



No. of Teeth	Pitch Dia. (in.)	Outside Dia. (in.)	Req. Bushing Series	Brand	Mfr. Model	Item No.
<b>Size 40</b>						
<b>Quick Detachable</b>						
17	2.721	2.98	JA	Tsubaki	40JA17	5XXY1 *
60	9.554	9.84	SDS	Tsubaki	40SDS60	5XXZ9
<b>Split Taper</b>						
35	5.578	5.855	P1	Tsubaki	40P35	5PVA5
<b>Taper Lock</b>						
14	2.247	2.491	1008	Tsubaki	40BLT14	5XXN1 *
20	3.196	3.457	1610	Tsubaki	40BLT20	5XXN7 *
30	4.783	5.057	1610	Tsubaki	40BLT30	5XXP5
<b>Size 50</b>						
<b>Quick Detachable</b>						
13	2.612	2.91	JA	Tsubaki	50JA13	5XYA1
15	3.006	3.32	JA	Tsubaki	50JA15	5XYA3
17	3.401	3.72	SH	Tsubaki	50SH17	5XYA5
20	3.995	4.32	SDS	Tsubaki	50SDS20	5XYA8
21	4.194	4.52	SDS	Tsubaki	50SDS21	5XYA9
25	4.96	5.31	SDS	Tsubaki	50SDS45	5XYD1
48	9.556	9.91	SDS	Tsubaki	50SDS48	5XYD2
60	11.942	12.3	SK	Tsubaki	50SK60	5XYD3
<b>Split Taper</b>						
19	3.798	4.12	P1	Tsubaki	50P19	5PVC1
20	3.995	4.321	P1	Tsubaki	50P20	5PTX7
24	4.788	5.122	P1	Tsubaki	50P24	5PTX8
<b>Taper Lock</b>						
15	3.006	3.315	1210	Tsubaki	50BLT15	5XXR6 *
16	3.204	3.517	1610	Tsubaki	50BLT16	5XXR7 *
17	3.401	3.719	1610	Tsubaki	50BLT17	5XXR8 *
18	3.599	3.92	1610	Tsubaki	50BLT18	5XXR9
20	3.995	4.321	1610	Tsubaki	50BLT20	5XXT1
23	4.59	4.922	2012	Tsubaki	50BLT23	5XXT4
24	4.788	5.122	2012	Tsubaki	50BLT24	5XXT5
26	5.185	5.522	2012	Tsubaki	50BLT26	5XXT7
30	5.979	6.321	2012	Tsubaki	50BLT30	5XXT9
32	6.376	6.721	2012	Tsubaki	50BLT32	5XXU0
36	7.171	7.519	2012	Tsubaki	50BLT36	5XXU2
42	8.363	8.715	2012	Tsubaki	50BLT42	20UE93
45	8.96	9.313	2012	Tsubaki	50BLT45	5XXU4
60	11.942	12.301	2012	Tsubaki	50BLT60	5XXU6

No. of Teeth	Pitch Dia. (in.)	Outside Dia. (in.)	Req. Bushing Series	Brand	Mfr. Model	Item No.
<b>Size 60</b>						
<b>Quick Detachable</b>						
14	3.371	3.74	SH	Tsubaki	60SH14	5XYD6
17	4.092	4.46	SDS	Tsubaki	60SDS17	5XYD9
20	4.794	5.19	SDS	Tsubaki	60SDS20	5XYE2
32	7.652	8.07	SK	Tsubaki	60SK32	5XYF1
36	8.605	9.02	SK	Tsubaki	60SK36	5XYF3
45	10.752	11.18	SF	Tsubaki	60SF45	5XYF5
48	11.467	11.89	SF	Tsubaki	60SF48	5XYF6
60	14.331	14.76	SF	Tsubaki	60SF60	5XYF7
<b>Split Taper</b>						
13	3.134	3.493	P1	Tsubaki	60P13	5PTY4
20	4.794	5.185	Q1	Tsubaki	60Q20	5PTY8
60	14.33	14.761	Q1	Tsubaki	60Q60	5PTZ5
<b>Taper Lock</b>						
15	3.608	3.979	1610	Tsubaki	60BLT15	5XXU8
16	3.845	4.221	1610	Tsubaki	60BLT16	5XXU9
17	4.082	4.642	1610	Tsubaki	60BLT17	5XXV0
20	4.794	5.185	2012	Tsubaki	60BLT20	5XXV3
24	5.746	6.147	2012	Tsubaki	60BLT24	5XXV7
25	5.984	6.387	2012	Tsubaki	60BLT25	5XXV8
26	6.222	6.627	2012	Tsubaki	60BLT26	5XXV9
30	7.175	7.586	2012	Tsubaki	60BLT30	5XXW1
32	7.652	8.065	2012	Tsubaki	60BLT32	5XXW2
40	9.559	9.98	2012	Tsubaki	60BLT40	5XXW5
48	11.467	11.893	2012	Tsubaki	60BLT48	5XXW7
60	14.33	14.761	2517	Tsubaki	60BLT60	5XXW8
<b>Size 80</b>						
<b>Quick Detachable</b>						
13	4.179	4.66	SDS	Tritan	80SDS13H	36GG08
14	4.494	4.98	SDS	Tritan	80SDS14H	36GG09
15	4.81	5.3	SK	Tritan	80SK15H	36GG18
20	6.392	6.91	SF	Tritan	80SF20H	36GG10
23	7.344	7.88	SF	Tritan	80SF23H	36GG12
28	8.931	9.48	SF	Tritan	80SF28H	36GG15
<b>Split Taper</b>						
17	5.442	5.95	2012	Tritan	80BLT17H	55WE18
20	6.392	6.914	2517	Tritan	80BLT20H	55WE21

