



RING COLLAR SCREW

Non metallic ring solution

Non metallic ring solution is used to generate the captive assembly of a spacer, sleeve or any other component with the screw, where the traditional method of generating interference with the rolled threads is not possible.

Advantages

1. Spacer sleeve or equivalent is captive on the screw
2. Free rotation and free axial sliding between the spacer sleeve or any other component assembled and the screw, before the tightening operation
3. No risks to loose the spacer sleeve from the screw during transportation
4. The spacer/sleeve and the screw is retained by the ring on the component before tightening
5. The ring can be completely hidden in the sleeve, so that a full thread is always granted up to the sleeve
6. This retaining method allows to have separate coatings for the screw and the sleeve. Different materials for the sleeve and the bolt are also acceptable
7. The assembly is a fully automated process, that grants reliability and cheapness
8. This design allows to define the amount of axial movement of the sleeve on the bolt before tightening
9. The axial sliding displacement can be personalized as demand, accurately controlled and repeatable
10. The radial displacement between screw and the spacer sleeve can be personalized as demand

Ring Collar Screw is a mechanical connection system covered by a patent for industrial invention developed by A.AGRATI S.p.A.