



DYWIDAG Mining Systems

Hi-Ten Strand Bolt Tensioner Unit



DSI Mining Division has developed a new, lightweight and unique way of rapidly pre-tensioning its HI-TEN Strand Bolt with loads up to 30 tonnes, even at 'face' installations.

The special collar used on the HI-TEN Strand Bolt allows the system to be utilised at angles of up to 30°.

The Tensioner Unit grips the end of the bolt and tensions it, leaving only a short tail protruding from the rock. This is achieved using a single hydraulic ram driven by an air/hydraulic pump or off the hydraulics of a machine.

METHOD OF INSTALLATION

A short length of bolt needs to be left protruding from the hole, (155mm), this allows space for the plate, special collar, wedges and then the Tensioner Unit, to be placed on the bolt.

Once the fittings are installed on the end of the bolt, the Tensioner Unit is pushed up over the end of the bolt, self-locking itself to the bolt.

The support system can then be pre-tensioned to the required load. After tensioning, the load pressure is released and the Tensioner Unit's disengaging mechanism is pulled, releasing the unit, allowing it to be removed from the bolt.

Unit weight - 11.5kgs

Patent Pending

DYWIDAG-Systems International Pty Limited

Mining and Tunneling Products

Newcastle Head Office & Manufacturing Facility

25 Pacific Highway
Bennetts Green NSW 2290
Ph: +61 2 4948 9099
Fax: +61 2 4948 4087
email: dsi@dywidag.com.au

Perth Manufacturing Facility & Branch

Gate 3 Wood Street
Bassendean WA 6054
Ph: +61 8 9449 8321
Fax: +61 8 9449 8325
email: dsi@dywidag.com.au

Mount Isa

199 Camooweal Street
Mount Isa QLD 4825
Ph: +61 7 4743 4244
Fax: +61 7 4743 2711
email: dsi@dywidag.com.au

Emerald

3 McKenzie Street
Emerald QLD 4720
Ph: +61 7 4982 0602
Fax: +61 7 4987 4258
email: dsi@dywidag.com.au

Mackay

Len Shield Street
Paget Qld 4740
Ph: +61 7 4952 4260
Fax: +61 7 4952 4235
email: dsi@dywidag.com.au

Kalgoorlie

Lot 15 Cunningham Road
Kalgoorlie WA 6430
Ph: +61 8 9091 1993
Fax: +61 8 9091 4172
email: dsi@dywidag.com.au