



PHOTOS MAY SHOW OPTIONAL OR CUSTOMISED EQUIPMENT.



Single basic line



Single basic line



Double basic line



Double basic line



Dots



Longflex

2-COMPONENT COLD PLASTIC WITH SPRAY, EXTRUDER AND DOT EQUIPMENT (98:2)

The BM 5500 is a high capacity line marking machine designed for large scale jobs such as marking highways, motorways or airport runways.

The material tank capacity can be either 2 x 440L or 1 x 1000L. The possibility of 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 equipment on this machine may be used for the application of flat lines and profiled dots. Depending on the equipment set-up, the machine can apply lines in widths between 10 - 30 cm with the extruder and dot equipment. For the spray application, the machine can apply a line up to 20 cm in width with one gun.

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.

CHASSIS

Solid double-frame construction

MATERIAL TANKS

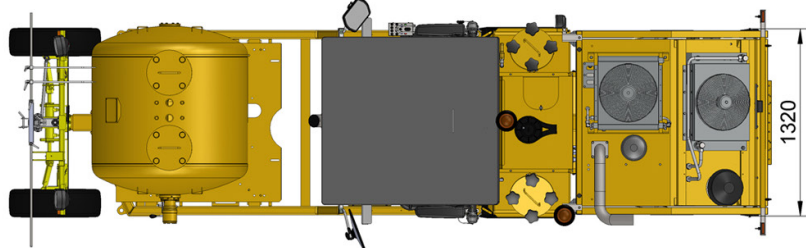
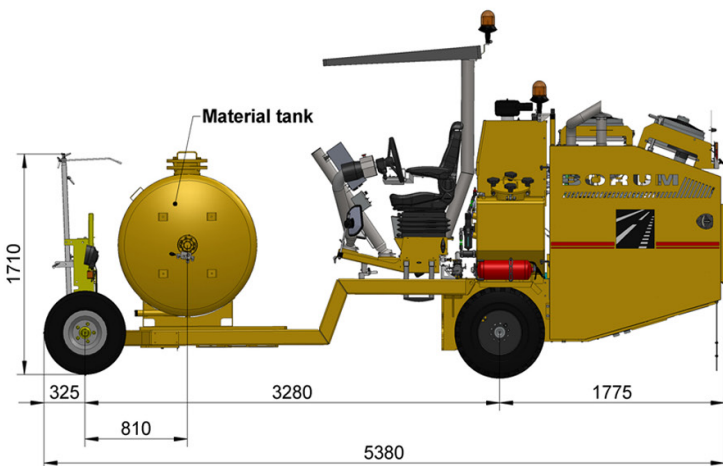
The possibility of an extra large material tank for major works ensures the most efficient workday and fast progression of the road works.

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							
Cooling	Water						
RatedPower	90kW / 121HP @ 2300rpm						
Manufacturer	Deutz TCD 3.6 L4						
Cylinder	4 cylinder, 3600cm3						
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.						
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	2 x 440 L or 1000 L						
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						
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	RAL 1007 (Other colours available on request)						
DIMENSIONS							
Length	5350 mm						
Width	1300 mm						
Height	2250 mm (Without Beacon)						

2-COMPONENT COLD PLASTIC (98:2) EQUIPMENT - GENERAL INTRODUCTION

Being equipped with an internal mixer for mixing of the paint and hardener and efficient cleaning system that is easily triggered from the machine's computer, the Borum 2-component cold plastic equipment is constructed to provide high-quality road markings.

THE BORUM 2-COMPONENT COLD PLASTIC EQUIPMENT (LOW PRESSURE SYSTEM) CONSISTS OF:

1. Separate material tanks for:
 - Paint
 - Hardener
 - Solvent for cleaning
2. Feeder system with:
 - Pump system that ensures the 98:2 ratio for the paint and hardener
 - Mix for blending the paint and the hardener. The mixing of the material is done internally, so it is not affected by external factors as wind etc., as for external mixing
 - Pressure valves digitally controlled by Borum LineMaster computer. No need for mechanical adjustment while marking



LOW PRESSURE PUMP SYSTEM WITH INTERNAL MIXING FOR SECURING 98:2 RATIO

The pump system consists of a lobe type paint pump and gear type pump for hardener. The two pumps are driven by one hydraulic motor via chain and variable gearbox securing the 98:2 relation between paint and hardener.

