

Overlap welding with hot presses



Heating plate dimensions: 120 x 60 mm

Scope of delivery:

1 pc. hot press HP01 AIR, 1 pc. PPuls Controller Element,
1 pc. Edge cutter SE02, 1 pc. Screw driver,
1 pc. Scissors AS04, 1 pc. Aluminium case

Dimensions (HxWxD): 240x167x200 mm

Weight: approx. 4800 g

Description

Standard Set HP01/Air cooling/230 V

Order No.

FBWHP011L230

HP01 AIR

HP01 AIR is the air-cooled version of the hot press and offers mobility thanks to its compact design.

Features at a glance

- Very easy to use.
- Reduces operator errors through a fully automatic and controlled welding and vulcanization process.
- Thanks to its exchangeable moulds the HP01 is suitable for splicing many different profiles and flat belts made of PU and TPE as well as timing belts.
- User friendly operation through self-explanatory menu of controller (no expertise required).
- Perfect welding within minutes.
- Temperature variation is never a concern (no guesswork).
- Real time data logging & diagnostics function for quality assurance of the splice.
- Different types of welds possible (overlap welds, butt welds and angle welds).
- Due to its small size and the hook for hanging up the press during the welding process, the HP01 can be used in confined spaces "on-site".
- Best welding solution for reinforced profiles (aramid, polyester and steel) through overlap welding.



Description

Standard Set HP01/water cooling/230 V

Order No.

FBWHP011W230

HP01 WATER

HP01 WATER is the water cooled version of the hot press and offers higher cooling capacity.

Features at a glance

Same characteristics as HP01 AIR, but with the following distinguishing features:

- Higher cooling capacity
- Cooling drum included in scope of supply
- Could also be cooled with compressed air

Scope of delivery:

1 pc. hot press HP01 WATER, 1 pc. Cooling unit with pump
1 pc. PPuls Controller Element, 1 pc. Edge cutter SE02,
1 pc. Screw driver, 1 pc. Scissors AS04,
1 Set Connecting hoses, 1 pc. Aluminium case



Shaft for HP01 to use with torque wrench
available as accessory
FBWHPSD12

Standard moulds for HP01 Hotpress

Moulds for PU and TPE round- and V-belts.
Other dimensions on request.



Mould for timing belt

Round belts

Mould Ø 6,0 mm	FBWFS060
Mould Ø 6,3 mm	FBWFS063
Mould Ø 7,0 mm	FBWFS070
Mould Ø 8,0 mm	FBWFS080
Mould Ø 9,5 mm	FBWFS095
Mould Ø 10,0 mm	FBWFS100
Mould Ø 12,0 mm	FBWFS120
Mould Ø 12,5 mm	FBWFS125
Mould Ø 14,3 mm	FBWFS143
Mould Ø 15,0 mm	FBWFS150
Mould Ø 18,0 mm	FBWFS180
Mould Ø 20,0 mm	FBWFS200

Timing belts (width max. 50mm)

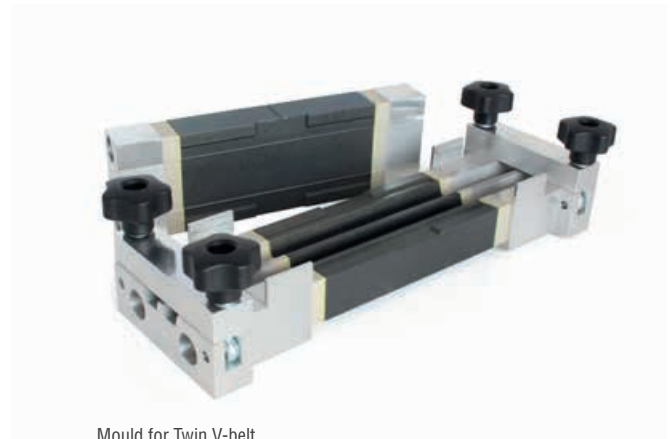
Mould for timing belt HTD5	FBWFZHTD5MN
Mould for timing belt HTD8	FBWFZHTD8MN
Mould for timing belt T5	FBWFZT5N
Mould for timing belt T10	FBWFZT10N
Mould for timing belt AT5	FBWFZAT5N
Mould for timing belt AT10	FBWFZAT10N
Mould for timing belt AT20	FBWFZAT20N
Mould for timing belt H (W:50,8mm/2")	FBWFZH0
Mould for timing belt L (W:50,8mm/2")	FBWFZL0
Mould for timing belt RPP 8M	FBWFZRPP8MN