**Bushed-Bore Roller Chain Sprockets**

These bushed-bore roller chain sprockets work with a single strand of industry chain. They need a bushing to mount to the drive shaft and adapt the bore, or center hole, to the shaft size and are for use in high-power applications. **Quick Detachable** are flanged; a split through the entire unit eases installation/removal. **Split Taper** are flanged; double-split barrel provides more clamping force than quick-detachable or taper-lock bushings. **Taper Lock** have a split barrel to ease installation/removal. Non-flanged, mount flush with the pulley or sprocket, and take up less space.



**Plain-Bore Roller Chain Sprockets**

For more sprocket sizes, go to Grainger.com. These plain-bore roller chain sprockets work with a single strand of industry chain. They have a starting bore, or center hole, that can be machined to the correct size of the shaft. Keyways and/or setscrews can be machined to fit the needs of the shaft and application. **Type A** sprockets have no hub. **Type B** sprockets have one sided hub.

No. of Teeth	Pitch Dia.	Outside Dia.	Bore Dia.	Max. Bore Dia.	Brand	Mfr. Model	Item No.
<b>Type A, Steel</b>							
<b>Size 25</b>							
46	3.822 in	3.964 in	1/2 in	1 3/8 in	Tritan	25A48 X 1/2	55VX39
<b>Size 35</b>							
24	2.873 in	3.07 in	1/2 in	1 3/8 in	Tritan	35A24H X 1/2	55VX69
<b>Size 40</b>							
36	5.737 in	6.02 in	5/8 in	2 1/4 in	Tritan	40A36 X 5/8	55VY49
<b>Size 60</b>							
15	3.608 in	3.98 in	3/4 in	1 7/8 in	Tritan	60A15H X 3/4	55WC24
<b>Type B, Stainless Steel</b>							
<b>Size 35</b>							
15	1.804 in	1.99 in	1/2 in	7/8 in	Tsubaki	35B15SS	56VF2
40	4.78 in	4.99 in	5/8 in	1 1/2 in	Tsubaki	35B40SS	56VG8
<b>Size 40</b>							
22	3.513 in	3.78 in	5/8 in	1 7/8 in	Tsubaki	40B22SS	56VJ2
60	9.554 in	9.84 in	5/8 in	2 3/8 in	Tsubaki	40B60SS	56VK2
<b>Size 60</b>							
22	5.27 in	5.67 in	3/4 in	2 3/4 in	Tsubaki	60B22SS	56VP4
<b>Type B, Steel</b>							
<b>Size 25</b>							
20	1.598 in	1.729 in	1/4 in	7/8 in	Tsubaki	25B20	5WDW7
<b>Size 35</b>							
8	0.98 in	1.13 in	3/8 in	3/8 in	Tsubaki	35B8	5WDY2 *
<b>Size 60</b>							
15	3.608 in	3.98 in	3/4 in	1 7/8 in	Tsubaki	60B15	5XXG2
<b>Size 80</b>							
15	4.81 in	5.3 in	1 in	2 1/2 in	Tsubaki	80B15	5XXK3
26	8.296 in	8.84 in	1 3/8 in	3 1/4 in	Tsubaki	80B26	5XXL4
30	9.567 in	10.11 in	1 3/8 in	3 1/4 in	Tsubaki	80B30	5XXL8

\* Has recessed groove in hub for chain clearance.



