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Robatech
Glueing Technology

Robamelt

Drumunloaders for hotmelts and sealants

For the processing of thermoplastic adhesives and sealants
out of drums with 20, 50 and 200 litre contents





The size of the adhesive drums in comparison

Why hotmelts and sealants in drums?

For processing large amounts of hotmelts, difficult sealants or PUR-hotmelts, the drum is the most ideal means of delivery.

Depending on the use, different drum sizes with diameters 280 mm (~20 litre), 360 mm (~50 litre) or 571 mm (~200 litre) can be chosen. The consumption for different appli-

cations, as well as the handling of the drums are the decisive criteria reconcerning the size of drum. Most suitable are smooth-walled steel drums. It is also possible to process glue from card-board or synthetic drums, provided they are resistant against the pressure and the heat of the melting plate.

Drums with liner (PUR-hotmelts filled in PE-bags) are also possible for processing.

Pump variations

Various materials with different viscosity such as hotmelts, PUR-hotmelts and sealants require the appropriate pump system.

Low viscosity materials can be processed with piston pumps very well. However, for dosing the precise gear pumps are more suitable.

Middle viscosity materials will also be processed very well with piston pumps. The pump size will be chosen in correspondence to the feeding capacity.

High viscosity, filled materials require the use of extruder pumps. Depending on the material, there is besides the heating also a refrigerating unit needed.



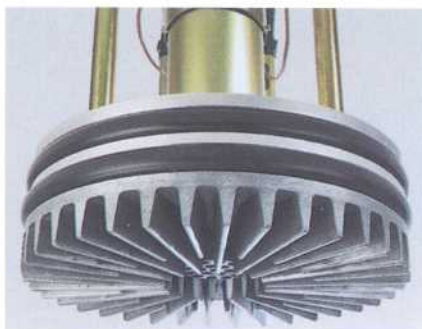
Piston pump, gear pump and extruder pump (from left to right)

Different melting rates corresponding to the various melting plates



Smooth melting plate

Basic design with smooth surface for smaller melting rates. This plate is simply cleaned.



Finned melting plate

Optional for middle to high melting rates with more surface. Suitable for bad flowing adhesives with bad heat conducting properties.



Tubular melting plate

Optional for high melting capacity with approx. 5,000 cm² melting surface. Suitable for adhesives that flow well with bad heat conducting properties.



Robamelt 20 litres

ICS electronic

The new ICS electronics steer and control the temperature of the various zones. The Integrated Control System (ICS) is an innovation by Robatech and is used for all hotmelt systems. The ICS electronics guarantees functionality, is simple to operate with high reliability.

Simple operation

The operating elements such as main and pump switches as well as the keyboard for temperature control, application controller and the seven day clock/timer are well accessible and clearly arranged.

For the machine operation no special knowledge is needed. By direct-dial-keys the seven day clock/timer as well as the manual temperature set back can be activated. An electronic safety key prevents access by unauthorised personnel.

Lang lasting plate o-rings

The profil o-rings are secured by steal rings to protect against distortion. They are resistant to temperatures up to 200 °C. The double construction guaranties residueless processing of the adhesive.



Robamelt 200 litres with piston pump 55 and tubular plate

Fast change of drum holding

Easy to operate air bleed as well as drum exhaust valves, combined with the drum mechanism allow a fast drum change.

Options

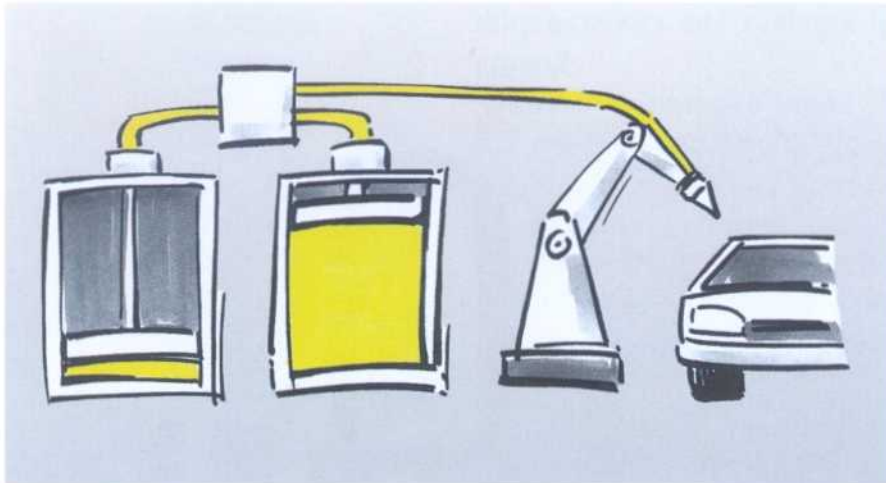
- additional heating zones
- coated heating and melting plates for PUR
- communications RS 485, PROFIBUS DP or CANBUS

