

COLD TEST BENDING MACHINE

STANDARDS: EN ISO 15630-1, 7438, EN 10080

150 kN capacity Cold Test Bending Machine is used for bending and re-bending tests of reinforcing bars, wire rod and wire for concrete in accordance with the requirements of EN ISO 15630-1.

The test piece is bent over a mandrel. The angle of bend and the diameter of the mandrel (D) is selected in accordance with the relevant product standard EN 10080.

The Bending test is performed with a minimum angle of bend of 180° over a mandrel according to EN ISO 15630-1.

For Re-Bending test, first the test piece is bent with a minimum angle of bend of 90° over a mandrel, in a second step, the aging treatment is applied and then the test pieces bent back up to a minimum of 20° according to EN ISO 15630-1.

After the test, test pieces are inspected for cracks and fissures visible to a person with normal or corrected vision.

Bending & Re-Bending Apparatus is used for Bending & Re Bending Tests on 8-40 mm diameter rebars. Bending & Re-Bending Apparatus and Mandrels should be ordered separately.

Spare Parts & Accessories:

Mandrels for Bending Apparatus:

Specimen Nominal Diameter	Maximum Mandrel Dia. (mm)		Specimen Nominal Diameter	Maximum Mandrel Dia. (mm)		
	TS 708			TS EN 10080		
d (φ) (mm)	Mandrel Code	Ø 5d	d (φ) (mm)	Mandrel Code	d ≤ Ø 16 3d	d > Ø 16 6d
8-9	HR-B6015/1	40	8-9	HR-B6015/11	24	---
10-11	HR-B6015/2	50	10-11	HR-B6015/12	30	---
12-14	HR-B6015/3	60	12-14	HR-B6015/13	36	---
16-18	HR-B6015/4	80	16	HR-B6015/14	48	---
20-22	HR-B6015/5	100	18-20	HR-B6015/15	---	108
24-25	HR-B6015/7	120	22-24	HR-B6015/16	---	132
26-28	HR-B6015/8	130	25-26	HR-B6015/17	---	150
30-32	HR-B6015/9	150	28-30	HR-B6015/18	---	168
40	HR-B6015/10	200	32	HR-B6015/19	---	192
			40	HR-B6015/20	---	240

Mandrels for Re-Bending Apparatus:

Specimen Nominal Diameter	Maximum Mandrel Dia. (mm)			
	TS 708 and TS EN 10080			
d (φ) (mm)	Mandrel Code	d ≤ Ø 16 5d	Ø16 < d ≤ Ø25 8d	d > Ø25 10d
8-9	HR-B6020/1	40	---	---
10-11	HR-B6020/2	50	---	---
12-14	HR-B6020/3	60	---	---
16	HR-B6020/4	80	---	---
18-20	HR-B6020/5	---	144	---
22-24	HR-B6020/6	---	176	---
25	HR-B6020/7	---	200	---
26-28	HR-B6020/8	---	---	260
30-32	HR-B6020/9	---	---	300
40	HR-B6020/10	---	---	400



HR-B0150

Technical Specifications:

Product Code	Product Name	Dimensions (cm)	Weight (kg)	Power Supply
HR-B0150	150 kN capacity Cold Test Bending Machine	150x85x120	520	220 V, 50 Hz, 1 ph
HR-B0150/60Hz	150 kN capacity Cold Test Bending Machine	150x85x120	520	220 V, 60 Hz, 1 ph
HR-B6010	Bending Apparatus for 8-40 mm diameter steel rebars	---	---	---
HR-B6015/1	Mandrel for 8-9 mm diameter samples, TS 708 Bending Test	---	---	---
HR-B6015/2	Mandrel for 10-11 mm diameter samples, TS 708 Bending Test	---	---	---
HR-B6015/3	Mandrel for 12-14 mm diameter samples, TS 708 Bending Test	---	---	---
HR-B6015/4	Mandrel for 16-18 mm diameter samples, TS 708 Bending Test	---	---	---
HR-B6015/5	Mandrel for 20-22 mm diameter samples, TS 708 Bending Test	---	---	---
HR-B6015/7	Mandrel for 24-25 mm diameter samples, TS 708 Bending Test	---	---	---
HR-B6015/8	Mandrel for 26-28 mm diameter samples, TS 708 Bending Test	---	---	---
HR-B6015/9	Mandrel for 30-32 mm diameter samples, TS 708 Bending Test	---	---	---
HR-B6015/10	Mandrel for 40 mm diameter samples, TS 708 Bending Test	---	---	---
HR-B6015/11	Mandrel for 8-9 mm diameter samples, TS EN 10080 Bending Test	---	---	---
HR-B6015/12	Mandrel for 10-11 mm diameter samples, TS EN 10080 Bending	---	---	---
HR-B6015/13	Mandrel for 12-14 mm diameter samples, TS EN 10080 Bending	---	---	---
HR-B6015/14	Mandrel for 16 mm diameter samples, TS EN 10080 Bending Test	---	---	---
HR-B6015/15	Mandrel for 18-20 mm diameter samples, TS EN 10080 Bending	---	---	---
HR-B6015/16	Mandrel for 22-24 mm diameter samples, TS EN 10080 Bending	---	---	---
HR-B6015/17	Mandrel for 25-26 mm diameter samples, TS EN 10080 Bending	---	---	---
HR-B6015/18	Mandrel for 28-30 mm diameter samples, TS EN 10080 Bending	---	---	---
HR-B6015/19	Mandrel for 32 mm diameter samples, TS EN 10080 Bending Test	---	---	---
HR-B6015/20	Mandrel for 40 mm diameter samples, TS EN 10080 Bending Test	---	---	---
HR-B6020	Re-Bending Apparatus for 8-40 mm diameter steel rebars	---	---	---
HR-B6020/1	Mandrel for 8-9 mm diameter samples, TS 708 and TS EN 10080	---	---	---
HR-B6020/2	Mandrel for 10-11 mm diameter samples, TS 708 and TS EN 10080	---	---	---
HR-B6020/3	Mandrel for 12-14 mm diameter samples, TS 708 and TS EN 10080	---	---	---
HR-B6020/4	Mandrel for 16 mm diameter samples, TS 708 and TS EN 10080	---	---	---
HR-B6020/5	Mandrel for 18-20 mm diameter samples, TS 708 and TS EN 10080	---	---	---
HR-B6020/6	Mandrel for 22-24 mm diameter samples, TS 708 and TS EN 10080	---	---	---
HR-B6020/7	Mandrel for 25 mm diameter samples, TS 708 and TS EN 10080	---	---	---
HR-B6020/8	Mandrel for 26-28 mm diameter samples, TS 708 and TS EN 10080	---	---	---
HR-B6020/9	Mandrel for 30-32 mm diameter samples, TS 708 and TS EN 10080	---	---	---
HR-B6020/10	Mandrel for 40 mm diameter samples, TS 708 and TS EN 10080	---	---	---

