

PHOTOS MAY SHOW OPTIONAL OR CUSTOMISED EQUIPMENT.



Single basic line



Single basic line



Double basic line



Double basic line



Double basic line

2-COMPONENT ATOMIZED SPRAY APPLICATION (98:2)

From city areas to urban and interurban roads, the BM 2500 can handle both smaller jobs and longer road stretches.

The BM 2500 is an agile machine with excellent load abilities. It allows for thermoplastic capacities up to 360 liters, 2- component or Cold Paint capacities of 440 liters and for two colors cold paint also 2 x 220 liters.

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

The machine can apply one line in widths up to 20 cm with one gun. The equipment on this machine may be used for the application of single lines and double flat lines of different widths.

*NB! The equipment can simultaneously apply either two continuous lines or two interrupted lines. The

TECHNICAL SPECIFICATIONS

ENGINE		■ ■ ■ ■ ■ ■ ■ ■
Manufacturer	Kubota	
Type	Turbo (Diesel)	
Cylinder	4 stroke 2400 cm ³	
RatedPower	44 KW	
Approval	EU Stage IIIA resp. TIER 3	
Cooling	Water	
COMPRESSOR		■ ■ ■ ■ ■ ■ ■ ■
Compressor Capacity	Screw compressor. 1800 L/min @ 10 bar Integrated oil-cooling system. Air-cooler incl. water separator.	
FILLING CAPACITIES		■ ■ ■ ■ ■ ■ ■ ■
Bead capacity	115 L/170 kg. Pressurized (max 1.2 bars)	
Hydraulic tank size	70 L	
Fuel tank capacity	2 x 50L	
MATERIAL TANK		■ ■ ■ ■ ■ ■ ■ ■
Material Tank	440 L or 2 x 220 L	
DRIVING PROPERTIES		■ ■ ■ ■ ■ ■ ■ ■
Steering	Dual torque steering	
Drive angle	12 degrees / 21% (5000 kg)	
Turning radius	4,2 m	
TRANSMISSION		■ ■ ■ ■ ■ ■ ■ ■
Speed	0-15 km/h	
Hydrostatic transmission	For variable speed, forward/backwards	
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).	
DIMENSIONS		■ ■ ■ ■ ■ ■ ■ ■
Length	4750 mm	
Height	2520 mm	
Width	1180 mm without equipment	

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 or the paint and hardener
 - Mixer 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

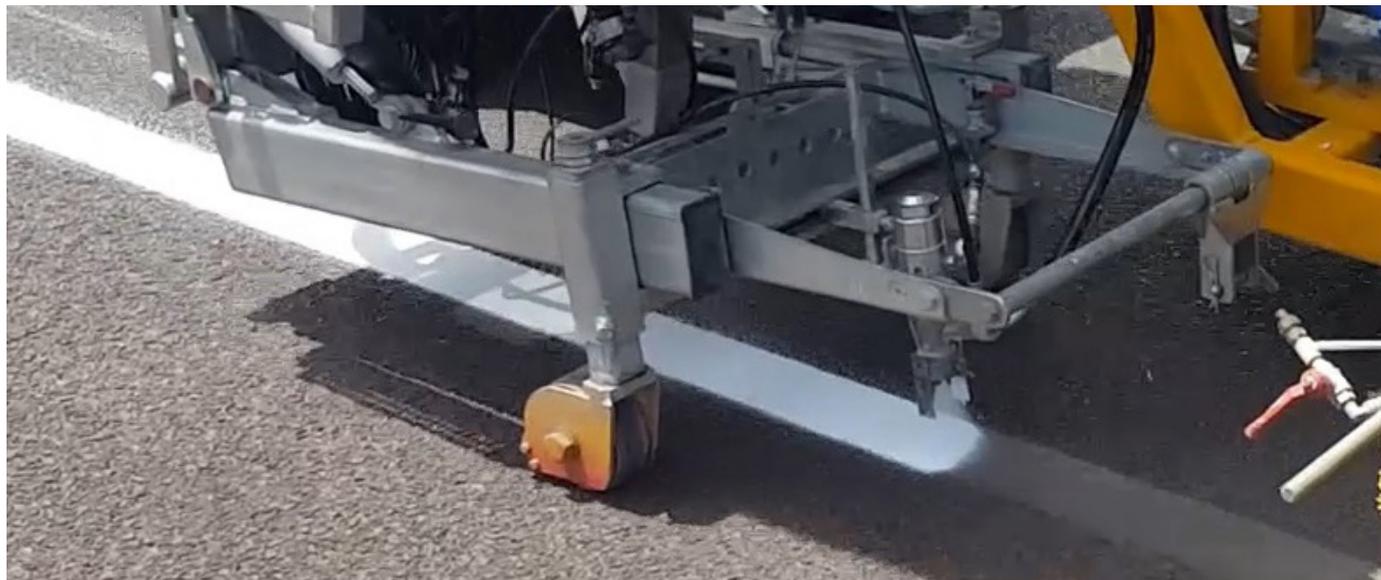
- Alarm when hardener does not flow during marking work. This helps to avoid non-cured markings to be applied
- Alarm when there is a break in the marking works which is longer than set in the computer. This notifies you to clean the system before material cures inside the equipment.



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.

*NB! The equipment can simultaneously apply either two continuous lines or two interrupted lines. The equipment cannot apply continuous or interrupted lines simultaneously.

AS AN OPTION YOU CAN ALSO ADD ONE OF THE FOLLOWING APPLICATION EQUIPMENTS

2-COMPONENT SPRAY 98:2

The machine can be supplied with one or two spray guns and possibility to apply line widths of up to 20 cm (8 inch) per gun. Please notice that restrictions apply when 2 guns are mounted.

2-COMPONENT 98:2, EXTRUDER 98:2 (STRUCTURED MARKING)

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.

2-COMPONENT 98:2, AGGLOMERATE APPLICATION (STRUCTURED MARKING)

Agglomerate needle roller available in a standard width of 30 cm (11.8 inch). It must be mounted under extruder unit. Line size depends on the extruder.

*NB! There are limitations when using the same machine for both sprayed and profiled applications:

- Thorough cleaning of material tanks is needed when changing material
- The pump will be worn when using the rougher material for profiled markings, so after a while the pressure will not be sufficient for a proper result with spray.

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 (79 lb wt.) pressure solvent tank for cleaning of mixer-head, hoses and paint guns. Stainless steel, max 8.5 bar (123 psi).

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.



Hand paint gun



Ejector filling of bead tank



Sunshade with 1 rotating light



Pointer turning with steering
With hydraulic lifting system



Remote control for BM Lin-eMaster



Air drier for bead tank



Cone holder



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



Fixed pointer
With hydraulic lifting system



Airknife



Pre-marking system with paint can



Hydraulic broom