

βRIDAROLLI
Hot melt adhesives dispensing systems

CATALOGUE



30 years of experience in the **hot melt** sector

These are the three key points of BRIDAROLLI srl, a company manufacturing hot melt adhesives dispensing systems and accessories.

- ✓ Experience
- ✓ Quality
- ✓ Competence

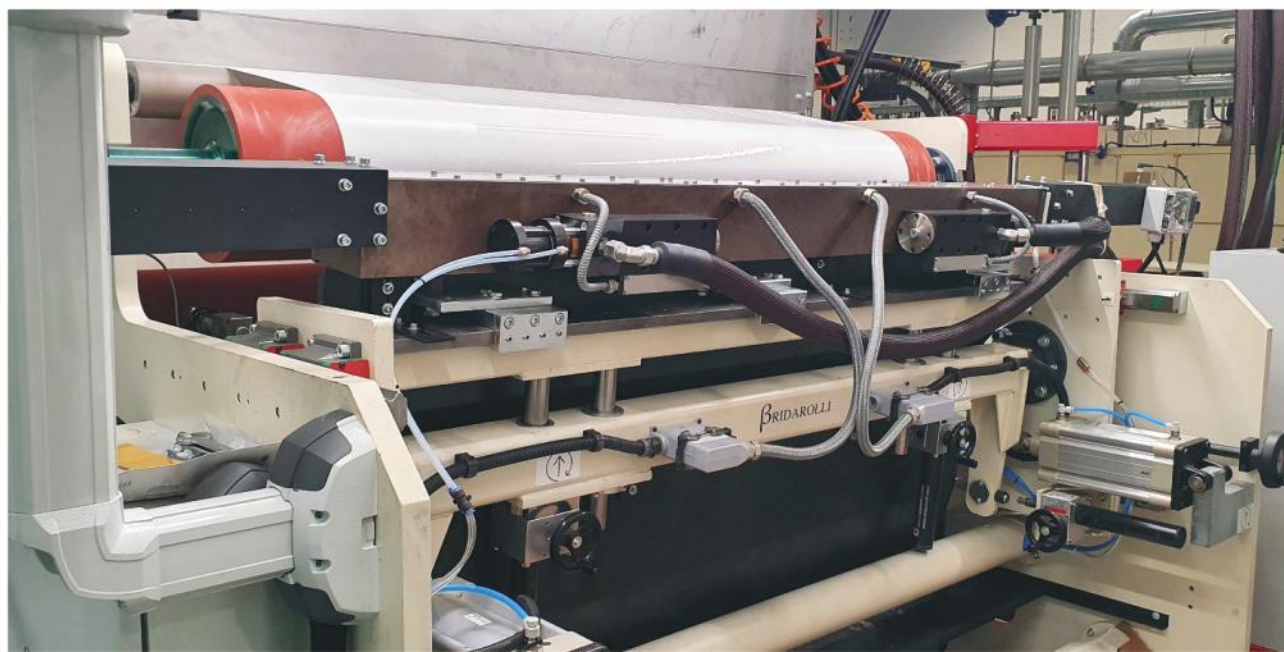
In response to a wide market and aiming to satisfy every productive requirement, Bridarolli srl has accurately engineered various dispensing systems, from the classic tanks for hot melt adhesives, to the drum melters for drum adhesives, to the modern extruders for adhesives resulting difficult to be processed, and all related accessories, such as coating heads, gun applicators and heated hoses.

Bridarolli srl disposes also of a wide a range of spare parts compatible with the most important brands available on the market like Nordson® and Robatech®.

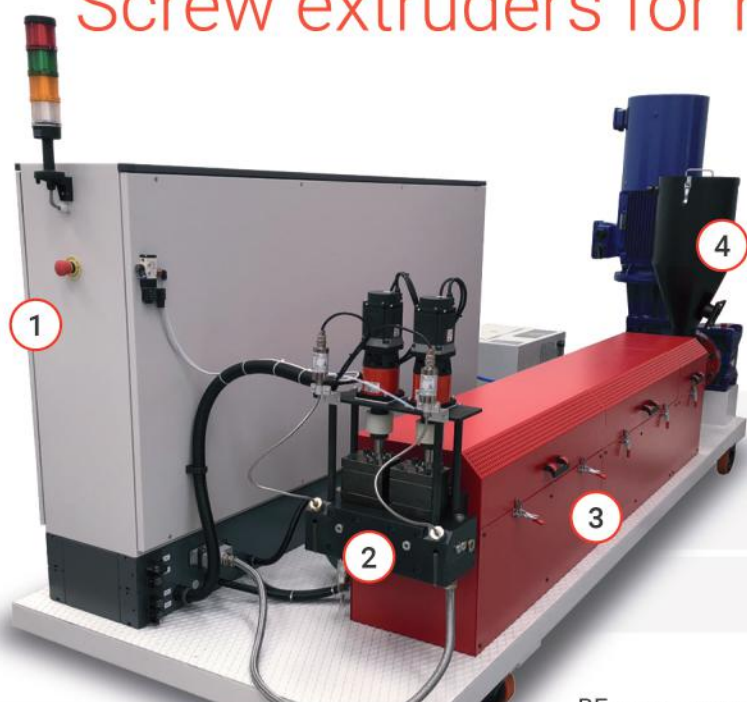
Our aim is to offer to our customers avant-garde products, providing a higher quality compared to our competitors.

