

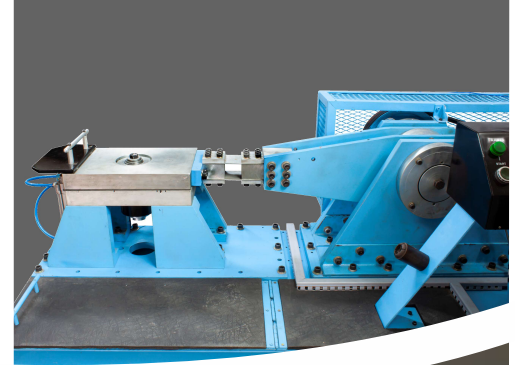


# TRAVIS

AUTOMATED • COMPUTERIZED • PRECISE • ECONOMICAL

## JUNKER FASTENER TEST SYSTEM

Bolts, Fasteners, Lock Nuts & Thread Locker Adhesives



**BOLT SIZES : Upto M28**  
**Fully Automated Operation**  
**Real Time Data Capture**

# TRAVIS

TRANSVERSE VIBRATION TESTING SYSTEMS

REFERENCE  
STANDARD

# DIN 25201/65151



Doc # M51e-122019

## AG Measurementics

testing is simple, now!

When bolted joints undergo cyclic loads during their continuous usage they tend to loosen. To reduce and even eliminate loosening, fastener designs need to be improved. It has been established that the best way to induce loosening of a bolt is to subject a pre-stressed bolted joint to transverse vibrations.

TRAVIS, designed and manufactured by AG Measurematics, is an Automated Test machine with computerized measurement system. It allows to make a bolted connection of different size of

fasteners having different thread types, subject them to transverse vibrations in a repeatable way, and obtain LOOSENING characteristics of pre-stressed bolts in form of Clamp-load vs. Cycle graph. This machine fulfils the requirements of the test as standardized by the German regulation DIN25201 and DIN 65151. The clamping force (pre-stress load), is plotted against cycles of transverse vibration in real time on the monitor of its Computerized Data Acquisition System (CDAQ). This graph can be printed as a test report through a printer the CDAQ.

## TRAVIS-DOMS

TRAVIS-DOMS is a Servo Hydraulic Testing System. The machine is designed to comply the DIN65151 Standards for Testing of Fasteners and Bolts.

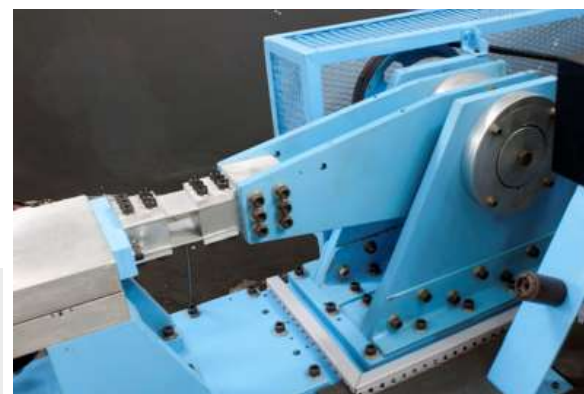
Max Clamp Load	150 KN
Displacement	Variable $\pm 0.1-3\text{mm}$
Test Frequency	Variable computerized adjustment 0.1 - 12.5 Hz
Max Bolt Size	M6-M28
Measurements	Clamp Load, Transverse Displacement, Transverse Load, Cycle count
Application Software	Travisof - Industry Standard Windows Based application software for complete machine control, data recording and maintenance. Facility to generate custom required test reports and graphs. Programmable variable frequency, displacement and number of cycles.
Deliverable	Test Machine, Computerized Control Desk, Application Software, Hydraulic power pack, Servo Hydraulic Control System, Training & Onsite Installation



## TRAVIS-NORM

TRAVIS-NORM is a Fastener Vibration Testing System. The machine is a low cost alternative to more powerful TRAVIS DOMS.

Max Clamp Load	120 KN
Displacement	Fixed 0.8/1/2mm (1 Factory Set)
Test Frequency	Fixed 12.5Hz
Max Bolt Size	M6-M20
Maximum Cycles	10,000
Measurements	Clamp Load, Transverse Displacement, Transverse Load, Cycle count
Application Software	Travisof - Industry Standard Windows Based application software for complete machine control, data recording and maintenance. Facility to generate custom required test reports and graphs. Programmable variable frequency, displacement and number of cycles.
Deliverable	Test Machine, Computerized Control Desk, Application Software, AC Motor & VFD, Training & Onsite Installation



# FACT

**TRAVIS-DOMS is the World's Largest Bolt Vibration Testing System designed and developed by AG Measurematics INDIA**

AG Measurematics Pvt. Ltd. is the largest manufacturer of testing machines and Systems in India. We also undertakes design, manufacturing & training of any type of test rig as per customer requirement. Our years of work in the automotive testing have enabled us to provide total solution from sensors, system & software for your applications. Mechanical fabrication, Instrumentation, Hydraulics, Pneumatic & software development is done in our manufacturing facilities in INDIA.

 **YouTube** <https://youtu.be/R2SslDaBJk4>

Corporate Headquarters  
30, Civil Lines  
Roorkee 247667  
UK, INDIA  
Plant  
D12, KH 112  
Roorkee Industrial Estate  
Roorkee -247667  
Tel: +91 1332 796908

USA & North Americas  
105 Olympic Court  
Princeton 08540  
New Jersey, USA  
Tel: +1.901-610-1942  
Email: americas@agmpl.com



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[agmpl.com](http://agmpl.com)



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Tel. +91 01332-270772, 287662, 271172 | Email. info@agmpl.com