



PHOTOS MAY SHOW OPTIONAL OR CUSTOMISED EQUIPMENT.

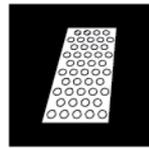
LINE TYPES



Double basic line



Dots



Dot'n line



Longflex



Edgeflex



Chess

DOT'N LINE THERMOPLASTIC EXTRUSION

The BM 5700 series provides you with a variety of high capacity line marking machines designed for large scale jobs such as marking highways, motorways or airport runways.

Equipped with a Deutz diesel engine, the BM 5700 meets the Stage V (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 5700 has a two-seat slidable drive and operator section for flexible working on the left or right side.

The thermoplastic Borum Dot'n line extruder can apply single and double lines of 5 – 50 cm width depending on the configuration of the equipment. The extruder may be used for the application of flat lines, profiled lines, dots and a combination of dots and 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.

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

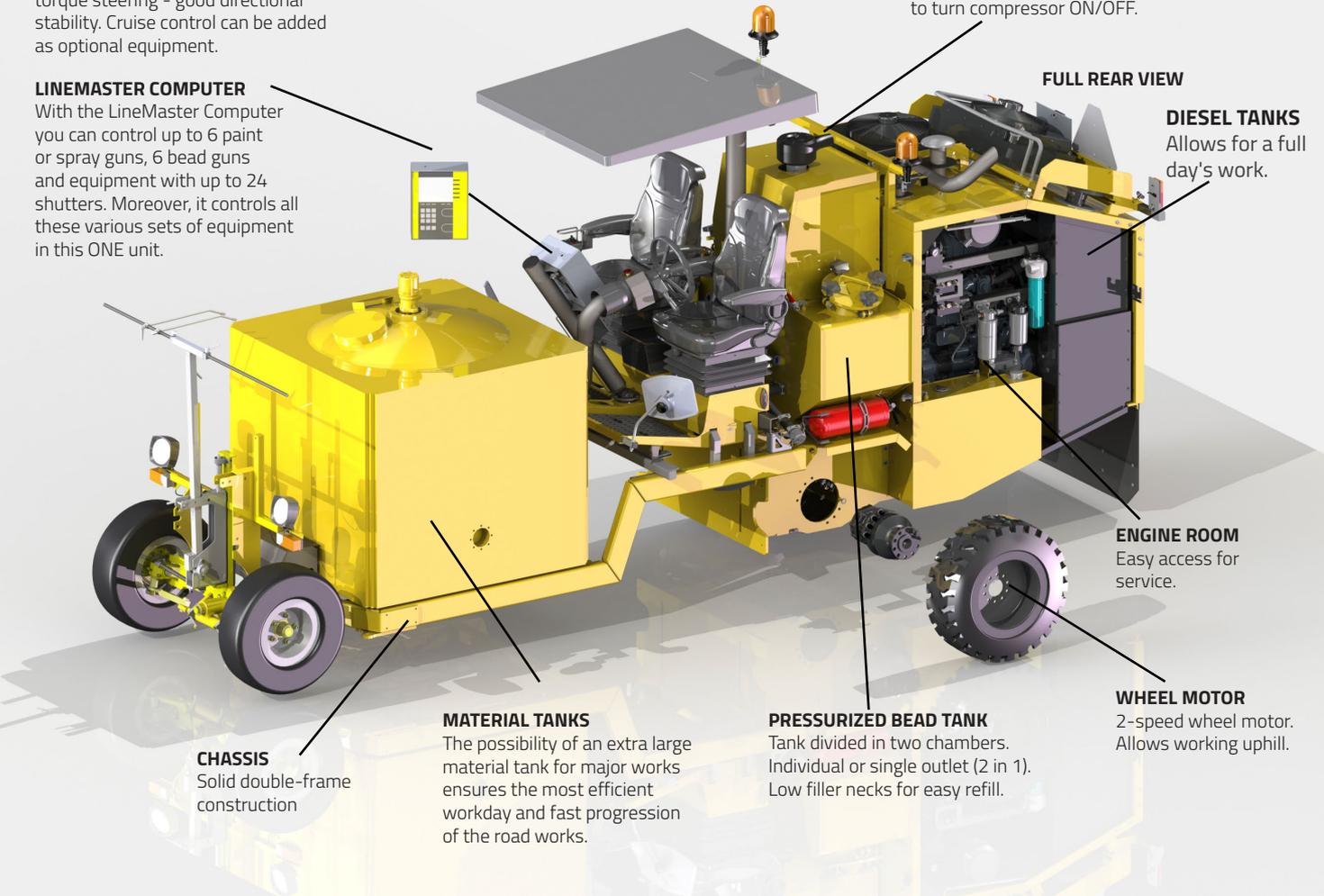
Allows for a full day's work.

ENGINE ROOM

Easy access for service.

WHEEL MOTOR

2-speed wheel motor. Allows working uphill.



