

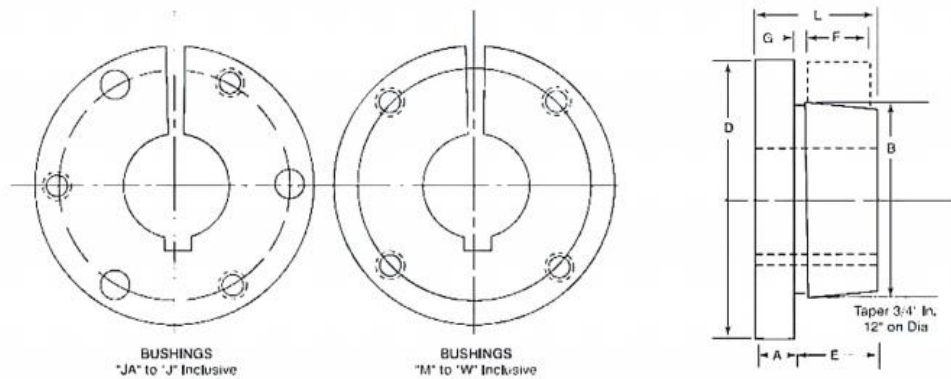


Taper Bushing

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Stock QTL Bushings dimensions

	Dimensions(inches)								Cap Screws Required	Stock Bore range			Average
Bush- ing	A	B	D	E	F	G	L	Bolt Circle		Mini- mum	Maximum		Weight (Approx)
											Standard Keyway	Shalow Keyway	
JA	5/16	1.375	2	11/16	9/16	0.20	1	1.656	3-10x1	3/8	1	13/16	0.9
SH	7/16	1.871	211/16	7/8	13/16	0.23	1 5/16	21/4	3-1/4x138	1/2	13/8	15/8	1.0
SDS	7/16	2.187	31/8	7/8	3/4	0.23	1 5/16	211/16	3-1/4x138	1/2	15/8	115/16	1.0
SD	7/16	2.187	31/8	13/8	13/4	0.23	13/16	211/16	3-1/4x178	1/2	15/8	115/16	1.5
SK	9/16	2.812	37/8	13/8	11/4	0.23	115/16	35/16	35/16x2	1/2	21/8	21/2	2.0
SF	5/8	3.125	45/8	17/16	11/4	0.23	21/16	37/8	3-3/8x2	1/2	21/4	27/8	4.0
E	7/8	3.834	6	17/8	15/8	0.28	23/4	5	3-1/2x23/4	7/8	27/8	31/2	10.5
F	1	4.437	65/8	23/4	21/2	0.34	33/4	5/8	3-9/16x358	1	31/4	315/16	15
J	11/8	5.148	71/4	31/2	31/6	0.31	45/8	61/4	3-5/8x41/2	11/2	313/16	41/2	23
M	11/4	6.494	9	51/2	53/16	0.34	63/4	77/8	4-3/4x63/4	2	411/16	51/2	55
N	11/2	6.992	10	65/8	61/4	0.56	81/8	812	4-7/8x8	27/16	51/16	57/8	73
P+	13/4	8.242	113/4	75/8	71/4	0.63	93/8	10	4-1x91/2	215/16	513/16	7	120
W+	2	10.437	15	93/8	9	0.69	113/8	123/4	4-11/8x111/2	4	71/2	81/2	250
S+	31/4	12.125	173/4	121/2	12	0.75	153/4	15	5-11/4x151/2	6	81/4	10	400

