

Borum Highway, Thermoplastic Extrusion & Spray (pump)

Borum® Master 3000 SP T P

Borum® Master 3000 SP T P is a Borum Highway model equipped with extruder and thermoplastic spray with pump.

Thermoplastic tank

Non-pressurised thermoplastic 445 L tank indirectly heated via heat transfer oil.

The thermal oil and thermoplastic material temperature is thermostatically controlled and regulated automatically.

Vertical agitator (mixer)

The agitator turns both clock- and counter clockwise for a perfect homogenising of the thermoplastic. Stable construction with foundation and bearings at the top of the material tank.

Agitator transmission

Hydraulic transmission with motor, shaft, safety valve and on/off valve.

Burner system

Diesel or alternatively propane burner system for heating of the thermal oil (and thermoplastic).

Heat transfer oil pump

Hydraulically driven.

Spray-plastic pump equipment:

Spray-plastic Pump

Spray-plastic pump operates with a non-pressurised material tank. The pump consists of a hydraulically driven motor, gearbox, clutch, highly durable rotors and pump house. Pump housing is oil-jacketed and isolated. Capacity 80 L/min. at 10 bar.

Electro hydraulic control system

Hydraulic control valve adjusts the quantity of spray-plastic material according to the speed of the machine in order to obtain a constant layer thickness.

Retainer

Sliding retainer frame, on which 1-3 spray guns and 1-3 bead guns are attached.

Easy slideable from side to side for an optimal working position. Ground distance is maintained by retainer wheels to ensure a constant road marking width.

All material pipes are oil-jacketed and isolated to maintain an ideal material temperature.

OPTION: Wide retainer frame for up to 5 spray guns.

Retainer lifting system

Lifting of retainer from operators seat. Hydraulic cylinder, foundation and hydraulic solenoid valve.

Spray-plastic gun

Automatic high-capacity sprayplastic gun. Consists of an oiljacketed gun body and a pneumatic cylinder. See also data sheet for our different types of guns [Guns and bead guns](#)

Bead gun system

Please refer to data sheet on guns [Guns and bead guns](#)

Extruder equipment:

Extruder drive

Hydraulic motor with hose system and electronically controlled dose valve with integrated safety valve system.

Thermoplastic extruder

Thermoplastic extruder ranging from 30-50 cm fitted with 5 cm standard valves (Alternative valve dimensions in the range of 4-10 cm.)

The transport of material from tank to extruder is done by a hydraulically driven screw pump. The screw pump has a permanent thermoplastic recirculation system which ensures a constant flow past the extrusion valves when material is not being extruded.

The extruder valves are cylindrical to achieve maximum working frequency when profiled markings are extruded, and they are mounted with interior hot-oil heating.

Quick cleaning

Pneumatically controlled quick cleaning system for the removal of solids left in the extrusion slot. Can be activated while extrusion is in process and is only slightly detectable on the line in the form of a moderate thickening of layer.

Extruder lifting cylinder

Adjustment of extruder height from operator's seat. Pneumatic lifting cylinder, controlled from operator's seat.

Dimensions + weight

L: 5350 mm.
W: 1300 mm + equipment.
H: 2250 mm
incl. rotating light.
Weight: From 2600 up to 3800 kg.

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- it's straightforward