CHASSIS

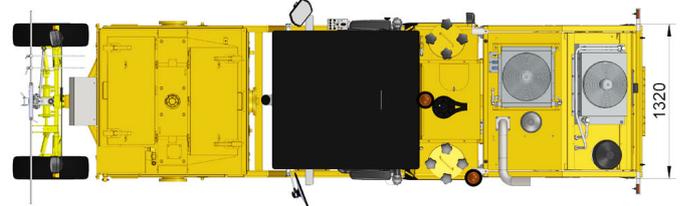
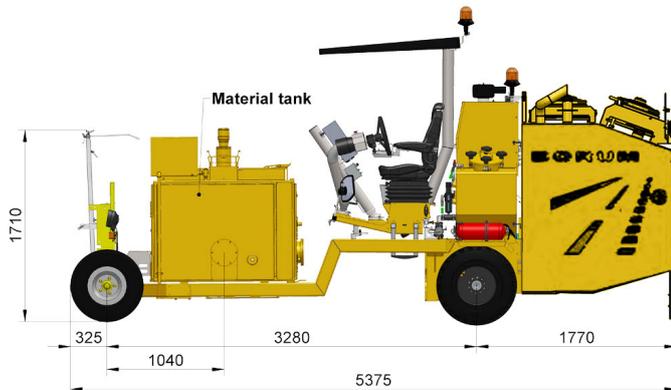
Solid double-frame construction

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.



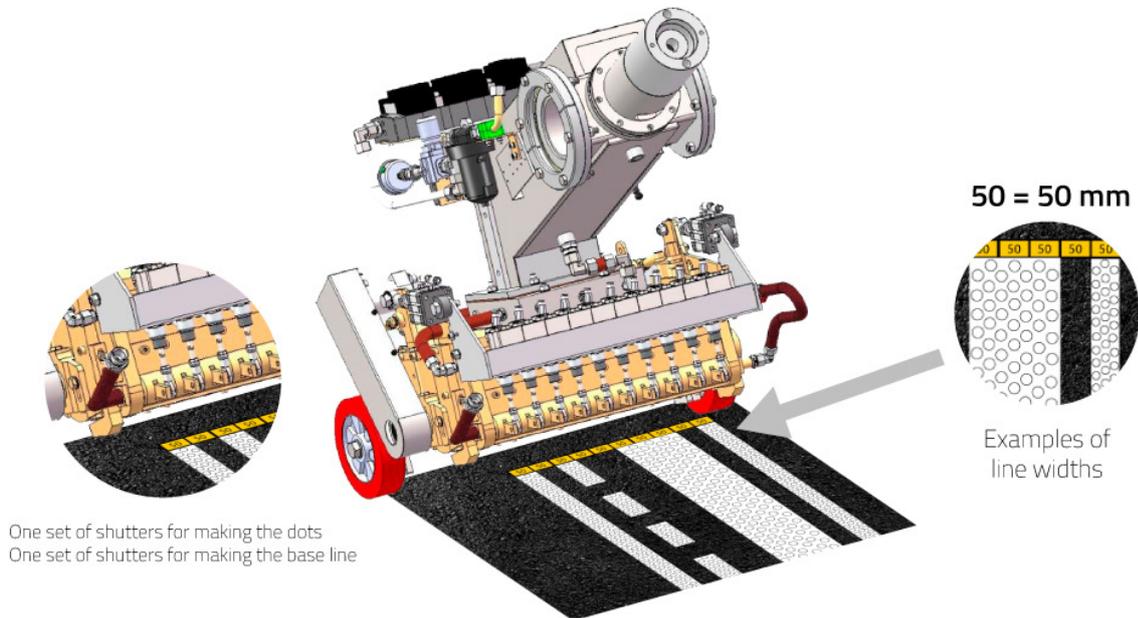
TECHNICAL SPECIFICATIONS

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 DOT'N LINE EXTRUDER

The Dot'n line system offers a three-in-one solution for thermoplastic markings. This equipment can apply flat lines, dots and unique combination of lines and dots using only one extruder head.

In the drawing you can see examples of different valve set-ups giving different widths. The total line width can be between 30-50 cm depending on the set-up. The line width starts at 5 cm and can be built up to 50 cm with 5 cm standard shutters.



One set of shutters for making the dots
One set of shutters for making the base line

50 = 50 mm

Examples of
line widths

By using two sets of shutters the base line has time to cure slightly before the Dots are applied. Consequently, the Dots will settle on top of the line with sharp edges, securing the optimum retroreflection.

The diameter of dots can be chosen between $\varnothing 18$ and $\varnothing 45$ mm depending on the chosen drum. The number of dots/meter is 15-35 dots and is controlled by the LineMaster.

The shutters have no contact with the high tensile steel drum and therefore wear is minimized and lifetime is prolonged.

Effective heating of the complete unit using a centrifugal pump, 42 L/min, hydraulically driven.

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.