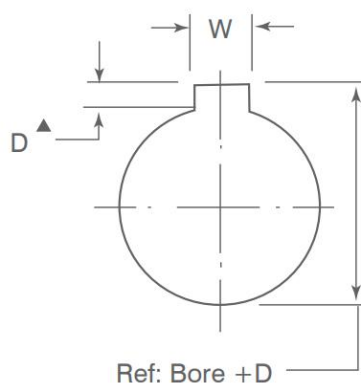


QTL Bushing dimensions and range for innerbores and keyway

bush	Bore	Keyway	Bush	Bore	Keyway	Bush	Bore	Keyway	Bush	Bore	Keyway	Bush	Bore	Keyway	Bush	Bore	Keyway
JA	3/8 7/16	None	SDS SD	17/8 115/16	1/2x1/16	SF	17/16 11/2 19/16 15/8 111/16 13/4	3/8x3/16	E	213/16 27/8	3/4x3/8	J	11/2 19/10 15/8 111/16 13/4	3/8x3/16	M	213/16 27/8 25/16 3 31/8 33/16 31/4	3/4x3/8
	1/2 9/16	1/8x1/16		2	None		113/16 17/8 115/16 2 21/16 21/8 23/16 21/4	1/2x1/4		215/16 3 31/8 33/16 31/4	3/4x1/8		113/16 17/8 115/16 21/16 21/8 23/16 21/4	1/2x1/4		35/16 33/8 37/16 31/2 35/8 33/4	7/8x7/16
	5/8 11/10 3/4 13/16 7/8	3/16x3/32		5/8 11/16 3/4 13/16 7/8	3/16x3/32		25/16 23/8 27/16 21/2	5/8x3/16		1 1/16 11/8 13/16 11/4	1/4x1/8		25/16 23/8 27/16 21/2	5/8x5/16		37/8 315/16 4 41/8 43/16 41/4 43/8 47/16 41/2	1x1/2
	15/16 1	1/4x1/8	SK	15/16 1 11/16 11/8 13/16 11/4	1/4x1/8	SH	29/16 25/8 211/16 23/4	5/8x1/16	F	17/16 11/2 19/16 15/8 111/16 13/4	3/8x3/10	N	211/16 23/4	3/8x3/10	N	213/16 27/8 215/16 3 31/8 33/16 31/4	3/4x3/8
	11/16 11/8 13/16	1/4x1/16		113/16 17/8 115/16 2 21/16 21/8	1/2x1/4		15/16 1 11/16 11/0 13/16 11/4	1/4x1/8		113/16 17/8 115/16 2 21/6 21/8 23/16 21/4	1/2x1/4		35/16 33/8 37/16 31/2 35/8 33/4	7/8x7/16		43/4 47/8 415/16 5 51/4 53/8 57/16 51/2	11/4x1/4
	11/4	None		23/16 21/4	1/2x1/8		15/16 13/8	5/16x5/32		25/16 23/8 27/16 21/2	5/8x5/16		37/8 315/16 4 41/8 43/8 47/16 41/2	1x1/8		27/16 21/2 29/16 25/8 211/16 2314	5/8x5/16
	1/2 9/16	1/8x1/16		15/16 13/8	5/16x5/32		17/16 11/2 19/16 15/8 111/16 13/4	3/8x3/16		213/16 27/8 215/16 3 31/8 33/16 31/4	3/4x3/8		2 21/16 21/8 23/16 21/4	1/2x1/4		35/6 33/8 37/16 31/2 35/8 33/4	7/8x7/16
	5/8 11/16 3/4 13/16 7/8	3/16x3/32		29/16 25/8	None		113/16 17/8 115/16 21/16 21/8 23/16 21/4	1/2x1/4		35/16 33/8 37/16 31/2 35/8 33/4	7/8x3/10		25/16 23/8 27/16 21/2 29/16 25/8 211/16 23/4	5/8x5/16		31/8 315/16 4 41/8 43/16 41/4 43/8	1x1/2
	15/16 1 11/16 11/8 13/16 11/4	1/4x1/8		5/8 11/16 3/4 13/16 7/8	3/16x3/32		25/16 23/8 27/16 21/2	5/8x1/16		213/16 27/8 215/16 3 31/8 33/16 31/4	3/4x3/8		37/8 315/16 4 41/8 43/8 47/16 41/2	1x1/8		213/16 27/8 215/16 3 31/8 33/16 31/4	3/4x3/8
	15/16 13/8	5/16x5/32		25/16 23/8 27/16 21/2	5/8x1/16		15/16 1 11/16 11/8 13/18 14	1/4x1/8		213/16 27/8 215/16 3 31/8 33/16 31/4	3/4x3/8		2 21/16 21/8 23/16 21/4	1/2x1/4		35/6 33/8 37/16 31/2 35/8 33/4	7/8x7/16
	17/16 11/2 19/16 15/8	3/8x1/16		23/16 21/4	1/2x1/8		25/16 23/8 27/16 21/2 29/16 25/8 211/16 23/4	5/8x5/16		37/8 315/16	1x1/8		211/16 23/4	5/8x5/16		31/8 315/16 4 41/8 43/16 41/4 43/8	1x1/2