We personally engage ourselves for ensuring a **detailed technical knowledge** and a **pre- and post-sales service** always active, allowing us to face the most varied requests, studying them, confronting us, examining the smallest detail together with our customers.

The commitment engaged during the pre-sales is supported by another equal commitment during the post-sales, thanks to a **team of high skilled technicians**, who are available for maintenances onsite also on competitors dispensing systems.



Screw extruders for hot melt adhesives



Operator panel for system management and status check 1

Adhesive dosing station 2

Melting screw 3

Adhesive filling hopper 4

Suitable for high temperatures ✓

Suitable for adhesives resulting difficult to be melted ✓

Constant adhesive melting without deteriorations ✓

TYPES OF ADHESIVES:

- polyesters
- polyamides
- polyethylene
- TPU
- PU

BE range screw extruders are mainly used for melting hot melt and thermoplastic granules adhesives.

Basically extruders have been engineered in order to face all those adhesives which are difficult to be melted, which require an high operative temperature and are characterized by an high viscosity, compared to all other adhesives normally processed with tank melters.

BE range screw extruders are mainly used with thermoplastics, TPU, polyamides, polyesters and in general with all those adhesives which tend to oxidize.

BE range screw extruders dispose of a particular extrusion screw, designed according to the type of adhesive to be melted.

All extruders are also equipped with remote assistance.

- Special granules feeding system for adhesives requiring a low melting temperature
- Possibility to work in extruder full mouth mode or empty mouth mode
- OPTIONAL: arrangement for degassing system
- Siemens touch screen operator panel



MODEL	MELTING RATE	L/D	MOTOR POWER	HEATING ZONES
BE 20	6 - 10 kg/h	20/25	2,2 kW	3
BE 30	30 - 40 kg/h	30/30	5,5 kW	3
BE 45	60 - 80 kg/h	45/30	11 kW	3
BE 65	120 - 160 kg/h	65/30	18,5 kW	4
BE 90/25	160 - 200 kg/h	90/25	22,5 kW	4
BE 90/30	300 - 400 kg/h	90/30	30 kW	5
BE 120	500 - 600 kg/h	120/30	75 kW	6
BE 150	600 - 800 kg/h	150/30	110 kW	6

Drum melting units for 200 lt or 20 lt drums



Drip catcher 1

Speed reducer 2

Manual air insertion device during drum exchange 3

Air relief module during drum insertion 4

Gear pump 5

Versatile ✓

Suitable for preserving adhesive integrity in case of PUR ✓

Easy to install ✓

BD range drum melting units have been engineered for melting 200 lt or 20 lt barrel adhesives and are the best solution for reactive polyurethane (PUR) adhesives.

These kinds of adhesives, in fact, tend to

reticulate in contact with oxygen, but thanks to a teflon-coated aluminium plate covering whole drum contents, just the adhesive in contact with the plate will be melted, while the remaining inside the drum will be preserved entirely. BD range drum melting units can also be used as premelter for the melting of self-adhesives for the following feeding of a tank unit.**

Available on request the tandem working mode for two drum units, in order to avoid the stop of the productive cycle during drum exchange. All drum melting units are also equipped with remote assistance.

