



DELTA PT® DS

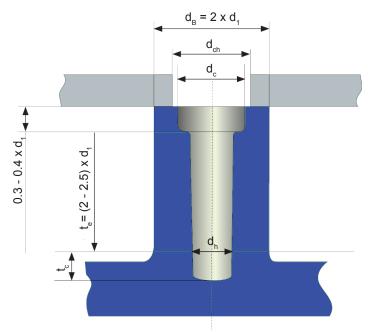
Some designs require the use of thermosets, which pose special demands on the direct assembly because of their hardness and brittleness.

In response to these challenging conditions, the DELTA PT® DS screw was developed. Special grooves which help to cut the female thread have been added to the thread geometry of the established DELTA PT®. These grooves are especially distinct at the tip of the thread and taper off towards the screw head. This thread forming zone enables a low tightening torque while maintaining high stripping torque.

Boss Design Guide for DELTA PT® DS

Advantages of DELTA PT® DS compared to screws with machine milled cutting edge:

- Smaller hole depth possible because less chip space is required compared to screws with a traditional cutting edge.
- Cost saving potential through standardization – only one screw for thermosets and thermoplastics.
- Removal of costly inserts possible due to the multiple reusability feature provided by the thread design.
- Wider production range regarding screw diameter and length.
- Larger thread engagement area for the same insertion depth.



 $d_h = Hole - \emptyset = 0.83 - 0.90 \times d_1$

d = Nominal Ø of the screw

 $d = Counterbore\ diameter = d_1 + 0.2\ mm$

 t_{c}^{c} = Chip space = 0.8 - 1.2 x d,