

DROP WEIGHT IMPACT TESTER FAQs:

Model: DWT-1800 Drop Weight Impact Tester

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INSTALLATION REQUIREMENTS

What are the power requirements for the NG-DWT-1800– 300kN Electromechanical Universal Testing Machine

The DWT-1800 requires a 3-phase, 220V, 60Hz power supply for the main unit and winding engine. The air pump operates at 1-phase, 220V, 60Hz. The computer and monitor require 1-phase power at 110V, 60Hz.

What are the installation requirements for the NG-DWT-1800– Universal Testing Machine

The machine must be installed on a custom-prepared concrete foundation, as detailed in the foundation drawing included in the manual. The testing space must allow for a height clearance of at least 6 meters. Use a hoist to assist with installation. Ensure all components, including the host machine and electric winding engine, are level before pouring concrete for permanent placement.

<u>GRIPS, FIXTURES AND</u> SOFTWARE TURNKEY PACKAGE

What additional grips and fixtures are compatible with the Universal Testing Machine?

The DWT-1800 system includes a variety of hammers and anvils to meet different UL standards:

- Round hammers: φ51mm (9.1kg), φ150mm (34kg), φ25.4mm (1.36kg)
- Rectangular hammers: 50x152mm and 76x152mm in multiple weights
- Polyurethane hammer: 2.72kg
- Compatible anvils vary in material and size depending on the UL standard being tested.

What type of software is used on the NG-DWT-1800system?

The system uses WinImpact v1.0 software, a user-friendly, Windows-based platform designed for simple and effective operation of the drop weight testing system.

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What are the main functions of the WinImpact software?

You'll get precise, comprehensive output for:

- Preset hammer height or energy
- Real-time height and energy display
- Automatic drop and capture of the hammer
- Password-protected system parameters
- Exportable reports in Word and Excel format
- Built-in delay settings for anti-secondary impact protection

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CALIBRATION AND MAINTENANCE

Is the system delivered pre-calibrated and accompanied by the requisite certification?

Yes, the system comes factory-calibrated. The height factor is set to -0.084 and must not be modified unless recalibration is required.

How is displacement calibration performed if needed?

Place a standard ruler at a known height, lift the hammer to that height, and compare the displayed software value. Use the formula: Height factor = (Actual Height / Displayed Height) × Current Factor

Learn more about NextGen's <u>Scope of Accreditation</u> to help you with your Universal Testing and other quality control equipment calibration needs.

What type of care and maintenance is suggested for the Drop Weight Tester?

Testing Machine Maintenance Guidelines

- Regularly check and tighten mechanical bolts
- Drain the air pump monthly
- Apply anti-rust oil on guiding columns
- Periodically power on and move the hammer if the machine is unused for extended periods

If the machine exhibits problems please contact us directly for guidance, maintenance, or repair. <u>Contact us</u> online or call us at (888) 332-3582 ext. 3. for help with any abnormal readings, force irregularities, or system faults.

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TRAINING AND TECHNICAL SUPPORT

What training is offered with the NG-DWT-1800 Drop Weight Tester?

The system is designed with intuitive software, and training is supported via manuals, video instructions, and optional remote or on-site support from technical staff.

What types of technical support services are offered with the DROP WEIGHT TESTER system?

At NextGen, we're committed to being there for you every step of the way. Our priority is to resolve all technical issues within a few hours and have your system fully operational within 24–48 hours. While the vast majority of issues are resolved remotely, more complex cases are quickly diagnosed and, if needed, followed by an on-site visit within 24–48 hours of the incident.

To further minimize downtime, we maintain a stock of spare parts for prompt and often overnight delivery—ensuring your testing workflow remains uninterrupted.

With industry-leading technical support, NextGen is focused on maximizing your system's uptime, performance, and long-term adoption.

Additional value offered by NextGen to help eliminate downtime:

- Personalized Training: We provide remote or on-site training to ensure seamless integration and use of the system.
- Ongoing Guidance: Our support doesn't end after installation. You'll have access to continuous technical assistance, helping reduce errors and improve test consistency.

Need help? Contact our technical support team anytime:

L Phone: 888-332-3582 ext. 3

- Email: <u>sales@nextgentest.com</u>
- Submit a support ticket: <u>Online Portal</u>

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