



PHOTOS MAY SHOW OPTIONAL OR CUSTOMISED EQUIPMENT.

LINE TYPES



Double basic line



Double line combi



Edgeflex



Longflex



Chess



Single basic line

THERMOPLASTIC EXTRUSION APPLICATION

The BM 5700 is a high capacity line marking machine designed for large scale jobs such as marking highways, motorways or airport runways. The thermoplastic material tank capacity can be up to 710L. The possibility of large material capacity means fewer stops during the day for refilling.

BM 5700 is also an excellent choice for road marking jobs in hilly areas. The double speed wheel motors allow a max driving angle of 30%. The machine can also withstand an ambient temperature of up to 50°C.

The BM 5700 has a two-seat slidable drive and operator section for flexible working on the left or right side.

Equipped with a Deutz diesel engine, the BM 5700 meets the EU Stage V (TIER 4) ready emissions standards.

The BM 5700 T can be supplied with the thermoplastic Borum extruder of 30, 40, or 50 cm. The extruder may be used for the application of various types of plain and profiled lines, single and double lines of different widths, as well as for simultaneous application of continuous and interrupted lines.

KNOWING THE BM 5700

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.

EFFICIENT SCREW COMPRESSOR

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

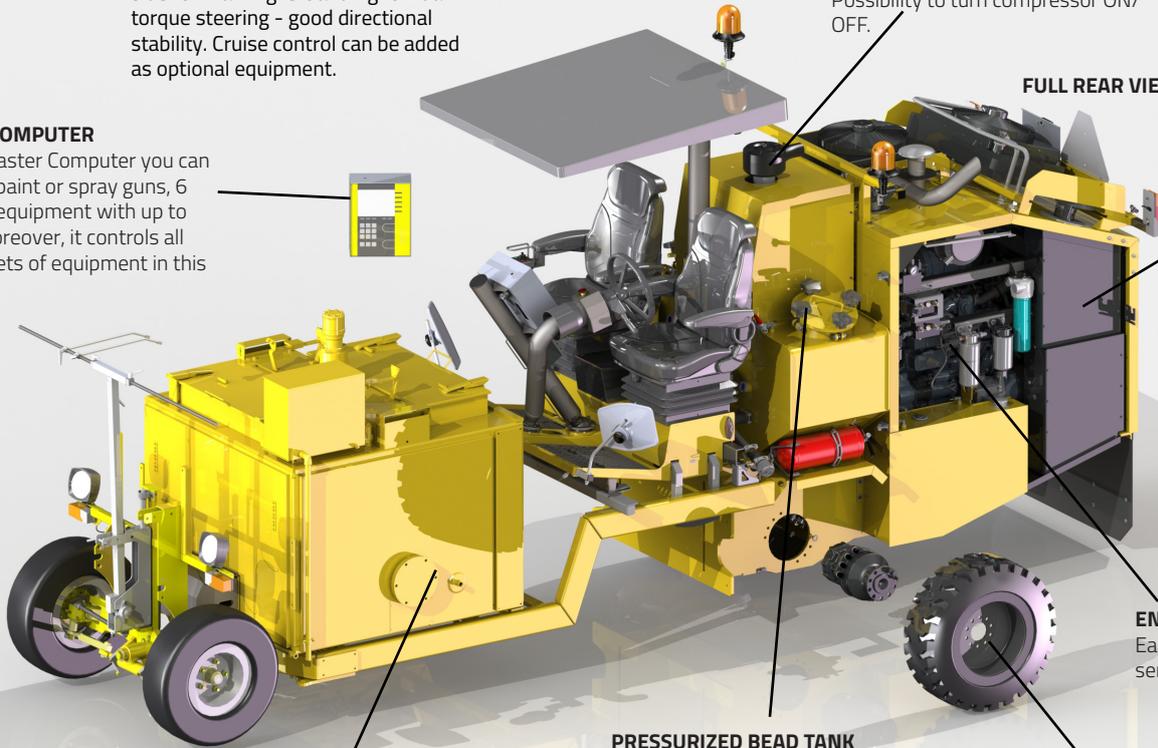
FULL REAR VIEW

DIESEL TANKS

Allows for a full day's work.

