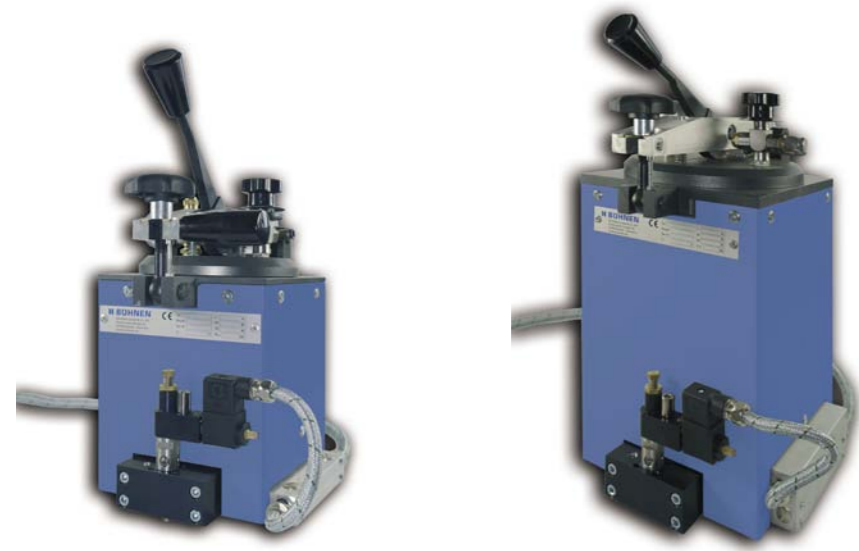


...the complete user solution from one source



HB 1001 and HB 1004 Hot melt adhesive pressure tank

New ideas in application technology and how they can be implemented in a future-oriented manner with a BÜHNEN hot melt adhesive application unit are demonstrated by the pressure tanks HB 1001 and HB 1004. These devices can process the adhesives base ethylene vinyl acetate (EVA), polyolefin (PO), polyamide (PA), thermoplastic rubber (TR), reactive polyurethane (PUR), and reactive polyolefin (POR).

The hot melt adhesive is conveyed by compressed air, where dried compressed air or nitrogen must be used when processing PUR and POR.

An external temperature controlling box with an integrated temperature controller in a modular construction regulates the temperature control. To start the hot melt adhesive application, the solenoid valve at the screw-on module is triggered by a floating contact. (Hand/Foot switch).

Technische Daten										
Version	Besonders geeignet für	Tankkapazität	Schmelzleistung*	Förderleistung*	Anzahl Schlauchanschlüsse	Antrieb:	Anzahl der Pumpen max. KP ZRP	Betriebsspannung (50Hz)	Leergewicht ca.	Maße LxBxH mm
HB 1001	EVA, PO, TK, PA, PUR, POR	1 l	1 kg/h	ca. 6 kg/h	keine	Druckluft	keine	1/N/PE 230 V	25 kg	200x200x300
HB 1004	EVA, PO, TK, PA, PUR, POR	4 l	2 kg/h	ca. 6 kg/h	keine	Druckluft	keine	1/N/PE 230 V	25 kg	270x230x390

* Produktabhängig: ermittelt bei einer Viskosität von ca. 2000 m Pas/175° C, Klebstoffabhängig

Technische Änderungen vorbehalten

BÜHNEN - Your reliable partner

Glue Application Systems



Whether for manual application or as an integrated solution within the scope of an appliance – your system solution comprised of application technology and hot melt adhesive is supplied from one source.

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Autofeed Screw Systems



Professional screw system solutions.

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 www.pamfast.com



**Hot Melt Tank System
 HB 4000 serial**

The HB 4000 series – flexible right down to the specifics...

Hot melt adhesive application technology at its highest standard is behind the development concept of the new HB 4000 tank system generation. It is precisely matched to the individual requirements of the most diverse users. This ensures you always receive a



customised user solution with the highest efficiency and persuasive economic viability. With the tank system from the HB 4000 series you have chosen a complete system solution that combines an optimum of advanced technology with high economic viability.

The microprocessor-based **multi-channel controller** controls the exactly specified temperatures for a maximum of 10 heating circuits. The motor drive is blocked automatically when a sensor short-circuit/sensor interruption is displayed. Temperature lowering and a weekly timer are included in the standard. The optionally integrated path control is designed for universal use in high-speed machines. It enables the travel-dependent activation of maximally four application heads. Each of the four application heads can be activated individually. Up to 99 hot melt adhesive patterns can be permanently stored per application head. The travel con-



rol permits the exact hot melt adhesive application (+/- 1mm) up to a belt speed of 300 m/min.

The microprocessors integrated in the **temperature controllers** in modular construction offer high reliability at an optimum temperature control of +/- 1°C. A temperature controller is required for each heating circuit..

