PT 500 Machinery diagnostic system

The condition of a machine or its parts can be assessed by the nature and extent of the vibrations produced. To do this, vibrations are recorded and analysed by sensors and measuring instruments. The correct interpretation of the measuring signals requires a good understanding of the acting mechanisms and a certain amount of experience.

The PT 500 system from GUNT is a modular training system that addresses these complex issues in engineering education and studies them by experimentation. Using the PT 500 machinery-diagnostic teaching system, you can simulate, measure and evaluate vibration signals of typical malfunctions and damage. The interpretation of measuring signals can be practised extensively.

Professional measuring technology allows the experience gained to be transfered into day-to-day operation.



Tertana





A complete summary of all options of the modular system can be found in our PT 500 brochure, which is available for download at www.gunt.de.

unit, together with the PT 500.04 computerised vibration analyser, allow a series of experiments on the topic of machinery diagnostics. In addition, the PT 500.10 – PT 500.19 accessory sets are available to simulate different, reproducible types of damage. In addition to pure measuring exercises on vibration measurement (measuring deflection, velocity and acceleration of the vibration in the time or frequency domain), it is possible to practice field balancing on rigid rotors and the alignment of shafts. Almost any topic in machinery diagnostics can be covered thanks to a wide range of accessories.

The base unit contains a vibration-damped fixing plate, a speed-controlled drive motor with a tachometer, a shaft with two mass disks and two bearing units, a coupling and balancing weights.



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Properties of different coupling

types, influence of axial and

on vibration behaviour

PT 500.14

Belt drive kit

radial runout and pitch error





