



# 32MM FIBREGLASS TORQUE TENSION BOLT



# 32mm Fibreglass Torque Tension Bolt

## Features:

- High capacity ground support where extraction includes cutting of bolts
- Break-out cap is designed to break into small pieces to clear easily from spanners/dollies
- "V" Notch end of the dowel to promote shredding of the resin capsule film
- Continuous rope thread providing deformations for resin mixing and high bond strength with the rock
- Recommended for drill hole 38 – 42mm
- J-LOK resin capsules available in 32 - 36mm diameter for maximum encapsulation
- Both 200mm and 300mm square plastic steel inserted plates with 51mm holes available to suit the system
- Do not store these products in direct sunlight
- Standard pack 100, customer specific packaging is available



## Technical Data – 32mm Fibreglass Torque Tension Bolt

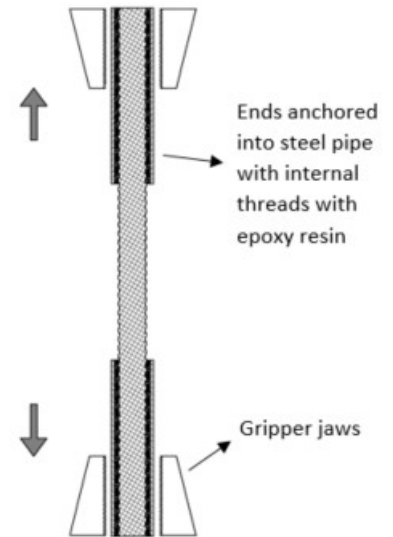
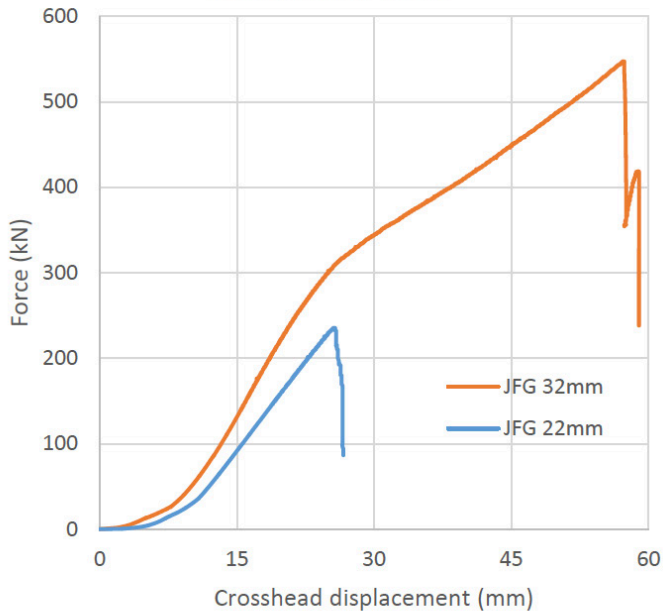
Nut Break-out	130-175 N.m
Nut Color	White
Nut Hex Dimension	46mm A/F
Application	Hydraulic bolters
Rod Diameter	32 mm
UTS Rod	> 500 kN
UTS with Break-out Nut	>90 kN
Rod Single Shear Strength	>110 kN
Shank Torque	>200 N.m
Mass per meter	1.5 kg/m
Dowel Color	Black

# Improved Tensile and Flexural Strength

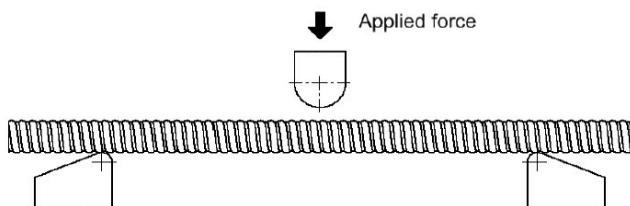
New 32mm dowel has more than double the tensile strength of current standard 22mm dowels. In terms of flexural strength, 32mm dowels have double the flexural load and three times the stiffness compared to current 22mm dowels.

