

THREADED INSERTS FOR PLASTICS



- Engineering and Design Assistance
- Competitive Pricing
- Quality Assurance
- Reliable Delivery



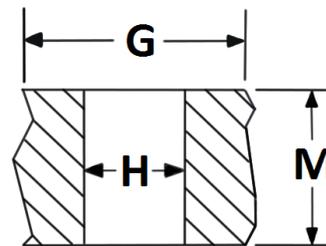
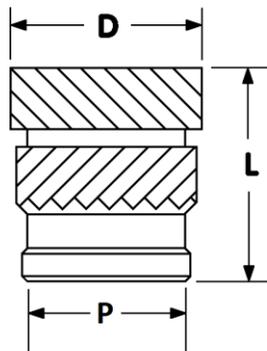
Post-Molded Inserts for Plastics:

- High Pull-Out Torque-Out resistance
- Quick installation with heat or ultrasonics
- Strong reusable threads improve product performance

SERIES 10: For installation in straight cored holes

The Series 10 insert is designed for installation into minimum draft holes or straight holes in plastic moldings. The combination of right and left handed knurls with uniquely placed undercuts provide unparalleled resistance to torque and pull-out loads. These inserts were designed for installation into Thermoplastic materials with heat or ultrasonics.

INCH SIZES		METRIC SIZES		DIAMETER		LENGTH	RECOMMENDED HOLE SIZE
INTERNAL THREAD SIZE - UNIFIED	PART NUMBER - UNIFIED	INTERNAL THREAD SIZE - METRIC	PART NUMBER - METRIC	D	P	L	H+.003"/-.000"
0-80	10B0008-125	M1 X 0.25	10B0010-125	.116	.095	.125	.100
2-56	10B02560-157	M2 X 0.4	10B0020-157	.142	.123	.157	.126
4-40	10B0440-226	M3 X 0.5	10B0030-226	.182	.153	.226	.157
6-32	10B0632-281	M3.5 X 0.6	10B0035-281	.215	.184	.281	.188
8-32	10B0832-321	M4 X 0.7	10B0040-321	.249	.217	.321	.221
10-32	10B1032-375	M5 X 0.8	10B0050-375	.279	.248	.375	.252
1/4-20	10B2520-500	M6 X 1	10B0060-500	.342	.311	.500	.315
5/16-18	10B3118-500	M8 X 1.25	10B0080-500	.404	.374	.500	.377
3/8-16	10B3716-500	M10 X 1.5	10B0100-500	.495	.465	.500	.468



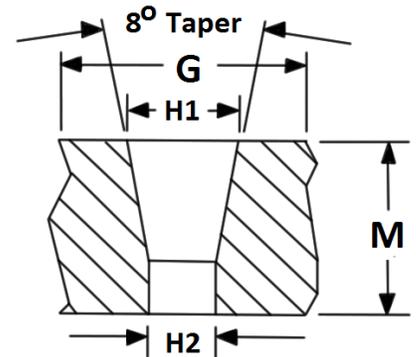
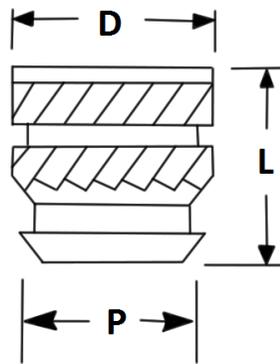
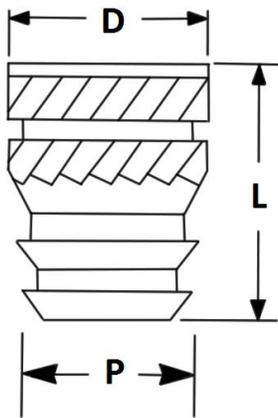
Minimum Depth "M" =
Insert Length + .020"

When installing inserts into a boss, the minimum diameter "G" of the boss should be at least 1.5 times the diameter of the insert.

The basic design of these inserts can be applied to a variety of "special" components intended for installation into plastic molded parts, thereby offering the Design Engineer greater flexibility. Special lengths are available in all thread sizes. Blind or closed ended inserts can be manufactured to customer specifications. Thread sizes and thread pitches not listed are also available. Plating and color-coating to any commercial finish can be provided according to customer requirements.