**Idler Sprockets**

Engage with roller chains to maintain tension, change the direction of the chain, or position chains away from obstacles. **Fiberglass-Reinforced Nylon** sprockets are resistant to corrosive environments and are for drive systems that require washdown. **Steel** sprockets are durable and wear resistant. Required shafts for needle bearing models sold separately on page 117.

For Chain Number	No. of Teeth	Outside Dia.	Bore Dia.	Required Tightener Shaft	Brand*	Mfr. Model	Item No.	
<b>Fiberglass-Reinforced Nylon Construction, Ball Bearing Type</b>								
40	17	2.98 in	17 mm	—	Fenner	CS4002†	32P37	
60	15	3.34 in	17 mm	—	Fenner	CS5002†	32P38	
60	13	3.52 in	17 mm	—	Fenner	CS6002†	32P39	
<b>Steel Construction, Ball Bearing Type</b>								
40	17	2.96 in	5/8 in	—	Power	H840A17X5/8	6AGN0	
40	17	2.98 in	5/8 in	—	Tritan	40BB17H	55VY59	
40	18	3.14 in	5/8 in	—	Tritan	40BB18H	55VY60	
50	15	3.32 in	5/8 in	—	Power	H850A15X5/8	6AGN1	
50	15	3.32 in	5/8 in	—	Tritan	50BB15H	55WA28	
50	17	3.72 in	5/8 in	—	Tritan	50BB17H	55WA29	
60	13	3.49 in	5/8 in	—	Power	H860A13X5/8	6AGN2	
60	13	3.49 in	5/8 in	—	Tritan	60BB13H	55WC43	
60	15	3.98 in	5/8 in	—	Tritan	60BB15H	55WC44	
80	12	4.33 in	3/4 in	—	Power	H880A12X3/4	6AGN3	
80	12	4.33 in	3/4 in	—	Tritan	80BB12H	55WD54	
<b>Steel Construction, Needle Roller Bearing Type</b>								
35	13	1.75 in	1/2 in	1 in	6AGL5	Power	HN35B13	6AGN4
40	19	3.28 in	1 in	1 in	6AGL6	Power	HN40B19	6AGN5
50	17	3.72 in	1 in	1 in	6AGL6	Power	HN50B17	6AGN6
60	17	4.46 in	1 in	1 in	6AGL6	Power	HN60B17	6AGN7
80	13	4.66 in	1 in	1 in	6AGL6	Power	HN80B13	6AGN8

\* Fenner - Fenner Drives, Power - Power Drive. † Add /CB0004.

**Standard Keyway and Setscrew Machining Guide**

Dia. of Shaft	Keyseat Width x Depth	Dia. of Setscrew †
3/16 - 7/16"	3/32 x 3/64"	#8-32"
1/2 - 9/16"	1/8 x 1/16"	#10-24"
5/8 - 7/8"	3/16 x 3/32"	1/4"
15/16 - 1 1/4"	1/4 x 1/8"	5/16"
1 1/8 - 1 3/8"	5/16 x 3/32"	3/8"
1 1/2 - 1 3/4"	3/8 x 1/8"	7/16"
1 5/8 - 2 1/4"	1/2 x 3/16"	1/2"
2 1/2 - 2 3/4"	5/8 x 3/16"	5/8"
2 3/4 - 3 1/4"	3/4 x 3/16"	3/4"
3 1/2 - 3 3/4"	7/8 x 1/16"	3/4"
3 3/4 - 4 1/4"	1 x 1/16"	3/4"
4 1/2 - 5 1/2"	1 1/4 x 3/16"	3/4"
5 1/2 - 6 1/2"	1 1/2 x 3/16"	1"
6 1/2 - 7 1/2"	1 3/4 x 1/16"	1"
7 1/2 - 8 1/2"	2 x 1"	1"
9 - 10 1/2"	2 1/2 x 1 1/4"	1"

† Setscrew size may vary depending on hub wall thickness. As a general rule, the hub wall over the keyway should be equal to or greater than the dia. of the setscrew. Note: Maximum bore guidelines should be adhered to in order to ensure maximum product quality standards.