The system is also equipped with a controller for performing the flushing of gun(s) and mixer.

BORUM VARIO RETAINER FOR EASY EQUIPMENT SWITCH

The Borum Vario Retainer provides a unique possibility to interchange between applications in a very short time, with very few standard tools. When the work is done, the retainer and application equipment can be easily stowed under the machine. The retainer makes it possible to use all application equipment in different positions on the machine.

Easily slidable from side to side for an optimal working position. Ground distance is maintained by retainer wheel to ensure a constant road marking width.

ALARMS

- Alarm when hardener does not flow during marking work. This helps to avoid non-cured markings to be applied
- Alarm when there is a break in the marking works which is longer than set in the computer. This notifies you to clean the system before material cures inside the equipment.



THIS MACHINE IS EQUIPPED WITH

2-COMPONENT SPRAY EQUIPMENT

Low-pressure system using paint guns with atomizing air. Maximum paint pressure is up to 10 bar.



Possibility to apply line widths of up to 20 cm with one gun depending on work conditions, application speed, and layer thickness. The machine can be supplied with one or two spray guns.

For guns with atomizing air the volume of paint applied is adjusted by an electrically operated control valve. This gives a flexible driving speed while securing the same line thickness. Static mixer is provided.

Working speed can be up to 10 km/h depending on the conditions, e.g. material, line type and operator experience.



2-COMPONENT COLD PLASTIC (98:2) EXTRUDER

The extruder is ordered for the specific line width. The line width can be 10-30 cm and the line thickness can be set to 1-3 mm (ribs/profiles can be up to 10mm depending on the material).



The extruder head is provided with a quick connector to the mixer head for easy exchange of equipment. The extruder is also provided with a pneumatic cylinder with cleaning arrangement.

The extruder is ordered for the specific line width. Available line widths are 10, 12, 15, 17, 20, 22, 24, 25, 30 (4, 5, 6, 7, 8, 8.5, 9, 9.5, 10, 12 inch.) Provided with quick connector to the mixer head for easy exchange of head.

Usual marking speed is between 2-6 km/h depending on work and weather conditions, operator experience, etc. Faster application speeds can be achieved.

