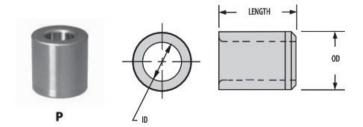
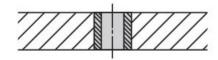
PRESS FIT BUSHINGS



APPLICATIONS:

This is the most-popular and least-expensive drill bushing. P bushings are permanently pressed into the jig plate, usually flush with the top surface. They are generally used for single-step drilling or reaming operations when you do not expect to replace bushings during the tooling's lifetime. P bushings can be mounted closer together than headed bushings, but offer less resistance to heavy axial loads.



ORDERING EXAMPLES:

P-20-16-.1250 Standard inch bushing, inch ID P-20-16-.1772 Standard inch bushing, mm ID

(.1772 = 4.50mm)

P-20-16U-.1250 Unground OD P-20-16-.1250 REAMER Reamer tolerance on ID

P-20-16-.1250 NCB No counterbore on long bushings marked with * (no counterbore is

standard on all other bushings)

PC-20-16-.1250 Carbide bushing PM-8-12-4.50 Standard metric bushing

Standard prices apply only to bushings with a standard-drill-size ID within the stated ID range. See catalog back cover for standard drill sizes and their decimal equivalents. For prices on non-standard ID sizes, including reamer-tolerance and tap-guide bushings, please contact factory.

STANDARD ID TOLERANCES:

SIMIUMNU ID	IOLENAIVES	•	
From #80 to 1/4"	+.0001/+.0004	From .35 to 3mm	+.002/+.008mm
		Over 3 to 6mm	+.004/+.012mm
Over 1/4 to 3/4"	+.0001/+.0005	Over 6 to 10mm	+.005/+.014mm
		Over 10 to 18mm	+.006/+.017mm
Over 3/4 to 1-1/2"	+.0002/+.0006	Over 18 to 30mm	+.007/+.020mm
		Over 30 to 50mm	+.009/+.025mm
Over 1-1/2 to 2-3/4"	+.0003/+.0007	Over 50 to 80mm	+.010/+.029mm
		Over 80 to 120mm	+.012/+.034mm
		(G6 tolerance)	

REAMER ID TOLERANCES:

From #60 to 1/4"	+.0005/+.0008	From 1 to 3mm	+.006/+.012mm	
		Over 3 to 6mm	+.010/+.018mm	
Over 1/4 to 1"	+.0006/+.0010	O C to 10	+.013/+.022mm	
		Over 10 to 18mm	+.016/+.027mm	
Over 1" to 1-1/2"	+.0008/+.0012	Over 18 to 30mm	+.020/+.033mm	
		Over 10 to 18mm +.015/+.027mm Over 10 to 18mm +.016/+.027mm Over 18 to 30mm +.020/+.033mm (F6 tolerance)		

ID RANGE	OD	LENGTH	ANSI PART NO.
.01350291 #80-#70 .3570mm	2000	1/4	P-10-4
		5/16	P-10-5
		3/8	P-10-6
		*1/2	P-10-8
.02920519 #69-3/64 .75-1.25mm	5/32 .15781575 (.166161 UNG)	1/4	P-10-4
		5/16	P-10-5
		3/8	P-10-6
		*1/2	P-10-8
		*3/4	P-10-12
		1/4	P-10-4
.05200625		5/16	P-10-5
#55-1/16		3/8	P-10-6
1.30-1.60mm		*1/2	P-10-8
		*3/4	P-10-12
		1/4	P-12-4
		5/16	P-12-5
.05200634 #55-1/16		3/8	P-12-6
1.30-1.60mm		*1/2	P-12-8
1.50-1.0011111	2/26	*5/8	P-12-10
	3/16	*3/4	P-12-12
i i	.18911888 (.201197 UNG)	1/4	P-12-4
0435 0005		5/16	P-12-5
.06350995 #52-#39		3/8	P-12-6
1.65-2.50mm		1/2	P-12-8
1.03-2.5011111		5/8	P-12-10
		*3/4	P-12-12
0435 0304		1/4	P-13-4
.01350291 #80-#70		5/16	P-13-5
.3570mm		3/8	P-13-6
.557011111		*1/2	P-13-8
		1/4	P-13-4
.02920519		5/16	P-13-5
#69-3/64 .75-1.30mm		3/8	P-13-6
		*1/2	P-13-8
	13/64 .20462043 (.213208 UNG)	*3/4	P-13-12
		1/4	P-13-4
		5/16	P-13-5
.05200634 #55-1/16 1.35mm-1.60mm		3/8	P-13-6
		*1/2	P-13-8
		*3/4	P-13-12
		*1	P-13-16
		1/4	P-13-4
		5/16	P-13-5
.06350995 #52-#39 1.65-2.50mm		3/8	P-13-6
		1/2	P-13-8
		*3/4	P-13-12
		*1	P-13-16
	100	*1-3/8	P-13-22

INFO+: Counterbored, leaving correct drill-bearing length and clearance (see page 551 for bearing length).

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