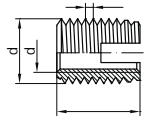




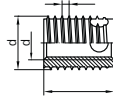
## Product information: Self tapping thread inserts

Note: When inquiring about 5 digit part numbers beginning with 8, please preface the number with R264-. Example: 88111 should be R264-88111.

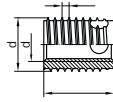
### Dimensions for self tapping Ensats® thread inserts

R264 - article	Dimensions	M 2.5	M 3	M 4	M 5	M 6	M 8
<b>88302</b> <b>Ensats®</b> <b>302</b> 	d <sub>2</sub>	4.5	5	6.5	8	10	12
	P	0.5	0.5	0.75	1	1.5	1.5
	l	6	6	8	10	14	15
	blind hole depth <sub>Min.</sub>	8	8	10	13	17	18
	Dimensions	M 10	M 12	M 14	M 16	M 18	M 20
	d <sub>2</sub>	14	16	18	20	22	26
	P	1.5	1.5	1.5	1.5	1.5	1.5
	l	18	22	24	22	24	27
	blind hole depth <sub>Min.</sub>	22	16	28	27	29	32
	Dimensions	M 22	M 24	M 27	M 30		
	d <sub>2</sub>	26	30	34	36		
	P	1.5	1.5	1.5	1.5		
l	30	30	30	40			
blind hole depth <sub>Min.</sub>	36	36	36	46			

d<sub>1</sub> = nominal size

R264 - article	Dimensions	M 4	M 5	M 6	M 8	M 10	M 12
<b>88307</b> <b>Ensats®</b> <b>307</b> 	d <sub>2</sub>	6.5	8	10	12	14	16
	P	0.8	1	1.25	1.5	1.5	1.75
	l	6	7	8	9	10	12
	blind hole depth <sub>Min.</sub>	8	9	10	11	13	15

d<sub>1</sub> = nominal size

R264 - article	Dimensions	M 4	M 5	M 6	M 8	M 10	M 12
<b>88308</b> <b>Ensats®</b> <b>308</b> 	d <sub>2</sub>	6.5	8	10	12	14	16
	P	0.8	1	1.25	1.5	1.5	1.75
	l	8	10	12	14	18	22
	blind hole depth <sub>Min.</sub>	10	13	15	17	22	26

d<sub>1</sub> = nominal size

### Table 4: Standard values for borehole diameter

Borehole Ø [mm]		R 88302 (Ensats® 302)				R 88307 / R 88308 (Ensats® 307/308)			
Workpieces material	Aluminium alloys R <sub>m</sub> = tensile strength [N/mm <sup>2</sup> ]	R <sub>m</sub> < 250				R <sub>m</sub> < 300			
		R <sub>m</sub> < 300				R <sub>m</sub> < 350			
	Brass, bronze, non-ferrous metal	R <sub>m</sub> < 350				R <sub>m</sub> < 350			
		R <sub>m</sub> > 350				R <sub>m</sub> > 350			
Cast iron HB = brinell hardness	< 150 HB				< 150 HB				
	< 200 HB				< 200 HB				
	> 200 HB				> 200 HB				
Thread flank overlap approx.		60%	50%	40%	30%	80%	70%	60%	50%
Ensats® internal thread	M 2/M 2.5	-	4.1	4.2	4.3	-	-	-	-
	M 3	-	4.6	4.7	4.8	4.6	4.7	4.7	4.8
	M 3.5	5.4	5.5	5.6	5.7	5.5	5.6	5.7	-
	M 4	5.9	6.0	6.1	6.2	6.0	6.1	6.2	-
	M 5	7.2	7.3	7.5	7.6	7.4	7.5	7.6	7.7
	M 6	8.8	9.0	9.2	9.4	9.3	9.4	9.5	9.6
	M 8	10.8	11.0	11.2	11.4	11.1	11.2	11.3	11.5
	M 10	12.8	13.0	13.2	13.4	13.1	13.2	13.3	13.5
	M 12	14.8	15.0	15.2	15.4	15.0	15.1	15.2	15.4
	M 14	16.8	17.0	17.2	17.4	17.0	17.1	17.2	17.4
	M 16	18.8	19.0	19.2	19.4	19.0	19.1	19.2	19.4
	M 18	21.0	21.0	21.2	21.4	-	-	-	-
M 20/M 22	25.0	25.0	25.2	25.4	-	-	-	-	
M 24	29.0	29.2	29.2	29.4	-	-	-	-	
M 27	33.0	33.2	33.2	33.4	-	-	-	-	
M 30	35.0	35.0	35.2	35.4	-	-	-	-	