#### Product Name : Vibrations On Machine Foundations

## Product Code : NLAB-ENGINEERINGLB25005



### **Description :**

Vibrations On Machine Foundations

### **Technical Specification :**

Vibrations On Machine Foundations Lab Equipments Manufacturer, Suppliers & Exporters Technical description of Vibrations On Machine Foundations

An indispensible element of machine design is targeted reduction of vibrations. An elastic, vibration insulating installation of the machine avoids the transmission of harmful vibrations to the surroundings. The can be used to investigate the problems of foundations and vibration isolation using a practical example. To do this, vibrations are generated and measured on a foundation. Springs are then used to try out different tunings and vibration absorbers are used to investigate absorption effects. This is installed on a foundation using springs and dampers. The foundation represents the surroundings and can be used to measure the effectiveness of the vibration isolation. Additional helical springs connect the foundation to the actual frame of the trainer. This double vibration isolation, combined with the high fixed weight of the frame, guarantees vibration-free laboratory operation, even under unfavourable experimental conditions.

Specification of Vibrations On Machine Foundations

Representing and investigating vibrations on machine foundations

Vibration generator generates vibrations by imbalance Vibration-free operation due to additional vibration isolation of foundation 2 brushless high power servo motors as the machine drive Eccentricity, rotation frequency, direction of rotation, phasing and frequency ratio adjustable Variable arrangement of vibration absorbers for absorption of vibrations Vibration measurement using acceleration sensors Inductive position sensor records the eccentricity of the imbalance masses Software with control functions and data acquisition via usb under windows vista or windows 7 Piston compressor for use as alternative real vibration generator Technical data Vibrations On Machine Foundations Drive motors Max. Speed: 6.000min-1 Max. Torque: approx. 3,40nm Machine mounted on a plate Mass: max. 26kg (incl. Additional weights 4x 2kg) Max. Imbalance: 2x 5kgmm Max. Imbalance force: 2x 500n (up to 3.000min-1) Foundation

Mass: max. 73kg (inc. Additional weights 5x 9,4kg)

Min. Natural frequency: 2,66hz

Compression springs

Spring constant c: 2,44n/mm...139,53n/mm

Transverse rigidity cq: 0,30n/mm...90,0n/mm

Measuring range

Acceleration: 50g

Dimensions and weight Vibrations On Machine Foundations

Lxwxh: 1.300x1.120x800mm

Weight: approx. 150kg

# Naugralabequipments

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