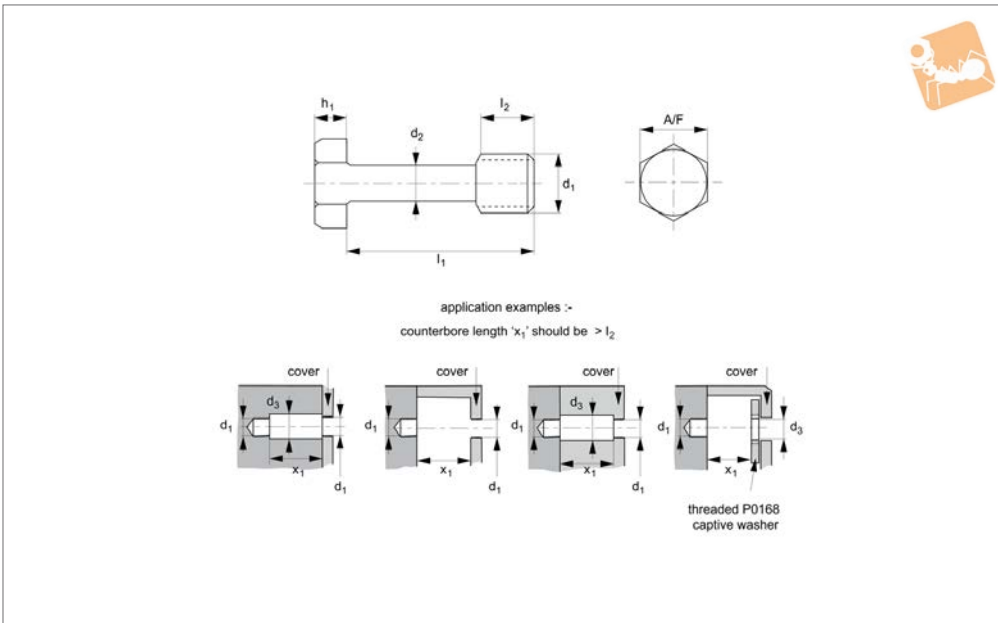




Captive Screws - Hex Bolts

titanium



P0158.Ti

CAPTIVE SCREWS

Material

Titanium grade 2 (tensile strength 345 N/mm²), or grade 5 (tensile strength 900 N/mm²).

Also available on request in steel (anodised, black oxide or zinc plated) stainless steel (AISI 316, 1.440 or AISI 303, 1.4305), brass, aluminium etc.

Technical Notes

Used to comply with the Machinery Direc-

tive 2006/42/EC. Often used with our captive washer (P0168) or retaining flanges (P0169 - for sheet metal applications). The use of our captive washer should be considered when fitted in panels with unthreaded holes.

T5 also available on request.
Replace -T2 with -T5 at the end of part number.

Important Notes

Please note that these screws have a reduced diameter shank and should not be tightened to the recommended torque for an equivalent machine screw of size d₁.