Standard functions

- seven day multifunction clock/timer
- automatic fault diagnosis
- drum level controller
- automatic or manual temperature set back
- possibility of Tandem Operation
- Operation indicator lights

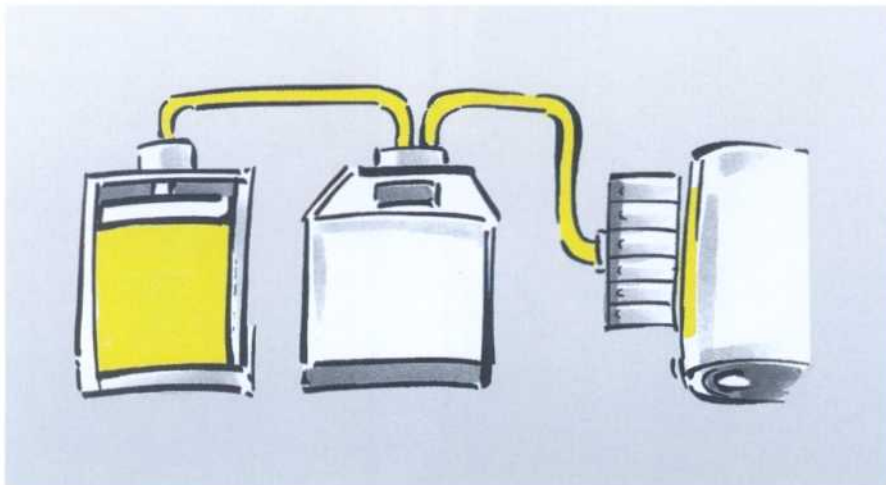
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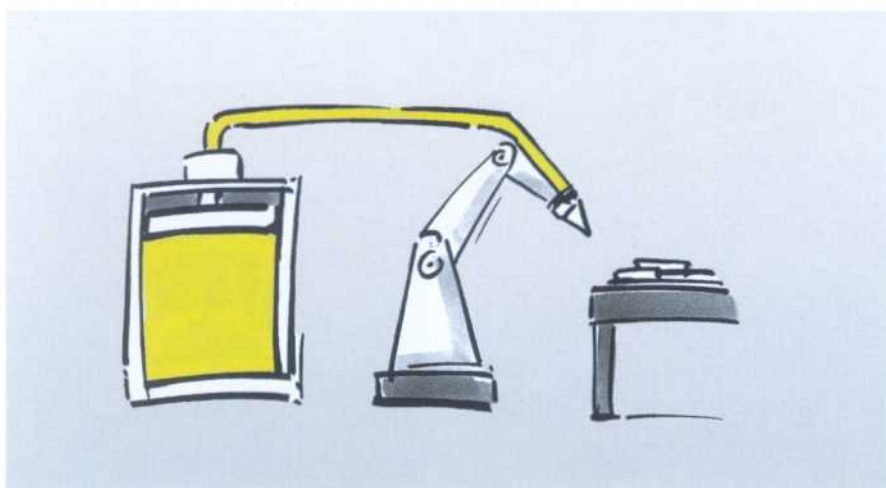
Assembly of car bodies

As a Standard, it is possible to connect the Robamelt drumunloader with a second unit. If one drum empties, the unit "A" switches automatically over to unit "B". The glue will be transported from both units through the distributor on to the application place. Tandem-units are used mainly in automatic production lines.



Robamelt used as a premelter

In this case the Robamelt drumunloader with a high capacity melting plate pumps the drum contents into a dosing unit. The dosing unit is equipped with an automatic level control sensor and feeds a coating nozzle or a roller coating bath. That way even during the drum change a continuous Operation is guaranteed.



Product assembly with robots

The Robamelt drumunloader feeds a long heated hose with an application head, which is mounted directly on the end of the robots arm. The glue dosage is electronically controlled by the gear pump.

Ask for further technical support

- mounting plans
 - measured drawings
 - detail descriptions
 - laboratory tests
 - glue tests
 - technical data Robamelt
 - data sheet for the drums
 - address list of glue suppliers
 - technical support
- Please call or fax us.

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