## Tensile Test of Fibreglass dowels

Based on ASTM D7205



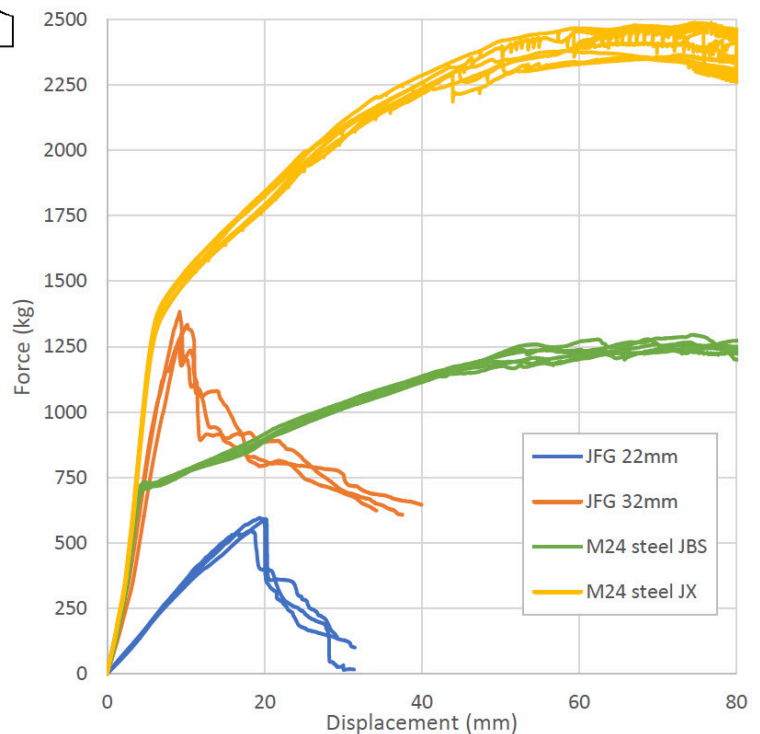
Sample after tensile test



Samples after flexural test: 22, 25 and 32 mm dowels (left to right)

## Three-Point Flexural Test

S-Grade (JBS) vs X-Grade (JX) vs JFG Dowels, 350mm span



## Accessories

200 and 300mm square plastic plates with 51mm diameter hole available to suit the dome profile of the Break-Out nut. Strength enhanced by the volcano steel insert. Quality control tests are conducted over a 150mm span followed by 100mm diameter hole to simulate soft rock condition.



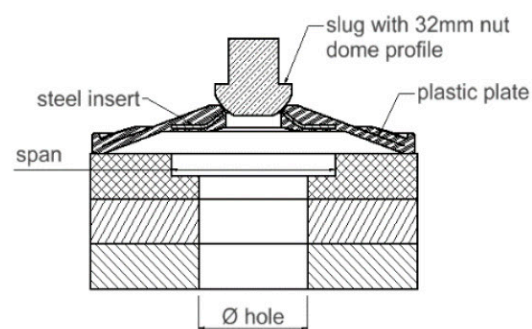
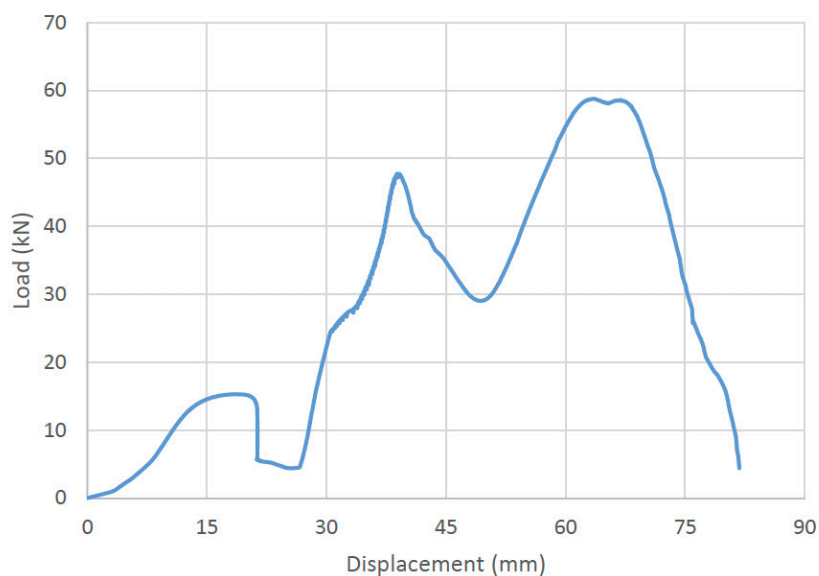
HIPSTEELSPP2051