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.



ENGINE ROOM

Easy access for service.

CHASSIS

Solid double-frame construction

MATERIAL TANKS

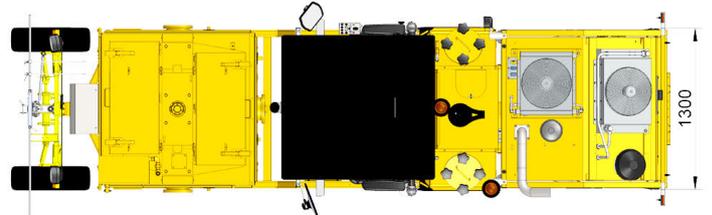
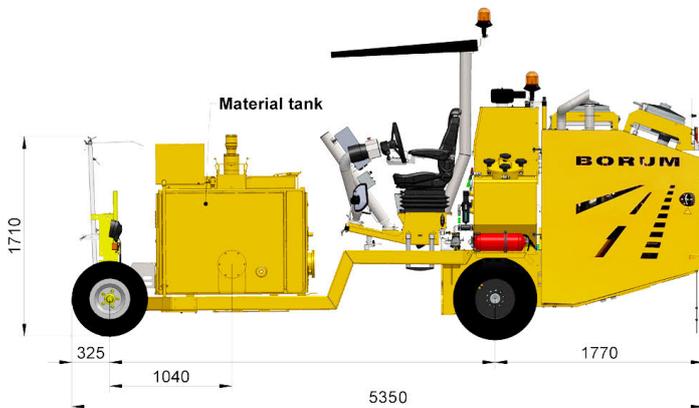
The possibility of an extra large material tank for major works ensures the most efficient workday and fast progression of the road works.

PRESSURIZED BEAD TANK

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

WHEEL MOTOR

2-speed wheel motor. Allows working uphill.

