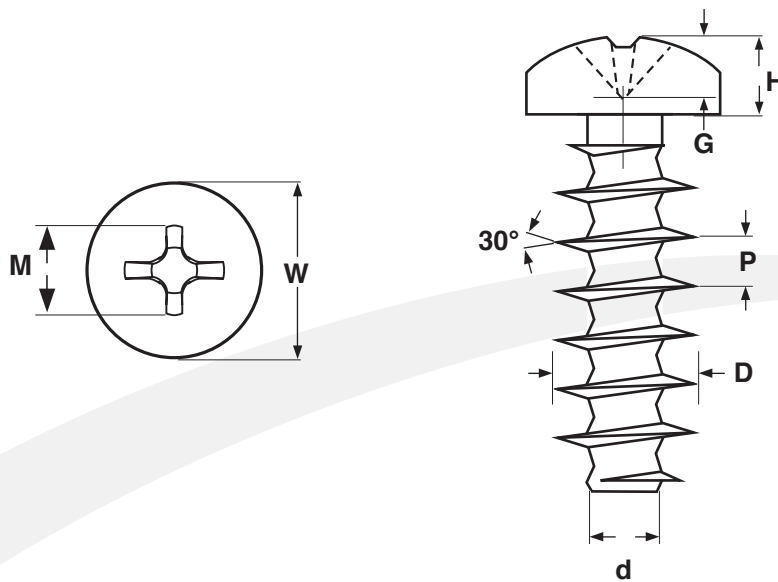


Type-PT® Alternative
Pan Phillips

THREAD FORMING SCREWS



METRIC - TYPE PT®-ALTERNATIVE THREAD FORMING SCREWS, PAN PHILLIPS

| Screw Size | P | D | | d | W | | H | | M | G | | Drive Size |
|---------------------|-------------------|-----------------------|------|----------------------|-----------------|------|--------|---------------------|-------------------|-------------------|------|------------|
| | Thread Dimensions | | | | Head Dimensions | | | | Recess Dimensions | | | |
| | Thread Pitch | External Thread Diam. | | Thread Core | Diameter | | Height | | Diameter | Gauge Penetration | | |
| | | Max | Min | Ref | Max | Min | Max | Min | Max | Max | Min | |
| M2.2 | 0.98 | 2.34 | 2.20 | 1.25 | 3.90 | 3.62 | 1.60 | 1.40 | 2.40 | 1.21 | 0.85 | 1 |
| M2.5 | 1.12 | 2.64 | 2.50 | 1.40 | 4.40 | 4.12 | 1.80 | 1.60 | 2.60 | 1.42 | 1.05 | 1 |
| M3 | 1.34 | 3.14 | 3.00 | 1.66 | 5.30 | 5.02 | 2.10 | 1.90 | 2.90 | 1.65 | 1.24 | 1 |
| M3.5 | 1.57 | 3.68 | 3.50 | 1.91 | 6.10 | 5.82 | 2.60 | 2.40 | 4.0 | 1.86 | 1.23 | 2 |
| M4 | 1.79 | 4.18 | 4.00 | 2.17 | 7.00 | 6.72 | 2.80 | 2.60 | 4.30 | 2.14 | 1.51 | 2 |
| Tolerance on Length | | | | 3 ~ 6mm: ± 0.30 mm | | | | 7 ~ 10mm: ± 0.40 mm | | | | |
| | | | | 11 ~ 30mm: ± 0.50 mm | | | | 31 ~ 80mm: ±0.65 mm | | | | |

| | | |
|---------------------------------|--|---|
| Description | A spaced thread fastener with a head that has a gently rounded top, cylindrical sides and a flat bearing surface that is 90° to the screw's shank. When compared to a Plastite®-alternative thread rolling screw, the PT®-alternative threads are wider and have a sharper angle. Furthermore, the core of the shank has a reduced diameter between each consecutive set of threads. The point opposite the head is blunt. | |
| Applications/ Advantages | Designed to form its own thread in thermoplastic materials. The 30° thread angle reduces the outward expansion of the material being displaced. The recessed design of the thread root enables more material to flow into the area between threads. The depth of the thread pattern increases the fastener's load carrying properties while resisting vibrations, thus resisting loosening. | |
| Material | <p><i>Steel</i></p> <p>Diameters M3 & smaller: Case-Hardened C1022 Steel Diameters M3.5 and larger: Through-hardened C1022 Steel</p> | <p><i>Stainless</i></p> <p>A2 Stainless</p> |
| Core Hardness | HV 270 - 390 | - |
| Surface Hardness | HV 450 min. | - |