	111/16	None		25/16 23/8 27/16 21/2	5/8x1/16		15/16 13/8	5/16x5/32		213/16 27/8 215/16 3 31/8 33/16 31/4	3/4x3/8		2 21/16 21/8 23/16 21/4	1/2x1/4		35/6 33/8 37/16 31/2 35/8 33/4	7/8x7/16
	1/2 9/16	1/8x1/10		29/16 25/8	None		17/16 11/2 19/16 15/8 111/16 13/4	3/8x3/16		213/16 27/8 215/16 3 31/8 33/16 31/4	3/4x3/8		2 21/16 21/8 23/16 21/4	1/2x1/4		35/6 33/8 37/16 31/2 35/8 33/4	7/8x7/16
SDS SD	5/8 11/16 3/4 13/16 7/8	3/16x3/32	SF	1/2 9/16	1/8x1/10	SF	113/16 17/8 115/16 21/16 21/8 23/16 21/4	1/2x1/4	M	213/16 27/8 215/16 3 31/8 33/16 31/4	3/4x3/8	M	2 21/16 21/8 23/16 21/4	1/2x1/4	N	35/6 33/8 37/16 31/2 35/8 33/4	7/8x7/16
	15/16 13/8	5/16x5/32		15/16 1 11/16 11/8 13/18 14	1/4x1/8		25/16 23/8 27/16 21/2 29/16 25/8 211/16 23/4	5/8x5/16		35/16 33/8 37/16 31/2 35/8 33/4	7/8x3/10		25/16 23/8 27/16 21/2 29/16 25/8 211/16 23/4	5/8x5/16		31/8 315/16 4 41/8 43/16 41/4 43/8	1x1/2
	17/16 11/2 19/16 15/8	3/3x3/16		15/16 13/8	5/16x5/32		15/16 13/8	5/16x5/32		37/8 315/16	1x1/8		211/16 23/4	5/8x5/16		31/8 315/16 4 41/8 43/16 41/4 43/8	1x1/2
	111/16 13/4	3/8x1/8		15/16 13/8	5/16x5/32		15/16 13/8	5/16x5/32		37/8 315/16	1x1/8		211/16 23/4	5/8x5/16		31/8 315/16 4 41/8 43/16 41/4 43/8	1x1/2
	113/16	1/2x1/8		15/16 13/8	5/16x5/32		15/16 13/8	5/16x5/32		37/8 315/16	1x1/8		211/16 23/4	5/8x5/16		31/8 315/16 4 41/8 43/16 41/4 43/8	1x1/2
	1/2 9/16	1/8x1/10		29/16 25/8	None		17/16 11/2 19/16 15/8 111/16 13/4	3/8x3/16		213/16 27/8 215/16 3 31/8 33/16 31/4	3/4x3/8		2 21/16 21/8 23/16 21/4	1/2x1/4		35/6 33/8 37/16 31/2 35/8 33/4	7/8x7/16
	5/8 11/16 3/4 13/16 7/8	3/16x3/32		1/2 9/16	1/8x1/10		113/16 17/8 115/16 21/16 21/8 23/16 21/4	1/2x1/4		213/16 27/8 215/16 3 31/8 33/16 31/4	3/4x3/8		2 21/16 21/8 23/16 21/4	1/2x1/4		35/6 33/8 37/16 31/2 35/8 33/4	7/8x7/16
	15/16 1 11/16 11/8 13/16 11/4	1/4x1/8		5/8 11/16 3/4 13/16 7/8	3/16x3/32		25/16 23/8 27/16 21/2	5/8x1/16		213/16 27/8 215/16 3 31/8 33/16 31/4	3/4x3/8		2 21/16 21/8 23/16 21/4	1/2x1/4		35/6 33/8 37/16 31/2 35/8 33/4	7/8x7/16
	15/16 13/8	5/16x5/32		25/16 23/8 27/16 21/2	5/8x1/16		15/16 13/8	5/16x5/32		213/16 27/8 215/16 3 31/8 33/16 31/4	3/4x3/8		2 21/16 21/8 23/16 21/4	1/2x1/4		35/6 33/8 37/16 31/2 35/8 33/4	7/8x7/16
	17/16 11/2 19/16 15/8	3/3x3/16		23/16 21/4	1/2x1/8		25/16 23/8 27/16 21/2 29/16 25/8 211/16 23/4	5/8x5/16		37/8 315/16	1x1/8		211/16 23/4	5/8x5/16		31/8 315/16 4 41/8 43/16 41/4 43/8	1x1/2
	111/16	None		25/16 23/8 27/16 21/2	5/8x1/16		15/16 13/8	5/16x5/32		213/16 27/8 215/16 3 31/8 33/16 31/4	3/4x3/8		2 21/16 21/8 23/16 21/4	1/2x1/4		35/6 33/8 37/16 31/2 35/8 33/4	7/8x7/16