V-belts

Mould (Z) 10X6 mm	FBWFS100X060
Mould (A) 13X8 mm	FBWFS130X080
Mould (B) 17X11 mm	FBWFS170X110
Mould (C) 22X14 mm	FBWFS220X140

V-belt special version

Mould 8X6,5 mm vaulted top	FBWFS080X065
Mould 10X8 mm	FBWFS100X080
Mould 16,35X11,3 mm (BLUEPOWER)	FBWFS163X113
Mould 17X11,3 mm (BLUEPOWER)	FBWFS170X113

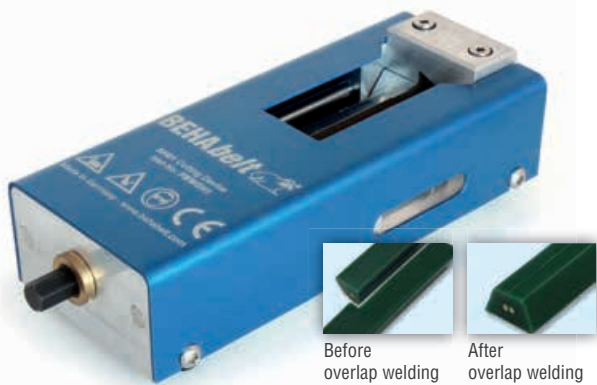


Mould for Twin V-belt



Mould for round belt





Scope of delivery

1 pc. Belt cutter SH01, 1 pc. screwdriver,
1 pc. profile adapters at your choice,
1 pc. end wrench, 1 set washers

Adapters available for the following profiles:

- Round belts \varnothing 6,0 - 20,0mm
- V-belts 13x8 (A), 17x11 (B), 22x14 (C), bluepower

Dimensions (HxWxD): 200 x 80 x 45 mm

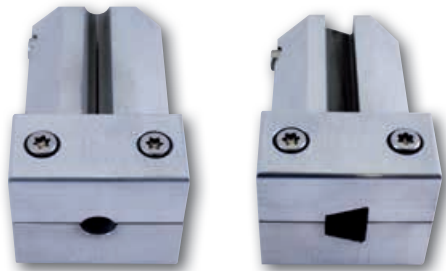
Weight: approx. 1,3 kg

Description

Belt cutter SH01
with 1 profile adapter at your choice

Order No.

FBWSH1



Profile adapter
for round belts

Profile adapter
for V-belts



inner and outer shell
is supplied by the meter

Scope of delivery Joining-Set RH-2

1 pc. Nylon case
1 pc. crimping tool RH-2
3m respectively of polyester sleeves (outside/inside)
100 pc. CU crimps

Description

Crimp Joining Set RH-2 \varnothing 9,5 mm
Crimp Joining Set RH-2 \varnothing 10 mm
Crimp Joining Set RH-2 \varnothing 12 mm
Crimp Joining Set RH-2 \varnothing 12,5 mm

Order No.

FBWRH2SET095
FBWRH2SET100
FBWRH2SET120
FBWRH2SET125

SH01

Designed to accurately cut and prepare reinforced profiles
for overlap welding with the BEHAbelt HP01 hot press.

Profile adapters for round belts

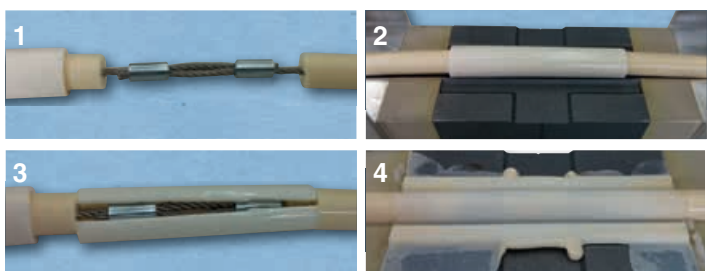
Order No.	Description	Dimension
FBWSH1R060	Profile adapters for round belts	\varnothing 6,0mm
FBWSH1R063	Profile adapters for round belts	\varnothing 6,3mm
FBWSH1R080	Profile adapters for round belts	\varnothing 8,0mm
FBWSH1R095	Profile adapters for round belts	\varnothing 9,5mm
FBWSH1R100	Profile adapters for round belts	\varnothing 10,0mm
FBWSH1R120	Profile adapters for round belts	\varnothing 12,0mm
FBWSH1R125	Profile adapters for round belts	\varnothing 12,5mm
FBWSH1R150	Profile adapters for round belts	\varnothing 15,0mm
FBWSH1R180	Profile adapters for round belts	\varnothing 18,0mm
FBWSH1R200	Profile adapters for round belts	\varnothing 20,0mm

