

## EJOT DELTAsert® P

The alternative insert solution made of plastic

For the realisation of a stable fastening point the material strength of components made of thermo-plastics is often insufficient. Even optimisations such as a larger screw diameter, wall thickness increase or increased installation depth are only partially suited to solve this problem. For these difficult conditions EJOT has developed the innovative plastic insert solution **DELTAsert® P** which, combined with the EJOT DELTA PT® screw, facilitates process reliable fastening.

### Reinforced fixing points

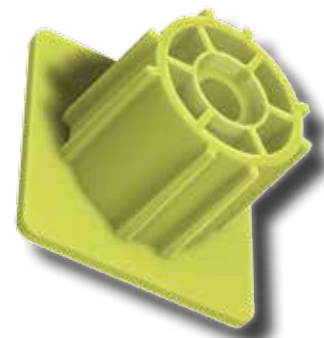
With a screw boss (see image to the right) a boss profile can be realised, in which the DELTAsert® P can be reliably fastened, even with only minimal installation space. Despite the deficit of a soft base material, use of the recommended DELTA PT® screw ensures a sturdy and durable fastening solution. The EJOT DELTAsert® P, made of the thermoplastic material PPA GF50 with 50% fibre glass content, is mainly used for fastening soft thermoplastics such as PP, PE, PA or ABS.

### Advantages DELTAsert® P + DELTA PT® :

- Easy installation
- Weight reduction
- Strengthened fixing point
- Low boss height possible
- No metal inserts required

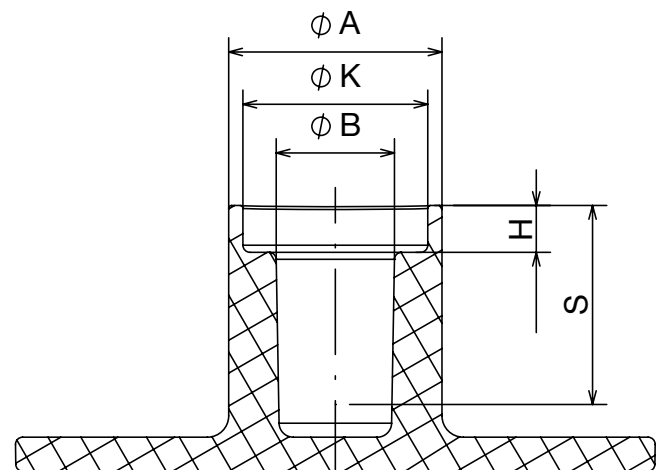


DELTAsert® P



Example Boss Design

### Boss recommendation:



A =  $b_o$  = external boss- $\varnothing$  (1,6 to 1,8 x  $d_1$ )  
 B =  $d_p$  = pre-hole- $\varnothing$  (0,87 to 0,88 x  $d_1$ )  
 H = collar height = 3 mm  
 K = collar- $\varnothing$  = 1,4 x  $d_1$   
 S = DELTAsert® P length = 14 mm

$d_1$  = Nominal- $\varnothing$   
 DELTAsert® P 45 & 50 =  $d_1$  = 10 mm  
 DELTAsert® P 60 =  $d_1$  = 12 mm

### Installation specification at 300-500 rpm for PP:

DELTAsert® P / DELTA PT® size	Hole diameter in the component [mm]	Tightening torque DELTAsert® P	Tightening torque DELTA PT®
45	8.7 - 8.8	1.8 Nm	≈ 2.6 Nm
50	8.7 - 8.8	1.8 Nm	3.8 Nm
60	10.5 - 10.6	≈ 2.2 Nm	≈ 4.6 Nm

### Installation:

