Heating & Edging Machines

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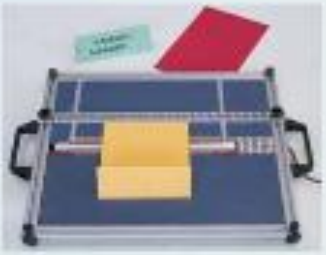
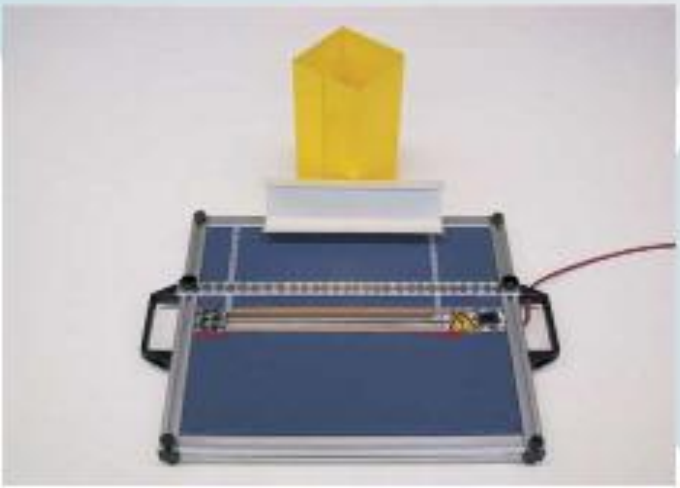


Heating & Edging Machines

Benefit from our know-how

This brochure is intended to help you with selecting the devices or machines that suit your requirements best.

Our product range includes everything needed for heating and edging thermoplastic panels with a material thickness from 0.25 to 20.0 mm from the small entry-level model to the professional machine.



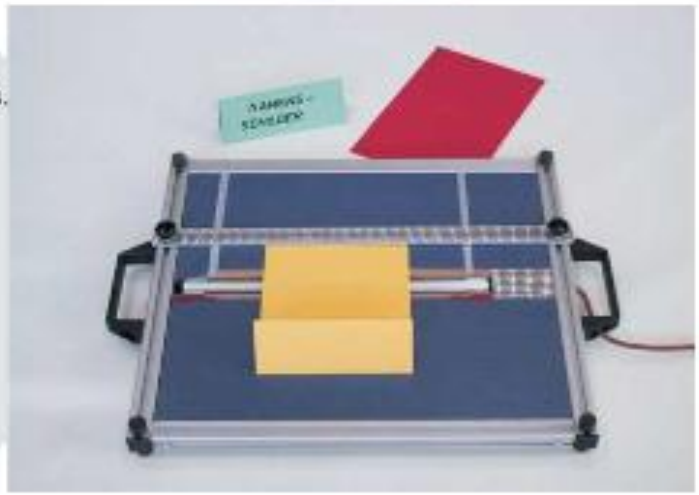
The **mini heating board** is the cheapest alternative on the entry level for heating small displays or other components before bending them.

Since both sides of the locating surfaces can be used, it is possible to heat films with a thickness of 0.251.0mm on one side and thermoplastic panels with a thickness of 1-4mm on the other side in order to make them flexible with no need for time-consuming resetting.

The device excels by its small, compact, transportable and versatile application options.

Mini heating board

Max. width of work	mm	300
Panel thickness	mm	0,25-4
Device width	mm	660
Device depth	mm	500
Supply voltage	V	230
Connected load	W	250
Device weight	kg	8,2



MMH and HS Entry-Level Models

As an extension to our entry-level model, we offer a **mini multiple heating board** with either two or three heating zones.

Such as the **mini heating board**, it enables you to heat films with a thickness of 0.25-1.0mm on one side and thermoplastic panels with a thickness of 1.0-4.0mm on the other side in order to subsequently bend them manually or by means of a form.

The **manual heating blade** of the **HS** range is particularly suitable for use at building sites in order to weld PP and PE panels by bending in tank, ventilation and apparatus construction.

The temperature of the Teflon-pad heating element is exactly adjusted by a digital temperature controller.
The supplied support frame allows to safely deposit the device when it is not used.

Technical data:

		HS 100	HS 150	HS 200
Width of work	mm	1000	1500	2000
Connected load	kW	0,7	1,0	1,1
Supply voltage	V	230	230	230
Weight	kg	7	9	11

Table-Top Heating Boards from the TG Range

Fig. Table-top heating board incl. Accessories

The **TG table-top heating board** is made from aluminium profile and, such as all of our devices and machines, has a heating system that consists of black radiators.

he heating temperature is adjusted and monitored by digital temperature controller. This ensures an exact and reproducible heating of all thermoplastics. e parallel stop that is available as an accessory and digital time switch are very helpful when producing small batches.