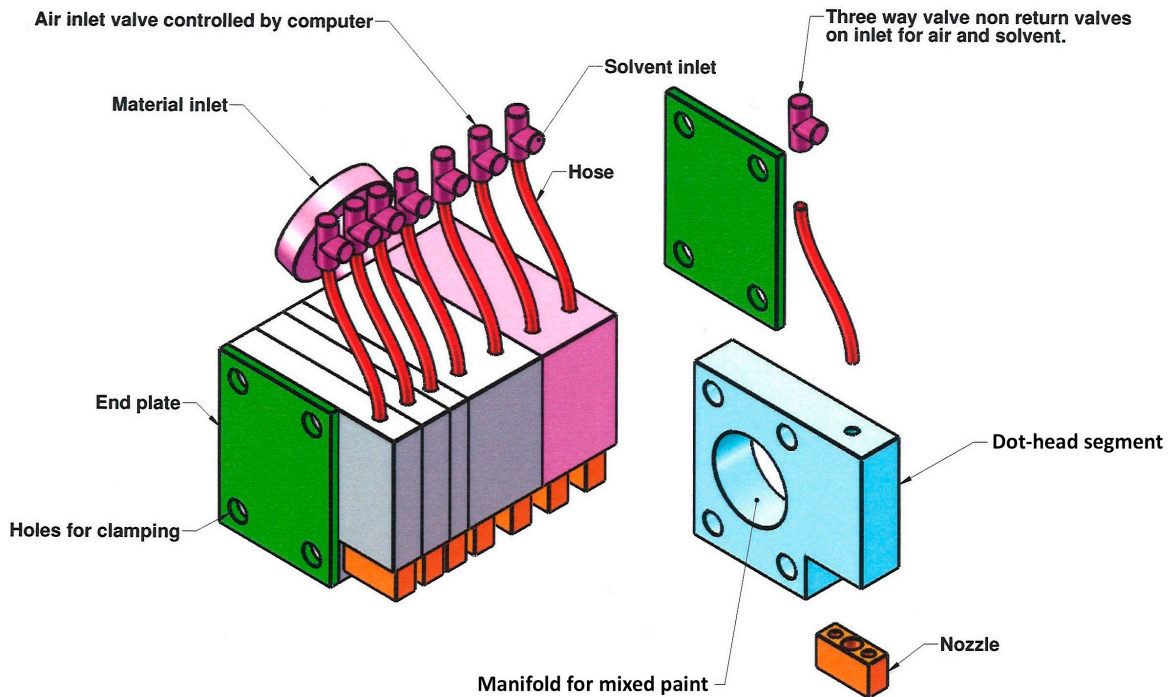
Recommended paint viscosity for extruded lines is higher than 6500 cp and for ribs is higher than 8500 cp.

Fitting and exchanging the Borum 2-Component Extruder with other 2-component equipment, such as Dot or Agglomerate, can be done in less than 2 minutes, without the use of tools.



DOT APPLICATION, 2-COMPONENT 98:2, STRUCTURED MARKING

For making 2-component dotted lines in all standard line widths.



The Borum 2-component DOT is a flexible system of building blocks, which makes it possible to put together exactly the required application size.

The line width can be 10-30 cm, the line thickness can be from 1,5 to 5 mm, and the gap between the dots is 17 mm. Dot thickness is usually around 3-4 mm.

The marking speed can be 4-5 km/h depending on the conditions, e.g. material, dot size, operator's experience, etc.

DOT basic module includes 6 rows of DOTs. With a built-in mixer and pneumatic valves for paint, hardener and cleaning solvent, all controlled from the LineMaster.

Maximum of 18 dots across the head, separate cleaning extension is needed for dot heads wider than 13 dots.

Recommended quantity dots/m 15-20, controlled in the LineMaster computer. Recommended paint viscosity > 8500 cp.

PRESSURIZED STAINLESS STEEL TANK



PRESSURIZED MATERIAL TANK FOR 2-COMPONENT

Pressurized material tank and filters in stainless steel for water and ammonium based paints. Option for black steel tanks.

The material tank has a filling system with two filling holes. This makes the filling process very easy to manage.

AGITATOR (MIXER)

Driven by hydraulic motor and with manually operated reversing valve.

EASY-TO-USE CLEANING SYSTEM

The cleaning system is formed by a solvent tank for cleaning of mixer-head, hoses and paint guns. The system is activated via the Borum LineMaster computer. The cleaning process is an automated preset sequence ensuring the correct valves are opening/closing.

36L pressure solvent tank for cleaning of mixer-head, hoses and paint guns.

Stainless steel, max 8.5 bar.

NB! When working with 2-component whenever the application is stopped, application equipment has to be cleaned from the cold plastic mixture within a few minutes.

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.