| Order No. | d ₁ | l ₁ ±0.25 | d ₂ ±0.12 | l ₂ ±0.25 | d ₃ min. | h ₁ max. | A/F | Material |
|------------------|----------------|-------------------------|-------------------------|-------------------------|------------------------|------------------------|-----|----------|
| P0158.030-010-T2 | M 3 | 10 | 2.0 | 4.5 | 3.5 | 2.2 | 6 | Grade 2 |
| P0158.030-016-T2 | M 3 | 16 | 2.0 | 4.5 | 3.5 | 2.2 | 6 | Grade 2 |
| P0158.030-020-T2 | M 3 | 20 | 2.0 | 4.5 | 3.5 | 2.2 | 6 | Grade 2 |
| P0158.030-025-T2 | M 3 | 25 | 2.0 | 4.5 | 3.5 | 2.2 | 6 | Grade 2 |
| P0158.030-030-T2 | M 3 | 30 | 2.0 | 4.5 | 3.5 | 2.2 | 6 | Grade 2 |
| P0158.030-040-T2 | M 3 | 40 | 2.0 | 4.5 | 3.5 | 2.2 | 6 | Grade 2 |
| P0158.040-012-T2 | M 4 | 12 | 2.8 | 6.0 | 4.5 | 2.9 | 7 | Grade 2 |
| P0158.040-016-T2 | M 4 | 16 | 2.8 | 6.0 | 4.5 | 2.9 | 7 | Grade 2 |
| P0158.040-020-T2 | M 4 | 20 | 2.8 | 6.0 | 4.5 | 2.9 | 7 | Grade 2 |
| P0158.040-025-T2 | M 4 | 25 | 2.8 | 6.0 | 4.5 | 2.9 | 7 | Grade 2 |
| P0158.040-030-T2 | M 4 | 30 | 2.8 | 8.0 | 4.5 | 2.9 | 7 | Grade 2 |
| P0158.040-035-T2 | M 4 | 35 | 2.8 | 8.0 | 4.5 | 2.9 | 7 | Grade 2 |
| P0158.040-040-T2 | M 4 | 40 | 2.8 | 8.0 | 4.5 | 2.9 | 7 | Grade 2 |
| P0158.040-050-T2 | M 4 | 50 | 2.8 | 8.0 | 4.5 | 2.9 | 7 | Grade 2 |
| P0158.040-060-T2 | M 4 | 60 | 2.8 | 8.0 | 4.5 | 2.9 | 7 | Grade 2 |
| P0158.050-012-T2 | M 5 | 12 | 3.7 | 7.5 | 5.5 | 3.6 | 8 | Grade 2 |
| P0158.050-016-T2 | M 5 | 16 | 3.7 | 7.5 | 5.5 | 3.6 | 8 | Grade 2 |
| P0158.050-020-T2 | M 5 | 20 | 3.7 | 7.5 | 5.5 | 3.6 | 8 | Grade 2 |
| P0158.050-025-T2 | M 5 | 25 | 3.7 | 7.5 | 5.5 | 3.6 | 8 | Grade 2 |
| P0158.050-030-T2 | M 5 | 30 | 3.7 | 10.0 | 5.5 | 3.6 | 8 | Grade 2 |
| P0158.050-035-T2 | M 5 | 35 | 3.7 | 10.0 | 5.5 | 3.6 | 8 | Grade 2 |
| P0158.050-040-T2 | M 5 | 40 | 3.7 | 10.0 | 5.5 | 3.6 | 8 | Grade 2 |
| P0158.050-050-T2 | M 5 | 50 | 3.7 | 10.0 | 5.5 | 3.6 | 8 | Grade 2 |
| P0158.050-060-T2 | M 5 | 60 | 3.7 | 10.0 | 5.5 | 3.6 | 8 | Grade 2 |
| P0158.060-012-T2 | M 6 | 12 | 4.2 | 7.5 | 6.5 | 4.1 | 10 | Grade 2 |
| P0158.060-016-T2 | M 6 | 16 | 4.2 | 7.5 | 6.5 | 4.1 | 10 | Grade 2 |



