

# Titan Bolt

Product code: HTC

Category: Cable bolt / Discrete / (Bulbed)

Product specification: High tension cable bolt (plain)

## Introduction

The Titan Bolt is a Ø28 mm high-tension, hollow cable bolt designed for top-down grouting in combination with in-cycle resin cartridge point anchoring. Its flexible, hollow core allows grout to be pumped through the central tube directly to the top of the bolt using a grouting lance. The system is compatible with a barrel and wedge assembly for effective pre-tensioning. Continuous bulbs along the cable enhance both resin and grout anchorage throughout its length.

## Key features

- Cable with grout tube at the center.
- Hex drive for resin anchoring and grouting lance adaptation.
- Barrel and wedge for collar fastening.
- Three resin load transfer bulbs Ø36 mm in diameter for load distribution.
- One grout release bulb Ø36 mm with a resin dam for controlled grout flow.
- Grout anchor bulbs Ø36 mm in diameter, spaced every 0.5 meters along the cable.



## Product code guide

Bolt type	Diameter	Length	Wire	Bulds/M	Packaging
HTC	8	0620	P (Plain) N (Intended)	2B	050

## Physical properties

	Typical
Yield strength	550 kN
Tensile strength	605 kN
Elongation (500mm free length)	6 %
Mass per meter	3.0 kg
Cable (strand) diameter	Ø 28 mm
Resin anchor bulbs	3 x nominal Ø36mm bulbs with 300mm spacing
Grout anchor bulbs	500mm spacing

### Installation guideline

- **Drilling** – Drill a Ø42 mm to Ø45 mm hole using conventional drilling methods. Consult [gssalesaustralia@sandvik.com](mailto:gssalesaustralia@sandvik.com) for guidance on the appropriate length.
- **Insertion and Rotation** – Insert and rotate the cable by spinning and thrusting it using the hex drive with a spanner.
- **Resin Anchoring** – Anchor the cable using resin capsules by thrusting and spinning the bolt into the resin.
- **Tensioning** – Apply pre-tension to the cable using a mechanical torque tension system by applying rotational force with a spanner on the drill head.
- **Grouting** – Grout the cable from the top down using a grouting lance adapted to the hex drive thread and standard underground grouting equipment.

### Standard length and packaging

- Standard bolt lengths: 4.2m to 10.2m.
- Collar/wedge assemblies available separately or pre-attached.
- Non-standard options available upon request.
- Bolts are bundled in packs of 25, supplied on steel trays or U-cradles.
- Consult our Technical Service Engineers for guidance on selecting the correct bolt fittings and product codes.

### Notes

- Only DSI Underground rock bolt components should be used to enable the optimum performance of the bolt system to be obtained.
- DSI Underground is Quality Assured to ISO 9001:2015, Certificate No. AU003618-3.

### Product accessoires examples

We manufacture a comprehensive range of products specifically designed for this range of bolts

Products			
Product group	Barrel & wedge	Single plate	Double plate
Product imagery			
Product code	BLW	D	DD

### Mobile App

Discover more! Explore our full product range, knowledge center, and additional details through the "DSI Underground" App—available now on iOS and Android.



iOS



Android

### 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.