



PHOTOS MAY SHOW OPTIONAL OR CUSTOMISED EQUIPMENT.



Single basic line



Single basic line



Double basic line



Double basic line

## **THERMOPLASTIC SPRAY PLASTIC APPLICATION (PUMP)**

The BM 3000 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 445L. The possibility for the large material capacity naturally gives fewer stops during the day for refilling.

The BM 3000 has a two-seat slidable drive and operator section for flexible working on the 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.

# KNOWING THE BM 3000

## OPERATOR SECTION

Quick and easy change from side to side for marking left and right. Dual torque steering - good directional stability. Cruise control can be added as optional equipment.

## LINEMASTER COMPUTER

With the LineMaster Computer you can control up to 6 paint or spray guns, 6 bead guns and equipment with up to 24 shutters. Moreover, it controls all these various sets of equipment in this ONE unit.

## FULL REAR VIEW

### DIESEL TANKS

Allows for a full day's work.

### ENGINE ROOM

Easy access for service.

### PRESSURIZED BEAD TANK

Tank divided in two tanks. Individual or single outlet. (2 in 1)

### WHEEL MOTOR

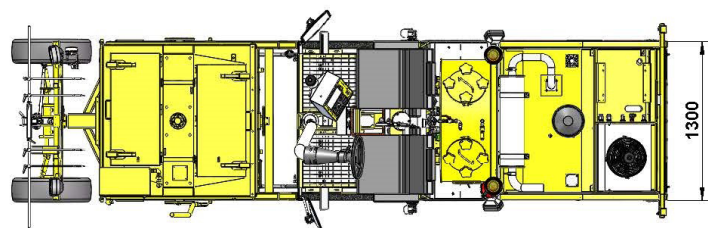
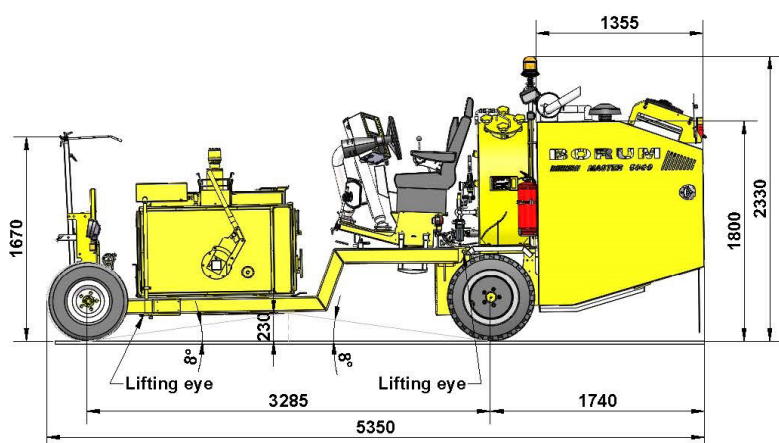
1-gear wheel motor. Optional: 2-speed wheel motor, allows working uphill.

### MATERIAL TANKS

The possibility of an extra large material tank for major works ensures the most efficient workday and fast progression of the road works.

### CHASSIS

Solid double-frame construction



## TECHNICAL SPECIFICATIONS

## ENGINE

Manufacturer	Kubota
Type	Turbo (Diesel)
Cooling	Water
Cylinder	4 stroke 3600 cm3
RatedPower	63 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

## FILLING CAPACITIES

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

## MATERIAL TANK

Material Tank	445 L
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## DRIVING PROPERTIES

Drive angle	10.4 degrees / 18% (5000 kg)
Turning radius	4.90 m.
Steering	Dual torque steering

## TRANSMISSION

Hydrostatic transmission	For variable speed
Speed	0-22 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. Data about road marking jobs can be accessed online (optional).
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## COLOUR

Colour RAL 1007 (Other colours available on request)

## DIMENSIONS

Length	5350 mm
Width	1300 mm
Height	2250 mm (Without Beacon)



# THERMO SPRAY APPLICATION (PUMP)

The thermoplastic spray application equipment works via a pump. The amount of the applied material is set by the pressure of the pump and the air pressure of spraying, but the pump can also be adjusted to the speed of the machine.



