



LINE TYPES

PHOTOS MAY SHOW OPTIONAL OR CUSTOMISED EQUIPMENT.



Rib line



Screed

SCREED APPLICATION WITH RIB FUNCTION

From city areas to urban and interurban roads, the BM 2700 can handle both smaller jobs and longer road stretches. The BM 2700 is an agile machine with excellent load abilities.

Equipped with the new generation of Borum's LineMaster computer, operating the machine is easy and convenient.

The BM 2700 has a one-seat slidable drive and operator section for flexible working on the left or right side. Easy access and servicing of the machine through large doors to the engine room.

The screed equipment with rib function can apply flat lines, long flex, and rib over line in fixed prechosen line widths up to 30 cm.

REVISION-002

KNOWING THE BM 2700

OPERATOR SECTION

Quick and easy change from side to side for marking left and right. Dual torque steering – good directional stability. Cruise control is a part of 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.

DIESEL TANKS

Allows for a full day's work.

ENGINE ROOM

Easy access for service.

CHASSIS

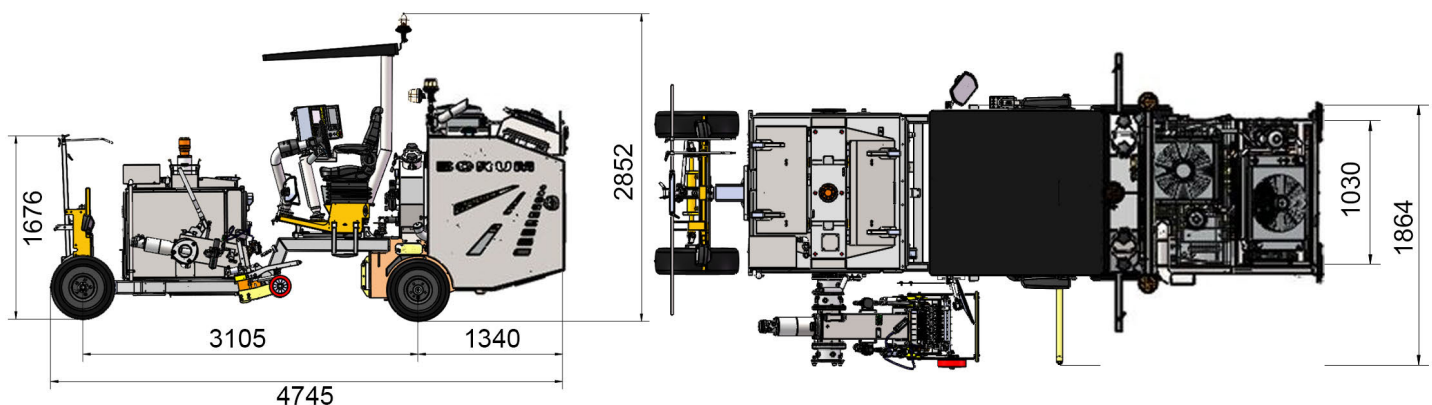
Solid double-frame construction

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.

