

Idler Sprockets—Chain Tensioners

Bronze Bushed Sprocket Idlers for Use with All Steel Tighteners

Dimensions are in inches unless otherwise indicated.

No. Teeth	Outside Diameter	Catalog Number	Suggested Tightener	ANSI Chain No.	Hub Dia.	LTB	Bushed Bore Dia.	Wt. Lbs.
15	1.990	35B15T	0	35	1 $\frac{3}{8}$	1 $\frac{5}{16}$	$\frac{1}{2}$	.32
13	2.329	41B13T	0	41	1 $\frac{9}{16}$	1 $\frac{5}{16}$	$\frac{1}{2}$	.52
13	2.329	40B13T	0	40	1 $\frac{1}{16}$	1 $\frac{5}{16}$	$\frac{1}{2}$	.52
13	2.911	50B13T	0	50	2	1 $\frac{5}{16}$	$\frac{1}{2}$	.97
21	2.713	35B21T	1	35	2 $\frac{1}{8}$	1 $\frac{1}{16}$	$\frac{7}{8}$	.82
19	3.296	40B19T	1	40	2 $\frac{7}{16}$	1 $\frac{1}{16}$	$\frac{7}{8}$	1.50
17	3.719	50B17T	1	50	2 $\frac{5}{8}$	1 $\frac{1}{16}$	$\frac{7}{8}$	1.80
15	3.979	60B15T	1	60	2 $\frac{11}{16}$	1 $\frac{1}{16}$	$\frac{7}{8}$	2.50
17	4.462	60B17T	2	60	2 $\frac{7}{8}$	1 $\frac{1}{16}$	1 $\frac{1}{8}$	3.30
15	5.305	80B15T	2	80	3 $\frac{1}{2}$	1 $\frac{1}{16}$	1 $\frac{1}{8}$	5.60

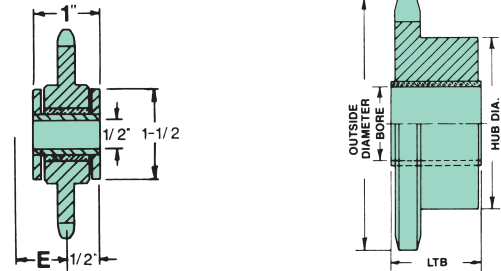
NOTE: Idlers other than stock furnished on a made-to-order basis

Bronze Bushed Idler Sprockets with Steel Journals

Dimensions are in inches unless otherwise indicated.

No. Teeth	Outside Diameter	Catalog Number	Chain Size	Stock Bore	E* Dim.	Wt. Lbs.
20	2.60	31E20	35	$\frac{1}{2}$ "	.59"	.46
15	3.32	51E15	50	$\frac{1}{2}$ "	.72"	.70
14	3.75	61E14	60	$\frac{1}{2}$ "	.81"	.42

* Dimension E is minimum space for chain clearance



You need Adjustable Idler Sprockets to:

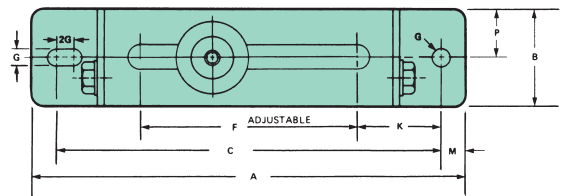
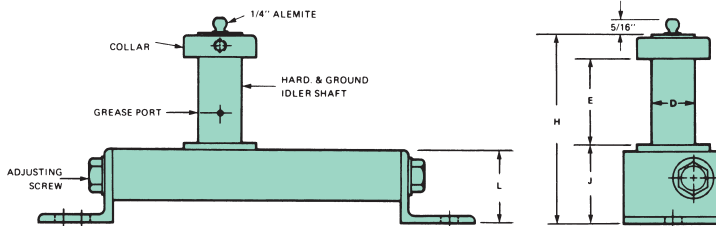
- Obtain proper chain tension when neither driving nor driven shaft is adjustable, and to take up slack chain developed through normal chain wear
- Guide chain around an obstruction
- Prevent whipping action in the slack span of chain transmitting an uneven load
- Bring about greater chain wrap around a small sprocket, particularly if it is the lower sprocket in a vertical drive
- Provide for reversed direction of rotation of a sprocket in contact with the outside of the chain

Idler sprockets should not rotate at greater speeds than are allowable for drive sprockets of the same size. They should be mounted in contact with the slack span of chain. Mount them on the outside of the chain when the arc of chain wrap on the smaller sprocket would otherwise be less than 120°.

It is advisable that idler sprockets have at least three teeth in mesh with the chain. Inside mounted idlers usually account for quieter operation, especially if centers are short and speed is moderately high.

- Machined steel sprockets
- Hardened teeth
- Hardened & ground steel journals
- Oil-impregnated sintered bronze bushings

NOTE: Idler rpm should not exceed 2500 and radial loading should be less than 50 pounds.



Chain Tensioners

Dimensions are in inches unless otherwise indicated.

Size	A	B	C	D	E	F	G	2G	H	J	K	L	M	P	Wt. Lbs.	Suggested Chain
#0-B	5 $\frac{7}{8}$	1 $\frac{1}{2}$	5 $\frac{1}{4}$	.500	1	2 $\frac{1}{2}$	$\frac{9}{32}$	$\frac{3}{8}$	2 $\frac{13}{16}$	1 $\frac{5}{16}$	1 $\frac{3}{8}$	1 $\frac{1}{4}$	$\frac{3}{8}$	$\frac{3}{4}$	1.00	#35,40,41*
#1-B	9	2	8 $\frac{1}{8}$	.875	1 $\frac{3}{4}$	4 $\frac{1}{2}$	1 $\frac{11}{32}$	$\frac{1}{2}$	4	1 $\frac{5}{8}$	1 $\frac{3}{4}$	1 $\frac{1}{2}$	$\frac{1}{2}$	1	2.50	#40,50,60*
#2-B	13	3	11 $\frac{7}{8}$	1.125	2 $\frac{7}{8}$	6	$\frac{9}{16}$	$\frac{3}{4}$	5 $\frac{11}{16}$	2 $\frac{9}{32}$	2 $\frac{7}{8}$	2	$\frac{5}{8}$	1 $\frac{1}{2}$	6.00	#80,100,120*
#3-B	14	4	12 $\frac{5}{8}$	1.750	3 $\frac{1}{8}$	6	$\frac{9}{16}$	$\frac{3}{4}$	6 $\frac{1}{4}$	2 $\frac{9}{16}$	3 $\frac{1}{4}$	2	$\frac{3}{4}$	2	12.00	#140,160,200*

* Single-strand chain. For multiple-strand chain, use larger tensioner.