



## PS20 drum unloader

### For hot melt adhesives in 20L drums

'Meler' PS20 drum melters are melting and pumping systems for thermoplastic materials that directly use their drum containers (with straight sides) for capacities of up to 20L. They are designed to be used for applications that require high flow levels and speed in supplying the material to the substrate. Their main advantage is the direct use of the material's packaging itself, without the need for protective systems when using reactive polyurethanes, since basically only the material being pumped is melted. This machine has a high melting rate for two platen versions: smooth and axial platen, strong force cylinders and a great range of gear pumps. Long-lasting motor and pneumatic driven pressure valve assure a continuous and reliable application.

#### **Gear pump**

High melt capacity units and they can be supplied with different pump capacities. The gear pump allows an equal and precise glue application by a control of the glue quantity through the gear speed. Under request it is possible to supply the units with one double pump.

#### **Multifunctional electronic control**

This new development combines the electronic 'Meler' control that allows a very user friendly handling and very effective an intuitive motor control.

#### **Connections**

The hose hydraulic connections to the units can be installed at the top of the melting platen over

the manifold. Up to two hoses can be installed on the unit depending on type of pumps used. Electric connections are placed close to the motor with a maximum of four hose connections.

#### **Motor-pump**

Assembly of motor-gearbox-pump guarantees an equal hot-melt supply, which is controlled by the motor rotation speed and with a large number of pump sizes (1cc to 8cc/turn in single version) available.

#### **Compatibility**

The PS20 can be equipped with Pt100 as well as with Ni120 sensor technologies. Therefore it is compatible with most of the common hot melt systems in the market.

#### **Safety**

The pressure relief valve ensures, that excess pressure situations are avoided in the system. It also allows to maintain a constant system pressure even in intermittent applications. Additionally the system provides a safety control by means of a bi-manual buttons to avoid mechanical entrapments while the platen is going down.

#### **Air injection**

When the platen is going up an air injection system is used to counteract the vacuum effect inside the drum. The system is manually control mounting a special pipe into the platen when before it goes up. Optionally this procedure can be automatically done with the suitable device under request.

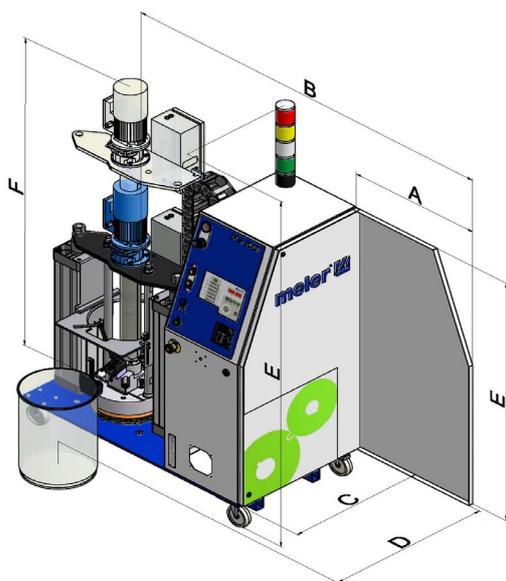


## TECHNICAL CHARACTERISTICS

Drum dimensions .....	Ø280 (inner diameter) x 400 (up to 20Kg)
Type of melting platen .....	Smooth and axial platen
Pumping capacity .....	1, 4 or 8 cc/rev single pump (*) 0,93 x 2, 1,86 x 2 or 3,71 x 2 cc/rev double pump (*)
Melting rate .....	18-20 kg/h (axial), 9-10 kg/h (smooth) (*)
Number of pumps .....	1 single pump or 1 double pump
Number of hydraulic outputs .....	2 per pump (3/4" UNF thread)
Number of electric outputs .....	Up to 4 outputs (1200W per output)
Motor power .....	250 W
Speed .....	7-100 rpm (10-80 rpm recommended)
Temperature range .....	40 to 200 °C
Temperature control .....	RTD ±0,5 °C (±1°F)
Maximum working pressure .....	85 bar (recommended less than 70 bar)
Bypass valve .....	Pneumatic (manual regulation)
Maximum power supply (at 230VAC) .....	7.850 W (1 single pump/ 2 outputs) 10.250 W (1 double pump/ 4 outputs)
External functions .....	Temperature ok output Empty drum output Standby output Motor start-stop external control Motor speed external control
Electrical requirements .....	400V 3~ 50 Hz + N + PE
Options .....	Automatic air injection for platen pulling out Drum retaining system Tower light with four colors

(\*) According to adhesive type, platen type and working conditions

## DIMENSIONS



A:	600mm
B:	1265mm
C:	600mm
D:	700mm
E:	1350mm
F:	1850mm

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