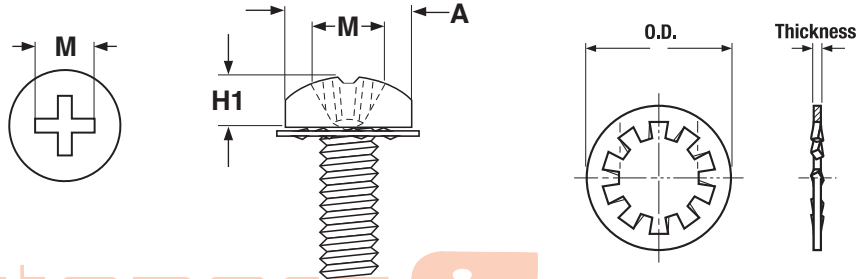


METRIC FASTENERS

SEMS

ISO 7045 Pan Phillips Internal Tooth L/W



METRIC - ISO 7045 PAN PHIL INTERNAL TOOTH SEMS

ISO 7045*

| Machine Screw Dimensions | | Internal Tooth Lockwasher Dimensions | | | | | | Phillips Driver Size | | | |
|--------------------------|--------------|--------------------------------------|------|--------------------|------|-----|-------|----------------------|------------------|------|-----|
| Nominal Size | Thread Pitch | A | | H1 | | M | O.D. | | Washer Thickness | | |
| | | Max | Min | Max | Min | Ref | Max | | Min | Max | Min |
| M3 | 0.5 | 5.6 | 5.3 | 2.40 | 2.26 | 3 | 7.35 | 6.85 | 0.45 | 0.30 | 1 |
| M4 | 0.7 | 8.00 | 7.64 | 3.10 | 2.92 | 4.4 | 8.75 | 8.25 | 0.60 | 0.45 | 2 |
| M5 | 0.8 | 9.50 | 9.14 | 3.70 | 3.52 | 4.9 | 10.50 | 10.00 | 0.65 | 0.50 | 2 |
| Tolerance on Length | | | | over 3mm to 6mm | | | | ± 0.24 | | | |
| | | | | over 6mm to 10mm | | | | ± 0.29 | | | |
| | | | | over 10mm to 18 mm | | | | ± 0.35 | | | |
| | | | | over 20mm to 30mm | | | | ± 0.42 | | | |

*Washers to ASME B18.13.1M

| | | | | |
|--------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------|---------------------------------------------|----------------------------------|
| Description | A cross-recessed, pan head machine screw with a free-spinning, internal tooth captive lockwasher. | | | |
| Applications/Advantages | The washer/screw assembly makes this a locking screw with the washer providing the locking action. Machine pre-assembly provides cost savings to the end user. The internal tooth variety is recommended when it is desirable to hide the teeth for appearance or to prevent snagging. | | | |
| Component | <i>Screw</i> | <i>Internal Tooth Lockwasher</i> | <i>Screw</i> | <i>Internal Tooth Lockwasher</i> |
| Material | Class 4.8 Steel | | Stainless | |
| | C1008 or equivalent carbon steel | C1050 Carbon Steel | A2 Stainless | A2 Stainless |
| Hardness | Rockwell B 67 minimum | 410 - 490 HV 5 | - | - |
| Tensile Strength | 60,900 psi. | - | 72,500 - 101,500 psi. | - |
| Plating | Sems are available in a clear zinc finish and baked after plating. | | Sems are provided with no additional finish | |