

# CUTTABLE CT-BOLT

Post Groutable

## Physical Properties

Product Code	Description
CTFB25LHB400S	4m Black bell, steel nut
CTFB25LHSS400S	4m Stainless steel bell, steel nut
CTFB25LHB400F	4m Black bell, fiberglass nut
CTFB25LHSS400F	4m Stainless steel bell, fiberglass nut
CTFB25LHB400F2HOOK	4m Black bell, fiberglass nut, fish hook

Standard bolt lengths range from 900mm to 5,000mm in increments of 300mm.

	Typical
Minimum Ultimate Grade	1,000MPa
Minimum Shear Yield Grade	460MPa
Minimum Breaking Load	350kN
Minimum Shear Load @ 90 °	160kN
Strain at Failure	2.5%
Mass Per Metre	4.5kg Approx
Bar Core Diameter	Ø21.74mm
Major Bar Diameter	Ø24.74mm
Cross Sectional Area	346mm <sup>2</sup>
Rolled Thread	R25 rope thread

## Key Features

- The CT-Bolt is a R25 glass fibre reinforced plastic thread bar designed to be used with cementitious grouts.
- The bolt is provided with an expansion shell for preloading, thus allowing for tunnel or mine heading to advance without immediate grouting.
- Grout Bell allows for grouting after preloading.
- Anti-corrosion tube over full length of bolt for long life term protection.
- Available in differing material forms to suit design requirements.
- Standard bolt lengths range from 900mm to 5,000mm in increments of 300m.

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## Nut End Options

- Fibreglass Nut:
  - Cuttable nut.
  - Has breakout pin to show when enough torque/tension has been placed on nut (and bolt) after expansion shell has set.
- Steel Nut:
  - In case of higher specified terminal loads.
  - Allows bolt to be pull tested via conventional methods connecting to the external thread on the nut.

## Anchor Options

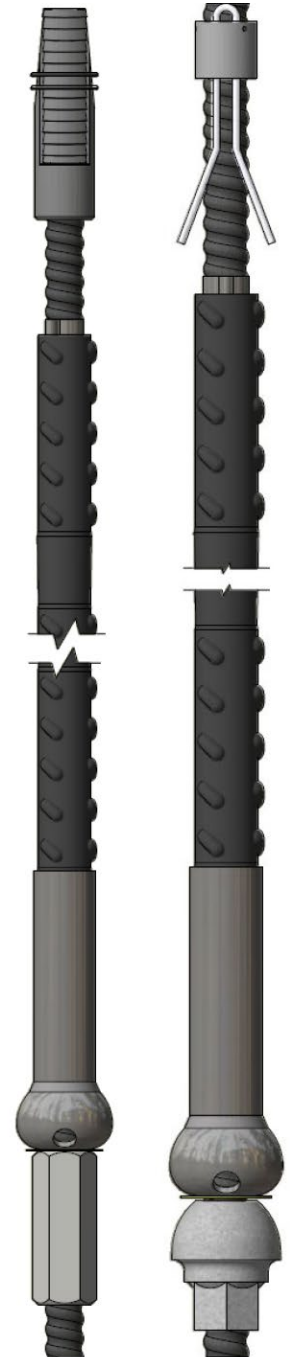
- Shell Anchor:
  - Tensionable.
- Fish Hook:
  - Passive.

## Installation Guidelines

- Drill 43-45mm hole diameters. The drill hole length must be longer than the bolt by approx. 50mm.
- Domed washer plate is fitted to the bolt.
- The bolt is inserted into the hole.
- After placing the bolt in the hole to its full length, the bolt is then rotated to set the expansion shell to the required tension. DSI Underground recommend no more than 55kN.
- Attach grouting adaptor to Grout Bell.
- Mix 0.33 to 0.35 W/C grout. Pump grout. Grout is pumped through the inner annulus to the bolt end and returns along the outer annulus.
- Terminate grouting with visible grout return.
- Detach adaptor and proceed to next bolt.

## Packaging

- Bolts are packaged in bundles with threads protected by heavy duty polyethylene bags.
- All bolts are supplied fitted with accessories with the exclusion of washer plates which are supplied loose.
- For the full range refer to our product catalogue on our App; available on iOS and Android devices by searching "DSI Underground".



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## Storage

- To be stored out of direct sunlight.


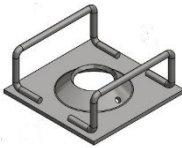

## Notes

- 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
- Patent Number 2018101679.

## Product Accessories Examples

- DSI Underground manufactures a comprehensive range of plates specifically designed for this range of Bolts.

Typically, products used are:

	Products		
Product Group	Expansion Shell	Plates	Spanner Dolly
Product Imagery			
Product Code Prefix	ASES	PP230	T38

## Phone APP

- Want to know more; our full product range, knowledge centre, and other details are available via the App; available on iOS and Android devices by searching "DSI Underground".



iOS



Android