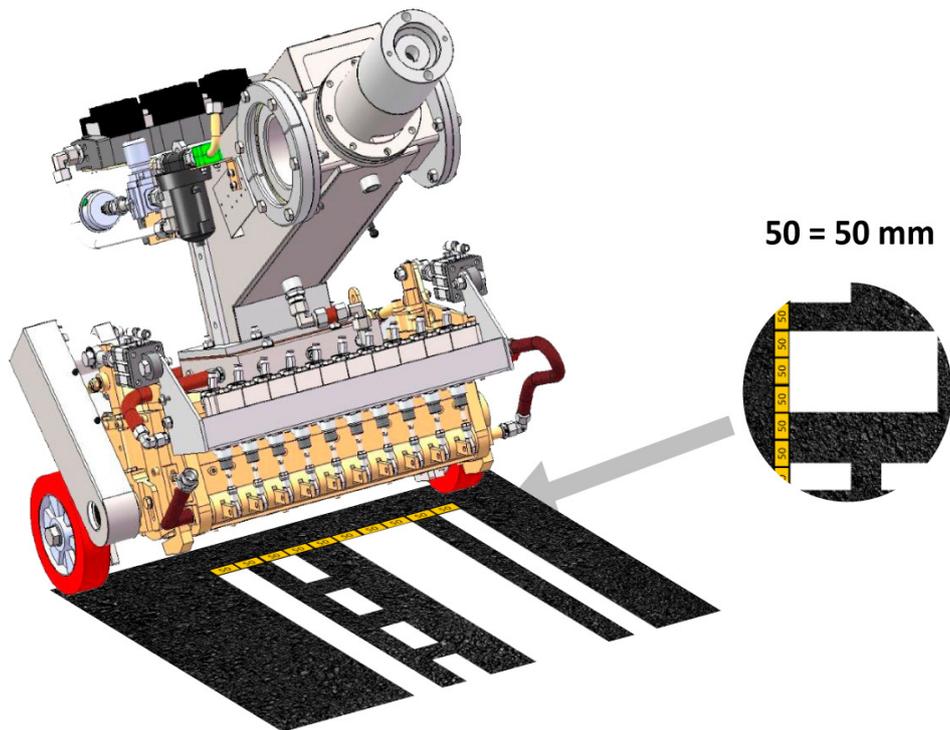


TECHNICAL SPECIFICATIONS

ENGINE	
Manufacturer	Deutz
Cooling	Water
RatedPower	100 kW / 136 HP @ 2300 rpm
Cylinder	4 stroke 3600 cm ³
Type	Turbo (Diesel)
Approval	EU Stage V (TIER 4)
COMPRESSOR	
Compressor Capacity	Hydraulic driven, air screw 2400 or 4500 L/min @ 10 bar. Integrated oil system with external oil cooler. Water separator.
FILLING CAPACITIES	
Fuel tank capacity	159 L (78 +81 L)
Hydraulic tank size	120 L
Bead capacity	330 L (2x 165 L). Pressurized (max 3 bars)
MATERIAL TANK	
Material Tank	445 L, 585 L, or 710 L
DRIVING PROPERTIES	
Drive angle	8° or 14% at 21 km/h, 17° or 30% at 11km/h
Turning radius	4.9 m
Steering	Hydraulic dual torque steering
TRANSMISSION	
Hydrostatic transmission	For variable speed, forward/backwards
Speed	Low gear 0-12 km/h, high gear 0-24 km/h
ELECTRICAL SYSTEM	
Electrical system	24 V / 100 Amp
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).
COLOUR	
Colour	Borum Yellow (Other colours available on request)
DIMENSIONS	
Length	5350 mm
Width	1300 mm
Height	2250 mm (Without Beacon)

THERMOPLASTIC EXTRUDER

The working principle of the extruder lies in the extrusion of the hot thermoplastic material through the extruder shutters onto the road surface. This allows to switch between line types in seconds with a push of a button. No need for mechanical adjustment.



The thickness of the line is controlled by the slot gap and the speed of the machine, coupled to the thermoplastic feed rate. Glass beads can be pre-mixed and/or automatically applied with glass bead guns.

You can choose between thermoplastic extruder of 30, 40, or 50 cm in total line width, built-up with 5 cm standard shutters (alternative shutter dimensions in the range of 4-10 cm for alternative line widths).

Effective heating of the complete unit using a centrifugal pump, 42 L/min, hydraulically driven. This ensures optimal performance and that the material does not stiffen and set inside the equipment.

Pneumatic lifting cylinder for up/down function, operation controlled from operator's seat.

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 the layer.

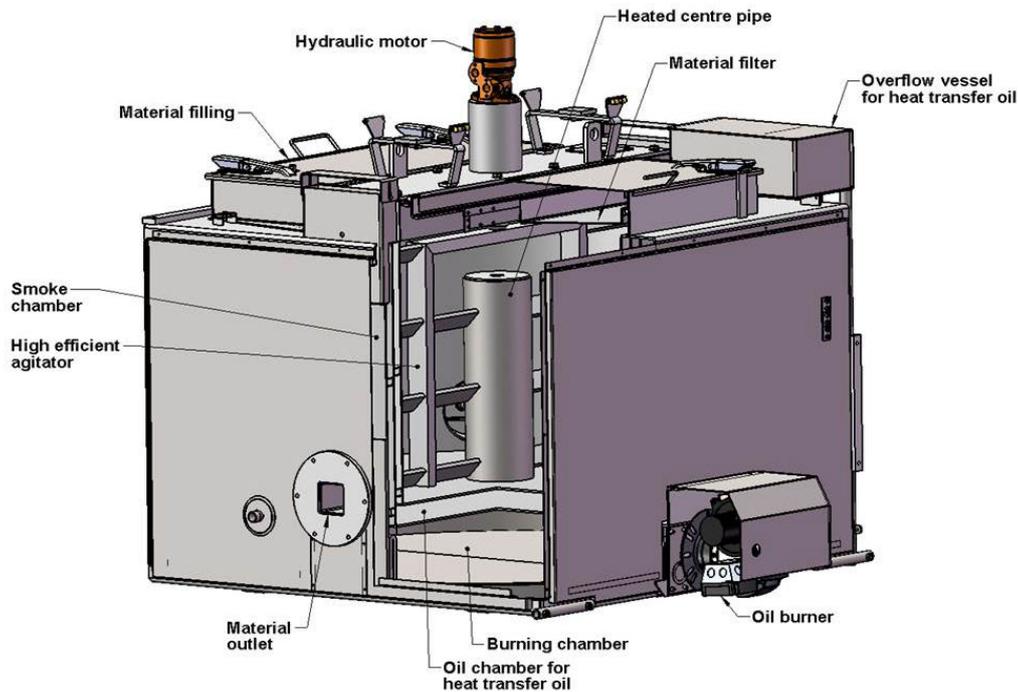
The application speed varies according to the material, line type and width. Usual working speed is 3-6km/h but can go up to 8 km/h for some lines. Speed-dependent settings are possible.

