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ADVANCED TESTING TECHNOLOGIES



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QUALITEST™

COLD BEND TESTING MACHINE QUALIBEND™



STANDARDS

API 5L
ASTM A615/615M
ASTM E290
ISO 7438

ASTM A615/A615M Standard Specification for Deformed and Plain Billet-Steel Bars for Concrete Reinforcement

The Cold Bend Testing Machine - QualiBend™ is used for bending of metallic materials such as Steel reinforcing bars, rebars, planks and steel screw threads. The machines operate with a hydraulic loading system to adjust the distance of the cold-bending press roll to drive the steel bar in both directions making the cold bending press roll forward and back.

APPLICATIONS

Cold Bend Testing Machine QualiBend™ for Steel Reinforcing Bars/Steel Plates



QualiBend™ Cold Bend Testing Machine is specially designed to test bend-resistance performance of reinforced rolling steel bars, building steel reinforcements and steel plates which meet the requirement of ASTM A615/615M, ASTM E290, ISO 7438, API 5L and other international and national specifications.

Generally, the deformed and plain carbon steel bars for concrete reinforcement in cut lengths shall withstand being bent around a pin without cracking on the outside radius of the bent portion. This machine is also capable to be customized for guided-bend (U bend) test on steel plates/welds.

Software

- User friendly interface

- Programmable loading procedure
- Test data recall, comparison and statistic are available



Test Procedure

1. Install rollers (cylinder support) and mandrel (loading nose) on machine
2. Adjust roller span
3. Place specimen over rollers
4. Program test procedure on software
5. Start test on software
6. Software recording real time load and bend deflection
7. Mandrel (loading nose) return to original position automatically
8. Test finish



FEATURES

Cold Bend Testing Machine QualiBend™ Feature:

- User friendly operation height
- Interchangeable mandrel (loading nose) and interchangeable roller (cylinder support)
- Adjustable roller span (distance between cylinder support)
- User specified loading speed
- Operations automatically done by software on computer, real time recording the load force and bend deflection
- Loading nose auto-return available

TECHNICAL SPECIFICATIONS

Cold Bend Testing Machine QualiBend™ Technical Specifications:

Model	QualiBend™ 200kN	QualiBend™ 300kN
Load Capacity	200kN	300kN
Distance Between Rollers	640mm (Customizable)	
Ram Stroke	300mm	
Bending Angle	User Specified but within 180°	
Rebar Diameter	Φ6mm ~ Φ40mm (others upon request)	
Steel Plate Thickness	6-25mm (others upon request)	
Roller Diameter	Φ20mm, Φ25mm (Customizable)	

Mandrels (loading nose)	Upon request
Power Supply	3phase, 380 V \pm 10%, 2.2kW
Dimensions	890 × 860 × 1870mm
Weight	1300kg
Note: <ol style="list-style-type: none">1. Mandrels (loading nose) upon request.2. Customized power system is available3. 40 Liters 46# or 68# anti-wear hydraulic oil should be prepared by user	



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Connect with us

Contact our **QualiTeam** today to find out how we can help your organization **select the most suitable testing solution** for your application, requirements, and budget.

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