By attaching the Teflon-pad slip-on strip (accessory), it is also possible to heat 0.25 to 1.0mm films within only a few seconds in order to make them flexible.

Table-top heating board

		TG 50	TG 100	TG 150	TG 200	TG 250	TG 300
Max. width of work	mm	500	1000	1500	2000	2500	3000
Max. panel thickness	mm	6	6	6	6	6	6
Device width	mm	900	1400	1900	2400	2900	3400
Supply voltage	V	230	230	230	230	230	230
Connected load	kW	0,5	0,7	1,0	1,1	1,5	1,6
Device weight	kg	7	12	15	18	21	24

Fig Table-top heating board w/ top heater incl. accessories

The **TG mO table-top heating board** has the same sign as the TG table-top heating board, but it allows r heating panels of up to 12mm in order to make m flexible since heat is provided from both sides.

thermore, it is equipped with a digital time switch for sequence control with an audible alarm for removing the workpieces as standard.

A PTFE-coated heating blade for welding PE or PP panels by bending is available as an accessory.

Table-top device w/ bottom and top heater		**TG 100mO**	**TG 150mO**	**TG 200mO**	**TG 250mO**	**TG 300mO**
Max. width of work	mm	1000	1500	2000	2500	3000
Max. panel thickness	mm	12	12	12	12	12
Device width	mm	1400	1900	2400	2900	3400
Supply voltage	V	230	230	230	230	230
Connected load	kW	1,4	2,0	2,2	3,0	3,2
Device weight	kg	22	28	34	40	46

Heating Stages from the HBR range

Mobile heating stage

		HBR 100	HBR 150	HBR 200	HBR 250	HBR 300
Max. width of work	mm	1000	1500	2000	2500	3000
Max. panel thickness	mm	20	20	20	20	20
Machine width	mm	1700	2200	2700	3200	3700
Machine length	mm	800	800	800	800	800
Machine height	mm	750	750	750	750	750
Height of work stage	mm	500	500	500	500	500
Supply voltage	V	400	400	400	400	400
Connected load	kW	1,4	2,0	2,2	3,2	4,0
Machine weight	kg	90	100	120	130	150

The modular design of the heating stages enables the user to compose a machine that fits their purpose best so that a maximum utilisation can be achieved.

In order to enlarge the heating surface when bending larger radiuses, the machine can be reset within a few seconds.

Furthermore, it is possible to replace the top heater with a heating blade for welding PE or PP panels by bending in almost no time.

Machine modules

- **Basic model** consisting of:

  -device for the bottom heater with adjustable height
  -heating width adjustment
  -digital temperature controller for the bottom and top heater
  -digital time switch for sequence control with audible alarm
  -hoisting motor for adjusting the height of the top heater incl. foot switch

- **Simple bottom heater**
- **Simple top heater**
- **Double bottom heater**
- **Double top heater**
- **Heating blade for PE and PP heating by contact**

The many accessories allow for heating all thermoplastics (e.g. PVC, PC, PMMA, PA, PS, PE and PP) with a material thickness of up to 20mm in order to be subsequently bent or edged by means of the newly designed edging bench.

Height adjustment

This standard equipment serves to widen the heating zone when bending radiuses of up to 30mm.

Heating blade

Teflon-pad heating blade for heating PE and PP panels with a material thickness of up to 20mm and a width of work of 3000mm by contact.

Edging benches from the AB range

Fig. Edging bench incl. Accessories

The **mobile edging bench** is designed for use in tank construction for edging PE or PP panels.

However, it can also be used for edging thermoplastics such as PVC, PMMA, PC and PS.

Mobile edging bench

		AB 100	AB 150	AB 200	AB 250	AB 300
Max. width of work	mm	1000	1500	2000	2500	3000
Max. panel thickness	mm	20	20	20	20	20
Machine width	mm	1850	2350	2850	3350	3850
Machine depth	mm	800	800	800	800	800
Machine height	mm	1100	1100	1100	1100	1100
Height of work stage	mm	940	940	940	940	940
Machine weight	kg	90	100	120	130	150

The special design of the hold-down bar also allows to edge section tubes and then remove them from the machine by opening the hold-down bar on its side (see fig.). The entire machine is designed in a way that reproducible angles of up to 130° and radiuses of up to 30mm can be produced.
This ensures high flexibility and versatility.

Combined machines from the HBR-K range

The machines of the **HBR-K** range are combined heating and edging machines.

Their compact design makes them very space-saving.

At the same time, the same applications are available to the user as with the conventional HBR and AB machines.

