

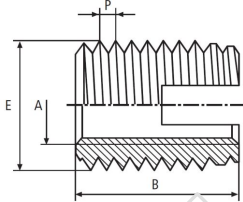


XINXIANG BROTHER MACHINERY CO.,LTD

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Address:No.173 JIANSHE RD XinXiang City Henan P.R.China

Type 302		The threaded insert with cutting slot is a self-tapping fastener for the creation of wear-free, vibration resistant screw joints with high loading capacity in materials with low shearing strength.				
is suitable for installation in the following materials:						
<ul style="list-style-type: none"> - Light alloys - Cast iron,brass,bronze NF metals - Plastics, laminates - Hardwoods 						
Type 302 Metric	302 Length	External Thread	Referent Drilling Diameter			Drilling
			Plastics	Aluminum Alloy	Casting Iron	Minimum Depth
M2.5-0.45	6	M4.5-0.5	4.0-4.1	4.1-4.2	4.2-4.3	5
M3-0.5	6	M5-0.5	4.5-4.6	4.6-4.7	4.7-4.8	8
M4-0.7	8	M6.5-0.75	5.8-5.9	6.0-6.1	6.1-6.2	10
M5-0.8	10	M8-1.0	7.1-7.2	7.3-7.5	7.5-7.6	13
M6a-1.0	12	M9-1.0	8.1-8.2	8.3-8.5	8.5-8.6	15
M6-1.0	14	M10-1.5	9.0-9.2	9.2-9.3	9.3-9.4	17
M8-1.25	15	M12-1.5	10.6-10.8	11-11.2	11.2-11.4	18
M10-1.5	18	M14-1.5	12.6-12.8	13.0-13.3	13.2-13.4	22
M12-1.75	22	M16-1.5	14.6-14.8	15.0-15.3	15.2-15.4	26
M14-2.0	24	M18-1.5	16.6-16.8	17.0-17.3	17.2-17.5	28
M16-2.0	22	M20-1.5	18.6-18.8	19.0-19.3	19.2-19.5	27
M18-2.5	24	M22-1.5	20.6-20.8	21.0-21.3	21.2-21.5	29
M20-2.5	27	M26-1.5	24.6-24.8	25.0-25.3	25.2-25.2	32
Type 302 Inch	Length	External Thread	Referent Drilling Diameter			Drilling
			Plastics	Aluminum Alloy	Casting Iron	Minimum Depth
U#2-56	6	M4.5-0.5	4.0-4.1	4.1-4.2	4.2-4.3	8
U#4-40	6	M5-0.5	4.5-4.6	4.6-4.7	4.7-4.8	8
U#6-32	8	M6-0.75	5.3-5.4	5.5-5.6	5.6-5.7	10
U#8-32	8	M6.5-0.75	5.8-5.9	6.0-6.1	6.1-6.2	10
U#10-24	10	M8-1.0	7.1-7.2	7.3-7.5	7.5-7.6	13
U1/4-20	14	M10-1.5	9.0-9.2	9.2-9.3	9.3-9.4	17
U5/16-18	15	M12-1.5	10.6-10.8	11-11.2	11.2-11.4	18
U3/8-16	18	M14-1.5	12.6-12.8	13.0-13.3	13.2-13.4	22
U7/6-14	16	M16-1.5	14.6-14.8	15.0-15.3	15.2-15.4	26
U1/2-13	24	M18-1.5	16.6-16.8	17.0-17.3	17.2-17.5	28
U5/8-11	22	M20-1.5	18.6-18.8	19.0-19.3	19.2-19.5	27
Material: SUS303、SUS316、Case-hardened steel, zinc-plated, yellow chromated						



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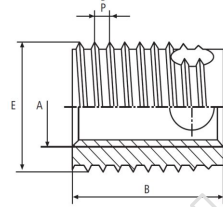
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Type 307&308	Threaded insert with cutting bores is a self-tapping fastener for the creation of wear-free,vibration resistant screw joints with high loading capacity in materials with low shearing strength.
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is suitable for installation in the following materials:

- Aluminium and aluminium alloys
- Magnesium alloys
- Duroplastics, thermoplastics

(with the exception of rubbersoft thermoplastics < 100 Shore A)



