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Product Name :	**Product Code :**
Field Balancing	TN881

Description :

Field Balancing

Technical Specification :

Field Balancing
The unit is perform the following experiments and investigations:

Learning Objectives / Experiments:
Measure and assess machine vibrations
Occurrence of imbalance vibrations
Static, dynamic or general imbalance
Dependence of imbalance vibration on position and magnitude of the imbalance
Basic principles of balancing
Field balancing in one plane
Field balancing in two planes
Assessment of balancing quality
Using a computerised vibration analyser

Specification:
Field balancing in one or two planes
2 flywheels with mounting holes for imbalance or balance masses and angular division
Imbalance or balance masses in different sizes
Drive motor with variable speed via a frequency converter
Elastic bearing of the drive motor

Vibration isolation of the base plate using rubber feet
Control unit with integrated measuring amplifier
Instrumentation: optical speed sensor, 2 acceleration sensors for vibration measurement
Software functions: dual-channel oscilloscope, dual-channel fft analyser, ramp-up curve, order analysis and balancing
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:
Flywheels
2x mass: 1,675kg
Radius for balance masses: 60mm
Angular division: 15Â°
Drive motor
Speed: 100...3000rpm
Power: 370w
Imbalance or balance masses
2...10g
Max. total imbalance: 2x 42cmg
Acceleration sensors
Frequency range: 1...10000hz
Sensitivity: 100mv/g
Resonant frequency: 32khz
Optical speed sensor
Scan range: 3...150mm
Laser class ii: 675nm
230V, 50Hz, 1 phase
230V, 60Hz, 1 phase; 120V, 60Hz, 1 phase
Dimensions and Weight
Length x Width x Height: 510x450x370mm (experimental unit)
Length x Width x Height: 420x400x180mm (control unit)
Weight: 25kg (total).

Naugralabequipments

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