

INSTaL+ Resin bolting solution

Product specification: Bolt diameter 16 mm /18 mm /20 mm
Category: Solid bolts / Mining bolts

Introduction

The INSTaL+ bolting system is an annulus-correcting resin bolt designed for resin bolting applications where conventional parameters may not achieve acceptable load transfer. The system allows for full column resin bolting to be done with a smaller core diameter steel bolt in a hole up to 40 mm diameter with acceptable performance in terms of mixing and pull-out loads.

Key features

- Engineered to reduce the effective annulus size, optimizing load transfer.
- PET compound coating through injection molding for improved durability.
- Corrosion-resistant material, ensuring extended longevity.
- Standard nut, bearing plate, and load indicator can be included based on requirements.
- Lightweight design reduces mass compared to equivalent steel bars.



Main advantages

- Simplifies installation in oversized holes without requiring exotic equipment.
- Reduces the risk of finger-gloving during installation.
- Expands resin bolting applications to non-conventional scenarios.
- No specialized training or tools are necessary, making it highly user-friendly.
- Superior resistance to corrosion and environmental factors.
- Lightweight, facilitating easier handling and installation.

Technical Specification

Bolt diameter	16 mm	18 mm	20 mm
Minimum yield strength	500 MPa	500 MPa	500 MPa
Typical ultimate load	140 kN	178 kN	220 MPa
25mm coating			
Major diameter ¹⁾	27 mm	27 mm	-
Effective diameter ¹⁾	25 mm	25 mm	-
27mm coating			
Major diameter ¹⁾	29 mm	29 mm	29 mm
Effective diameter ¹⁾	27 mm	27 mm	27 mm

1) After coating

Other options	— Customizable bolt lengths based on customer requirements. — The PET compound coating enhances both corrosion resistance and mechanical performance.
Packaging	— Bolts are packaged in bundles for ease of handling and transportation. — Custom packaging options available upon request, based on order quantities.
Product range and accessories	— Nut, bearing plate, and load indicator are optional and customizable. — PET compound for durability and optimized resin mixing.
Legal disclaimer	All dimensions, weights, quantities, and specifications are those applicable at the time of this publication and may be amended from time to time. Please contact your local representative for final confirmation of any key specifications.