

H065N COLD BEND TESTING MACHINE

STANDARDS: EN ISO 7438, EN ISO 15630-1 | ASTM A615, ASTM A615M | D.M. 14/1/1988

This equipment has been studied and designed to perform bending tests on steel bars for reinforced concrete.



SPECIFICATIONS:

- Max. piston load: 160 kN
- Max. piston stroke: 550 mm
- Piston speed adjustable from 0 to 6 mm/s
- Power supply: 230V 1ph 50 Hz 1500W
- Dimensions: 1540x800x1300 mm
- Weight: 350 kg approx.

The machine can perform two types of test:

- bending the specimen through 180° only with mandrels up to max. 96 mm included.
- bending the specimen through 90° and then straightening it again up to a minimum of 20° only with mandrels over 96 mm diameter.

This bending machine is composed of a rugged frame supporting a beam having a cylinder with relevant load piston fixed on it, being activated by an hydraulic cell complete with speed adjuster for the piston, direction control valve, max. pressure valve, control gauge. The whole is cased to protect every single component from the dust, and the operator from any possible danger. A small bowl has been fitted under the beam, where the steel bar is bent.

Two contrasting rollers are fitted on the beam. They may easily be adjusted in distance to be in accordance with the Standards concerning bars having diameter between 5 and 40 mm.

Fixing and changing the mandrels on top of the thrust cylinder is easy and practical and grants the operator a perfect interchangeability of the same. A device prevents the unlocking of the bar under test from the relevant rollers and the contrasting mandrel both during the bending and the straightening operation.

The machine accepts bars up to \varnothing 40 mm and is supplied complete with two series of rollers, having respectively \varnothing mm 50 and 100.

The mandrels, the mandrel-holders and the brackets are not included in the standard supply and have to be ordered separately. (see table).

ACCESSORY

H065-01 SAFETY GUARDS to CE Safety Directives.



TABLE OF THE AVAILABLE MANDRELS AND BRACKETS FROM Ø 5 TO Ø 40 ACCORDING TO: EN, ASTM, D.M.

Mandel Model	Mandel Ø mm	Rebar Ø mm EN ISO 15630-1	Rebar Ø mm ASTM A615-A615M	Rebar Ø mm D.M. 14-01-08	Mandrel-Holder Model	Bracket Model	Bracket Distances mm
H066-07	24	4 e 6	-	6	H067-03	H068-12	80, 170, 226
H066-10	32	7	9,5	8	H067-03	H068-17	98, 196
H066-12	40	8	-	10	H067-03	H068-17	98, 196
H066-14	44	-	12.7	-	H067-03	H068-13	85, 172, 298
H066-15	48	-	-	12	H067-03	H068-11	75, 160, 262
H066-18	56	10	15.9	-	H067-04	H068-20	110, 244
H066-19	60	-	-	12	H067-04	H068-13	85, 172, 298
H066-20	64	12	-	-	H067-04	H068-13	85, 172, 298
H066-61	70	-	-	14	H067-04	H068-19	106, 226
H066-62	80	-	-	16	H067-04	H068-20	110, 224
H066-24	96	14	19	-	H067-04	H068-12	80, 170, 226
H066-28	112	16	22.2	-	* No	H068-21	120, 254
H066-30	128	18	25.4	-	* No	H068-13	85, 172, 298
H066-31	132	20	-	-	* No	H068-01	200, 260, 412
H066-32	140	22	-	-	* No	H068-05	232, 342, 516
H066-33	144	-	-	18	* No	H068-13	85, 172, 298
H066-35	160	-	-	20	* No	H068-09	230, 320, 490
H066-36	176	-	-	22	* No	H068-05	232, 342, 516
H066-37	180	24 e 26	-	-	* No	H068-07	244, 364, 550
H066-49	192	-	-	24	* No	H068-07	244, 364, 550
H066-38	200	28	28.7	25	* No	H068-08	250, 375, 580
H066-40	224	30 e 32	32.2	-	* No	H068-05	232, 342, 516
H066-41	250	-	35.8	-	* No	H068-05	232, 342, 516
H066-53	260	-	-	26	* No	H068-03	220, 280, 438
H066-43	280	-	-	28	* No	H068-04	225, 292, 464
H066-45	320	34 e 38	-	32	* No	H068-22	122, 542, 594
H066-46	336	40	-	-	* No	H068-23	134, 568, 620
H066-58	340	-	-	34	* No	H068-22	122, 542, 594
H066-60	400	-	-	40	* No	H068-23	134, 568, 620

TABLE OF OTHER AVAILABLE MANDRELS AND BRACKETS

Mandrel Mod.	Ø mm Mandrel	Mandrel-Holder Mod.
H066-01	10	H067-01
H066-02	12	H067-01
H066-03	15	H067-02
H066-04	16	H067-02
H066-05	18	H067-02
H066-06	20	H067-02
H066-08	28	H067-03
H066-09	30	H067-03
H066-11	36	H067-03
H066-13	42	H067-03
H066-16	50	H067-03
H066-51	52	H067-04
H066-17	54	H067-04
H066-21	66	H067-04

Mandrel Mod.	Ø mm Mandrel	Mandrel-Holder Mod.
H066-48	72	H067-04
H066-22	75	H067-04
H066-52	78	H067-04
H066-23	84	H067-04
H066-55	90	H067-04
H066-26	108	* No
H066-63	114	* No
H066-39	220	* No
H066-50	240	* No
H066-56	300	* No
H066-54	312	* No
H066-57	360	* No
H066-59	380	* No
H066-47	384	* No

Bracket Model	Bracket Distances mm
H068-02	210, 268, 425
H068-06	240, 360, 520
H068-10	256, 386
H068-14	86, 180

Bracket Model	Bracket Distances mm
H068-15	90, 184
H068-16	92, 190
H068-18	100, 208

 ***Note:** From Ø 100 to 400 mm the mandrel is directly fitted to the piston without using a mandrel-holder.

All mandrels have been produced from quality steel and cadmium plated for rust protection, and from Ø 10 mm up to Ø 96 mm included have been hardened to make them wearproof.