Options for all tank systems:

- Compatible sensors (PT 100, FE/CuNi, Ni 120)
- Granulate conveyor
- Level monitoring through signalling light and/or alarm horn
- Pneumatic bypass adjustment
- Speed indicator of gear pump
- Hot melt adhesive pressure measurement
- Weekly timer
- Temperature lowering
- Spray-air adapter kit



HB 4040



HB 4070



Technical data										
Model	Particularly suitable for	Tank capacity	Melting capacity*	Conveying capacity, optional kg/h	Number of hose connections	Drive: Piston pump (PP) Three-phase motor (TPM)	Number of pumps, max. PP GP (Gear Pump)	Operating voltage (50 Hz)	Empty weight approx.	Dimensions L x W x H mm
HB 4040	EVA, PO, TK	4,5 l	4 kg/h	50	1-4	PP	1 PP	1/N/PE 230 V	30 kg	540x320x390
HB 4070	PA	7,0 l	6 kg/h	5/10/20/40	1-4	TPM	1 GP	3/N/PE 400 V	50 kg	740x395x420
HB 4100	EVA, PO, TK	9,0 l	12 kg/h	5/10/20/40	1-4	TPM	1 GP	1/N/PE 230 V	50 kg	700x375x420
				50		PP	1 PP	3/N/PE 400 V		

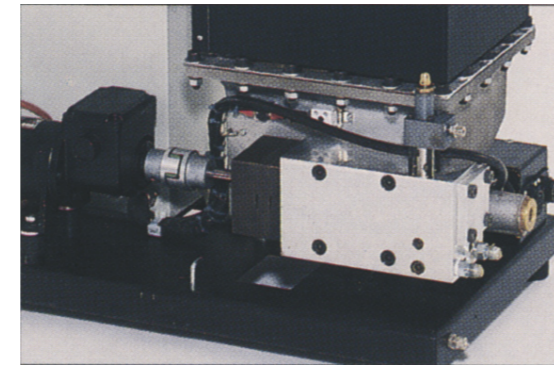
* Product-dependent: determined with a viscosity of approx. 2,000 m Pas/180°C, adhesive-dependent

Subject to technical changes

...precisely matched to your application

Gear pump

The infinitely adjustable three-phase drive ensures continuous speed of the gear pump and thus for the consistent application of



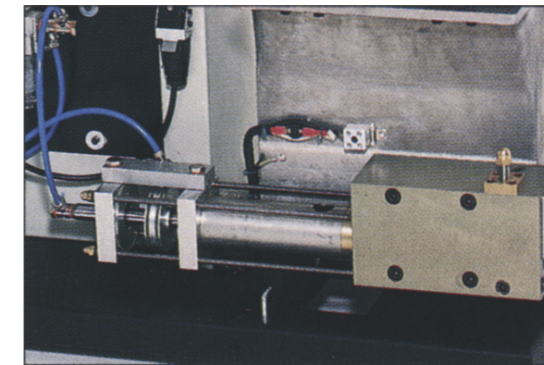
the hot melt adhesive. The conveying capacity of the gear pump can be optimally co-ordinated by a multitude of sizes to choose from.

These are the optional gear pump sizes:
 5 kg/h, 10 kg/h
 20 kg/h, 40 kg/h
 80 kg/h, 160 kg/h
 Any other sizes upon request

Piston pump

The double-action piston pump with a compression ratio of 1:12 generates a hot melt adhesive pressure of 72 bar with an input air pressure of 6 bar (max.). The piston pump is a sturdy, reliable, resistant to wear and thus mainly maintenance-free

construction. The piston pump can apply hot melt adhesives already at an input air pressure of 0.2 bar.



HB 4150



HB 4200



HB 4250

Technical data										
Model	Particularly suitable for	Tank capacity	Melting capacity*	Conveying capacity, optional kg/h	Number of hose connections	Drive: Piston pump (PP) Three-phase motor (TPM)	Number of pumps, max. PP GP (Gear pump)	Operating voltage (50 Hz)	Empty weight approx.	Dimensions L x W x H mm
HB 4150	PA	15 l	12 kg/h	5/10/20/40/80	1-4	TPM	1 GP	3/N/PE 400 V	60 kg	700x390x570
HB 4200	EVA, PO, TK	18 l	16 kg/h	5/10/20/40/80	1-4	TPM	2 GP	3/N/PE 400 V	70 kg	735x445x705
				50		PP	1 PP			
HB 4250	PA	25 l	20 kg/h	10/20/40/80/160	1-4	TPM	2 GP	3/N/PE 400 V	80 kg	800x430x770

* Product-dependent: determined with a viscosity of approx. 2,000 m Pas/180 °C, adhesive-dependent

Subject to technical changes

...the complete user solution from one source

Application accessories

Apart from the application accessories available as standard, we develop different special-order heads for the specific requirements of our customers.



Oriented towards the respective requirement profile, we develop the complete user solution for tank system use in your fabrication. Whether for manual hot

melt adhesive application or as an integrated solution within the scope of a hot melt adhesive application via application heads – the entire range of services is supplied from one source. We are your competent partner – from the design to the implementation and including customer service.

This naturally applies to the hot melt adhesive as well. The BÜHNEN program offers a multitude of different hot melt adhesive qualities. New hot melt adhesives for individual customer solutions are constantly developed at the BÜHNEN in-house laboratory.



HB 4450



HB 4650



HB 4800

Technical data										
Model	Particularly suitable for	Tank capacity	Melting capacity*	Conveying capacity, optional kg/h	Number of hose connections	Drive: Piston pump (PP) Three-phase motor (TPM)	Number of pumps, max. PP GP (Gear pump)	Operating voltage (50 Hz)	Empty weight approx.	Dimensions L x W x H mm
HB 4450	EVA, PO, TK, PA	45 l	35 kg/h	10/20/40/80/160	1-4	TPM	4 GP	3/N/PE 400 V	100 kg	840x680x1150
HB 4650	EVA, PO, TK, PA	65 l	50 kg/h	10/20/40/80/160	1-4	TPM	4 GP	3/N/PE 400 V	120 kg	840x680x1350
HB 4800	EVA, PO, TK, PA	80 l	60 kg/h	10/20/40/80/160/320	1-4	TPM	4 GP	3/N/PE 400 V	140 kg	1100x700x1380

* Product-dependent: determined with a viscosity of approx. 2,000 m Pas/180 °C, adhesive-dependent

Subject to technical changes