

Thermoplastic Preheaters

BORUM thermoplastic preheaters

for trouble-free heating of block, granulate or liquid thermoplastic material.

Efficient vertical double mixer arms, which ensure uniform heating of the material. 50 mm heat isolation.

Hydraulic forward/reverse transmission. Preheaters driven by a hydraulic power unit, which can be installed independent of location of preheater. Standard length for connection of hoses and cables 6.0 m.

Propane gas or diesel oil burner system can be supplied for heating. All sizes of preheaters up to 1100 can be delivered as double (twin) units driven by a common power unit.

ID Indirectly heated preheater.

Hydraulic motor with agitator bearing. Start/stop/reverse valve for agitator drive. Vertical agitator with double arms and paddles.

Material container surrounded by heat transfer oil, to distribute heat.

Oil-heated center pipe in material tank. Oil-heated material outlet.

The preheater is equipped with a thermostat for thermoplastic material and for heat transfer oil temperatures from +50 to +300°C. Includes an integrated display showing actual temperatures.

Standard sizes 250, 400, 600, 800, 1100, 1600, 2500 L.

D Directly heated preheaters

Hydraulic motor with agitator bearing. Start/stop/reverse valve for agitator drive. Agitator with double arms and paddles.

The preheater is equipped with a thermostat for thermoplastic material temperatures from +50 to +300°C. Includes an integrated display showing actual thermoplastic temperature.

Standard sizes 300, 500, 750, 1000 L.

Hydraulic Power Unit:

BM PS-15 Hydraulic power unit

9.5 kW (13 HP) at 3600 rpm. Water-cooled 2-cylinder diesel engine. 40 L diesel oil tank with level control and diesel oil filter.

90 L hydraulic oil tank with filter. Alternator 12 V DC/65 Amp. Engine foundation with vibration absorbers.

Diesel oil burner

Diesel oil burner for 12 V DC power supply.

Propane burner

Propane burner with electric ignition and safety system. Active flame control.

Dimensions and weight

Filling system:

Filling system for transportation and lift of thermoplastic, mostly used for transporting thermoplastic from preheaters placed on a truck to a material tank placed on another truck.

The filling system is placed under the outlet of the preheaters. When using it the lid in the top of the reservoir is opened and the thermoplastic drops by gravity into the reservoir of the pump when the valve on the preheater is opened.

There is a rough strainer placed in the opening(s).

The pump and filling pipe is provided with heat oil chamber for keeping the thermoplastic warm. A separate heat oil pump shall be used for circulation of the heat oil.

The filling system is available in a single model, TLS 1, for serving only one preheater, and a double model, TSL 2, for serving 2 preheaters.

In both cases the same pump is used. The pump is a piston type, operated hydraulically. Normally the PS 15 pump station supplied for the agitators in the preheaters, supply the hydraulic power.

The pump is designed for max. 60 strokes per minutes, and for most types of thermoplastic the capacity is 120 litre/min. at a lifting height of 2 meters.

At 60 cycles/min the hydraulic flow shall be around 31 L/min.

If the filling system is operated by Borum's PS 15 the hydraulic flow, at 2500 rpm for the engine, will be around 10 L/min giving 20 cycles/min and the capacity will for most thermoplastic be 40 Litres/min.

The fillings system is provided with hydraulic control system for operation of the piston pump.

The filling pipe is available in different heights.



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- it's straightforward