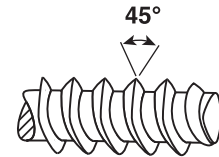
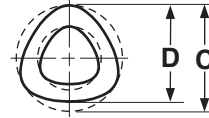
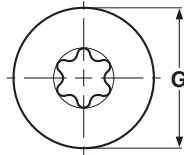
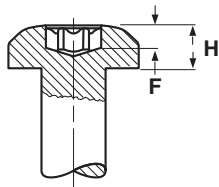


# THREAD FORMING SCREWS

Pan Hd Six-Lobe Plastite® /  
Plas-Fix®-45 Alternatives



## PAN SIX-LOBE PLASTITE® PLAS-FIX® 45° ALTERNATIVE THREAD ROLLING SCREWS

| Nominal<br>Screw<br>Size | G             |      | T           |      | F               | Driver<br>Size | C                                       |                                 | D                             |                                | Minimum<br>Out-Of-<br>Round | Recommended<br>Pilot Hole<br>Sizes |      |
|--------------------------|---------------|------|-------------|------|-----------------|----------------|-----------------------------------------|---------------------------------|-------------------------------|--------------------------------|-----------------------------|------------------------------------|------|
|                          | Head Diameter |      | Head Height |      | Recess<br>Depth |                | Diameter of<br>Circumscribing<br>Circle |                                 | Measurements<br>Across Center |                                |                             | Min                                | Max  |
|                          | Max           | Min  | Max         | Min  | Min             |                | Max                                     | Min                             | Max                           | Min                            |                             | Max                                |      |
| M2.5                     | 4.00          | 3.70 | 1.60        | 1.46 | 0.64            | T6             | 2.55                                    | 2.41                            | 2.5                           | 2.37                           | .05                         | 1.85                               | 2.05 |
| M3                       | 5.00          | 4.70 | 1.95        | 1.81 | 0.76            | T8             | 3.05                                    | 2.92                            | 3                             | 2.87                           | .05                         | 2.30                               | 2.50 |
| M3.5                     | 6.00          | 5.70 | 2.30        | 2.16 | 0.89            | T10            | 3.55                                    | 3.42                            | 3.5                           | 3.34                           | .08                         | 2.75                               | 3.00 |
| M4                       | 7.00          | 6.61 | 2.45        | 2.31 | 1.14            | T15            | 4.06                                    | 3.89                            | 4                             | 3.79                           | .10                         | 3.20                               | 3.45 |
| M5                       | 8.00          | 7.64 | 2.80        | 2.66 | 1.40            | T20            | 5.06                                    | 4.89                            | 5                             | 4.79                           | .10                         | 3.70                               | 4.10 |
|                          |               |      |             |      |                 |                |                                         |                                 |                               |                                |                             |                                    |      |
| Tolerance on Length      |               |      |             |      |                 |                |                                         | M2 thru M5, up to<br>20mm: ±0.8 |                               | M2 thru M5, Over 20mm:<br>±1.3 |                             |                                    |      |

|                                            |                                                                                                                                                                                                                                            |
|--------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>Description</b>                         | Trilobular thread-rolling screw with extra wide spacing between 45° profile threads and a single lead thread that extends from the blunt point. Head is gently rounded with a hexlobular recess for driving the screw.                     |
| <b>Applications/<br/>Advantages</b>        | Thermoplastics, engineering resins and certain thermosets. Sharper thread profile increases holding strength while reducing material displacement. Drive and strip torques are higher, reducing the need for inserts or reinforcing clips. |
| <b>Material</b>                            | <b>Steel</b>                                                                                                                                                                                                                               |
|                                            | AISI 1022 steel                                                                                                                                                                                                                            |
| <b>Heat Treatment</b>                      | Screws shall be quenched in liquid and then tempered by reheating to 650°F minimum.                                                                                                                                                        |
| <b>Case Hardness</b>                       | HV 450 minimum                                                                                                                                                                                                                             |
| <b>Case Depth</b>                          | <b>M2 thru M3.5 diameters:</b> 0.05 - 0.18 mm<br><b>M4 &amp; M5 diameters:</b> 0.10 - 0.25 mm                                                                                                                                              |
| <b>Core Hardness<br/>(after tempering)</b> | HV 250 - 380                                                                                                                                                                                                                               |
| <b>Plating</b>                             | Screws have a RoHS-compliant zinc finish.                                                                                                                                                                                                  |

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