| Order No. | d ₁ | l ₁ ±0.25 | d ₂ ±0.12 | l ₂ ±0.25 | d ₃ min. | h ₁ max. | A/F | Material |
|------------------|----------------|-------------------------|-------------------------|-------------------------|------------------------|------------------------|-----|----------|
| P0158.060-020-T2 | M 6 | 20 | 4.2 | 7.5 | 6.5 | 4.1 | 10 | Grade 2 |
| P0158.060-025-T2 | M 6 | 25 | 4.2 | 7.5 | 6.5 | 4.1 | 10 | Grade 2 |
| P0158.060-030-T2 | M 6 | 30 | 4.2 | 7.5 | 6.5 | 4.1 | 10 | Grade 2 |
| P0158.060-035-T2 | M 6 | 35 | 4.2 | 7.5 | 6.5 | 4.1 | 10 | Grade 2 |
| P0158.060-040-T2 | M 6 | 40 | 4.2 | 7.5 | 6.5 | 4.1 | 10 | Grade 2 |
| P0158.060-050-T2 | M 6 | 50 | 4.2 | 7.5 | 6.5 | 4.1 | 10 | Grade 2 |
| P0158.060-060-T2 | M 6 | 60 | 4.2 | 7.5 | 6.5 | 4.1 | 10 | Grade 2 |
| P0158.060-080-T2 | M 6 | 80 | 4.2 | 7.5 | 6.5 | 4.1 | 10 | Grade 2 |
| P0158.080-016-T2 | M 8 | 16 | 6.0 | 10.0 | 8.5 | 5.3 | 13 | Grade 2 |
| P0158.080-020-T2 | M 8 | 20 | 6.0 | 10.0 | 8.5 | 5.3 | 13 | Grade 2 |
| P0158.080-025-T2 | M 8 | 25 | 6.0 | 10.0 | 8.5 | 5.3 | 13 | Grade 2 |
| P0158.080-030-T2 | M 8 | 30 | 6.0 | 10.0 | 8.5 | 5.3 | 13 | Grade 2 |
| P0158.080-035-T2 | M 8 | 35 | 6.0 | 10.0 | 8.5 | 5.3 | 13 | Grade 2 |
| P0158.080-040-T2 | M 8 | 40 | 6.0 | 10.0 | 8.5 | 5.3 | 13 | Grade 2 |
| P0158.080-050-T2 | M 8 | 50 | 6.0 | 10.0 | 8.5 | 5.3 | 13 | Grade 2 |
| P0158.080-060-T2 | M 8 | 60 | 6.0 | 10.0 | 8.5 | 5.3 | 13 | Grade 2 |
| P0158.080-080-T2 | M 8 | 80 | 6.0 | 10.0 | 8.5 | 5.3 | 13 | Grade 2 |
| P0158.100-020-T2 | M10 | 20 | 7.5 | 12.5 | 10.6 | 6.4 | 17 | Grade 2 |
| P0158.100-025-T2 | M10 | 25 | 7.5 | 12.5 | 10.6 | 6.4 | 17 | Grade 2 |
| P0158.100-030-T2 | M10 | 30 | 7.5 | 12.5 | 10.6 | 6.4 | 17 | Grade 2 |
| P0158.100-035-T2 | M10 | 35 | 7.5 | 12.0 | 10.6 | 6.4 | 17 | Grade 2 |
| P0158.100-040-T2 | M10 | 40 | 7.5 | 12.5 | 10.6 | 6.4 | 17 | Grade 2 |
| P0158.100-050-T2 | M10 | 50 | 7.5 | 12.5 | 10.6 | 6.4 | 17 | Grade 2 |
| P0158.100-060-T2 | M10 | 60 | 7.5 | 12.5 | 10.6 | 6.4 | 17 | Grade 2 |
| P0158.100-080-T2 | M10 | 80 | 7.5 | 12.5 | 10.6 | 6.4 | 17 | Grade 2 |
| P0158.120-025-T2 | M12 | 25 | 8.0 | 15.0 | 13.2 | 7.5 | 19 | Grade 2 |
| P0158.120-030-T2 | M12 | 30 | 8.0 | 15.0 | 13.2 | 7.5 | 19 | Grade 2 |
| P0158.120-035-T2 | M12 | 35 | 8.0 | 15.0 | 13.2 | 7.5 | 19 | Grade 2 |
| P0158.120-040-T2 | M12 | 40 | 8.0 | 15.0 | 13.2 | 7.5 | 19 | Grade 2 |
| P0158.120-050-T2 | M12 | 50 | 8.0 | 15.0 | 13.2 | 7.5 | 19 | Grade 2 |
| P0158.120-060-T2 | M12 | 60 | 8.0 | 15.0 | 13.2 | 7.5 | 19 | Grade 2 |
| P0158.120-080-T2 | M12 | 80 | 8.0 | 15.0 | 13.2 | 7.5 | 19 | Grade 2 |
