

TG 5070

Adhesion Test Jig For Torque Testing of Super-Glued Nuts and Bolts

A steel jig for testing the torque of super-glued nuts and bolts. The glued nut/bolt assembly is clamped into position whilst a lever arm is driven down, applying torque force to the nut. Failure in the adhesive is indicated when the nut moves on the bolt thread (drop in force in the Lloyd Instruments NEXYGEN™ MT software.)

The jig comprises a swivel plate, which can be moved to allow the sample bolt head to be inserted into a slide block. The sample is secured into position by an adjusting screw. A spanner lever, 150 mm (5.9 in) in length and 12.7 mm (½ in) wide, is located into the assembly at an angle of approx 45°. The nut is engaged into a special socket mechanism permitting extreme ease of use. The slide block is locked into position using a thumbscrew located under the base plate. A dome-ended probe fitted to the crosshead of the test machine is then driven down onto the lever to apply force to the super-glued bolt assembly, causing the adhesive bond to break.



SPECIFICATION
CSS-MT-5070-0702
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INTERNET
www.ametek.com
www.lloyd-instruments.co.uk

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Capacity

2.5 kN

Packaging

Base plate, bolt gripping mechanism, spanner lever and upper probe.

Applications

Torque tests on super-glued nuts and bolts, M10 in size. (Please see note below for nuts/bolts of different sizes).

Specifications

Maximum Capacity:	2.5 kN
Minimum Loadcell:	500 N (112.4 lbf)
Maximum Sample Dimensions:	M10 x 40 long nut/bolt assemblies
Eye End Diameter:	5/8 in

Notes

Minor design modifications to the jig can be made to accommodate nut/bolt assemblies of different sizes.



AMETEK

TEST AND CALIBRATION INSTRUMENTS

UK

Lloyd Instruments Ltd
Forum House
12 Barnes Wallis Road
Segensworth East, Fareham
Hampshire, PO15 5TT
UK
Tel: +44 (0)1489 486 399
Fax: +44 (0)1489 885 118

America

AMETEK TCI Division
8600 Somerset Drive
Largo
Florida 33773
USA
Tel: +1 (727) 536 7831
Fax: +1(727) 539 6882

Far East

Lloyd Instruments
Far East Representative Office
No7 Sherwood Place
Alexander Heights
6064 Perth
WESTERN AUSTRALIA
Tel: +61 8 9343 5725
Fax: +61 8 9343 5723

France

Lloyd Instruments SA
3 avenue des Coudriers
Zone d'activite de l'observatoire
78180 Montigny-Le-Bretonneux
FRANCE
Tel: +33 (0) 1 30 57 47 74
Fax: +33 (0) 1 30 57 50 33

Germany

AMETEK Precision Instruments
Europe GmbH
Rudolf-Diesel-Straße 16
D-40670 Meerbusch
GERMANY
Tel: +49 (0)2159 9136-70
Fax: +49 (0)2159 9136-80

email: general@lloyd-instruments.co.uk
www.lloyd-instruments.co.uk

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Manufacturer