****PSA for the following use in a tank melting system**

- Teflon-coated drip catcher in order to avoid adhesive leaks during drum exchange
- Siemens touch screen operator panel
- Remote assistance
- MELT ON DEMAND system: the drum unit melts only the adhesive part in contact with the melting plate

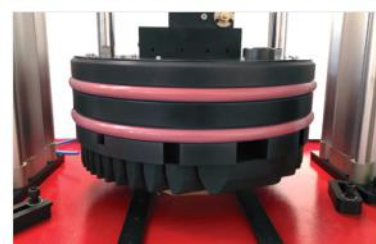
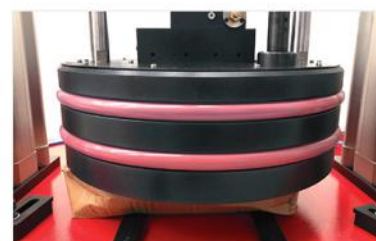
TYPES OF ADHESIVES:

- PUR = reactive polyurethane
- UV curable

TYPES OF PLATES:

- Flat
- Finned
- High melt finned

MODEL	PLATE	MELTING RATE	PUMP RATE
BD 200 LM	Flat	20 – 30 kg/h	From 48 up to 192 kg/h
BD 200 HM	Finned	60 – 80 kg/h	From 48 up to 192 kg/h
BD 200 HH	High melt finned	100 – 120 kg/h	From 48 up to 192 kg/h
BD 20 LM	Flat	8 – 10 kg/h	From 4,8 up to 38,4 kg/h
BD 20 HM	Finned	12 – 16 kg/h	From 4,8 up to 38,4 kg/h



Tank melting units for hot melt adhesives



Tank lid ①

Operator panel for system management and status check ②

Inner insulation ③

Adhesive interception valve ④

Tank opening ⑤

Melting tank ⑥

Simplified maintenance thanks to the "open frame" structure ✓

Versatile ✓

Easy to install ✓

Simple to use ✓

BT range tank melting units are used for melting granules or sticks hot melt adhesives. The structure of the standard melting unit model involves the assembly of a tank plus a grid, guaranteeing a better melting compared to the model assembling just the tank. Thanks to their structure, BT range tank units result very easy to clean and versatile, due to the different capacities of the adhesive tanks which can be assembled. BT range tank units are all arranged for installing various communication systems with other machines such as Profinet, Profibus o Modbus. All tank melting units are also equipped with remote assistance.

- Arrangement for assembling pressure sensors
- Arrangement for assembling loading cells
- Arrangement for assembling tank+grid, in order to guarantee a better melting;
- Available also in the version without grid
- Easy to clean
- Siemens touch screen operator panel
- Profinet/Profibus/Modbus for interfacing with other machines

TYPES OF ADHESIVES:

- UV curable
- PSA
- EVA
- **PUR optional version

TANKS CAPACITIES (lt):

