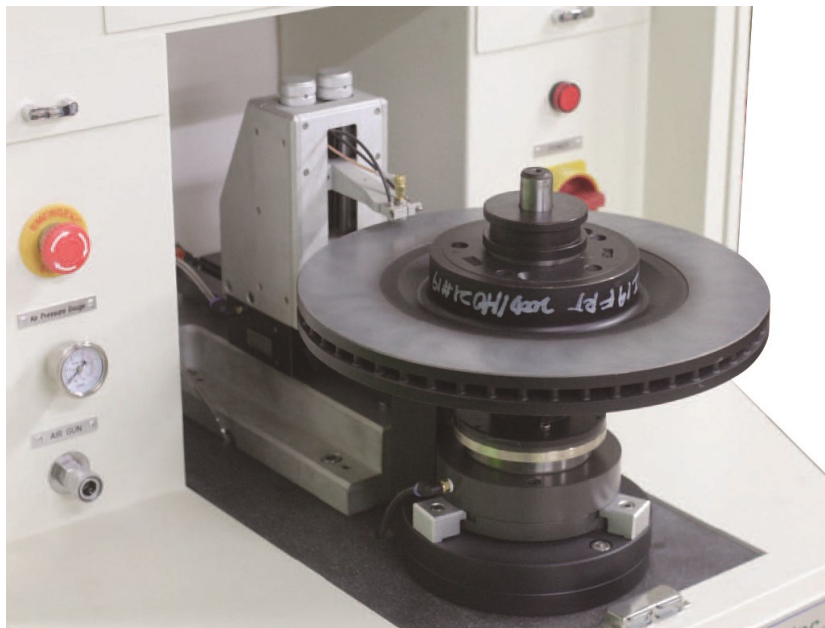

Static DTV Tester

(Model: DT-S)



Overview

The DT-S is an automatic high-precision measurement system for Disc Thickness Variation (DTV) and Lateral Runout (LRO) of brake rotors. These conditions are the major causes of brake chatter/judder and can ultimately lead to premature NVH problems. The system provides the user DTV and Runout data in a three-dimensional imaging format, thus helping in investigation and analysis of geometric structure deformation caused by over-heating and excessive mileage on the brake rotor.

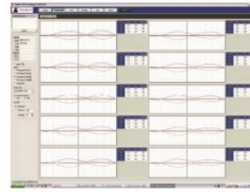


Features

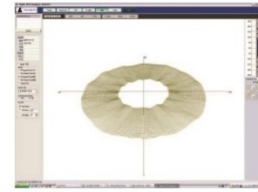
1. The sensors scan the full surface of the friction part of the brake rotor with the selected track width automatically.
2. A precision air bearing spindle supports the rotor while an air bearing slide holds the capacitance sensors to keep accurate measurement for long lasting performance.
3. A universal fixture is used to minimize the need for multiple fixtures and easily accommodates a wide variety of rotor shapes and sizes.
4. Fixture accuracy check feature provides reliable measurement and maintenance.
5. Versatile analyzing software by “Sunware DT-S”

Analysis Software

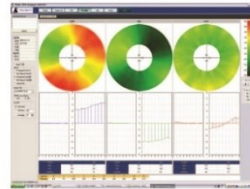
1. DTV, LRO for each track(s)
2. Variation traceable criterion options
3. Dimensional rotor image
4. Cross sectional rotor profile
5. Jig error correction with LRO
6. Order tracking by FFT



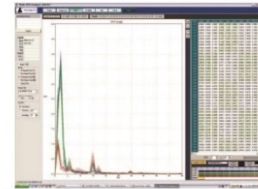
Track All



3D Image



Profile



Order Tracking

Specification

Adaptable Rotor Range	-Rotor diameter : 200–500mm (7.9–19.7") -Rotor thickness : 5–55mm (0.2–2.2") -Rotor weight : 30kg (166lbs) max
Sensor type	Capacitance
Measuring range	0–1500 μm
Spindle type	All bearing
Rotation speed	0–10RPM
Angular resolution	16bit (1/65536)
Jig accuracy	3 μm or better
Air consumption	50NL/min @0.4MPAS
Bench dimension	L750*W800*H800–1700mm (L29.5"*W31.5"*H67")
Weight	245kg (540lbs)

** Above specifications are subject to change without prior notice for performance improvements.*



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