



PHOTOS MAY SHOW OPTIONAL OR CUSTOMISED EQUIPMENT.



Basic Line
(Continuous)



Basic Line
(Interrupted)

THERMOPLASTIC SPRAY PLASTIC APPLICATION

The Borum® Master 5000 series provides you with a variety of high capacity line marking machines designed for large scale jobs such as marking highways, motorways or airport runways.

The material tank capacity can be up to 780L. The possibility of the large material capacity naturally gives fewer stops during the day for refilling.

The BM 5000 has a two-seat slidable drive and operator section for flexible working on left or right side.

The Borum spray plastic equipment can apply lines of up to 60 cm width, depending on the set-up. The equipment may be used for the application of plain lines, single and double lines of different widths, as well as for simultaneous application of continuous and interrupted lines.

2

TECHNICAL SPECIFICATIONS

ENGINE

Manufacturer	Kubota
Type	Turbo
Cooling	Water
Cylinder	4 stroke 3800 cm ³
RatedPower	74 KW
Approval	EU Stage IIIA resp. TIER 3

COMPRESSOR

Compressor Capacity	Choice of 1-2 compressors can give 1800 - 3600 L/min @ 10 bar. Integrated oil-cooling system. Air-cooler incl. water separator
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FILLING CAPACITIES

Fuel tank capacity	180 L (2 x 90 L)
Hydraulic tank size	93 L
Bead capacity	330 L (2 x 165 L). Pressurised (max 3 bars)

MATERIAL TANK

Material Tank	450 L, 630 L or 780 L
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DRIVING PROPERTIES

Drive angle	12.5 degrees / 22% (low gear 7200 kg)
Turning radius	4.90 m.
Steering	Dual torque steering

TRANSMISSION

Hydrostatic transmission	For variable speed
Speed	Low gear 0-12 km/h, high gear 0-24 km/h

ELECTRICAL SYSTEM

Electrical system	12 V / 150 Amp
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CONTROL UNIT

Borum LineMaster	Program up to 99 different line types. Organise lines in up to 30 marking programs. 8" display. Transfer of daily marking reports. See more detailed info.
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COLOUR

Colour	RAL 1007 (Other colours available on request)
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DIMENSIONS

Length	5350 mm
Width	1300 mm
Height	2250 mm

THERMOPLASTIC SPRAY APPLICATION (PRESS. TANK)

The thermoplastic spray application equipment works via a pressure tank. The amount of material that is put on the road is set by the pressure of the tank and the air pressure of spraying. This offers you an easy to use the system.



Sliding retainer frame, upon which 1-3 spray guns and 1-3 bead guns can be attached. Easy slidable from side to side for an optimal working position. Ground distance is maintained by retainer wheels hereby ensuring a constant road marking width.

Lifting of retainer from operators seat is done using a hydraulic cylinder.

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

Effective heating of the complete unit using a centrifugal pump, 42 L/min, hydraulically driven.

Line thickness is typically between 0.75 mm to 1.5 mm

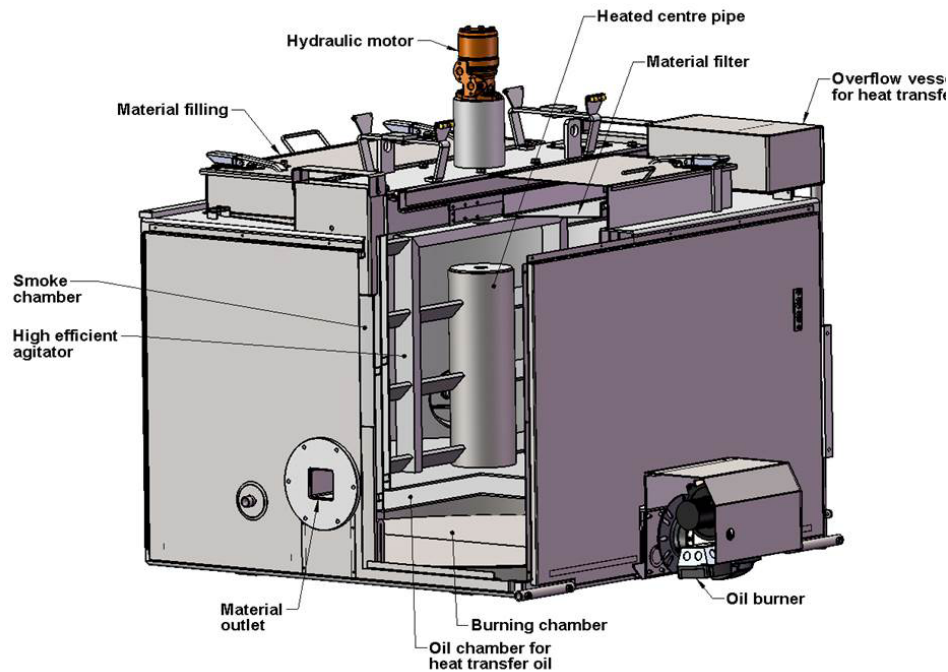
Marking speed up to 15 km/h depending on the work conditions, operator, etc.

