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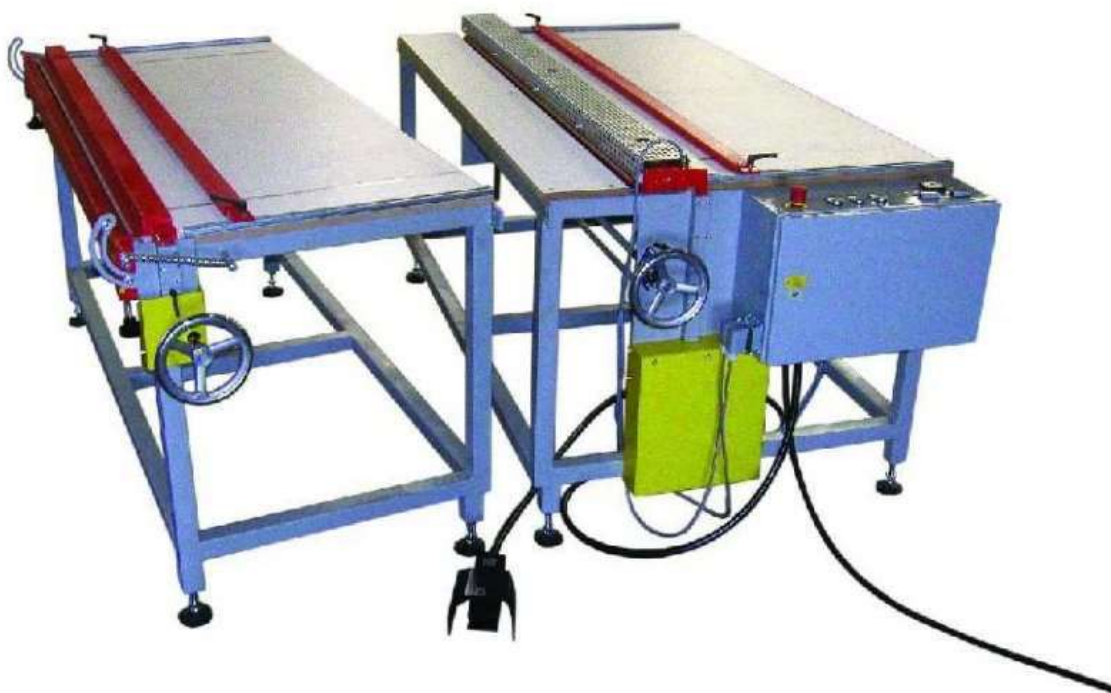
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Technical Data - Manual Bending Machine Model BH



Picture: INGENIA 15.10 BH

Manual Bending Machine Model BH

INGENIA bending machinery, model BH, are robust all-round machines with a flexible range of application. The smallest model shows 1m working width (model 10.xx BH), the largest available machine has a working width of 2 m (model 20.xx BH), the maximum bendable thickness is 10 mm. The machinery is designed to fold-weld all semi crystalline thermoplastics as PE, PP and PVDF as well as to brilliantly bend amorphous thermoplastics as PVC, PMMA (acrylics), PET and PS

Structure of the machine:

The main frame is designed as a solid rectangular- hollow- steel profile construction. The table is designed to avoid misalignment of the resulting bending area by torsion and load stress even in high frequent usage. The machine is driven manually. Permanently lubricated ball bearings with solid dimensioning guarantee precision for lifetime.

The clamping beam consist of solid hollow steel profile. The basic machine, equipped with one lower IR- heating- elements, is designed for long-term application with continuously max. 400°C.

The simple to operate push button controls is integrated in a control desk. It is located at the front of the machine.

Operation of the machine:

The bending process is executed manually. All operating elements are located in the control desk and optional in a separate control box.

All parameters may be adopted individually by the user.

Machine specials:

It is equipped with exchangeable heating elements. By opening 2 screws and one plug the machine is transformed from contact to contact less heating with the optional infrared heating elements.

To keep the position of the machine flexible the machine may be equipped with heavy-duty rolls.



Standard Machine:

Fixed control panel, opposite of opening side

Separated temperature control for upper and lower heating element

Digital temperature read out

Timer to adjust heating time

One lower dark wave single line heating element $T_{\max} = 400^{\circ}\text{C}$

Lower heating element height adjustable to influence width of heated area

Adjustment for width of lower heating area

Heating table and bending table are separated to allow simultaneous heating and cooling

Quick connector system for fast exchange of lower heating element

Machine is prepared to preinstall an upper heater with electrical drive at any time

Clamping beam with quick releasing bolt, to take out bended pipes

Air cooling system integrated into clamping beam of bending table

Fixation/ support unit to stabilize the vertical bended leg

Angle adjustment $10 - 120^{\circ}$

Foot switch to start heating process

Acoustic signal after end of heat cycle

Paint: red / grey

Technical data of standard machine, model xx.10 BH:

	Unit	10.10 BH	15.10 BH	20.10 BH	
Main dimension					
Length	mm	1800	2300	2800	
Width heating table	mm	1100	1100	1100	
Width bending table	mm	1200	1200	1200	
Height/ height of table	mm	1200/900	1200/900	1200/900	
weight	to	0,4	0,6	0,8	
Range of application					
Max. working width	mm	1050	1550	2050	
Bendable thickness	mm	2- 10	2- 10	2- 10	
Min. length of bended side	mm	see recommend of sheet producer			
Min. channel dimensions	mm	70 x 100	70 x 100	70 x 100	
Min./ max. bend angle	mm	10°-120°	10°-120°	10°-120°	
Clamping areas		1	1	1	
Energie supply					
electrical		230/400 V	3/N/PE	50-60 Hz	
performance	kW	1,3	1,8	2,3	
pneumatic	bar	not necessary			
Heating unit					
IR element		width	15mm	T _{max} =	400°C

**** Changes in technical details possible ****