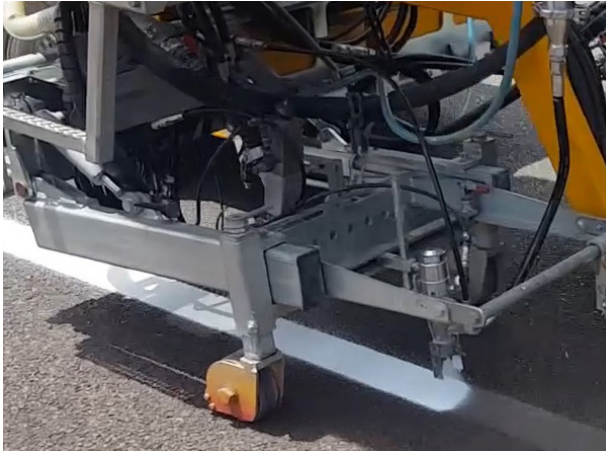
It is possible to store up to 99 different line types, and to arrange these in up to 30 different marking programs. You are also able to pre-set line widths, line types and different combinations to have them ready for marking, and can instantly adjust them on the go.

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.

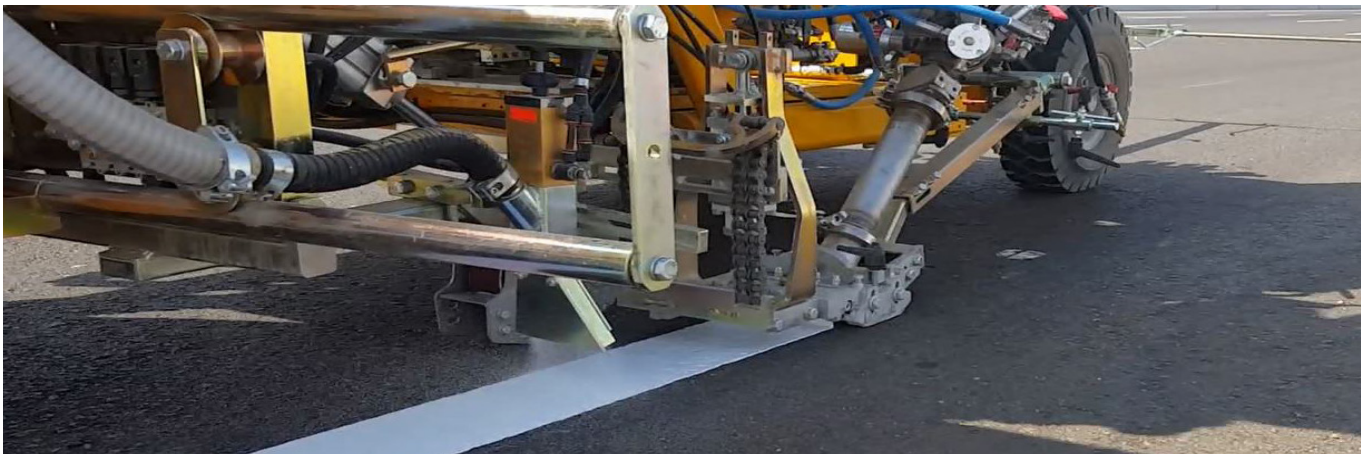


2-COMPONENT MATERIAL ADVANTAGES

The 2-component application material is a great solution for ensuring reliable line markings in areas with dense traffic. With 2-component material, you get a wear-resistant road marking with good visibility, durability and little dirt pick up.



The challenge with 2-component cold plastic material is that once it is mixed it needs to be applied on the road right away. Even though Borum machines are designed to mix the materials as late as possible in the application process, you will need to pay attention to the time frame you have, before the material cures inside the machine / equipment.



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.



Hydraulic broom



Air drier for bead tank



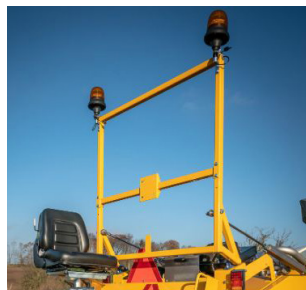
Ejector filling of bead tank



Pre-marking system with paint can



Cone holder



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



Hand paint gun



Remote control for BM Lin-eMaster



BM Online



Airknife



Bead alarm mounted on bead gun



Pointer turning with steering
With hydraulic lifting system



Pre-marking system with paint gun



Sunshade with 1 rotating light



Fixed pointer
With hydraulic lifting system