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creating excellence



Zero joint edge bander  
HIT-M

# Zero joint edge bander HIT-M: The zero joint turns mobile.

The HIT-M is the first and only mobile device for creating an optical zero joint. With the hot air injection technique, all customary zero joint edges with applied functional layer can be processed - without the use of additional adhesive.

## RADI



Especially due to the driven pressure roller of the SA-model, extreme inner radii as from 10 mm can be effortlessly implemented.

## BEVELLED EDGES



The edging of bevelled surfaces can be realised with a few simple steps. In mobile application, it is possible to achieve up to 50°, while 55° can be achieved with the pneumatic angle adjustment in the machining table.

## NO SET-UP TIMES



The working temperature is reached a few seconds after switching on the unit. With the HIT-M there is no need for time-consuming colour changes or cleaning of glue pans.

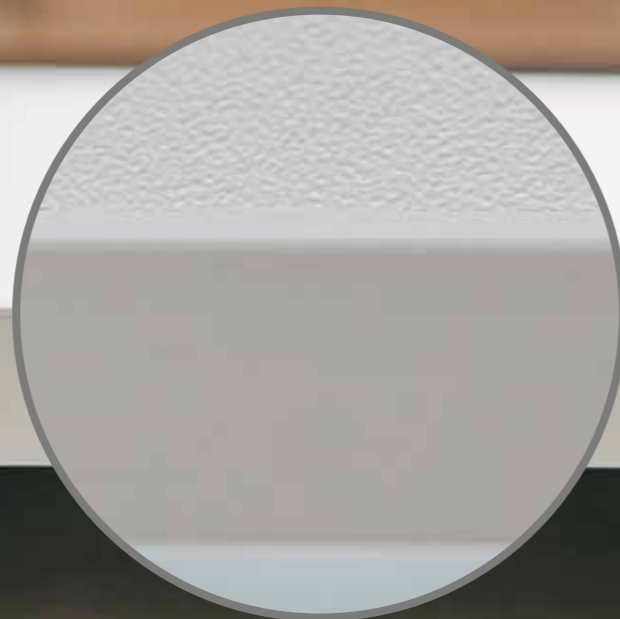
## LARGE DIMENSIONS



Large edge heights of up to 65 mm (2 9/16 in) or 103 mm (4 1/16 in) are infinitely adjustable and can therefore be approached according to the thickness of the workpiece.

## ZERO JOINT

The optical zero joint has been a quality standard in industrial production for years. With the HIT-M, this can now also be implemented in mobile or semi-stationary applications.



# Zero joint edge bander HIT-M: Versatile applications

The HIT-M can be flexibly used and is ideal for intricate components. Especially with free-forms or tight radii it shows its great strengths. Besides, perfectly straight, bevelled and round panel materials can be processed.

## INSIDE RADIUS

The generation of inside radii is extremely easy with the HIT-M 65 SA incl. driven pressure roller.

### This is how it's done:

Adjust edge height. Lock the swivelling pressure roller in the desired position. Adjust temperature and feed rate - done.

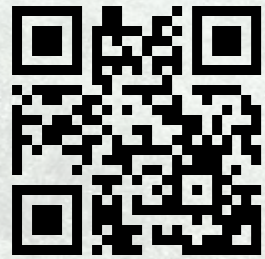


## FREE-FORMS

Individual and intricate free-form parts can be excellently produced with the HIT-M 65 SA incl. driven transport roller and the BAT machining table.

### This is how it's done:

Adjust edge height, temperature and feed rate. Position the ball casters on the BAT according to the form. Switch on and move the free form over the pressure roller.



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## BEVELLED EDGES

With or without machining table, it is possible to edge bevelled cut surfaces of up to 50° or 55°.

### This is how it's done:

Mobile: Swivel support plate to angle. Adjust temperature, feed and edge height. Approach zero joint edge.

Semi-stationary: Swivel the pneumatic angle adjustment with locking function to the required angle. Adjust temperature, feed and edge height - done.



## LARGE DIMENSIONS

Worktops with edge thicknesses of up to 103 (4 1/16 in) mm can be processed with the HIT-M 103.

### This is how it's done:

Set the edge height via the nozzle aperture, adjust the temperature and feed rate and get started.



