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Product Name :	**Product Code :**
Free and Forced Torsional Vibrations	TN993

Description :

Free and Forced Torsional Vibrations

Technical Specification :

Free and Forced Torsional Vibrations
The unit is perform the following experiments and investigations:

Learning Objectives / Experiments:
Determine the torsional stiffness of a torsion bar
Determine the mass moments of inertia
Decay behaviour of torsional vibrations
Determine the damping in torsional vibrations
Forced torsional vibrations, resonance
Torsional vibration systems with multiple masses
Two-mass torsional oscillator
Three-mass torsional oscillator

Specifications:
Experimental unit for investigating torsional vibrations and torsional stiffness
3 mass disks
4 freely positionable ball-bearing-mounted units with clamping chucks
Sealed oil damper
Exciter unit with drive crank; exciter amplitudes 1,4Â°, 1,8Â°, 2,4Â°
4 rotary angle sensors, 0,03v/Â°

Electrical exciter control unit for setting and displaying the exciter frequency and for powering the rotary encoder
Software for data acquisition via usb under windows 7, 8.1, 10
Including PC1 Computer-System with 21" TFT-Monitor Win 10 engl.

Technical Data:
Torsion bar
1300mm
Ã˜=6mm
Stainless steel
Rigidity: 1,0Nm/rad/m
Mass disks
Ã˜=150mm, 2,7kg
Ã˜=228mm, 4,8kg
Exciter frequency: 1...20Hz
Damper coefficient: 0,25...3,5Nm/rad/s
230V, 50Hz, 1 phase
230V, 60Hz, 1 phase; 120V, 60Hz, 1 phase
Dimensions and Weight
Length x Width x Height: 1400x410x400mm
Weight: 50kg

Naugralabequipments

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