Type 307		307	External	Referent Drilling Diameter		Drilling
Metric	Inch	Length	Thread	Aluminum Alloy	Casting Iron	Minimum Depth
M3-0.5	U#4-40	4	M5-0.6	4.6-4.7	4.7-4.8	6
M4-0.7	U#8-32	6	M5.5-0.8	6.0-6.1	6.1-6.2	8
M5-0.8	U#10-24	7	M8-1.0	7.4-7.5	7.6-7.7	9
M6-1.0	U1/4-20	9	M10-1.5	9.3-9.4	9.5-9.6	10
M8-1.25	U5/16-18	9	M12-1.5	11.1-11.3	11.3-11.5	11
M10-1.5	U3/8-16	10	M14-1.5	13.1-13.3	13.3-13.5	13
M12-1.75	U7/16-14	12	M16-1.75	15.0-16.2	15.3-15.5	15
M14-2.0	U1/2-13	14	M18-2.0	17.0-17.2	17.3-17.5	17
M16-2.0	U5/8-11	14	M20-2.0	19.0-19.2	19.3-19.5	17

Type 308		308	External	Referent Drilling Diameter		Drilling
Metric	Inch	Length	Thread	Aluminum Alloy	Casting Iron	Minimum Depth
M3-0.5	U#4-40	6	M5-0.6	4.6-4.7	4.7-4.8	8
M4-0.7	U#8-32	8	M6.5-0.8	6.0-6.1	6.1-6.2	10
M5-0.8	U#10-24	10	M8-1.0	7.4-7.5	7.6-7.7	13
M6-1.0	U1/4-20	12	M10-1.5	9.3-9.4	9.5-9.6	15
M8-1.25	U5/16-18	14	M12-1.5	11.1-11.3	11.3-11.5	17
M10-1.5	U3/8-16	18	M14-1.5	13.1-13.3	13.3-13.5	22
M12-1.75	U7/16-14	22	M16-1.75	15.0-16.2	15.3-15.5	26
M14-2.0	U1/2-13	24	M18-2.0	17.0-17.2	17.3-17.5	28
M16-2.0	U5/8-11	24	M20-2.0	19.0-19.2	19.3-19.5	28

Material: SUS303、SUS316、Case-hardened steel, zinc-plated, yellow chromated



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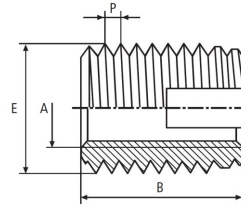
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Type 303	Threaded insert with cutting slot or three cutting bores in a special thin-walled and shortened version. Particularly suitable for plastic with thin residual walls and for light-weight constructions.
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These versions are designed primarily for processing on thread tapping machines, as the pitch of the outside and inside thread is identical. For processing thinwalled inserts in metal, the tensile strength / hardness of the base material is always the determining factor. In critical cases, we recommend lubricating with suitable media in order to prevent fracture of the thin-walled inserts

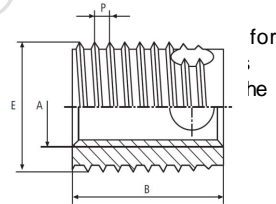


Type 303	303	External Thread	Referent Drilling Diameter	Drilling
Internal Thread	Length			Minimum Depth
M3-0.5	6	M4.5-0.5	4.2-4.3	8
M4-0.7	8	M5-0.7	5.6-5.7	8
M5-0.8	8	M7-0.8	6.6-6.7	10
M6-1.0	10	M8-1.0	7.5-7.6	13
M8-1.25	14	M10-1.25	9.2-9.4	15

Material: SUS303、SUS316、Case-hardened steel, zinc-plated, yellow chromated

Type 347&348	Thin-walled threaded insert self-tapping, with cutting bores
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Threaded insert Ensat with three cutting slots in a special thinwalled or shortened version. Particularly suitable for plastic with thin residual walls light-weight constructions. version is designed primarily for processing on thread tapping, pitches of the external and internal threads are identical.



Type 347	347	External Thread	Referent Drilling Diameter	Drilling
Internal Thread	Length			Minimum Depth
M3-0.5	5	M5-0.6	4.7-4.8	7
M4-0.7	6	M6-0.7	5.6-5.7	8
M5-0.8	7	M6.5-0.8	6.1-6.2	9
M6-1.0	8	M8-1.0	7.5-7.7	10
M8-1.25	9	M10-1.25	9.4-9.6	11
Type 348	348	External Thread	Referent Drilling Diameter	Drilling
Internal Thread	Length			Minimum Depth
M3-0.5	8	M5-0.6	4.7-4.8	10
M4-0.7	8	M6-0.7	5.6-5.7	10
M5-0.8	10	M6.5-0.8	6.1-6.2	13
M6-1.0	12	M8-1.0	7.5-7.7	15
M8-1.25	14	M10-1.25	9.4-9.6	17

Material: SUS303、SUS316、Case-hardened steel, zinc-plated, yellow chromated