# Zero joint edge bander HIT-M: Perfection in every detail.

Long since standard in industry, now mobile in trade. All details of the zero joint edge bander contribute to high process reliability, increase flexibility and fast processing.

## SWIVELLING

For bevelled plate edges, the support plate can be swivelled up to 50°.



## EDGES

All commercially available edges from 0.4 - 3 mm (1/64 - 1/8 in) with pre-coated or post-coated functional layer can be processed with the HIT-M.

## EDGE FEED

Automatic edge feed with edge detection as stop function.

## FEED

The feed rate is infinitely variable from 1 - 5.5 m/min (3,3 - 18,0 ft).

## HEIGHT ADJUSTMENT

The height adjustment is infinitely variable from 10 to 65 or 103 mm (3/8 to 2 9/16 or 4 1/16 in) edge height.

## HOLD-DOWN DEVICE

In order to enhance the contact of the plate on the ball casters of the BAT machining table, it is optionally possible to set the hold-down device that is available as an optional extra to the exact plate height.



## CONTROL UNIT

A clear arrangement of the control elements makes working with the device simple and intuitive.



## CONNECTION SOCKET

Working can be considerably simplified by using a foot snitch that is available as an accessories.



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# Machining table BAT: Mobile turns into semi-stationary.

When used in conjunction with the BAT machining table, the mobile zero joint edge bander turns into a semi-stationary system. Due to the perfect workpiece support with adjustable ball casters, almost any edge banding situation is possible.



## BALL BEARING CASTERS

Each individual 360° bearing can be serted or repositioned individually. Ideal for variable positioning.



## ANGLE TABLE FUNCTION

The BAT significantly simplifies the approaching of bevelled edges. All angle settings from 0 - 55° are freely adjustable. Commonly used angle settings can be locked. Pneumatic unlocking and damping of the angle adjustment facilitate handling.



## WHEELS

For easy transport and mobility in the workshop.

## SWIVELLING VACUUM PLATE

The workpiece can be fixed with the vacuum plate to ensure safe finishing of the edge. When it is not used, it is switched off by a touch valve. Other plate shapes are available as optional accessories.



## SCOPE OF SUPPLY

**Machining table BAT+**  
Ref. No. 9K0101  
**42 ball casters**  
**1 connection package 4 m (13,1 ft)**  
voltage/compressed air  
**1 angle table**  
pneumatically adjustable  
**1 vacuum system**  
Vacuum plate round Ø160 mm (6 5/16 in)

**Machining table BAT**  
Ref. No. 9K0102  
**42 ball casters**  
**1 connection package 4 m (13,1 ft)**  
voltage/compressed air  
**1 angle table**  
pneumatically adjustable



<https://hit-m.mafell.de>

## TECHNICAL DATA

<b>Overall dimensions</b>	790 x 670 x 1000 mm (31 1/8 x 26 3/8 x 39 3/8 in)
<b>Dimensions table top</b>	780 x 490 mm (30 11/16 x 19 5/16 in)
<b>Working height</b>	1000 mm (39 3/8 in)
<b>Swivel range</b>	0 - 55°
<b>Connection voltage</b>	230 V / 16A
<b>Connection compressed air</b>	6 - 10 bar
<b>Weight</b>	12.0 kg (26,5 lbs)