Mobile heating stage

		HBR 100 K	HBR 150 K	HBR 200 K	HBR 250 K	HBR 300 K
Max. width of work	mm	1000	1500	2000	2500	3000
Max. panel thickness	mm	20	20	20	20	20
Machine width	mm	1700	2200	2700	3200	3700
Machine length	mm	1200	1200	1200	1200	1200
Machine height	mm	750	750	750	750	750
Height of work stage	mm	500	500	500	500	500
Supply voltage	V	400	400	400	400	400
Connected load	kW	1,4	2,0	2,2	3,2	4,0
Machine weight	kg	110	120	140	150	170

Machine modules

Basic model consisting of:

- device for the bottom heater with adjustable height
- heating width adjustment
- digital temperature controller for the bottom and top heater
- digital time switch for sequence control with audible alarm
- hoisting motor for adjusting the height of the top heater incl. foot switch
- edging device for edging panels up to an angle of 130° and a max. radius of 30mm

Accessory:

- **Simple bottom heater**
- **Simple top heater**
- **Double bottom heater**
- **Double top heater**
- **Heating blade for PE and PP heating by contact**

Multiple heating stages from the MHT range

The **multiple heating stage** is particularly suitable for heating two or more edging points at the same time.

Such as with all or our machines, each of its heaters is controlled by a separate digital temperature switch so that each heating zone can exactly be adjusted.

The heating time is controlled by an integrated time switch that automatically opens and enables an audible alarm when the set heating time has expired.

Multiple heating stage

		MHT 100	MHT 150	MHT 200	MHT 250	MHT 300
Max. width of work	**mm**	1000	1500	2000	2500	3000
Machine width	mm	1900	2400	2900	3500	3900
Machine depth	mm	2200	2200	2350	2350	2350
Height of work	mm	920	920	920	920	920
Supply voltage	V	400	400	400	400	400
Connected load	kW	1,4	2,0	2,2	3,2	4,0
Machine weight	kg	290	350	450	500	600

Multiple bending stages from the MBT range

Fig. Bending table incl. accessories

The **mobile multiple bending stage** particularly excels by its easy and logical handling.

allows for bending workpieces from PVC, PMMA, C, PA and other thermoplastics after heating in a producible max. angle of 140° or a max. radius of 40mm.

The machine is particularly recommended for use in the production of:

- any kind of covers, e.g. for instruments, showcases, apparatuses for the electrical and chemical industry
- ventilation systems, e.g. ventilation shafts
- elements for furniture construction, e.g. side tables from PMMA
- lamps, casings, accessories or brochure displays in the advertising sector

Mobile multiple bending stage

		MBT 100	MBT 150	MBT200
Max. width of work	mm	1000	1500	2000
Max. panel thickness	mm	12	12	12
Machine width	mm	1600	2100	2600
Machine depth	mm	1100	1100	1100
Machine height	mm	650	650	650
Height of work stage	mm	500	500	500
Machine weight	kg	90	100	120

Bending form from the BS range

The **bending form** can be used for easily and quickly producing different U-profiles.

The adjustable bending stops allow for setting stepless wings between 25° and 135°.

A travel mechanism allows for universally setting the inner dimension of the U-profiles up to a maximum of 1000mm.

The time- and cost-intensive production of forms can thus be avoided.

Bending form		**BS 120**
Width of work	mm	1200
Depth of work	mm	1000
Height of work	mm	930
Weight	kg	90

Mini polishing machine from the MPM range

The **mini polishing machine** can be used to quickly and easily polish cutting and milling edges on acrylic glass etc.

The panel is moved past the diamond-stud polishing head by means of a conveyor belt.

The adjustable stage allows for treating edges with an angle of up to 45°.

Polishing machines for larger panels upon request.

Mini polishing machine		**MPM**
Max. polishing height	mm	25
Folding angle of the table		45°
Speed	min^{-1}	4000-12000
Output	W	900

BAK Thermoplastic Welding Technology Ltd. is a Swiss-based company with its own production, development and warehouse facilities in Switzerland and Germany (HERZ, DOHLE). BAK is one of the leading manufacturers of plastic welding equipments, hot air tools, extruders, heaters, blowers, folding and bending tables. We are the solution for plastic fabrication, printing and packaging, pipe construction, roofing, civil engineering, tunneling, waterproofing membranes, process heat, tarpaulins, billboards, flooring and much more.

BAK Asia Co., Ltd. is covering the entire Asian and Oceanic market and is responsible for answering to all technical, sales and marketing questions for all our customers in the fastest and most professional way. Would you like to have product training? Please contact us for an appointment.

We are offering a wide range of machines and accessories:

- Hot Air Tools (Hand held)
- Wedge Welding Machines
- Hand Extrusion Welders
- Industrial Heaters
- Heating & Folding Machines
- Hot Air Blowers
- Hot Air Welding Machine
- Industrial Extruders
- Industrial Blowers
- Test Equipment

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