## SPRAY-PLASTIC PUMP

Spray-plastic pump operates with a non-pressurized material tank. The pump consists of a hydraulically driven motor, gearbox, clutch, highly durable rotors and pump house. The pump housing is oil-jacketed and isolated. Capacity up to 80 L/min. at 8.5 bar.

The 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.

The application speed for doing spray-plastic can go up to 15 km/h.

## ADVANTAGES WHEN USING A SPRAY PUMP SYSTEM:

- \* The ability to quickly adjust the pressure while driving (controlled in the LineMaster).
- \* Easy filling of thermoplastic due to the lid of the non-pressurized tank being larger compared to the pressurized tank.

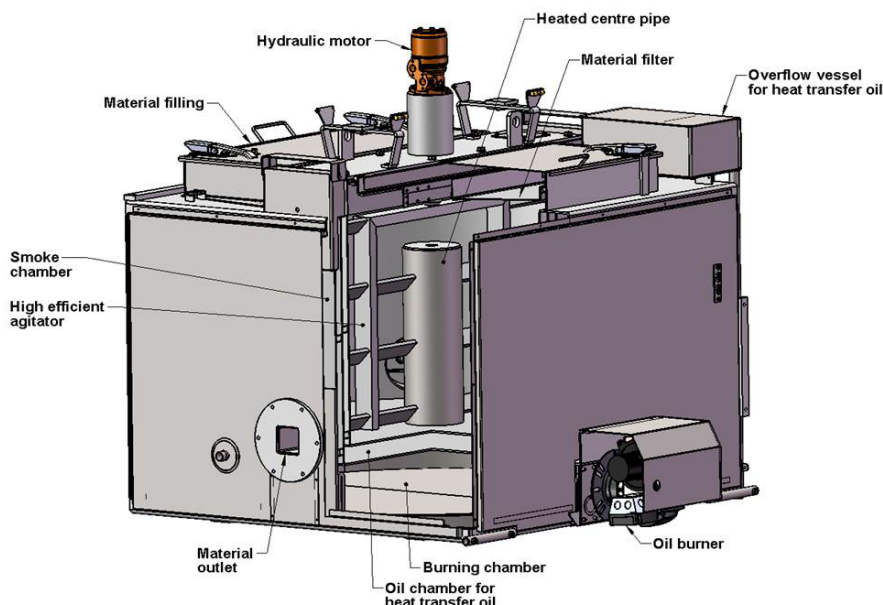
## GUN FOR SPRAY-PLASTIC APPLICATION

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.

The guns are mounted on a sliding retainer frame, on which 1-3 spray guns and 1-3 bead guns are attached. Easily slidable 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 insulated to maintain an ideal material temperature. Lifting of retainer from operators seat using a hydraulic cylinder.

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# NON-PRESSURIZED THERMOPLASTIC TANK



Non-pressurized thermoplastic tank, indirectly heated via heat transfer oil. The thermal oil and thermoplastic material temperature is thermostatically controlled and regulated automatically according to the settings

## BURNER SYSTEM

Diesel burner system for heating of the thermal oil (and thermoplastic). Propane burner is 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 control unit is an easy way of setting and controlling your line marking jobs. The LineMaster is attached to the operator's section of the machine and gives you full control of all your 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 and different combinations to have them ready for marking, and can instantly adjust them on the go.

Furthermore, you are able to view the status of various parts of the machine (e.g. compressor) on the computer screen that will help with correctly maintaining the machine and avoiding break downs.





## ADVANTAGES OF THERMOPLASTIC SPRAY EQUIPMENT

The spray plastic application equipment that works with a pump gives you the possibility of quickly adjusting the pressure while driving. Our LineMaster may also to a certain extent do this automatically. Furthermore, filling and thermoplastic filtration is easy, since the tank lid is larger than the one on the pressurized tank. Sprayed thermoplastic 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.



**Ejector filling of bead tank**



**BM Online**



**Air drier for bead tank**



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



**Cone holder**



**Remote control for BM Lin-eMaster**



**Bead alarm mounted on bead gun**



**Fixed pointer**  
With hydraulic lifting system



**Pointer turning with steering**  
With hydraulic lifting system



**Cruise control**



**Sunshade with 1 rotating light**



**Pre-marking system with paint gun**



**Pre-marking system with paint can**



**Airknife**



**Hydraulic broom**