# Technical data and accessories.



Technical data	HIT-M 65	HIT-M 65 SA	HIT-M 103
<b>Nominal voltage</b>	230 V	230 V	230 V
<b>Nominal power consumption</b>	3050 W	3050 W	3050 W
<b>Edge height</b>	10 - 65 mm ( $\frac{3}{8}$ - 2 $\frac{9}{16}$ in)	10 - 65 mm ( $\frac{3}{8}$ - 2 $\frac{9}{16}$ in)	10 - 103 mm ( $\frac{3}{8}$ - 4 $\frac{1}{16}$ in)
<b>Swivel range</b>	0 - 50°	0 - 50°	0 - 50°
<b>Edge thickness</b>	0.4 - 3.0 mm ( $\frac{1}{64}$ - $\frac{1}{8}$ in)	0.4 - 3.0 mm ( $\frac{1}{64}$ - $\frac{1}{8}$ in)	0.4 - 3.0 mm ( $\frac{1}{64}$ - $\frac{1}{8}$ in)
<b>Min. inside radius</b>	22 mm ( $\frac{7}{8}$ in)	10 mm ( $\frac{3}{8}$ in)	22 mm ( $\frac{7}{8}$ in)
<b>Heating time</b>	30 s	30 s	30 s
<b>Temperature</b>	max. 520 °C	max. 520 °C	max. 520 °C
<b>Infinitely variable feed rate</b>	1 - 5.5 m/min (3,3 - 18,0 ft/min)	1 - 5.5 m/min (3,3 - 18,0 ft/min)	1 - 5.5 m/min (3,3 - 18,0 ft/min)
<b>Weight</b>	10.8 kg (23 $\frac{13}{16}$ lbs)	10.8 kg (23 $\frac{13}{16}$ lbs)	10.9 kg (24 $\frac{1}{32}$ lbs)
<b>Dimensions (L x W x H)</b>	220 x 160 x 360 mm (8 $\frac{11}{16}$ x 6 $\frac{9}{16}$ x 14 $\frac{3}{16}$ in)	220 x 160 x 360 mm (8 $\frac{11}{16}$ x 6 $\frac{9}{16}$ x 14 $\frac{3}{16}$ in)	220 x 160 x 400 mm (8 $\frac{11}{16}$ x 6 $\frac{9}{16}$ x 15 $\frac{3}{4}$ in)
<b>Connection compressed air</b>	6 - 10 bar	6 - 10 bar	6 - 10 bar
<b>Ref. No.</b>	<b>9K0001</b>	<b>9K0002</b>	<b>9K0003</b>

## Scope of supply:

<b>1 swivelling driven roller</b>	-	x	-
<b>1 Tanos systainer size 5</b>	x	x	-
<b>1 swivelling support plate</b>	x	x	x
<b>1 cleaning brush</b>	x	x	x
<b>2 locking bolts (short and long)</b>	x	-	x
<b>1 locking screw</b>	-	x	-
<b>1 hexagon socket 3 mm (<math>\frac{1}{8}</math> in)</b>	x	x	x
<b>1 hexagon socket 4 mm (<math>\frac{3}{16}</math> in)</b>	x	x	x
<b>1 hexagon socket 5 mm (<math>\frac{3}{16}</math> in)</b>	x	x	x
<b>1 hexagon socket 6 mm (<math>\frac{1}{4}</math> in)</b>	x	x	x
<b>1 eye bolt with shackle</b>	x	x	x
<b>1 connection package 5 m (16,4 ft) (voltage/compressed air)</b>	x	x	x

The HIT-M is available in three models. With the matching optional accessories, working with the zero joint edge bander and the BAT machining table becomes even more effective.



**Foot switch**

momentary/latching

Ref. No. **208469**



**Hold-down device**

with roller for guiding workpieces on the BAT

Ref. No. **208470**



**Strip magazine holder**

for machining table BAT

Ref. No. **208479**



**Vacuum plate D 160**

for machining table BAT

Ref. No. **208471**



**Vacuum plate**

for machining table BAT  
200 x 55 mm  
(7  $\frac{7}{8}$  x 2  $\frac{3}{16}$  in)  
255 x 55 mm  
(10  $\frac{1}{16}$  x 2  $\frac{3}{16}$  in)  
370 x 80 mm  
(14  $\frac{9}{16}$  x 2  $\frac{3}{16}$  in)

Ref. No. **208472**

Ref. No. **208473**

Ref. No. **208474**



**Table extension**

for machining table BAT

Ref. No. **208475**



**Plastic ball casters**

for machining table BAT  
10 pieces

Ref. No. **208477**



In order to develop a better tool for carpenters, we at MAFELL often take a special approach: We change our point of view and completely reconceive the tool in essential parts. At the same time, we always keep in mind the future requirements of the woodworking trade.

From this way of thinking, paired with an outstanding material and processing quality, amazing solutions emerge again and again. For example, in terms of functionality and ease of use. It is our claim that you no longer have to think about your tools when doing your work. Simply because we at MAFELL have already done so extensively. After all, we have a common goal: the perfect job. Or in brief:

creating excellence

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