



Machinery Fault Simulator

Mechanical vibration fault diagnosis and testing platform

Motors, bearings, gears, motors, valves, pumps and
customization of rotating machinery simulation test system.

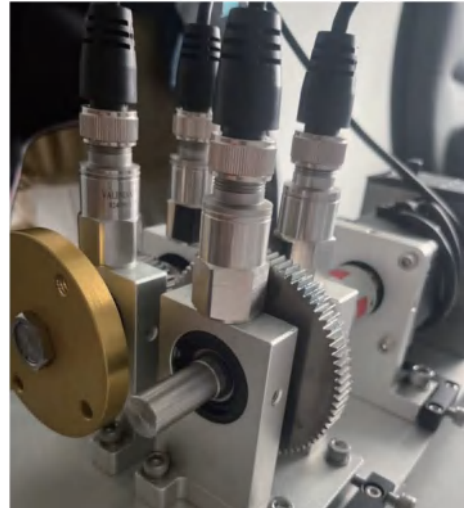
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PT400mini Machinery Fault Simulator Micro Version

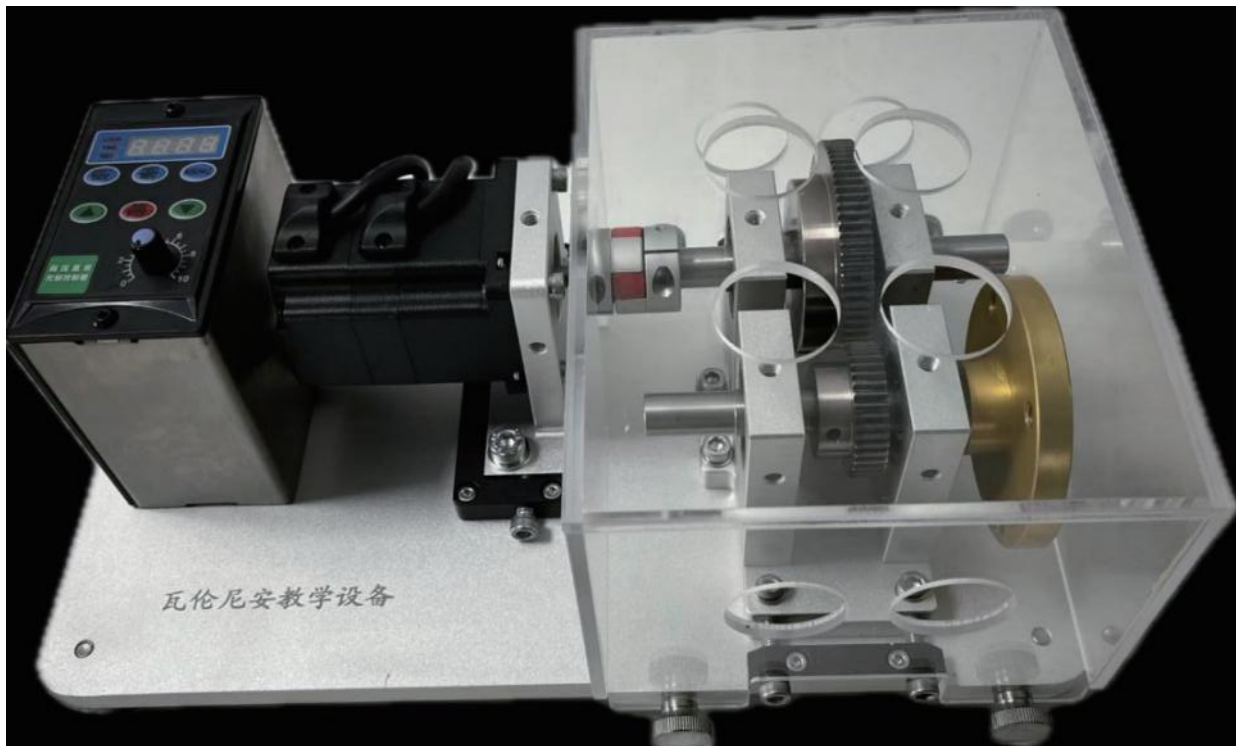
Introduction:

The PT400mini Portable Bearing Gear Test Bench can be used for demonstrating the functions of vibration testing instruments and training demonstrations on vibration detection, analysis, and fault diagnosis of rotating machines. Lightweight and small-sized, capable of quickly simulating machine operation at speeds ranging from 0-3000 rpm for vibration measurement and analysis.



Configuration:

The test bench is mainly composed of a micro DC motor, a speed regulator, dual support bearings, a dynamic balancing rotor disc, bearings, gears, a rotating shaft, a sensor bracket, a shock-absorbing foundation base, and other components.



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Function:

- Simulation problems of gear wear, broken gear, gear cracks, missing gear.
- Static and dynamic imbalance, as well as cantilever rotor imbalance, misalignment, and looseness.
- Bearing faults (outer ring, inner ring, rolling elements, cage, comprehensive faults), identification of vibration characteristic frequencies at different speeds.
- It can conduct single-sided dynamic balancing experiments, as well as tapping, start stop tests, and support actual machine vibration tests such as gear eccentricity and resonance.



Basic technical parameters:

Turn on power source	Power supply single-phase 220VAC/50HZ, power less than 120W, power cord length 1.5m
Drive motor power	Speed range 0-3000rpm
Material quality	Aluminum alloy, surface anodized
Weight	7kg
Size	350*180*150mm