| P0158.030-010-T5 | M 3 | 10 | 2.0 | 4.5 | 3.5 | 2.2 | 6 | Grade 5 |
| P0158.030-016-T5 | M 3 | 16 | 2.0 | 4.5 | 3.5 | 2.2 | 6 | Grade 5 |
| P0158.030-020-T5 | M 3 | 20 | 2.0 | 4.5 | 3.5 | 2.2 | 6 | Grade 5 |
| P0158.030-025-T5 | M 3 | 25 | 2.0 | 4.5 | 3.5 | 2.2 | 6 | Grade 5 |
| P0158.030-030-T5 | M 3 | 30 | 2.0 | 4.5 | 3.5 | 2.2 | 6 | Grade 5 |
| P0158.030-040-T5 | M 3 | 40 | 2.0 | 4.5 | 3.5 | 2.2 | 6 | Grade 5 |
| P0158.040-012-T5 | M 4 | 12 | 2.8 | 6.0 | 4.5 | 2.9 | 7 | Grade 5 |
| P0158.040-016-T5 | M 4 | 16 | 2.8 | 6.0 | 4.5 | 2.9 | 7 | Grade 5 |
| P0158.040-020-T5 | M 4 | 20 | 2.8 | 6.0 | 4.5 | 2.9 | 7 | Grade 5 |
| P0158.040-025-T5 | M 4 | 25 | 2.8 | 6.0 | 4.5 | 2.9 | 7 | Grade 5 |
| P0158.040-030-T5 | M 4 | 30 | 2.8 | 8.0 | 4.5 | 2.9 | 7 | Grade 5 |
| P0158.040-035-T5 | M 4 | 35 | 2.8 | 8.0 | 4.5 | 2.9 | 7 | Grade 5 |
| P0158.040-040-T5 | M 4 | 40 | 2.8 | 8.0 | 4.5 | 2.9 | 7 | Grade 5 |
| P0158.040-050-T5 | M 4 | 50 | 2.8 | 8.0 | 4.5 | 2.9 | 7 | Grade 5 |
| P0158.040-060-T5 | M 4 | 60 | 2.8 | 8.0 | 4.5 | 2.9 | 7 | Grade 5 |
| P0158.050-012-T5 | M 5 | 12 | 3.7 | 7.5 | 5.5 | 3.6 | 8 | Grade 5 |
| P0158.050-016-T5 | M 5 | 16 | 3.7 | 7.5 | 5.5 | 3.6 | 8 | Grade 5 |
| P0158.050-020-T5 | M 5 | 20 | 3.7 | 7.5 | 5.5 | 3.6 | 8 | Grade 5 |
| P0158.050-025-T5 | M 5 | 25 | 3.7 | 7.5 | 5.5 | 3.6 | 8 | Grade 5 |
| P0158.050-030-T5 | M 5 | 30 | 3.7 | 10.0 | 5.5 | 3.6 | 8 | Grade 5 |
| P0158.050-035-T5 | M 5 | 35 | 3.7 | 10.0 | 5.5 | 3.6 | 8 | Grade 5 |
| P0158.050-040-T5 | M 5 | 40 | 3.7 | 10.0 | 5.5 | 3.6 | 8 | Grade 5 |
| P0158.050-050-T5 | M 5 | 50 | 3.7 | 10.0 | 5.5 | 3.6 | 8 | Grade 5 |
| P0158.050-060-T5 | M 5 | 60 | 3.7 | 10.0 | 5.5 | 3.6 | 8 | Grade 5 |
| P0158.060-012-T5 | M 6 | 12 | 4.2 | 7.5 | 6.5 | 4.1 | 10 | Grade 5 |
| P0158.060-016-T5 | M 6 | 16 | 4.2 | 7.5 | 6.5 | 4.1 | 10 | Grade 5 |
| P0158.060-020-T5 | M 6 | 20 | 4.2 | 7.5 | 6.5 | 4.1 | 10 | Grade 5 |
| P0158.060-025-T5 | M 6 | 25 | 4.2 | 7.5 | 6.5 | 4.1 | 10 | Grade 5 |
| P0158.060-030-T5 | M 6 | 30 | 4.2 | 7.5 | 6.5 | 4.1 | 10 | Grade 5 |
| P0158.060-035-T5 | M 6 | 35 | 4.2 | 7.5 | 6.5 | 4.1 | 10 | Grade 5 |
| P0158.060-040-T5 | M 6 | 40 | 4.2 | 7.5 | 6.5 | 4.1 | 10 | Grade 5 |
| P0158.060-050-T5 | M 6 | 50 | 4.2 | 7.5 | 6.5 | 4.1 | 10 | Grade 5 |
| P0158.060-060-T5 | M 6 | 60 | 4.2 | 7.5 | 6.5 | 4.1 | 10 | Grade 5 |
| P0158.060-080-T5 | M 6 | 80 | 4.2 | 7.5 | 6.5 | 4.1 | 10 | Grade 5 |
| P0158.080-016-T5 | M 8 | 16 | 6.0 | 10.0 | 8.5 | 5.3 | 13 | Grade 5 |
| P0158.080-020-T5 | M 8 | 20 | 6.0 | 10.0 | 8.5 | 5.3 | 13 | Grade 5 |



