

NON
DESTRUCTIVE
TESTING

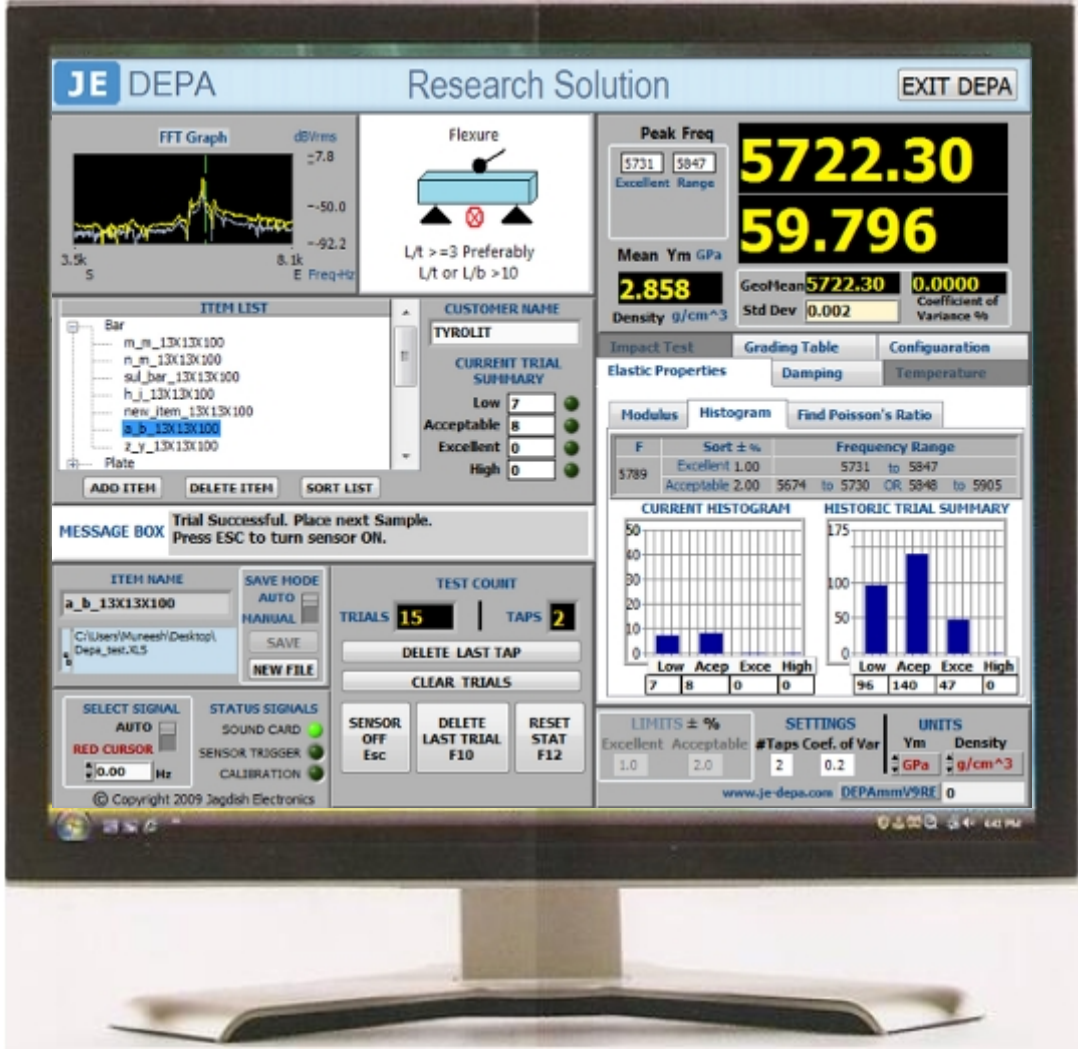
JE

DYNAMIC
ELASTIC
PROPERTIES
ANALYZER

V9

DEPA V9 30-day Free Trial

"The most comprehensive suite of Non Destructive Testing Solutions"



je-depa.com
91-80-28376267



DEPA V9 – 30 Day Free Trial

MINIMUM HARDWARE REQUIREMENTS (MHW)

The Basic hardware supplied by JE for the 30-Day free trial software is:

- Installation DVD
- DEPA V9 Trial Application and NI runtime install
- Interactive web browser based training and hard copy .pdf
- Multimedia Sensor (280E)
- Factory tested and calibrated steel Calibration Bar (6X30X60) mm and weighing ~85gms
- Calibration Certificate (ETDC Bangalore, Traceable to International Standards).
- Sample excitation tapper with a heavy duty Teflon head.

All that is required by you is:

- Laptop or Desktop computer with Windows XP SP3, Vista SP1 or Windows 7 for DEPA V9 Install

SENSOR

Overview

Sensor is embedded on a rectangular block made of sound insulating Delrin®, two adjustable 'O' Rings of polyurethane (sound insulating) are provided for supporting test samples of small/medium size.

Sensor comes with a cable of 3 meter long stereo connector, facilitating easy placement of your samples while testing in different modes of vibration.

Specifications

Impedance: Low impedance

Frequency: 20~20000Hz

Sensitivity: $\geq -58\text{dB} \pm 3\text{dB}$

Directivity: Omnidirectional

S/N: $\geq 60\text{dB}@1\text{KHz}$

Plug/cable: 3mtr Cable with 3.5mm stereo miniplug

Dimensions: 29mmX29mmX190mm Weighing~ 280gms.



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CALIBRATION BAR

Overview

We provide standard test chrome plated steel bars calibrated at room temperature for their natural Frequency by ETDC Bangalore (Traceable to National Standards). Each install ships with a Calibration Bar for which a factory entry is made in the Database. Successfully testing the calibration bar against the factory entry validates the correct functionality of your DEPA V9 install.

Specifications:

Dimensions of rectangular steel chrome plated bar are engraved on the Bar for easy verification while testing.

T: 6 mm
W: 30 mm
L: 60 mm
Mass: 85 gms

The other typical readings specific to the Calibration Bar are:

- 1) Density: 7.785 gms/cm³
- 2) Frequency in following modes:
 - (i) Flexural: 8588 Hz (F_F)
 - (ii) Torsional: 10009 Hz (F_T)
- 3) Young's Modulus (Y_m): 210 GPa
- 4) Poisson Ratio: 0.234 (PR)



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TAPPER

Overview

The Tapper supplied with DEPA instrument meets the requirement of “Impulse Excitation Technique” (IET), which allows exciting the test sample with uniform impulse / force (Sharp Tap) with minimal contact area and time applied to the test sample.

The Tapping tool consists of Teflon ball of diameter ~14mm fixed to an end of rust resistant chrome plated steel handle of 5 mm diameter and 60 mm length weighing about 15 gms.