SERIES 20 For installation in tapered cored holes

INCH SIZES		METRIC SIZES		DIAMETER		LENGTH		RECOMMENDED HOLE SIZE	
INTERNAL THREAD SIZE - UNIFIED	PART NUMBER - UNIFIED	INTERNAL THREAD SIZE - METRIC	PART NUMBER - METRIC	D	P	(L) REG.	(L) SHORT	H1 (+ .001)	H2 (+ .001)
0-80	20B0008-188			.141	.112	.188		.123	.107
0-80	20B0008-115			.141	.123		.115	.123	.118
2-56	20B0256-188	M2 X 0.40	20B0020-188	.141	.112	.188		.123	.107
2-56	20B0256-115	M2 X 0.40	20B0020-115	.141	.123		.115	.123	.118
4-40	20B0440-219	M2.5 X 0.45	20B0025-219	.172	.146	.219		.159	.141
4-40	20B0440-135	M2.5 X 0.45	20B0025-135	.172	.157		.135	.159	.153
6-32	20B0632-250	M3 X 0.5	20B0030-250	.219	.190	.250		.206	.185
		M3.5 X 0.6	20B0035-250	.219	.190	.250		.206	.185
6-32	20B0632-150	M3 X 0.5	20B0030-150	.219	.203		.150	.206	.199
		M3.5 X 0.6	20B0035-150	.219	.203		.150	.206	.199
8-32	20B0832-312	M4 X 0.7	20B0040-312	.250	.213	.312		.234	.208
8-32	20B0832-185	M4 X 0.7	20B0040-185	.250	.230		.185	.234	.226
10-24	20B1024-375	M5 X 0.8	20B0050-375	.297	.251	.375		.277	.246
10-24	20B1024-225	M5 X 0.8	20B0050-225	.297	.272		.225	.277	.267
10-32	20B1032-375			.297	.251	.375		.277	.246
10-32	20B1032-225			.297	.272		.225	.277	.267
1/4-20	20B2520-500	M6 X 1	20B0060-500	.375	.332	.500		.363	.321
1/4-20	20B2520-300	M6 X 1	20B0060-300	.375	.354		.300	.363	.349
5/16-18	20B3118-562	M8 X 1.25	20B0080-562	.469	.406	.562		.448	.401
5/16-18	20B3118-335	M8 X 1.25	20B0080-335	.469	.439		.335	.448	.431
3/8-16	20B3716-625	M10 X 1.5	20B0100-625	.563	.493	.625		.540	.486



When installing inserts into a boss, the minimum diameter "G" of the boss should be at least 1.5 times the diameter of the insert.

The basic design of these inserts can be applied to a variety of "special" components intended for installation into plastic molded parts, thereby offering the Design Engineer greater flexibility. Special lengths are available in all thread sizes. Blind or closed ended inserts can be manufactured to customer specifications. Thread sizes and thread pitches not listed are also available. Plating and color-coating to any commercial finish can be provided according to customer requirements.

SERIES 30 *Blind-end mold-in inserts*

- High Pull-Out Torque-Out resistance
- No installation equipment required
- Can be installed into thermoplastics and thermosets

INCH SIZES		METRIC SIZES		LENGTH/MIN. THREAD DEPTH					DIAMETER
INTERNAL THREAD SIZE	PART NUMBER	INTERNAL THREAD SIZE	PART NUMBER	L/T					D
2-56	30B0256-(L)	M2 X 0.25	30B0020-(L)	.156/.080	.219/.140	.250/.170	.312/.210	.344/.250	.156
4-40	30B0440-(L)	M3 X 0.5	30B0030-(L)	.205/.100	.281/.170	.344/.230	.406/.280	.438/.320	.188
6-32	30B0632-(L)	M3.5 X 0.6	30B0035-(L)	.250/.130	.344/.210	.406/.280	.469/.340	.531/.390	.219
8-32	30B0832-(L)	M4 X 0.7	30B0040-(L)	.250/.130	.344/.210	.406/.280	.469/.340	.531/.390	.250
10-32	30B1032-(L)	M5 X 0.8	30B0050-(L)	.281/.155	.428/.240	.531/.300	.531/.340	.531/.400	.281
1/4-20	30B2520-(L)	M6 X 1	30B0060-(L)	.344/.200	.531/.250	.625/.450	.719/.540	.819/.640	.344
5/16-18	30B3128-(L)	M8 X 1.25	30B0080-(L)	.438/.240	.594/.330	.719/.490	.811/.550	.949/.720	.438
3/8-16	30B3716-(L)	M10 X 1.5	30B0100-(L)	.500/.270	.688/.430	.812/.550	.935/.660	1.000/.760	.500
				4	6	8	10	12	
				Approximate number of threads					

* The blind inserts come in various lengths and thread depths.
Please contact us for the length that best suits your application.
Thru-threaded inserts and plain posts are also available.

The Series 30 insert is designed to be placed on core pins during the molding cycle. The blind end prevents plastic from entering into the threads and mating screws from “bottoming out” in the plastic material. The diamond knurl configuration provides exceptional resistance to torque-out and pull-out loads. Parts may also be potted into an existing hole with the use of an epoxy.

Part no. example – 30B0440-344

