

Cold Bend Testing Machine Type BTM-H350

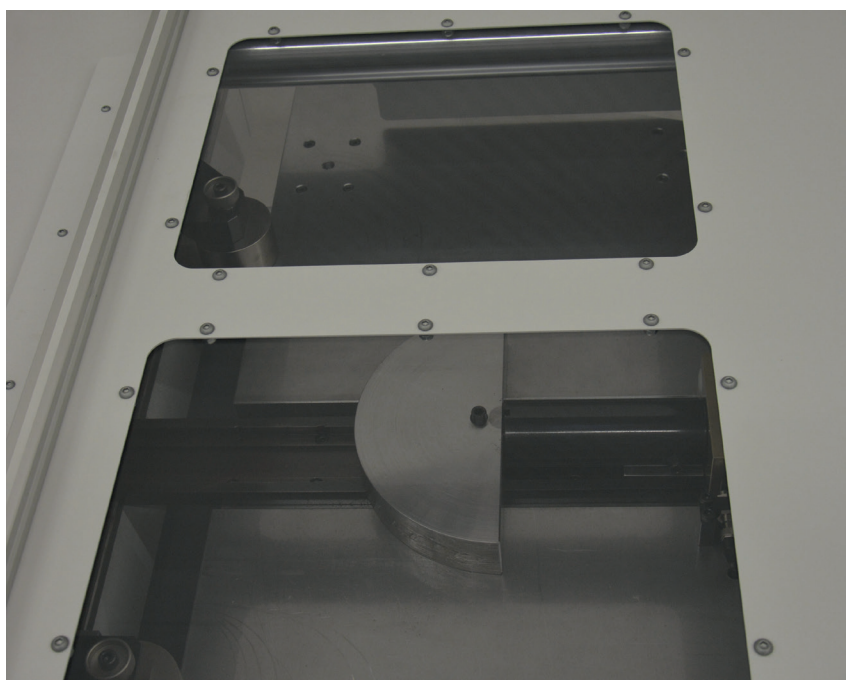
Designed for bending and straightening (re-bend)

This rebar bend and re-bend unit is designed to verify the bend resistance of reinforcing steel bars in accordance with EN 15603-1, ISO 7438, ASTM A615&A615M, EN 10080, BS4449 and other international standards.

As most reinforcing steel will require bending before it is installed into the concrete structure standards requires to perform bend test with specified minimum mandrel diameters and taking into consideration the effect of minimum temperatures and/or aging. Certain standards additionally require a re-bend test.



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The test consists in bending the bar up to 180° or to bend the same at 90° and then straighten (re-bend) if of at least 20°.

The horizontal design makes specimen loading and machine operation easy.

The machine is easy to operate. Beside of the main switch the hydraulic pump can be started and stopped by pressing the relevant buttons. The manual operated valve allows to move the cylinder forward or backward by simple stir the handle in direction the cylinder shall move. The piston speed can be adjusted at the throttle valve.

The hydraulic power supply with its components is integrated in the machine base. The base also offers storage space for the different mandrels, brackets and working tools. The safety guard that covers the workspace protects the operator in accordance with the 89/392/CEE Directive. The Protection device is supported by gas springs that make the opening and closing easier. The transparent top of the protection device enables the operator to have a good view to the unit during the test. The protection device is electrically monitored. The mandrels with different diameters are easy to change and the support rollers easy and stepless adjustable in accordance with relevant standard. The piston rod have some guidance to prevent horizontal/vertical buckling.

This unit is suitable for specimen diameters up to 63 mm.

The mandrels and the mandrel-holders are not included in the standard supply and have to be ordered separately.

Technical Data	
Max. piston load	350 kN (35.000 kg)
Piston stroke	700 mm
Test speed (manually adjustable)	up to 300 mm/min.
Quick approaching speed (adjustable)	up to 1000 mm/min.
Return speed (adjustable)	up to 1500 mm/min.
Bending rollers	Ø50 or 100 mm
Max. Bending roller distance (adjustable)	800 mm
Hardness of the bending rollers	58-62 HRC
Machine width	2650 mm
Machine depth	1500 mm
Machine height (closed guard)	1400 mm
Machine weight	approx.. 2800 kg

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