

Borum City machines are specially developed for road marking in the city, in connection with minor highway jobs and in very hilly or mountainous areas (max driving angle is 46%). BM 2000 has slidable drive and operator section for flexibel working on left and right side.

Data for Borum City BM 2000, basic equipment:

Engine

Water-cooled turbo diesel engine, 4 cyl. 2400 cm³ (146 cu.in), 44 kW/59 hp @2700 rpm.

Compressor

Screw compressor, capacity each 1800 L/min. @ 10 bars (63,5 cfm @ 143 psi). Air safety valve with silencer.

Chassis

Stable double profile frame construction. Engine, compressor and hydraulic pump in one unit mounted on vibration dampers.

Power Steering

Dual torque steering with improved control for directional stability. Direct steering during marking and full servo assistance when manoeuvring the machine
Turning radius 4,25m (167 in)

Pointer

Stabilised against vibrations and adjustable in all directions. Easy handling, telescopic system. Fixed to frame or turning with wheels.

Transmission

Hydrostatic transmission, consisting of piston pump with variable output, controlled from the operator seat. Connected to high torque hydraulic piston motors with integrated full-torque electrohydraulic disc brakes for parking. 0-16 km/h (0-10 miles/h). Manual pump for release when no engine power.
Max driving angle with weight at 3560 kg (7850 lb) 46% (25°)

Hydraulic pump

Triplex pump for 3 hydraulic circuits.

Wheel motor

High-torque hydraulic piston motors with integrated full-torque electrohydraulic disc brakes.

Hydraulic tank

40 Litres (10,6 gal.) tank with level and temperature indicator. Hydraulic oil cooler mounted.

Fuel tank

50 Litres (13,2 gal)

Pressurised bead tank

Bead capacity 115 L (30 gal.)
Pressure max 1.7 bar (24,3 psi)

Operator section

Suspended two seat driver section – quick and easy slideable from left to right without use of any tools. Steering wheel and computer panel mounted on 3D adjustable rod, which ensures perfect ergonomic positioning for the operator.

Gauges

Oil pressure
Water temperature
Fuel level
Manometer for air pressure in glass bead tanks
Working hour counter
Air pressure

Electrical system

12 V/130 Amp alternator. Warning lights, rear lights, front lights, battery and relays.

Borum® LineMaster computer:

Control unit for line marking

The Borum LineMaster allows you efficient control of all road marking tasks, from line application and pre-marking to reporting and invoicing. Speed proportional control of road marking sequence when using pump solution, including material feed, material pattern and thickness.

- An 8" display which is visible in sunshine as well as in the dark
- Easy adjustment of all important parameters during marking
- Transfer of the daily marking report to an office computer via a USB stick
- Optional GPS module, allowing recording of the line marking positions
- Storage of up to 99 different line types – arranged in up to 30 marking programs
- A choice of language as per request
- Incl. foot switch

Engine bonnet

Easy access for service.

Paint

Standard: RAL 1007.
Other colours available on request (Thermoplastic version)

Viscosity

- Agglomerate: Viscosity > 8000cp
- Dots: Viscosity > 8500cp
- Extruder:
 - Viscosity lines > 6500cp
 - Viscosity rib > 8500cp

Application Methods:

Borum City, BM 2000, is developed to work with one of the following application methods. Equipment to be mounted on the machine according to your specific need.

Click on the below link to see the data:

[Thermoplastic Extruder \(T\)](#)

[Thermoplastic spray with pressure tank & Extruder \(SP/T\)](#)

[Thermoplastic Spray with Pressure Tank \(SP\)](#)

[Pressurized Cold Paint - 1 tank \(C\) or alternatively 2 tanks](#)

[Cold Paint - Airless \(CA\)](#)

[Thermoplastic Ribline Box \(RL\)](#)

[2-component cold plastic \(CP\)](#)

[2-component cold plastic, Airless \(CPA\)](#)

Options:

Bead gun system

Please see data sheet on guns
[Guns and bead guns](#)

Hydraulic lifting of pointer

Lifting and lowering of pointer is controlled from operator's seat.

Premark system

Electronically controlled premark system with telescopic foundation and ground distance wheel.

Cone Rack

With seat.

Hydraulic broom or air knife

For sweeping the road prior to marking; mounted just in front of the marking unit.

Cruise Control System

The stable marking velocity ensures a uniform quality of the road marking – layer thickness and constant pattern.

Possibility for two preset memory settings.

By a push on a button the speed is adjustable:

- 1) ± 0.1 km/h (0,063mph)(up and down) in the interval 0-3 km/h (0-1.075 mph)
- 2) ± 0.3 km/h ((0,188 mph)up and down) in the interval 3-6 km/h (1,88 - 3,75 mph)
- 3) ± 0.5 km/h (0,31 mph)(up and down) in the interval 6 km/h (3,75 mph) and up



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- it's straightforward

BM 2000 CP is a Borum City model with equipment for 2-component cold plastic, guns with atomizing air, agglomerate equipment, DOT equipment and Extruder.

Can also be used for application of ordinary cold paint.

2-component applications includes:

- Cold spray plastic 98:2, low pressure / atomising air method
- Structured cold plastic 98:2, agglomerate, DOT application and Ribline.

Paint pressure tank – Stainless steel
440 L (116 gal) pressurised tank. Max working pressure 8,5 bar (123 psi).

Agitator

Agitator driven by hydraulic motor and with manually operated reversing valve.

Hardener tank

36 L (9 gal) pressurised tank, max 8,5 bar (123 psi), stainless steel.

Cleaning system

36 L (9 gal) pressure solvent tank for cleaning of mixer-head, hoses and paint guns. Stainless steel, max 8,5 bar (123 psi).

Paint filter - suction

Filter with cut-off valve for easy maintenance. For paint guns only.

Pump unit

Paint and hardener pumps are operated by one hydraulic motor for securing the right relation between paint and hardener. Capacity up to 50 L/min. (13 gal/min) The hydraulic motor is operated via a control valve governed by the line computer. The control valve automatically regulates the paint consumption according to the speed of the machine.

Retainer for paint guns

Sliding retainer frame, upon which 1 or 2 paint guns and 1 or 2 bead guns are attached. Easy slideable from side to side for an optimal working position. Ground distance is maintained by retainer wheel to ensure a constant road marking width.

Retainer lifting system

Lifting of retainer from operators seat by pneumatic cylinder.

Equipment for different application methods:

Cold spray plastic 98:2, low pressure / atomising air method

Please refer to data sheet on guns [Guns and bead guns](#)

For guns with atomising air the volume of paint applied is adjusted automatically by an electrically operated control valve according to the speed of the machine. This gives a flexible driving speed while securing the same line thickness.

Static mixer is provided. If 2 guns are mounted special manifold is provided with individual cleaning of each gun.

Structured cold plastic 98:2, DOT application

The DOT head is ordered for the specific line width. The DOTs are created by pneumatic pulses, controlled from the LineMaster. The unit is provided with a static mixer.

Structured cold plastic 98:2, agglomerate application

Designed for making lines up to 400mm wide. Each line width has an individual application head. Under the outlet a rotating cylinder with "nails" is mounted. The rotor is hydraulically driven and the speed can be adjusted for getting the wanted pattern. The unit is provided with a static mixer.

Extruder 98:2

The Extruder is ordered for the specific line width. The lines are controlled from the LineMaster. The unit is provided with a static mixer

Bead gun system

Please refer to data sheet on guns [Guns and bead guns](#)

Options:

Sensor for measuring paint consumption

Actual paint consumption can be measured by a sensor mounted in the pump. The Line computer will then automatically show the line thickness.

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