Profile adapters for V-belts

Order No.	Description	Dimension
FBWSH1K10	Profile adapters for V-belts	10x6 (Z)
FBWSH1K13	Profile adapters for V-belts	13x8 (A)
FBWSH1K17BP	Profile adapters for V-belts bluepower	17 x 11,3
FBWSH1K17	Profile adapters for V-belts	17x11 (B)
FBWSH1K22	Profile adapters for V-belts	22x14 (C)
	Profile adapters for special profiles on request	

Joining Set CRIMP* - for steel reinforced profiles

The new and improved CRIMP connection supports you to
achieve perfect results when connecting belts with steel
reinforcement.



* Ferrules

GENERAL

This welding technology provides perfect process control with the BEHAbelt HP01 hot press especially developed for belt profiles and the associated PPuls Element temperature control for sophisticated industrial production of a welded connection.

Thanks to the small design and a number of smart design details this hot press is perfectly suitable for on-site use and in confined spaces. The unit can be made upon request of the customer as a water- or air-cooled version.

HP01 is the best choice for the best welding results in particular for the production of overlap welds of belt profiles.

USE

OVERLAP JOINTS

HP01 is particularly well suited for the production of butt and overlap welds for round and V-belts with a diameter from 6 to 20 mm and for V-belts from 6x4 to 22x14 mm. A suitable mould is used to press the splice under temperature and pressure influence thus producing a firm connection.

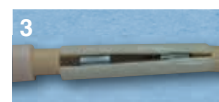
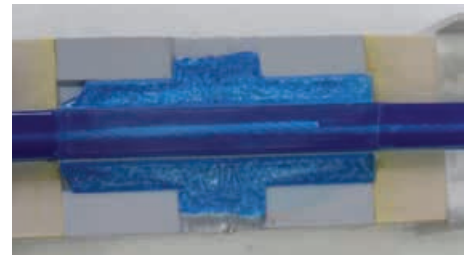
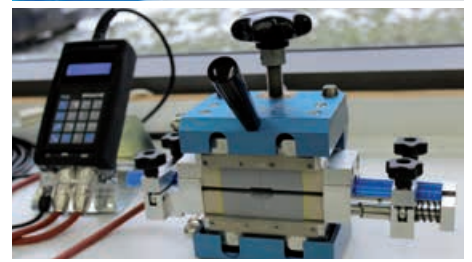
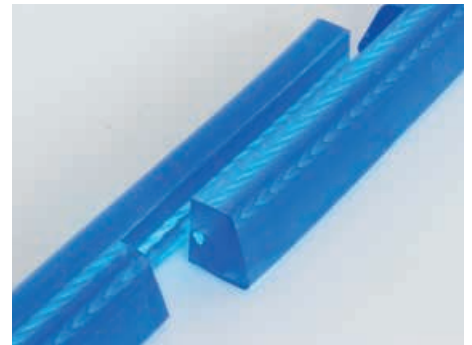
For overlap welding, a preparatory work step is required to prepare the welding point by cutting the belt to size. For this purpose the special cutting aid SH01 has been developed which ensures precise preparation for welding in repeatable accuracy. The overlap weld thus achieves the strength of approx. 50% of the reinforcement used. Overlap welding always results in a stiff welding area and therefore it is required to consider this fact when selecting the minimum pulley diameter.

CRIMP CONNECTION

A special design variant is the connection of belts with steel reinforcements. In this case the bare reinforcement is jointed by crimps and the resulting interspace at the joint is filled with material inlays, pressed using a mould and a hot press, and jointed with the remaining material. Our joining set RH-2 is available for this purpose and offers you the entire equipment and material for producing such a joint.

TIMING BELTS AND FLAT BELTS

Hot press HP01 also offers a further additional benefit with regard to the option of welding timing belts and flat belts up to the max. width of 50 mm in using appropriate moulds. The respective mould delivery program is available. Punching technology for preparation of the connection is not available.



Moulds also available for flat belts and timing belts!