Captive Screws - Hex Bolts

titanium

Captive Screws



| Order No. | d ₁ | l ₁ ±0.25 | d ₂ ±0.12 | l ₂ ±0.25 | d ₃ min. | h ₁ max. | A/F | Material |
|------------------|----------------|-------------------------|-------------------------|-------------------------|------------------------|------------------------|-----|----------|
| P0158.080-025-T5 | M 8 | 25 | 6.0 | 10.0 | 8.5 | 5.3 | 13 | Grade 5 |
| P0158.080-030-T5 | M 8 | 30 | 6.0 | 10.0 | 8.5 | 5.3 | 13 | Grade 5 |
| P0158.080-035-T5 | M 8 | 35 | 6.0 | 10.0 | 8.5 | 5.3 | 13 | Grade 5 |
| P0158.080-040-T5 | M 8 | 40 | 6.0 | 10.0 | 8.5 | 5.3 | 13 | Grade 5 |
| P0158.080-050-T5 | M 8 | 50 | 6.0 | 10.0 | 8.5 | 5.3 | 13 | Grade 5 |
| P0158.080-060-T5 | M 8 | 60 | 6.0 | 10.0 | 8.5 | 5.3 | 13 | Grade 5 |
| P0158.080-080-T5 | M 8 | 80 | 6.0 | 10.0 | 8.5 | 5.3 | 13 | Grade 5 |
| P0158.100-020-T5 | M10 | 20 | 7.5 | 12.5 | 10.6 | 6.4 | 17 | Grade 5 |
| P0158.100-025-T5 | M10 | 25 | 7.5 | 12.5 | 10.6 | 6.4 | 17 | Grade 5 |
| P0158.100-030-T5 | M10 | 30 | 7.5 | 12.5 | 10.6 | 6.4 | 17 | Grade 5 |
| P0158.100-035-T5 | M10 | 35 | 7.5 | 12.0 | 10.6 | 6.4 | 17 | Grade 5 |
| P0158.100-040-T5 | M10 | 40 | 7.5 | 12.5 | 10.6 | 6.4 | 17 | Grade 5 |
| P0158.100-050-T5 | M10 | 50 | 7.5 | 12.5 | 10.6 | 6.4 | 17 | Grade 5 |
| P0158.100-060-T5 | M10 | 60 | 7.5 | 12.5 | 10.6 | 6.4 | 17 | Grade 5 |
| P0158.100-080-T5 | M10 | 80 | 7.5 | 12.5 | 10.6 | 6.4 | 17 | Grade 5 |
| P0158.120-025-T5 | M12 | 25 | 8.0 | 15.0 | 13.2 | 7.5 | 19 | Grade 5 |
| P0158.120-030-T5 | M12 | 30 | 8.0 | 15.0 | 13.2 | 7.5 | 19 | Grade 5 |
| P0158.120-035-T5 | M12 | 35 | 8.0 | 15.0 | 13.2 | 7.5 | 19 | Grade 5 |
| P0158.120-040-T5 | M12 | 40 | 8.0 | 15.0 | 13.2 | 7.5 | 19 | Grade 5 |
| P0158.120-050-T5 | M12 | 50 | 8.0 | 15.0 | 13.2 | 7.5 | 19 | Grade 5 |
| P0158.120-060-T5 | M12 | 60 | 8.0 | 15.0 | 13.2 | 7.5 | 19 | Grade 5 |
| P0158.120-080-T5 | M12 | 80 | 8.0 | 15.0 | 13.2 | 7.5 | 19 | Grade 5 |

CAPTIVE SCREWS