THERMOPLASTIC EXTRUDER

PRESSURIZED BEAD TANK

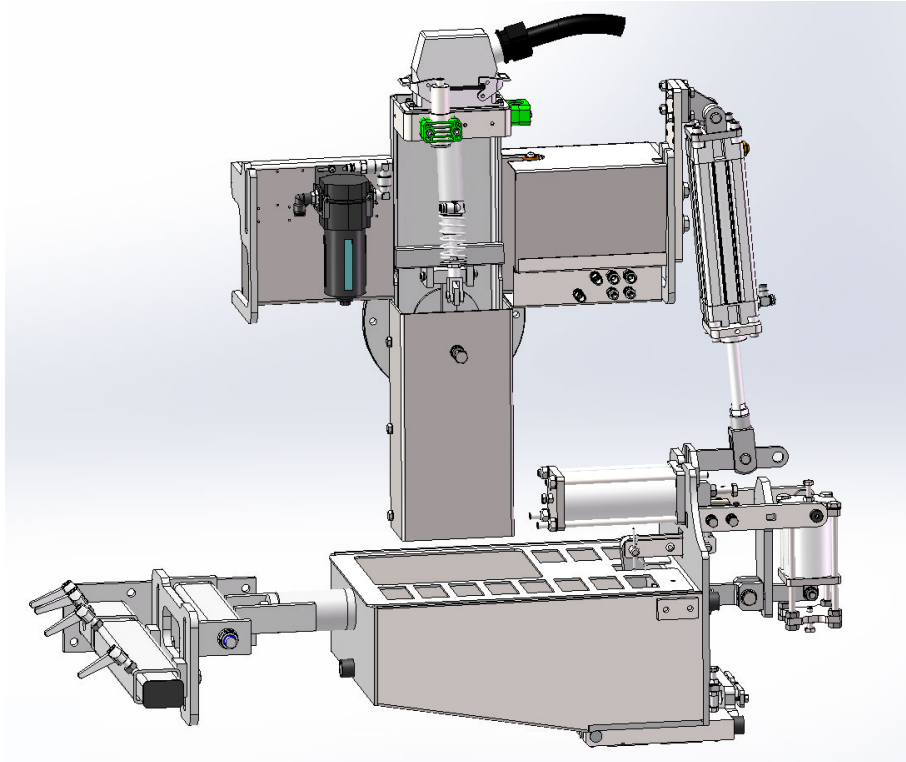


TECHNICAL SPECIFICATIONS

ENGINE							
Manufacturer	Deutz						
Cooling	Water						
RatedPower	55 kW						
Cylinder	4 stroke 2900 cm³						
Type	Turbo (Diesel)						
Approval	EU Stage V (TIER 4)						
COMPRESSOR							
Compressor Capacity	Screw compressor 2400 L/min @ 10 bar. Integrated oil-cooling system. Air-cooler incl. water separator.						
FILLING CAPACITIES							
Fuel tank capacity	2x 60 L						
Hydraulic tank size	88 L						
Bead capacity	140 L/224 kg. Pressurized (max 1.5 bar)						
MATERIAL TANK							
Material Tank	360 L						
DRIVING PROPERTIES							
Drive angle	15° / 27%						
Turning radius	3.45 m						
Steering	Hydraulic dual torque steering						
TRANSMISSION							
Hydrostatic transmission	For variable speed, forward/backwards						
Speed	0-17 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	4750 mm						
Width	1180 mm without equipment						
Height	2520 mm						

THERMOPLASTIC SCREED BOX WITH RIB FUNCTION

The screed box can apply flat lines, long flex, and ribs over a line in one pass. The Borum thermoplastic screed box is available in the following widths: 10, 12, 15, 20, 24, 25, 30 cm.



With this type of screed application, the box is dragged with constant contact to the surface. The contact points determine the line width. The material pressure is by gravity only and this is how the material is poured in the marking box. The material coming out of the box will fill up any holes, pores, or other types of road imperfections. This means that material consumption will depend on the road surface

The screed box equipment is mounted directly on the side of the material tank.

The Borum thermoplastic screed box is available in the following widths: 10, 12, 15, 20, 24, 25, 30 cm.

Other sizes are available upon request.

The equipment is constructed with one main application box covering a range of line widths, either 0 - 20 cm or 20 - 30cm. If you do not need to switch the line widths often, you have the option to only change the application opening based on your width requirements instead of changing the whole box! This makes the application equipment more cost-efficient!

The thickness for the application of flat lines is usually between 2 - 4 mm.

The usual application speed for applying ribs over a flat line is 1-3 km/h, while for screed application of flat lines it is up to 5 km/h.

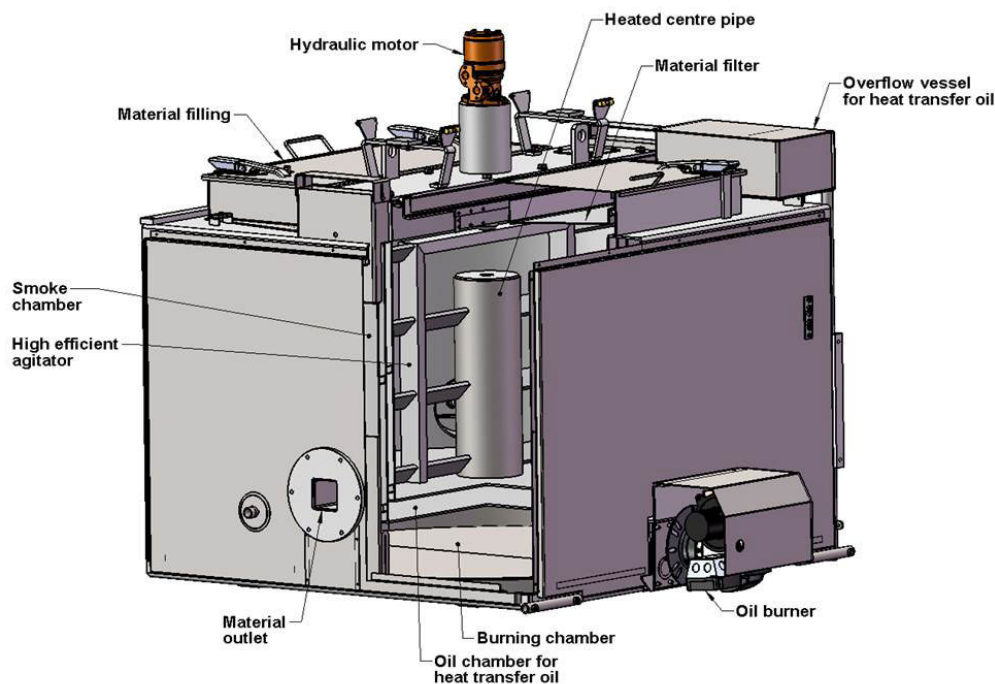
RIB LINE FUNCTION

The screed box is also equipped with a rib function. This allows you to apply ribs over a line in one pass. The total height of line with rib is usually between 8 to 15 mm depending on the material. The base line is recommended to be as thin as possible when combined with ribs (approx. 1,5 - 2 mm).