Bores and keyway

Bush	Bore	Keyway	Bush	Bore	Keyway	Bush	Bore	Keyway	Bush	Bore	Keyway
N	47/16 41/2	1x1/2	P	37/8 315/16 4 41/8 43/16 41/4 43/8 47/16 41/2	1x1/2	P	65/8 63/4 67/8 7	13/4x1/8	W	65/8 63/4 67/8 7 71/4 73/8 71/2	13/4x7/8
	45/8 43/4 47/8 415/16 5	11/4x5/8		45/8 43/4 47/8 415/16 5 51/4 53/8 57/16 51/2	11/4x5/B	W	4 41/8 43/16 41/4 43/8 47/16 41/2	1x1/2		75/8 73/4 77/8 8 81/4 83/8 81/2	2x1/4
	51/4 53/8 57/16 51/2	11/4x1/4		55/8 53/4 57/8	11/2x1/4		45/8 43/4 47/8 415/16 5 51/4 53/8 57/16 51/2	11/4x5/8			
P	215/16 3 31/8 33/16 31/4	3/4x3/8		57/8 515/16 6 61/4 63/8 61/2	11/2x1/4		55/8 53/4 57/8 515/16 6 61/4 63/8 61/2				
	35/16 33/8 37/16 31/2 35/8 33/4	7/8x7/16									



Iso Standard Method for Measuring Keyseat depth

▲ Depth mesured at center line

Bore for QTL Bushing

Bush	Bore	Keyway	Bush	Bore	Keyway	Bush	Bore	Keyway	Bush	Bore	Keyway
N	47/16 41/2	1x1/2	P	37/8 315/16 4 41/8 43/16 41/4 43/8 47/16 41/2	1x1/2	P	65/8 63/4 67/8 7	13/4x1/8	W	65/8 63/4 67/8 7 71/4 73/8 71/2	13/4x7/8
	45/8 43/4 47/8 415/16 5	11/4x5/8					4 41/8 43/16 41/4 43/8 47/16 41/2	1x1/2		75/8 73/4 77/8 8 81/4 83/8 81/2	2x1/4
	51/4 53/8 57/16 51/2	11/4x1/4		45/8 43/4 47/8 415/16 5 51/4 53/8 57/16 51/2	11/4x5/8		45/8 43/4 47/8 415/16 5 51/4 53/8 57/16 51/2	11/4x5/8			
	55/8 53/4 57/8	11/2x1/4		55/8 53/4	11/2x3/4						
P	215/16 3 31/8 33/16 31/4	3/4x3/8	P			W					
	35/16 33/8 37/16 31/2 35/8 33/4	7/8x7/16		57/8 515/16 6 61/4 63/8 61/2	11/2x1/4		55/8 53/4 57/8 515/16 6 61/4 63/8 61/2				

BORE RANGE FOR QTL BUSHING

Bush No.	Min Bore	Max. Bore with:		
		Full Keyway	Shallow Keyway	No Keyway
JA	3/8	1	13/16	11/4
SH	1/2	13/8	15/8	111/16
SDS	1/2	15/8	115/16	2
SD	1/2	15/8	115/16	2
SK	1/2	21/8	21/2	25/8、29/16
SF	1/2	21/4	27/8	215/16
E	7/8	27/8	31/2	-
F	1	31/4	315/16	4
J	11/2	313/16	41/2	-
M	2	411/16	51/2	-
N	27/16	51/16	57/8	-
P	215/16	513/16	7	-
W	4	7/12	81/2	-
S	6	81/4	10	-