HIPSTEELSPP



Typical Plate Compression Test Result



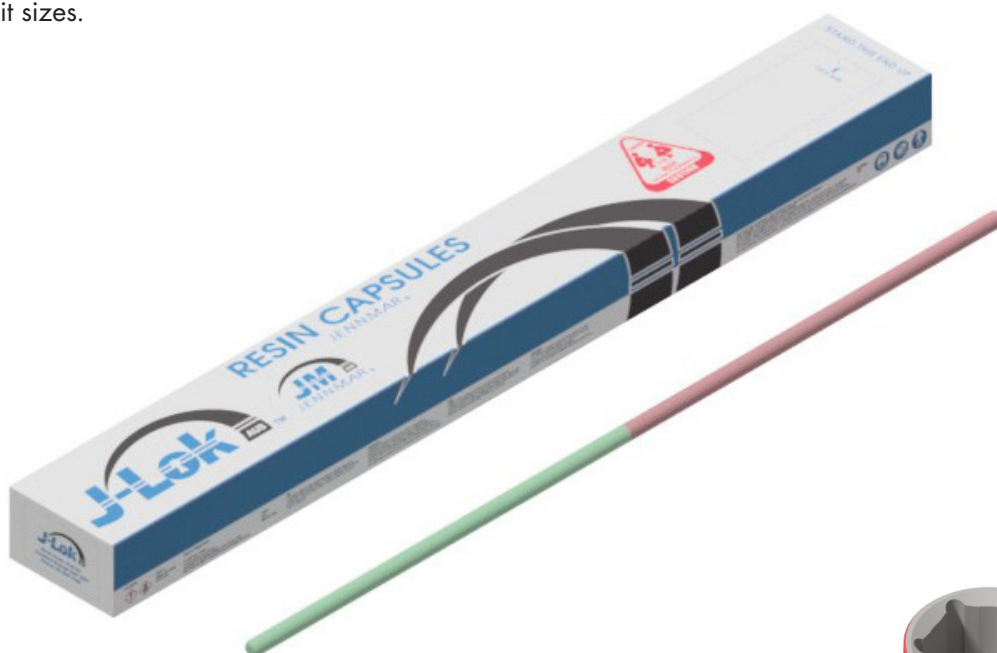
Technical Data – Plate Compression Test

Plate Part No.	Centre Hole Size	Square Size	Collapse Load*	Pull Through Load*	Color
HIPSTEELSPP	51 mm	300 x 300 mm	>15 kN	> 50 kN	Natural
HIPSTEELSPP2051	51 mm	200 x 200 mm	>15 kN	> 50 kN	Black



## Accessories

Medium/slow dual speed J-LOK resin capsule of various lengths and diameters to suit different bolt lengths and drill-bit sizes.



### Available Sizes – 32mm Fibreglass Torque Tension Bolt

Bolt Length (mm)	Resin for 38mm bit	Resin for 42mm bit
1200	32mm x 800mm	36mm x 1000mm
1500	32mm x 1000mm	36mm x 1200mm
1800	32mm x 1200mm	36mm x 1400mm

Various dolly lengths available  
200 – 600 mm



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