

SCREW WITH CAPTIVE SLEEVE

Reinforcements feature for plastic components

Special solution with screw and sleeve cold forged plus a system assembles by rolling operation on the sleeve. The reinforcing sleeves are usually cold forged using low-carbon steel.

Manufacturing technologies

- Screw cold forged
- Sleeve cold forged using low-carbon steel
- System assembled by rolling operation on the sleeve

Limits

- The sleeve must have the head
- The 2 parts are assembled after coating. Only the Zn-Ni is suitable.

Benefits of solution

- Screw already assembled
- Reduced assembly time in OEM line
- Reduced number of components

Tolerance on sleeve total length



±0,1 after assembly



Reinforcement contact point

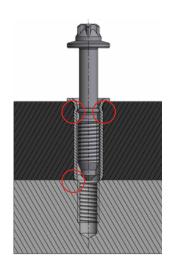


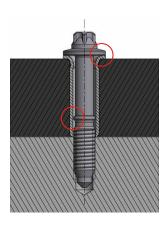
2.Bushing bearing surface



Captive system

3.





Tightening bearing surface



2.Radial clearance for recovery misalignment



Screw With Captive Sleeve is a mechanical connection system covered by a patent for industrial invention developed by A.AGRATI S.p.A.