



TORONTECH

REBAR BEND & RE- BEND TESTING MACHINE



Torontech's Steel Reinforcement Bar / Rebar Bend and Rebend Testing Machines are engineered to provide precise and reliable testing solutions for the construction and steel manufacturing industries. Designed in compliance with global standards, these advanced machines ensure your materials meet the highest quality and safety requirements.

With their robust design, user-friendly interface, and superior accuracy, they are ideal for assessing the mechanical properties of reinforcing bars (rebars) and other steel products.

Key Features

1. **Compliance with International Standards:** Fully adheres to ASTM A615, ASTM A615M, ASTM E290, BS 4449, DIN 488-2, API 5L, ISO 15630-1, and ISO 7438 standards for bend and rebend testing.
2. **Precision Testing:** Ensures accurate and repeatable results for evaluating the ductility, strength, and resilience of rebars.
3. **Robust Construction:** Heavy-duty frame and components designed to handle high loads and rigorous testing conditions.
4. **Versatile Applications:** Suitable for testing a wide range of materials, including high-strength steel, reinforcing bars, and metal tubes.
5. **Advanced Controls:** Equipped with a digital display or touchscreen interface for intuitive operation and data monitoring.
6. **Customizable Settings:** Adjustable bending angles and mandrel diameters to accommodate various material specifications.
7. **Safety Features:** Includes overload protection and emergency stop functions to ensure operator safety.

Standards Compliance

1. **ASTM A615 / ASTM A615M:** Specifies requirements for deformed and plain carbon-steel bars used in concrete reinforcement. Torontech's machines assess the bend properties to ensure bars meet strength and ductility requirements.

2. **ASTM E290:** Covers the bend testing of materials for ductility evaluation. The machine simulates real-world stress conditions to test material pliability and crack resistance.
3. **BS 4449:** Defines specifications for steel for the reinforcement of concrete, including mechanical property testing for bend and rebend performance.
4. **DIN 488-2:** Focuses on steel reinforcing bars and wires, requiring rigorous testing of bend and rebend characteristics to guarantee compliance.
5. **API 5L:** Specifies requirements for steel line pipes, ensuring materials meet stringent bending and resilience criteria for use in oil and gas pipelines.
6. **ISO 15630-1:** Details test methods for steel reinforcing and prestressing materials, including bend and rebend tests for quality assurance.
7. **ISO 7438:** Provides guidance for the bend test method to evaluate the ductility and bending performance of metallic materials.

Applications

1. **Construction Industry:** Ensures reinforcing bars meet structural integrity requirements for bridges, buildings, and other infrastructure projects.
2. **Steel Manufacturing:** Validates the mechanical properties of steel products for quality control.
3. **Pipeline Engineering:** Tests bend performance of materials used in pipelines for the oil and gas sector.
4. **Research and Development:** Ideal for testing new material formulations and compliance verification in laboratories.

Benefits

1. **Enhanced Material Quality:** Accurate testing improves product reliability and safety in critical applications.
2. **Standardized Results:** Ensures compliance with international testing standards, facilitating global trade and certification.
3. **Improved Productivity:** Fast and efficient testing processes save time and labor costs.
4. **Durability and Longevity:** Designed for long-term use with minimal maintenance requirements.

Why Choose Torontech?

Torontech is a trusted name in materials testing solutions, offering state-of-the-art equipment backed by exceptional customer service. Our Steel Rebar Bend and Re-bend Testing Machines are the result of cutting-edge engineering and decades of expertise in materials testing. With our machines, you can be confident in meeting all your testing needs with precision and reliability.

Contact Us

For more information about Torontech's Rebar Bend and Re-bend Testing Machines or to request a quote, please contact our sales team. Let us help you achieve unmatched accuracy and compliance in your testing processes.



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