

Model RS-8000

Servo Control Universal Testing Machine

High Precision Material Testing Solution | Class 0.5 Accuracy | Multi-Function Testing System



✓ High Precision

Accurate force measurement $\pm 0.25\%$, displacement accuracy of 0.001mm

✓ Advanced Control

Automatic break detection, curve analysis, and unit switching in 7 languages (Chinese, English, Japanese, French, German, Russian, Portuguese)

✓ Professional Reports

Crystal Reports 10.0 generated, customizable, exportable in Excel, PDF, HTML formats

✓ Wide Testing Range

Suitable for metals, plastics, rubber, textiles, cables, and more

✓ Stable Performance

Driven by Panasonic AC servo motor and equipped with high-precision, explosion-proof load cell

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Why Choose RS-8000 Over Traditional Testing Machines?

✗ Traditional Machine Challenges

- ✗ Inconsistent test results affecting quality decisions
- ✗ Limited testing capabilities requiring multiple equipment

✓ RS-8000 Solutions

- ✓ Class 0.5 accuracy ($\pm 0.25\%$) for reliable results
- ✓ 6 test types in one machine (tensile, compression, bending, shear, tear, peel)
- ✓ Intuitive 7-language interface with minimal

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- ✘ Complex operation needing extensive operator training
- ✘ Time-consuming manual data recording and reporting

training needed

- ✔ Automatic report generation in Excel/PDF/HTML

✨ Trusted by 500+ manufacturers, R&D labs, and quality control departments worldwide

Technical Advantages That Set RS-8000 Apart



Precision Measurement System

- 32-bit ARM chip (superior to 16-bit DSP)
- 24-bit A/D conversion
- $\pm 500,000$ code resolution
- 0.4%-100% F.S measurement range
- Zero drift < 0.01%



High-Performance Servo Drive

- Panasonic AC servo motor
- Speed: 0.001-500mm/min
- Accuracy: $\pm 0.2\%$
- Low noise: <65dB
- Smooth motion control



Intelligent Software (anyTest Pro)

- Real-time curve display
- Automatic peak detection
- Modulus calculation
- 7-language support
- Database management

Industries & Applications



Manufacturing & QC

- Automotive: Seat belt strength, interior materials
- Plastics: Injection molded parts, pipe strength
- Rubber: O-rings, gaskets, tire cord testing
- Packaging: Film puncture, seal strength



Research & Development

- Universities: Material science research
- R&D Centers: New material development
- Product Development: Prototype testing
- Failure Analysis: Quality investigation

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✓ Quality Assurance

- Third-Party Labs: ISO/ASTM testing
- Incoming Inspection: Raw material verification
- Factory QC: Production monitoring
- Certification: Compliance verification

🎯 Test Types Supported

- Tensile Testing: Metals, plastics, rubber
- Compression: Foam, cushioning materials
- Bending: 3-point/4-point tests
- Shear/Tear/Peel: Adhesive strength

Available Capacity Models

Choose the right capacity for your testing needs

100N / 200N

Soft materials, thin films, textiles

500N / 1KN

Rubber, flexible plastics, general materials

2KN / 5KN

Rigid plastics, light metals, composites

10KN

Steel sheets, reinforced materials

🔥 Popular

20KN

Thick metal plates, heavy cables

50KN

Industrial materials, large specimens

Optional Accessories

- ✓ Non-Metal Extensometer (10-800mm range)
- ✓ Temperature Chamber (-70°C to +350°C)
- ✓ Custom Test Fixtures
- ✓ Metal Extensometer ($\pm 0.3\%$ accuracy, $0.04\mu\text{m}$ resolution)
- ✓ Video Extensometer (non-contact measurement)
- ✓ Computer System (Dell/Lenovo included)

RS-8000 vs Traditional Testing Machines

Feature	RS-8000	Traditional Machines
Accuracy	$\pm 0.25\%$ (Class 0.5)	$\pm 1\%$ or lower
Control System	32-bit ARM	16-bit or manual
Resolution	$\pm 500,000$ codes	$\pm 10,000$ typical

Feature	RS-8000	Traditional Machines
Test Types	6 types in one machine	Usually single function
Software	Multi-language, auto-report	Basic or none
Operation	Fully automated	Manual/semi-auto
Data Export	Excel/PDF/HTML	Limited or manual
Speed Range	0.001-500mm/min	Limited range
Warranty	2 years	1 year typical
Training	Free on-site	Extra cost

Frequently Asked Questions

What's the lead time for the RS-8000?

Standard configurations (10KN, 20KN, 50KN): 7-10 working days

Custom configurations: 2-3 weeks

Express shipping available for urgent orders.

Do you provide installation and training?

Can I test my samples before purchasing?

What standards does the RS-8000 comply with?

Is the software available in my language?

What's included in the 2-year warranty?

How accurate is the force measurement?

What if I need custom test fixtures?

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Technical Specifications

Model	RS-8000
Stretch Space	800mm (1000mm optional)
Effective Test Width	400mm
Machine Size	830 × 670 × 2340mm
Machine Weight	About 245KG
Capacity Options	100N, 200N, 500N, 1KN, 2KN, 5KN, 10KN, 20KN, 50KN
Accuracy Level	Class 0.5
Test Force Accuracy	±0.25%
Resolution	±500,000 codes
Displacement Rate Range	0.001~500mm/min
Displacement Rate Accuracy	±0.2%
Power Supply	Single phase 220V, 50Hz
Control System	32-bit ARM chip, 24-bit A/D conversion

Compliance with Standards

Manufactured in accordance with international testing standards

Chinese National Standards

GB/T 16491-2008: Electronic Universal Testing Machine

GB 2611-2007: General Technical Requirements for Testing Machines

JB6146-2007: Extensometer Technical Specifications

JJF1246-2010: General Norm for Assessment of

International Standards

ISO 527: Tensile Testing of Plastics

ASTM D638: Tensile Properties of Plastics

ASTM E8: Tensile Testing of Metallic Materials

ISO 6892: Metallic Materials - Tensile Testing

Quality Certifications



ISO 9001:2015
Certified Manufacturing



CE Marking
European Compliant



Factory Calibration
Certificate Included

Ready to Upgrade Your Testing Capabilities?

Get started with RS-8000 today and experience the difference



Free Sample Testing
Send us your materials



Fast Response
Within 2 hours



2-Year Warranty
Lifetime support



Worldwide Shipping
7-10 days delivery

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