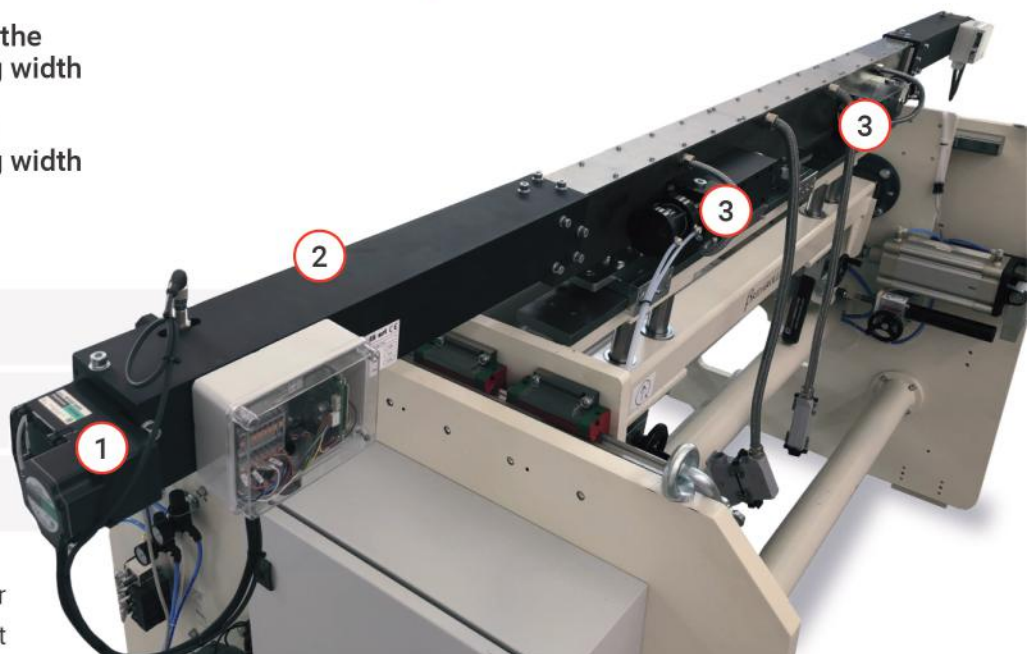
6 - 12 - 25 - 50 - 100 - 160 - 300

MODEL	MELTING RATE	HEATING ZONES	TANK	N° PUMPS
BT 6/1	2 - 4 kg/h	1	6 lt	1
BT 12/1	4 - 8 kg/h	1	12 lt	1
BT 12/2	8 - 10 kg/h	2	12 lt	1 - 2
BT 25/1	8 - 12 kg/h	1	25 lt	1 - 3
BT 25/2	16 - 20 kg/h	2	25 lt	1 - 3
BT 50/1	20 - 30 kg/h	1	50 lt	1 - 3
BT 50/2	40 - 60 kg/h	2	50 lt	1 - 3
BT 100	80 - 100 kg/h	2	100 lt	1 - 3
BT 160	120 - 160 kg/h	2	160 lt	1 - 3
BT 300/2	160 - 200 kg/h	2	300 lt	1 - 4
BT 300/3	200 - 250 kg/h	3	300 lt	1 - 4

Coating heads with fixed/adjustable width

- 1 Automatic movement for the adjustment of the coating width
- 2 Inner metal plates for the adjustment of the coating width
- 3 No. 2 feeding modules

- ✓ Fixed or adjustable coating width
- ✓ Resistant
- ✓ Customizable



BH range coating heads are used for the application of adhesives where it is necessary the lamination of two or more materials, such as textiles, for the profile wrapping or to produce films. Their main purpose can be found in the textile, woodworking, automotive, converting and graphic sector. BH range coating heads are a highly customizable accessory, as their width can be changed according to the manufacturing requirements of the customer.

TYPES OF ADHESIVES:

Each type with a max. viscosity of 2.000.000 cps

TYPES OF COATING HEADS:

- Flat with lips
- Extrusion
- With rotating bar
- Multimodule

COATING WIDTH ADJUSTMENT:

- Manual handwheels
- Automatic motors

TYPES OF COATING WIDTHS:

- Fixed coating width
- Adjustable coating width

These applicators differ for their high reliability, as the adhesive coating will always result uniform and constant. Strengths of our BH range coating heads are the construction material, as it is a particular steel alloy, and the special hardening treatment applied on the lips: as a matter of fact, we have engineered and developed a specific hardening treatment, in order to obtain a long-lasting and performing final product.

This special treatment provides to our heads a high quality of the finish compared to standard treatments, for a uniform coating without stripes and a high endurance against abrasion and productive wear, keeping in this way the product like new and preserving its original technical specifications, guaranteeing a hardness up to 70 HRC.

MODEL	WIDTH	VISCOSITY	OPERATIVE TEMPERATURE
LIP	From 30 up to 3.000 mm	2.000 – 100.000 cps	Up to 250°C
EXTRUSION	From 1.000 up to 4.000 mm	100.000 – 2.000.000 cps	Up to 250°C
ROTATING BAR	From 300 up to 3.000 mm	2.000 – 200.000 cps	Up to 250°C
MULTIMODULE	From 300 up to 3.000 mm	2.000 – 50.000 cps	Up to 200°C

Heated hoses for hot melt adhesives

BHS range heated hoses of our own production can be manufactured compatible with the main hot melt dispensing systems available on the market such as Nordson®, Robatech®, etc.

They are highly customizable, as they can be manufactured according to different technical specifications properly requested by customer:

- Diameters: from a minimum of Ø 6 to a maximum on request;
- Temperature sensors: PT100, NTC, Ni120 or FE-KO;
- Lengths: from a minimum of 0,5 mt to a maximum on request;
- Standard or special models engineered in order to endure high temperatures or high pressures.
- Operative temperature up to 250°C
- Pressure up to 300 BAR
- Special insulation ensuring a better endurance and protection of the inner parts of the heated hose;
- Higher quality materials;
- Customizable.



Spare parts for hot melt units/applicators



Bridarolli srl offers a wide range of hot melt spare parts compatible with the main brands on the market such as Nordson® and Robatech®.

We dispose of:

- Filters for tank units or for applicators such as coating heads and jetting heads;
- Modules for applicators such as coating heads and jetting heads;
- Nozzles for applicators such as automatic jetting heads and handguns;
- Solenoid valves;
- Full applicators such as automatic jetting heads and handguns.

 CONTACT US FOR MORE INFORMATION!



βRIDAROLLI
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Via F.lli Bandiera 9/L, 20835 Muggiò (MB)
T. +39 **039.5986639** | M. info@bridarollisrl.it

www.bridarollisrl.it

