

PHOTOS MAY SHOW OPTIONAL OR CUSTOMISED EQUIPMENT.



Single basic line



Single basic line



Double basic line



Double basic line

## 2-COMPONENT AIRLESS APPLICATION (98:2)

From city areas to urban and interurban roads, the BM 2000 can handle both smaller jobs and longer road stretches.

The BM 2000 CP A is an agile machine with excellent load abilities and a turning radius of only 3,2 m. It allows for paint tank capacities of 440 L or 2 x 220 L.

The BM 2000 has a one-seat slidable drive and operator section for flexible working on the left or right side.

The application equipment can be set to execute lines between 10 - 30 cm. The equipment on this machine may be used for the application of flat lines in both single and double lines of different widths as well as for simultaneous application of continuous and interrupted lines.

# KNOWING THE BM 2000

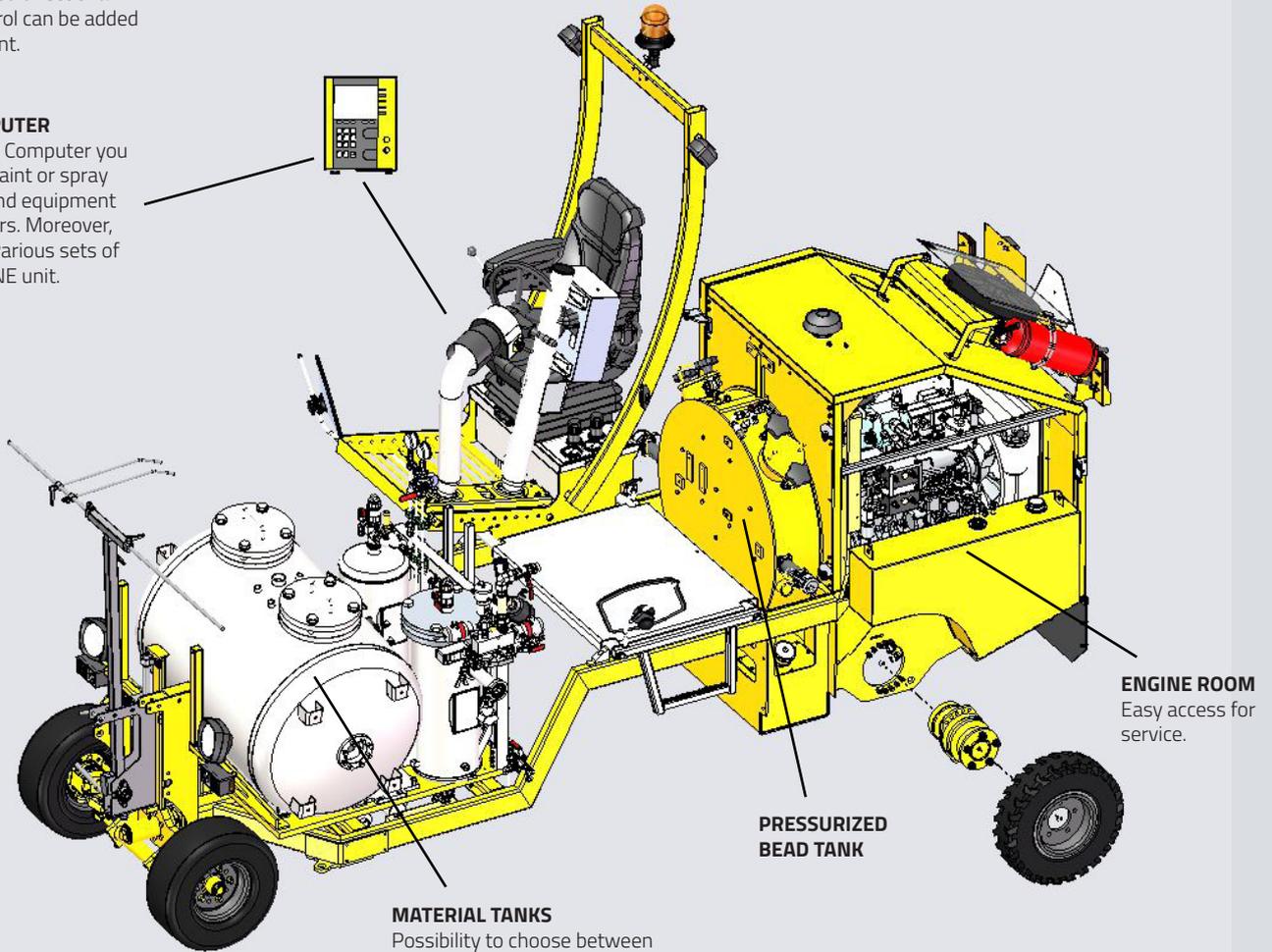
## OPERATOR SECTION

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.

