

# EJOT DELTA PT® Fastener 适应于热塑性和热固性塑料的自攻螺钉

EJOT DELTA PT®



## EJOT DELTA PT® 的优点

- ◆ 优化的牙型角，保证最小径向分力
- ◆ 高夹紧力
- ◆ 高抗拉强度和扭力强度
- ◆ 多次安装性能稳定
- ◆ 高抗振性
- ◆ DELTA PT® prognosis支持系统工程设计
- ◆ 连接寿命长
- ◆ 通过使用调质钢，氢脆现象降至最低

## Benefits of the EJOT DELTA PT® Features

- ◆ *Minimal radial tension due to optimized flank angle*
- ◆ *High clamp loads*
- ◆ *High tensile and torsion strength*
- ◆ *Increased cycle stress stability*
- ◆ *High strength under vibration*
- ◆ *DELTA PT® prognosis programme allows a clamp load oriented engineering*
- ◆ *Long connect lifetime of the joint*
- ◆ *Minimization of hydrogen embrittlement by use of throughhardened steel [PT10]*

## 应用案例 Applications Example



**EJOT®** The Quality Connection

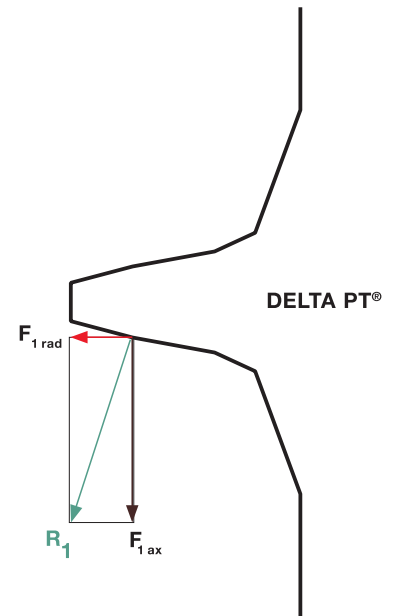
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### 最小径向张力

- ◆ 相对于普通金属螺丝的60° 牙型，EJOT DELTA PT® 螺丝螺纹优化减少径向张力。
- ◆ 20° 牙型角相对30° 牙型角产生更小的径向张力，因此适用于薄壁设计。
- ◆ 更大的轴向分力，利于材料的流动。
- ◆ 轴向较大的作用力产生位移材料优化。

### Minimal radial tension

- ◆ *The optimized thread flank angle of the EJOT DELTA PT® screw reduces the radial stress compared to common 60° flank angles of the metal screws.*
- ◆ *The 20° respectively 30° angle creates only minor radial tension and therefore allows thin-wall design.*
- ◆ *The bigger force in axial direction allows an optimum flow of the displaced material.*



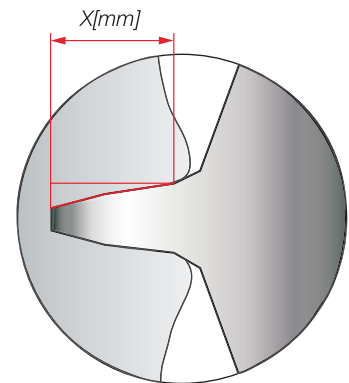
### 高夹紧负载

根据一般使用的建筑指南，现有接触压力必须比允许接触压力小，如果现有接触压力太高，可能导致热塑零件损坏。螺纹覆盖和螺纹螺距是主要的影响。在热塑材料中，优化的螺旋角，能过优化最高负载与低接触压力之间关系而进行开发。而且可以在平衡安装深度取得较高的侧面覆盖。保证了成本的降低。

### High clamp loads

*According to general valid construction guidelines the existing contact pressure has to be smaller than the permissible contact pressure. If the existing contact pressure is too high, it may lead to damages of thermoplastic components.*

*A major influence is executed by thread coverage and thus the thread pitch. The optimum helix angle of the pitch was developed by optimizing the relation between the highest possible clamp load and low contact pressure in the plastic material. Thus a higher flank coverage at equal installation depth can be achieved. This leads to the possibility of cost reduction.*



X [mm] 螺纹啮合

### 抗拉强度和扭力强度

由于内径的增大，抗拉强度和扭力强度得以提高，甚至应用于某些高性能热塑材料时，EJOT DELTA PT® 可以承受更高的拧紧扭矩及产生更高的夹紧力。

### High tensile and torsion strength

*The enlarged core diameter increases the tensile and torsion strength. As a result of this, even in high-filled thermoplastics higher tightening torques and better clamp loads are being achieved.*