AUGER SCREW PUMP WITH CONTINUOUS RECIRCULATION SYSTEM

The transport of material from tank to extruder head is done by a hydraulically driven auger screw pump, which is electronically controlled. The screw pump has a permanent thermoplastic recirculation system which ensures a constant flow past the inactive extrusion shutters, keeping these clean and ready for opening. This avoids settling and catching of solid parts and prevents unnecessary wear of mechanical parts.

Build-in pressure regulating system ensures that line width and thickness does not change no matter the number of shutters involved in the current marking assignment.

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

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.

BURNER SYSTEM

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

FEATURES OF LINEMASTER AND MACHINEMASTER

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.

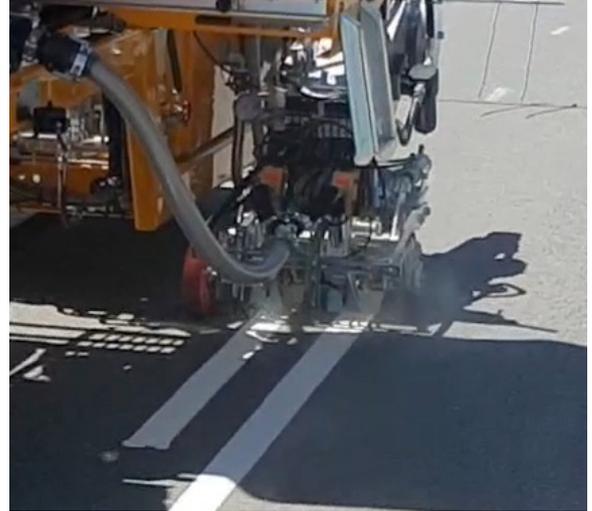
It is possible to store up to 99 different line types, and to arrange these in up to 30 different marking programs. You are also able to pre-set line widths, line types and different combinations to have them ready for marking, and can instantly adjust them on the go.

In the MachineMaster computer, 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 FEATURES

Thermoplastic is a durable material that cures quickly and adheres strongly to the road surface. It can be used for applications of both flat lines (also known as type 1 lines) or of thick profiled lines and markings (also known as type 2 lines).



This type of material is used on various types of roads, but you will often see it on highways or motorways as it can withstand high traffic density, it has a high visibility at night and during wet conditions and glass beads can be mixed in for enhancing visibility.



TYPICAL USES:

Thermoplastic is generally used on roads with high traffic volume and low night visibility as highways and motorways.



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.



Quick shift



Pointer turning with steering
With hydraulic lifting system



Fixed pointer
With hydraulic lifting system



Sunshade with 1 rotating light



Remote control for BM LineMaster



Bead alarm mounted on bead gun



Air drier for bead tank



Ejector filling of bead tank



Hydraulic broom



Airknife



Cone holder



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



Pre-marking system with paint can



Pre-marking system with paint gun



BM Online