B	-	-	-	-	-	-
10	5.52	3.3/4*	2.1/4	0.924	1.3/8	B	-	-	-	-	-	-
11	6.01	3.9/16	2.1/8	0.924	1.3/8	B	3.9/16	3.3/4	0.894	2.683	1.1/2	B
12	6.50	4.1/8	2.1/8	0.924	1.3/8	B	4.1/16	3.3/4	0.894	2.683	1.1/2	B
13	6.99	4.9/16	2.1/4	0.924	1.3/8	B	4.1/2	3.3/4	0.894	2.683	1.1/2	B
14	7.47	4.3/4	2.1/4	0.924	1.3/8	B	5	3.3/4	0.894	2.683	1.1/2	B
15	7.96	4.3/4	2.3/8	0.924	1.1/4	B	5.1/4	3.3/4	0.894	2.683	1.1/2	B
16	8.44	5.1/4	2.3/8	0.924	1.1/4	B	5.1/4	3.3/4	0.894	2.683	1.1/2	B
17	8.92	5.1/4	2.3/8	0.924	1.1/4	B	5.1/4	3.3/4	0.894	2.683	1.1/2	B
18	9.41	5.1/4	2.3/8	0.924	1.1/4	B	5.1/4	3.3/4	0.894	2.683	1.1/2	B
19	9.89	5.1/4	2.3/8	0.924	1.1/4	B	5.1/4	3.3/4	0.894	2.683	1.1/2	B
20	10.37	5.1/4	2.3/8	0.924	1.1/4	B	5.1/2	3.3/4	0.894	2.683	1.1/2	B
21	10.85	5.1/4	2.3/8	0.924	1.1/4	B	5.1/2	3.3/4	0.894	2.683	1.1/2	B
22	11.33	5.1/4	2.3/8	0.924	1.1/4	B	5.3/4	4	0.894	2.683	1.1/2	B
23	11.81	5.1/4	2.3/8	0.924	1.1/4	B	6.1/2	4	0.894	2.683	1.1/2	B
24	12.29	5.1/4	2.3/8	0.924	1.1/4	B	6.1/2	4	0.894	2.683	1.1/2	B
25	12.77	5.1/4	2.3/8	0.924	1.1/4	B	6.1/2	4	0.894	2.683	1.1/2	B
26	13.25	6	2.1/2	0.924	1.1/2	B	6.1/2	4	0.894	2.683	1.1/2	B
28	14.21	6	2.1/2	0.924	1.1/2	B	-	-	-	-	-	-
30	15.17	6	2.1/2	0.924	1.1/2	B	6.1/2	4	0.894	2.683	1.1/2	B
32	16.13	6	2.1/2	0.924	1.1/2	B	-	-	-	-	-	-
35	17.57	6	2.1/2	0.924	1.1/2	B	7.1/2	6	0.894	2.683	1.1/2	C
36	18.05	6	2.1/2	0.924	1.1/2	B	-	-	-	-	-	-
40	19.96	6	3.3/4	0.924	1.1/2	C	-	-	-	-	-	-
42	20.92	6	3.3/4	0.924	1.1/2	C	-	-	-	-	-	-
45	22.35	6	3.3/4	0.924	1.1/2	C	7.1/2	6	0.894	2.683	1.1/2	C
48	23.79	6	4	0.924	1.1/2	C	-	-	-	-	-	-
54	26.65	6	4	0.924	1.1/2	C	-	-	-	-	-	-
60	29.52	7	4	0.924	1.1/2	C	9.1/2	6.1/4	0.894	2.683	1.1/2	C
70	34.30	7.1/2	4.1/2	0.924	1.1/2	C	-	-	-	-	-	-
80	39.08	7.1/2	4.1/2	0.924	1.1/2	C	-	-	-	-	-	-

The full range of sprockets are also available with hardened teeth - contact CHALLENGE for further details

* has a recessed groove in the hub for chain clearance

ANSI Pilot Bore Sprockets

ANSI Pilot Bore Sprockets (all C45 steel construction)



