



PHOTOS MAY SHOW OPTIONAL OR CUSTOMISED EQUIPMENT.



Single basic line



Single basic line



Double basic line



Double basic line

THERMOPLASTIC SPRAY APPLICATION

The BM 5500 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.

Equipped with a new Deutz diesel engine, the BM 5500 meets the EU Stage IV final (Stage V ready) and US Tier 4 emissions standards. The engine room is also designed to offer you easy access and servicing of the machine through large doors to the engine room.

The BM 5500 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 5500

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.

EFFICIENT SCREW COMPRESSOR

Hydraulically driven. Positioned behind the operator for quick access. Possibility to turn compressor ON/OFF.

FULL REAR VIEW

DIESEL TANKS

Allows for a full day's work.

ENGINE ROOM

Easy access for service.

WHEEL MOTOR

2-speed wheel motor. Allows working uphill.

PRESSURIZED BEAD TANK

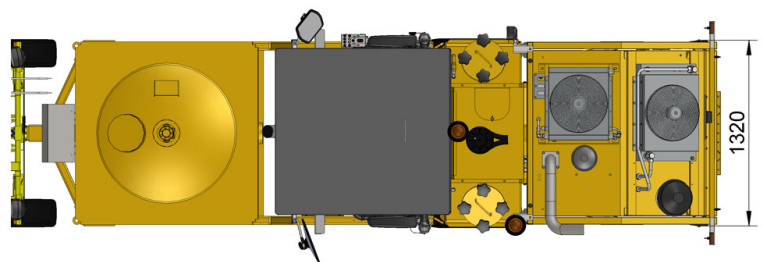
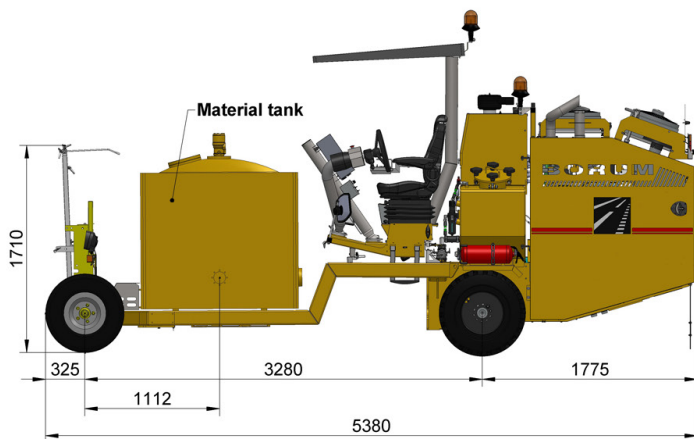
Tank divided in two chambers. Individual or single outlet (2 in 1). Low filler necks for easy refill.

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

Cooling	Water
RatedPower	90kW / 121HP @ 2300rpm
Manufacturer	Deutz TCD 3.6 L4
Cylinder	4 cylinder, 3600cm ³
Approval	EU Stage IV final (Stage V ready) – US Tier 4. CRT + SCR, AdBlue
Type	4 stroke, common rail diesel with turbo and intercooler

COMPRESSOR

Compressor Capacity	Hydraulic driven, air screw 2400 or 4500 L/min @ 10 bar. Integrated oil system with external oil cooler. Water separator.
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FILLING CAPACITIES

Bead capacity	330 L (2 x 165 L). Pressurized (max 3 bars)
Hydraulic tank size	126 L
Fuel tank capacity	159 L (78 +81 L)

MATERIAL TANK

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

Turning radius	4.90 m.
Steering	Dual torque steering
Drive angle	8° or 14° at 21 km/h, 17° or 30° at 11km/h

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. Data about road marking jobs can be accessed online (optional).
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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 (Without Beacon)

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.

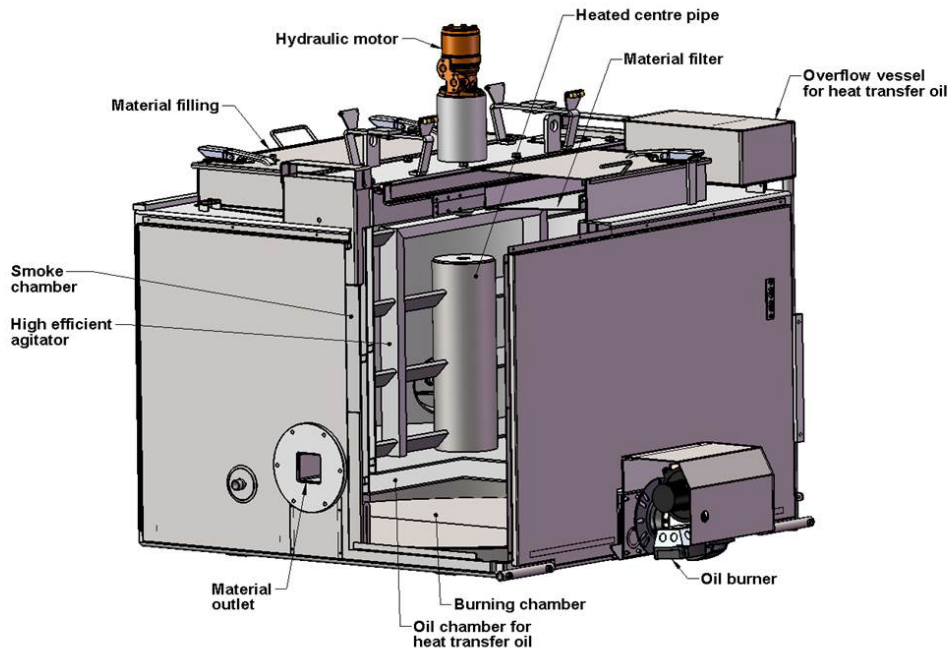
GUN FOR SPRAY-PLASTIC APPLICATION

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.

PRESSURIZED MATERIAL TANK



Pressurized 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 and homogenization of the thermoplastic. Stable construction with foundation and bearings at the top of the material tank.

ADVANTAGES WHEN USING A PRESSURIZED TANK FOR SPRAY:

The line thickness is affected by the machine speed, this is useful for applying thicker lines in curves and areas with higher wear and tear levels.

The maintenance for the pressure tank is minimal compared to the thermoplastic spray pump system.

QUICK CLEANING

Pneumatically controlled quick cleaning system for removal of solids left in the extrusion slot. It 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.

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.



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



Pre-marking system with paint gun



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



Sunshade with 1 rotating light



Remote control for BM Lin-eMaster



BORUM Online



Cone holder



Bead alarm mounted on bead gun



Pointer turning with steering
With hydraulic lifting system



Hydraulic broom



Airknife



Fixed pointer
With hydraulic lifting system



Ejector filling of bead tank



Air drier for bead tank