

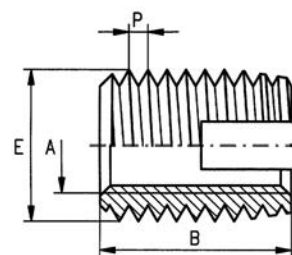


**Threaded insert**  
self-tapping  
metric inner thread

**Ensat®-S**  
Works Standard  
302 0

**Application**

The threaded insert Ensat®-S 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.



Dimensions in mm

Article number	Internal thread	External thread		Length	Guideline values for receiving hole diameter	Minimum borehole depth for blind holes
	A	E	P	B	L	T
302 000 020 ...	M 2	4,5	0,5	6	4,1 to 4,2	8
302 000 025 ...	M 2,5	4,5	0,5	6	4,1 to 4,2	8
302 000 030 ...	M 3	5	0,5	6	4,6 to 4,7	8
302 000 035 ...	M 3,5	6	0,75	8	5,5 to 5,6	10
302 000 040 ...	M 4	6,5	0,75	8	6,0 to 6,1	10
302 000 050 ...	M 5	8	1	10	7,3 to 7,5	13
302 000 061 ...	M 6 (a)	9	1	12	8,3 to 8,5	15
302 000 060 ...	M 6	10	1,5	14	8,9 to 9,2	17
302 000 080 ...	M 8	12	1,5	15	10,9 to 11,2	18
302 000 100 ...	M 10	14	1,5	18	12,9 to 13,2	22
302 000 120 ...	M 12	16	1,5	22	14,9 to 15,2	26
302 000 140 ...	M 14	18	1,5	24	16,9 to 17,2	28
302 000 160 ...	M 16	20	1,5	22	18,9 to 19,2	26
302 000 180 ...	M 18	22	1,5	24	20,9 to 21,2	29
302 000 200 ...	M 20	26	1,5	27	24,9 to 25,2	32
302 000 220 ...	M 22	26	1,5	30	24,9 to 25,2	36
302 000 240 ...	M 24	30	1,5	30	28,9 to 29,2	36
302 000 270 ...	M 27	34	1,5	30	32,9 to 33,2	36
302 000 300 ...	M 30	36	1,5	40	34,9 to 35,2	46

**Example for finding the article number**

Self-tapping threaded insert Ensat®-S to Works Standard 302 0 with internal thread A = M5 made of case-hardened, zinc plated and blue passivated steel: Ensat®-S 302 000 050.110

**Materials**

- Case-hardened steel, zinc plated, blue passivated
- Case-hardened steel, zinc-nickel plated, transparent passivated
- Stainless steel 1.4305
- Brass

- Article-No. (**fourth** group of digits) ... 110
- Article-No. (**fourth** group of digits) ... 143
- Article-No. (**fourth** group of digits) ... 500
- Article-No. (**fourth** group of digits) ... 800

**Other materials, designs (e. g. fine thread) and finishes on request.**

**Tolerance**

ISO 2768-m

**Thread**

Internal thread A: as per ISO 6H  
External thread E: as per KKV standard  
Internal thread UNC, UNF, Whitworth see page 12

Animation