140 1.3/4" pitch **28A**

Teeth	Outer Dia de	Simplex					Duplex					Type
		Hub Dia dm	Length thro' Bore A	B1	Stock Bore D1	Type	Hub Dia dm	Length thro' Bore A	b1	B2	Stock Bore D1	
11	7.01	4.1/4	2.1/4	0.924	1.1/2	B	-	-	-	-	-	-
12	7.58	4.1/2	2.1/4	0.924	1.1/2	B	-	-	-	-	-	-
13	8.15	5.5/16	2.3/8	0.924	1.1/2	B	5	3.3/4	0.894	2.818	1.5/8	B
14	8.72	5.1/2	2.3/8	0.924	1.1/2	B	5.1/2	3.3/4	0.894	2.818	1.5/8	B
15	9.28	6.1/4	2.3/8	0.924	1.1/2	B	6.1/2	3.3/4	0.894	2.818	1.5/8	B
16	9.85	6.1/4	2.1/2	0.924	1.1/2	B	7	4	0.894	2.818	1.5/8	B
17	10.14	6.1/4	2.1/2	0.924	1.1/2	B	7	4	0.894	2.818	1.5/8	B
18	10.98	6.1/4	2.1/2	0.924	1.1/2	B	7	4	0.894	2.818	1.3/4	B
19	11.54	6.1/4	2.1/2	0.924	1.1/2	B	7	4	0.894	2.818	1.3/4	B
20	12.10	6.1/4	2.1/2	0.924	1.1/2	B	7	4	0.894	2.818	1.3/4	B
21	12.66	6.1/4	2.1/2	0.924	1.1/2	B	7	4	0.894	2.818	1.3/4	B
22	13.22	6.1/4	2.1/2	0.924	1.1/2	B	7	4	0.894	2.818	1.3/4	B
23	13.78	6.1/4	2.1/2	0.924	1.1/2	B	7	4	0.894	2.818	1.3/4	B
24	14.34	6.1/4	2.1/2	0.924	1.1/2	B	7	4	0.894	2.818	1.3/4	B
25	14.90	6.1/4	2.1/2	0.924	1.1/2	B	7	4	0.894	2.818	1.3/4	B
26	15.46	6.1/4	3	0.924	1.1/2	B	7	4	0.894	2.818	1.3/4	B
27	16.02	6.1/4	3	0.924	1.1/2	B	-	-	-	-	-	-
28	16.58	6.1/4	3	0.924	1.1/2	B	-	-	-	-	-	-
30	17.70	6.1/4	3	0.924	1.1/2	B	-	-	-	-	-	-
32	18.82	6.1/4	3	0.924	1.1/2	B	-	-	-	-	-	-
35	20.49	7	4	0.924	1.1/2	C	7.1/2	6	0.894	2.818	1.1/2	C
40	23.29	7	4	0.924	1.1/2	C	7.1/2	6	0.894	2.818	1.1/2	C
45	26.08	7	4	0.924	1.1/2	C	7.1/2	6	0.894	2.818	1.1/2	C
48	27.75	7	4	0.924	1.1/2	C	-	-	-	-	-	-
54	31.10	7	4	0.924	1.1/2	C	-	-	-	-	-	-
60	34.44	7	5	0.924	1.1/2	C	9.1/2	6.1/4	0.894	2.818	1.1/2	C
70	40.02	7.1/2	5	0.924	1.1/2	C	-	-	-	-	-	-
80	45.59	7.1/2	5	0.924	1.1/2	C	-	-	-	-	-	-

160 2" pitch **32A**

Teeth	Outer Dia de	Simplex					Duplex					Type
		Hub Dia dm	Length thro' Bore A	B1	Stock Bore D1	Type	Hub Dia dm	Length thro' Bore A	b1	B2	Stock Bore D1	
8	6.03	3.1/4	2.1/4	1.156	1.1/2	B	-	-	-	-	-	-
9	6.70	3.5/8	2.1/4	1.156	1.1/2	B	-	-	-	-	-	-
10	7.36	4.1/8	2.1/4	1.156	1.1/2	B	-	-	-	-	-	-
11	8.01	4.3/4	2.1/2	1.156	1.1/2	B	-	-	-	-	-	-
12	8.66	5.1/2	2.1/2	1.156	1.1/2	B	-	-	-	-	-	-
13	9.31	6	2.3/4	1.156	1.1/2	B	6	4.3/4	1.119	3.424	2	B
14	9.96	6.1/2	2.3/4	1.156	1.1/2	B	6.3/4	4.3/4	1.119	3.424	2	B
15	10.61	7	2.3/4	1.156	1.1/2	B	7	4.3/4	1.119	3.424	2	B
16	11.26	7	2.3/4	1.156	1.1/2	B	7	4.3/4	1.119	3.424	2	B
17	11.90	7	2.3/4	1.156	1.1/2	B	7	4.3/4	1.119	3.424	2	B
18	12.54	7	2.3/4	1.156	1.1/2	B	7	4.3/4	1.119	3.424	2	B
19	13.19	7	2.3/4	1.156	1.1/2	B	7	4.3/4	1.119	3.424	2	B
20	13.83	7	2.3/4	1.156	1.1/2	B	7	4.3/4	1.119	3.424	2	B
21	14.47	7	2.3/4	1.156	1.1/2	B	7.1/2	4.3/4	1.119	3.424	2	B
22	15.11	7	2.3/4	1.156	1.1/2	B	7.1/2	4.3/4	1.119	3.424	2	B
23	15.75	7	2.3/4	1.156	1.1/2	B	7.1/2	4.3/4	1.119	3.424	2	B
24	16.39	7	3	1.156	1.1/2	B	7.1/2	4.3/4	1.119	3.424	2	B
25	17.03	7	3	1.156	1.1/2	B	7.1/2	4.3/4	1.119	3.424	2	B
26	17.67	7	3	1.156	1.1/2	B	7.1/2	4.3/4	1.119	3.424	2	B
27	18.31	7	3	1.156	1.1/2	B	-	-	-	-	-	-
28	18.95	7	3	1.156	1.1/2	B	-	-	-	-	-	-
30	20.23	7	3	1.156	1.1/2	B	-	-	-	-	-	-
35	23.42	8	4.1/2	1.156	1.1/2	C	9.1/2	6.5/8	1.119	3.424	1.1/2	C
40	26.61	8	4.1/2	1.156	1.1/2	C	-	-	-	-	-	-
45	29.80	8	5	1.156	1.1/2	C	10	7.1/8	1.119	3.424	1.1/2	C
54	35.54	8	5	1.156	1.1/2	C	-	-	-	-	-	-
60	39.36	8	5	1.156	1.1/2	C	10	7.1/8	1.119	3.424	1.1/2	C
70	45.73	8	5	1.156	1.1/2	C	-	-	-	-	-	-
80	52.10	8	6	1.156	1.1/2	C	-	-	-	-	-	-

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* has a recessed groove in the hub for chain clearance

Every effort has been taken to ensure that the data listed in this catalogue is correct. Challenge accepts no liability for any inaccuracies or damage caused.

All dimensions in inches unless otherwise stated.