Continuous circulation of the thermoplastic material inside the equipment. This avoids settling and catching of solid parts and prevents unnecessary wear of mechanical parts.

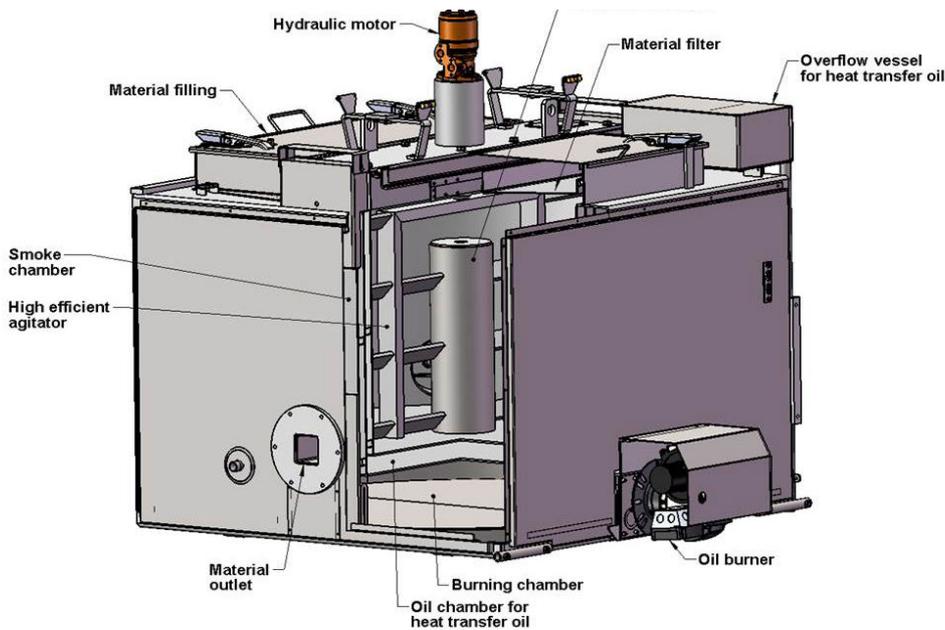
The application speed depends on the type of application and goes up to 6 km/h.

AUGER SCREW PUMP WITH CONTINUOUS RECIRCULATION SYSTEM

The transport of material from tank to Dot'n'Line head is done by a hydraulically driven auger screw pump, which is electronically controlled. The screw pump has a permanent thermoplastic re-circulation system, which ensures a constant flow also past the inactive extrusion shutters, keeping solid parts from settling and keeping the equipment ready for working.

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

NON-PRESSURIZED THERMOPLASTIC



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.

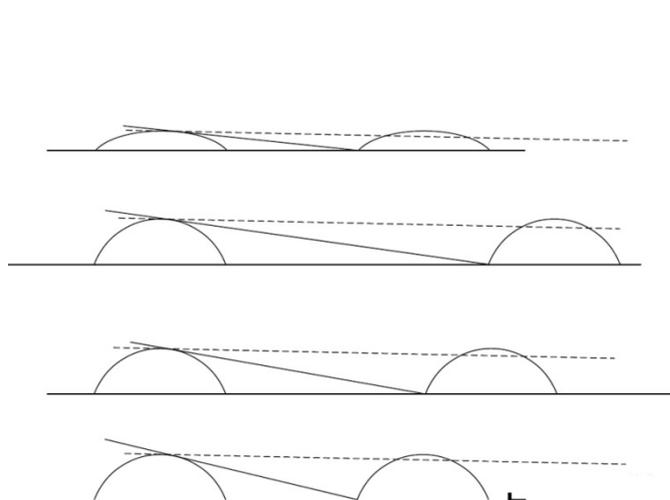
It is possible to store up to 99 different line types, and to arrange these in up to 30 different marking programs. You are also able to pre-set line widths, line types and different combinations to have them ready for marking, and can instantly adjust them on the go.



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 DOT ADVANTAGES

Having numerous dots in a line gives the light a lot of possible areas to fall onto and create a retro-reflective effect. This is essential for having clear visibility, especially while driving during night time.



The drainage effect of the profiled markings ensures that rain water will easily drain away from the lines, thus maintaining high reflective values in rainy weather. This is possible because of the structure that allows the water to drain. Furthermore, the profiled nature of the road marking produces a noise when driven over that will warn the driver against driving off the road.



TYPICAL USES:

Dot'n line is generally used on roads with high traffic and low night visibility as highways and motorways.



LEARN MORE

Find out more in the Borum Knowledge

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



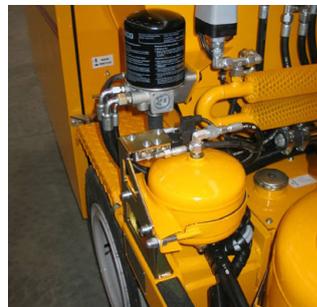
Sunshade with 1 rotating light



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