ICFS

INDO CONSTRUCTION FASTENING SYSTEMS

A brand of Indo Spark Group Since 1978

Rebaring and Anchor Bolt

Pull Out Testing Services

Pull Out Test Unit 30Ton- Model : IPT-30-Y

Description

The rebar under full test is clamped by a gripper unit which consists of a pair of tapered jaws with hardened serration on the gripping surfaces. The tapered jaws slide in a housing which is placed on the inverted hollow jack of 30-ton capacity. On pressurizing the jack with the help of a high pressure hand pump, the jaws grip the rebar & the bar gets tensioned. The load up to which the rebar is to be tested can be read on the load calibrated pressure gauge.

The gripper units come in two sizes namely
1) IPT 10-16mm
2) IPT 20-38mm Model No. : IPT-30-Y
Maximum Pull Force : 30-Tons
Rebar Sizes Handled : Ø 8 to16mm, Ø 20 to 38mm

Complete Rebar Pull Tester Unit- IPT-30-Y

The complete test unit comprises of the following (all equipment comes packed in a steel carry boxes)

- 30-Ton Centre Hole Jack
- Hand Pump unit & load calibrated pressure gauge assembly
- Rebar Puller Jaw Assembly (10-16mm) in steel carry box
- Rebar Puller Jaw Assembly (20-38mm) in steel carry box

Comprehensive Pull Out Testing Services by Indo Spark

- Pull out tests evaluate anchor strength against tensile loads for Mechanical, Chemical anchors, and rebars.
- Indo Spark conducts tests from Dia 8mm to Dia 40mm, with a capacity up to 75 tons on-site.
- Hydraulic equipment applies tension to extract the rebar/stud, determining anchor performance.
- Tests are conducted on customer sites, in the presence of the customer/consultant.
- Trained personnel specifically handle pull out tests for accuracy and safety.
- Customer determines the number of anchors to be tested and the load for testing.
- Upon completion, a detailed test report with result data is co-signed by both the customer and Indo Spark personnel.
- Test reports include comprehensive information about anchor performance and substrate suitability.

  Indo Spark utilizes calibrated gauges and equipment for accurate testing.
- Pull out tests establish the quality of anchoring and suitability of base material for pre-determined loads.

Pull Out Testing Comparative Table of Chemical Anchor Sizes

Product	Size in mm 3.5 Ton	Size in mm 60 Ton
Chemical Anchor Stud (CAS)	6 - 16mm	8 - 30mm
Rebar		8 - 40 mm
Indo Wedge Anchor (IWA)	6 - 16mm	8 - 24mm
Through Bolt Anchor (TBA)	6 - 16mm	8 - 24mm
Lite Wedge Anchor (LWA)	6 - 16mm	8 - 24mm
Drop In Anchor (DIA)	6 - 16mm	8 - 20mm
Indo Prime Bolt Zone (IPBZ)	6 - 16mm	8 - 16mm
Indo Concrete Screw (ICS)	8 - 12mm	8 - 12mm
Nylon Frame Plug (NFP)	10mm	10mm
Nylone Hammer Fixing Plug (NHF)	5 - 8mm	5 - 8mm

Pull Out Test Unit General Testing Procedure

SETTING UP THE TESTER

- Fit the appropriate adaptor to the tester. Example shown is a bolt tester adaptor. (For fitting of other adaptors please see individual instructions in this manual).
- The tester is supplied with a locking adaptor fitted into the tester body. This locking adaptor can be removed for fitting of different adaptors by using the 3mm Ball Driver. When replacing back in ensure it is fully engaged into the tester body before tightening (fig 1). Thread the bolt tester adaptor into this, until it is fully engaged, using a quarter turn for position (fig 2).
- Make final adjustments so that the bolt tester adaptor, tester and fixing are aligned (fig 3).
- Position the tester so that the gauge can be easily read.
- Adjust the length of the adjustable legs (see section 8) so that all three are in contact with the base material and the load spreading bridge is aligned and level by referring to the bubble levels on the bridge.