LASER SENSOR FOR MEASURING AND REFILLING MATERIAL

The equipment is supplied with a laser that constantly measures the material level in the application box. If the material level becomes lower than 50%, the application box will be automatically refilled.

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.

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.



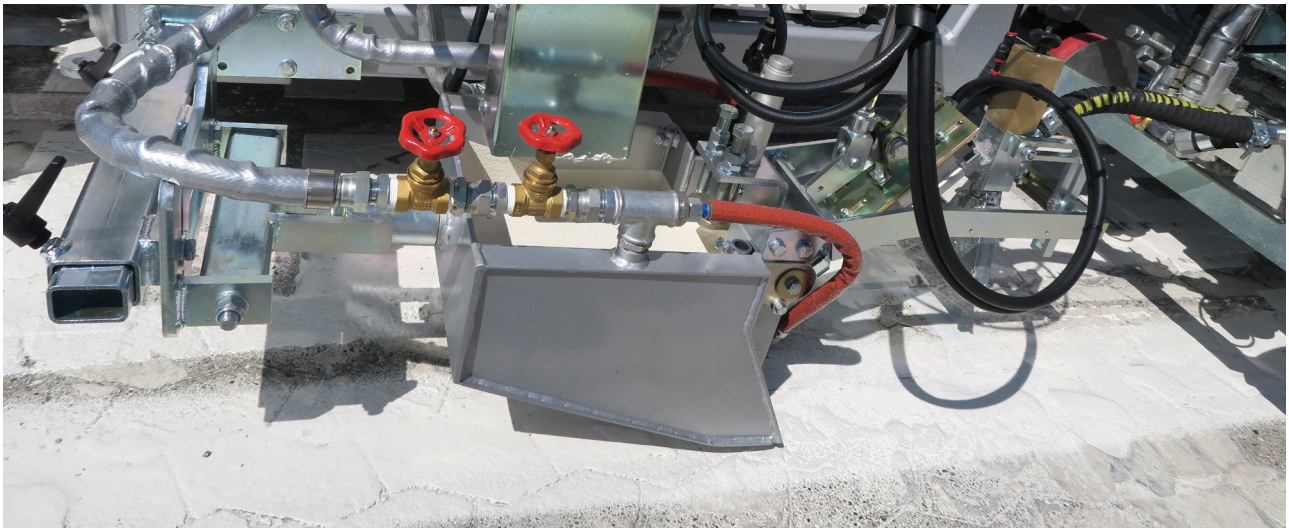
THERMOPLASTIC MATERIAL ADVANTAGES

Thermoplastic material has a long-life duration with high retro-reflectivity capabilities due to being able to pre-mix glass beads in the material. Thermoplastic markings cure quickly and adhere strongly to the road surface. Generally, thermoplastic is recommended for areas with high traffic density and/or areas with low lighting as e.g. highways.

The rib line equipment is a good solution if you are only going to work with flat fixed-line width markings and rib line application.



An alternative to the rib line equipment is the Borum thermoplastic extruder with which you can apply various flat and profiled markings. The extruder also uses a different application method by extruding an even layer of material on the road surface. Therefore, if the surface is rough or uneven, the line is the same as it follows the imperfections. In other words, the material consumption will be predictable according to the adjustments and will not be as influenced by the type and condition of the road surface.



TYPICAL USES:

Rib Line is typically used on the edge of roads in order to alert drivers running off course.



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



Sunshade with 1 rotating light



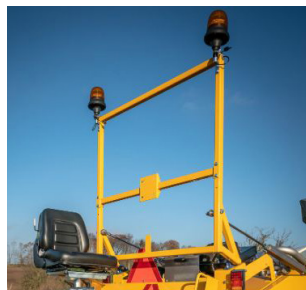
Cruise control



BM Online



Bead alarm mounted on bead gun



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



Pre-marking system with paint gun



Cone holder



Pointer turning with steering
With hydraulic lifting system



Remote control for BM Lin-eMaster



Air drier for bead tank



Fixed pointer
With hydraulic lifting system



Pre-marking system with paint can



Airknife



Hydraulic broom