FULL REAR VIEW

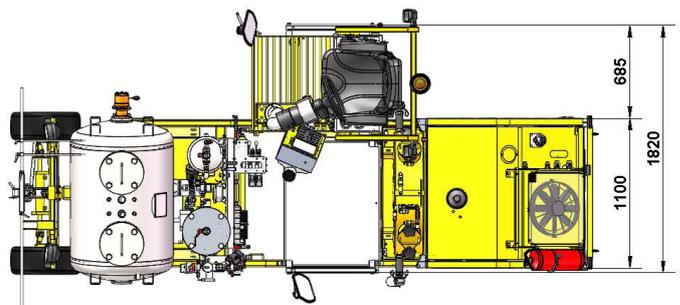
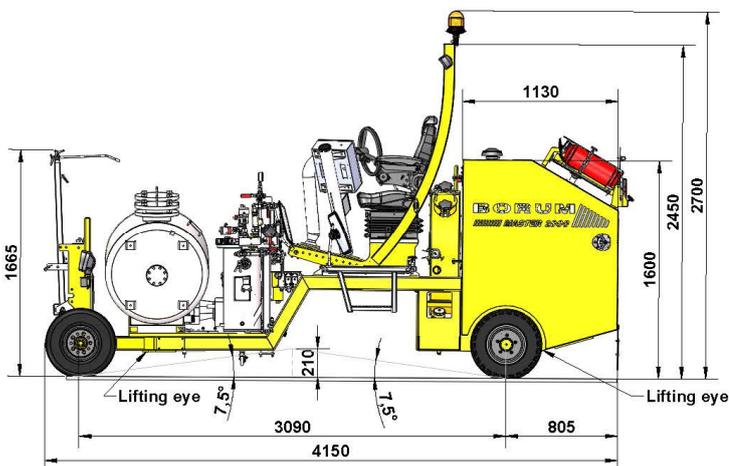


## CHASSIS

Solid double-frame construction

## MATERIAL TANKS

Possibility to choose between black steel and stainless steel tanks with capacities of 440 L or 2x200 L.



# TECHNICAL SPECIFICATIONS

ENGINE	
Manufacturer	Kubota
Type	Turbo (Diesel)
Cooling	Water
Cylinder	4 stroke 2400 cm <sup>3</sup>
RatedPower	44 KW
Approval	EU stage IIIA (type V2403-M-T-)/US Interim TIER 4
COMPRESSOR	
Compressor Capacity	Screw compressor. 1800 L/min @ 10 bar Integrated oil-cooling system. Air-cooler incl. water separator.
FILLING CAPACITIES	
Fuel tank capacity	50 L (diesel)
Hydraulic tank size	50 L
Bead capacity	115 L/170 kg. Pressurized (max 1.2 bars)
MATERIAL TANK	
Material Tank	440 L
DRIVING PROPERTIES	
Turning radius	3,2 m
Steering	Dual torque steering
TRANSMISSION	
Hydrostatic transmission	For variable speed, forward/backwards
Speed	0-16 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	4150 mm
Width	1100 mm
Height	2450 mm (Without Beacon)

# 2-COMPONENT (98:2) AIRLESS EQUIPMENT

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 (98:2) EQUIPMENT (AIRLESS SYSTEM) CONSIST OF:

1. Separate material tanks for:
  - Paint- Hardener
  - Solvent for cleaning
2. Feeder system with:
  - Pump system that ensures a fixed 98:2 ratio for 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.

Pulsation damper in the hydraulic oil circuit, which helps minimize piston pulsations. Sliding retainer frame, upon which 1 or 2 paint guns and 1 or 2 bead guns are attached. Easy slidable from side to side for an optimal working position.

Lifting of retainer is done from operator seat. Ground distance is maintained by retainer wheel to ensure a constant road marking width. The retainer makes it possible to use all application equipment in different positions on the machine. Possibility to apply line widths up to 25 cm with standard nozzle depending on the nozzle choice, line thickness, work conditions, application speed and layer thickness.

Working speed can be up to 15 km/h depending on the conditions, e.g. material, line type and operator experience.

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

## PISTON PUMP - DOUBLE ACTION

Double-action piston pump for 98% paint and 2% hardener with two pistons for the paint and one piston for the hardener. The 3 pistons are driven by a common hydraulic motor in order to secure the right relation between paint and hardener. A static mixer is mounted close to the paint guns.

Efficient pump with less wear and tear than other products available on the market. The pump has a sensor for registration of the paint flow. The pump capacity (displacement volume) is up to 45 L/min (99 lb wt./ min).

# NON-PRESSURIZED STAINLESS STEEL TANK



## NON-PRESSURIZED STAINLESS STEEL TANK

Non-pressurized material tank and filters in stainless steel for water and ammonium based paints.

The material tank has a filling system with large filling holes. This makes the filling process very easy to manage. In addition, the large filling holes also make cleaning the tanks easy.

## 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).

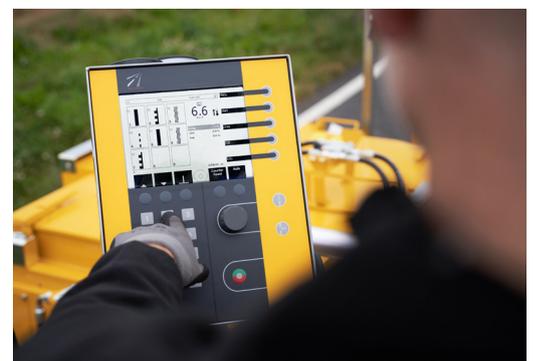
NB! When working with 2-component whenever the application is stopped, application equipment has to be cleaned from the cold plastic mixture within a few minutes.

## 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.



### 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.



**Ejector filling of bead tank**



**Air drier for bead tank**



**Fixed pointer**  
With hydraulic lifting system



**Remote control for BM Lin-eMaster**



**Cone holder**



**Pointer turning with steering**  
With hydraulic lifting system



**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**



**Airknife**



**Pre-marking system with paint can**



**Hydraulic broom**



**Hand paint gun**