Fig 1

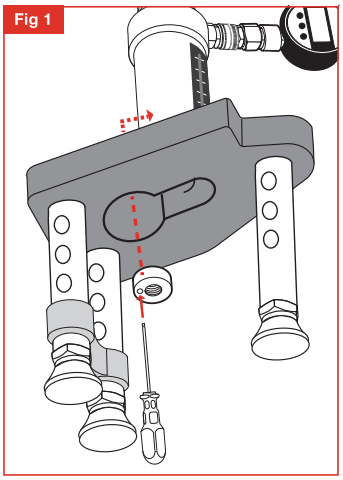


Fig 2

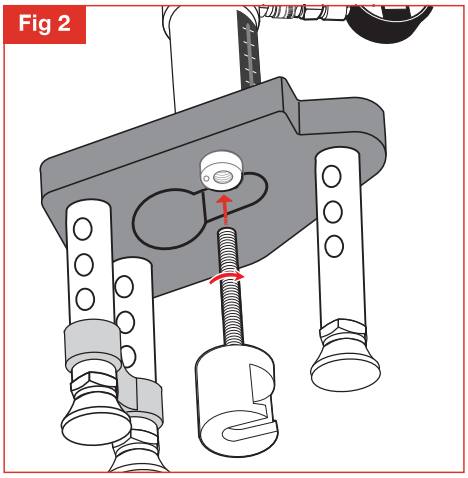
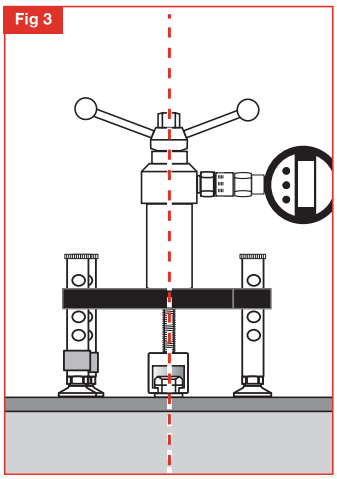
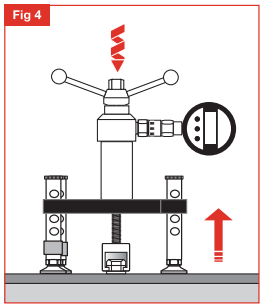


Fig 3



- Ensure the gauge is set to zero - hold the tester and proceed to load the fastener by turning the operating handle clockwise (fig 4).

Fig 4



CAUTION

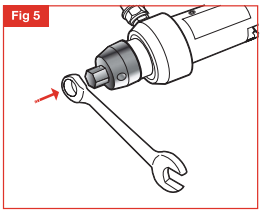
Hold the fastener securely as long as the fastener is under load. When the load increases, note the reading on the displacement scale on the tester. Indication of failure of the fastener may be obtained by comparing the current reading with the original reading.

- Increase the load until the required test load is attained. Hold this load and observe any falling back of the readings which would indicate movement and possible failure of the fastener. Record the satisfactory result.
- Release the load on the fastener by turning the operating handle anti-clockwise and allowing the test jaw to return to the original position.
- Remove the tester and bolt tester adaptor.

USING THE INTEGRATED NUT IN CONFINED SPACES

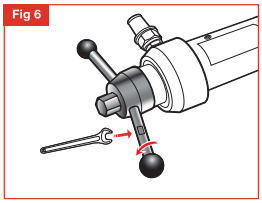
- In confined spaces the integrated nut can be used with a 22mm ratchet spanner for better access in confined spaces and for easier operation (fig 5).

Fig 5

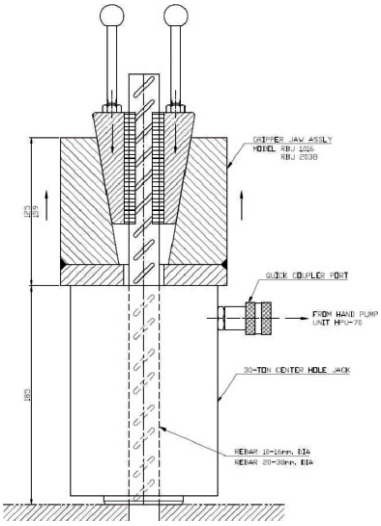


- Remove the handles by unscrewing from the base using the 10mm wrench (fig 6). Ensure when re-attaching handles that they are tight on and secure.

Fig 6



We provide this Service all over India and in the neighboring countries as well



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