BM SP 2500 SPRAY-PLASTIC GUN

Automatic high-capacity spray plastic gun. Consists of an oil jacketed gun body and a pneumatic cylinder. Possibility to apply line widths ranging from 10 - 20 cm depending on line thickness, work conditions, application speed and layer thickness. As an alternative, we offer a narrow nozzle, which can spray 5-15 cm with one gun.

Optional narrow nozzle size of 3 mm or wide nozzle size of 7 mm.

PRESSURIZED MATERIAL TANK



THERMOPLASTIC PRESSURIZED TANK:

Pressurised tank indirectly heated via thermal oil. The thermal oil and thermoplastic material temperature is thermostatically controlled and regulated automatically.

BURNER SYSTEM

Diesel burner system for heating of the thermal oil (and thermoplastic). Propane burner available on demand.

VERTICAL AGITATOR (MIXER)

With hydraulic transmission. Heated center pipe for efficient uniform temperature control. Perfect melting & homogenization of the thermoplastic. Stable construction with foundation and bearings at the top of the material tank.

LINEMASTER FEATURES

The Borum LineMaster allows you efficient control of all line marking tasks, from line application and pre-marking to reporting and invoicing. It is possible to store up to 99 different line types, and to arrange these in up to 30 different marking programs. You are also able to pre-set line widths, line types, colours and combinations to have them ready for marking, and can instantly adjust them on the go.

CRUISE CONTROL

For your convenience we recommend use of cruise control. Read more about the cruise control in the Borum Knowledge Lab on www.borum.as.

QUICK CLEANING

Pneumatically controlled quick cleaning system for 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.

RAW MATERIALS

We recommend using a high quality application material. Please contact your material supplier for further advice on choosing the right material.

THERMOPLASTIC SPRAY ADVANTAGES

Due to the equipment working via a pressure vessel, it is very simple and easy to use as the pressure in the vessel is the same as the pressure in the application. Furthermore, the tank requires very little maintenance.

Thermoplastic spray markings are a cost-efficient solution as the applied lines do not require as much material as extruded profiled markings. Furthermore, this type of material forms a uniform application that is more durable and dries faster compared to cold paint applications.



TYPICAL USES:

Thermoplastic spray plastic is generally used for road marking in inter-urban areas.



LEARN MORE

Find out more in the Borum Knowledge Lab.

ADDITIONAL EQUIPMENT

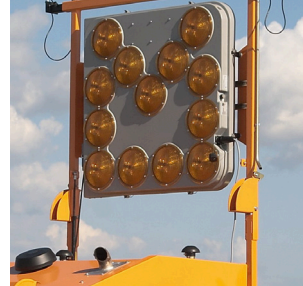
The additional equipment can be mounted on the machine according to your requirements. They are not necessary for the running of the machine, but add to the comfort of the machine driver or to the functionality of the machine.



Pre-marking system with paint can



Cruise control



Bar with pneumatic lift for mounting warning lights
(Comes without lights)



Sunshade with 1 rotating light



Remote control for BM LineMaster



Cone holder



GPS system



Pointer turning with steering
With hydraulic lifting system



Bead alarm mounted on bead gun



Air drier for bead tank



Pre-marking system with paint gun



Airknife



Ejector filling of bead tank



Fixed pointer
With hydraulic lifting system



Hydraulic broom