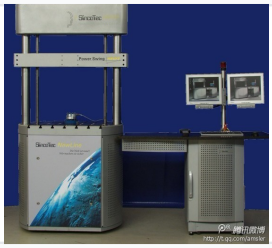
High Frequency Dynamic Testing Machine

High frequency pulsators are advanced testing machines designed for dynamic material and component testing. These pulsators apply controlled, cyclic loads to specimens, simulating real-world operating conditions to assess fatigue life, durability, and structural integrity.

ADDITIONAL IMAGES



Product Overview

High-Frequency Resonance Pulsators

These universal resonance pulsators are designed for advanced dynamic material and component testing. By utilizing resonance test technology, these systems can significantly reduce test periods by up to a factor of 10 and lower test costs by up to a factor of 200 compared to traditional methods. The machines are highly versatile, supporting axial, bending, and torsion loads, and offer rapid amortization due to extremely low energy consumption.

Technical Specifications

Available Load Capacities

- 5 kN
- 10 kN
- 20 kN
- 50 kN
- 100 kN
- 150 kN
- 250 kN
- 400 kN
- 600 kN
- 1.000 kN

Supported Test Types	Axial Load, Bending Load, Torsion Load, Tensile Tests, Characteristic Curves, Block Programs, RANTEC-tests, Fracture Mechanical Tests

Drive Systems

Drive System Comparison

Drive Type	Primary Advantage
Electromotive POWER SWING MOT	Large displacements up to 12 mm; ideal for big strokes, damping, and clearance.
Electromagnetic POWER SWING MOT	High test frequencies up to 300 Hz.

Performance Metrics

Operational Efficiency

10 x
Test Period Reduction Factor

200 x
Test Cost Reduction Factor

2 years
Amortization Period