

Rotor Balancing Machine (20T-70T)

This rotor balancing machine is designed for balancing rotors weighing 20T, 30T, 40T, and 70T. It is used to precisely measure and correct imbalance in large rotating components, ensuring smooth and efficient operation.



Overview

High-Capacity Rotor Balancing System

This industrial balancing machine is engineered for rotors weighing between 20T and 70T, providing precise imbalance measurement and correction for large rotating components. Featuring a modular design, it can be customized to specific rotor lengths and diameters, making it suitable for power generation, aerospace, and heavy machinery manufacturing. The system integrates advanced sensor technology and intuitive software to ensure smooth, efficient, and reliable operational performance.

Technical Performance

Balancing Speed

80 r/min

Min Speed

1000 r/min

Max Speed

Maximum Workpiece Weight	40000 kg
Unbalance Reduction Rate (URR)	95 %
Minimum Achievable Residual Unbalance	d'g.mm/kg

Capacity & Dimensions

Workpiece Dimensions

Parameter	Value
Max Diameter	3500 mm
Min Support Distance	200 mm
Max Support Distance	7000 mm

System Components

Core Components

- Inverter (ENC)
- LCD Computer Display
- Independent Control Box
- NSK Roller Bearings
- Ceramic Piezoelectric Sensors

Operating Software	Windows 7
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Power & Drive

Power Configuration	3 phase / 380V / 50Hz
Motor Power	75 kw

Features

Key Capabilities

Cardan Shaft Drive • Bearing Force Monitoring • Automatic Shut-down • Contact-free Measurement • Modular Design