



TORONTECH

DENTAL COMPOSITE RESIN WEAR RESISTANCE TESTER



Dental Composite Resin Wear Resistance Tester ToronMed™ DCRWRT is an advanced testing instrument engineered for precise evaluation of wear resistance in dental composite resin materials. Designed for research laboratories, dental material manufacturers, and quality control facilities, this tester provides highly accurate and repeatable results for assessing both preliminary wear and wear loss in resin specimens.

By combining robust construction, intelligent automation, and high-precision measurement, the ToronMed™ DCRWRT Dental Composite Resin Wear Resistance Tester delivers reliable performance while ensuring operator safety and ease of use.

APPLICATIONS

Applications

- Dental Material Research & Development
- Quality Control in Dental Product Manufacturing
- Comparative Testing of Resin Formulations
- Academic and Clinical Research Studies

With its high precision, customizable testing parameters, and robust build quality, the ToronMed™ DCRWRT Dental Composite Resin Wear Resistance Tester ensures dependable wear resistance measurements for dental composite materials. Its intuitive controls, automated operation, and integrated safety features make it a preferred choice for laboratories seeking accuracy, efficiency, and long-term reliability.

FEATURES

Key Features

- Automated Wear Simulation – Simulates real-world abrasion through controlled circular motion cycles, including specimen lifting and rotation for consistent surface wear.
- Adjustable Test Parameters – Wear cycles can be set from 1 to 100,000, with speed adjustable between 0–300 mm/s.
- Precision Load Application – Includes stainless steel wear load weights of 22N and 172N for flexible test conditions.
- Advanced Control System – Embedded ARM chip microcomputer ensures high processing speed, test stability, and scalability.
- User-Friendly Interface – Large 10.1-inch color LCD touch screen for real-time data display and control.
- Integrated Safety Protection – Transparent acrylic protective cover made from aviation-grade material for safe and clear observation during testing.
- Onboard Printing & Data Output – Built-in micro printer for instant test record printing and RS232 interface for PC data transfer.
- High-Quality Components – Equipped with an SMC pneumatic control system and Panasonic motor for consistent, long-term operation.

TECHNICAL SPECIFICATIONS

Wear Load Weights	22N, 172N (stainless steel)
Wear Cycles	1 - 100,000 (settable)
Rubber Plate Size	Ø 100 ±1 mm, thickness 6 ±0.2 mm, Shore hardness 75 ±5°
Test Mold	Stainless steel
Protective Cover	Aviation-grade acrylic
Lifting Method	Pneumatic control (SMC system)

Speed	0 – 300 mm/s (settable)
Control System	ARM chip embedded
Gas Supply Pressure	0.4 – 0.7 MPa (external supply)
Net Weight	100 kg



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