

Tension Control Structural Bolt Assembly

Product Range:

Metric : M12-M36 (any length) as per BS EN 14399-10, JSS - II09
Inch: 1/2" - 1 1/4" as per ASTM F3125, A325/A490

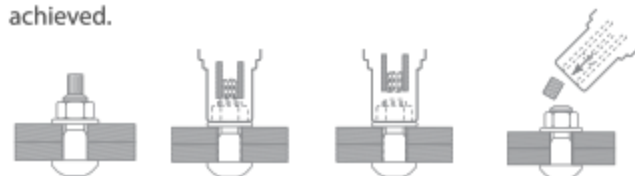
Coatings: Black plain / Mechanical Galvanized, Zinc Flake (Geomet Delta Dorken). Coatings as per project requirements.

Unbrako Electric Shear Wrench is also available



Electric Shear Wrench

Unbrako Twist-off type Tension Control Structural Bolt has a built-in torque control device. The outer socket of Unbrako electric wrench rotates the nut, while at the same time applying counter torque to the spline end. The spine breaks off when proper bolt tension is achieved.



Finger tighten bolt, nut and washer
Place electric wrench over bolt tip (spline) and begin to tighten.
Once designed torque tension is achieved, the spline will shear off.
Remove electric wrench and discharge severed spline.

High Strength Structural Bolt Assembly

Product Range:

Metric : M12 to M64
any length as per the standard

BS EN 15048-1 & 2, BS EN 14399-1,2,3,4,5 & 6 or IS 3757 or as ASTM A325 & A490, DAST021



Unbrako High Strength Structural Bolt Assembly includes non pre-load assembly as per BS EN 15048 & Pre-load bolting assembly as per BS EN 14399-3 & 4, DAST021. These are ideal for use on time bound projects, e.g., in construction works such as buildings, bridges, highways and other civil engineering projects.

Compared to the conventional methods of riveting or welding, Unbrako Pre-load bolts maintain the permanent strength of the joint due to reduced stress concentration.

Drawn Arc Welding Shear Stud

Product Range:

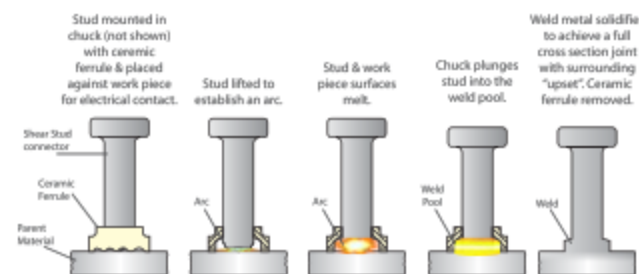
Metric : 12mm to 25mm
any length as per project requirements

Specification: ISO 13918, AWS D1.1/D1.1M
Ceramic Ferrules Available



Unbrako also provide the onsite service for welding/Fixing job

Unbrako Arc Welding Stud, also known as Shear Connector, is used in the construction of tall buildings, bridges and steel structures. The drawn-arc process produces a full cross-sectional weld forming a bond that is greater than the surrounding material, improving structural strength.



Direct Tension Indicator

Product Range:

Metric: M12-M36 ASTM F959M and BS EN 14399-9
Inch: 1/2"-1 1/2" ASTM F959

Unbrako feeler gauge is available to check the required torque is achieved.



Unbrako Direct Tension Indicators are single-use mechanical load cells used in structural connections, especially while tensioning high-strength structural bolts. They are installed under either a bolt head or under a nut, along with a hardened washer.

The raised protrusions plastically deform in relation to the load applied, providing a permanent witness that the required tension is achieved. This change can be verified with a tapered feeler gauge and compared with pre-installation verification procedures, thus indicating the magnitude of the pre-load in the assembly. It is easy to use & doesn't make the process of tensioning more difficult.



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