



Concrete Equipment
Solutions and Technology

VB1

Brick, Block and Paver Making Machine

TECHNICAL SPECIFICATION SHEET:

The PMSA® VB1 is a superior medium-capacity brick, block and paver making machine. It is designed to consistently produce high-quality bricks, industrial strength pavers, hollow blocks, decking blocks, retaining wall blocks and garden kerbs. Due to the high productivity, technology and life span of the VB1, it can produce industrial strength high quality products with low production costs for decades.



PRODUCTIVITY

PMSA customers have found the VB1 is capable of exceeding production capacities. The technology used in the VB1 allows for high productivity and dependable output every day.

It is capable of producing 54 000 bricks, 32 000 pavers, 28 800 maxi bricks or 6 000 hollow blocks (140 mm width) per 9-hour shift on a 760 mm x 760 mm wood or composite production board. Depending on configuration and plant options, a plant can be operated with 16 - 20 production and product handling staff.

FEATURES AND BENEFITS

PMSA's VB1 is **Built to Last®** and is the ideal medium-size machine for a brick, block and paver making business.

Features of the VB1 include:

- Heavy-duty channel frame for long-life and machine rigidity.
- 4 hard-chromed guide columns with easily replaceable wear resistant guide bushes for accurate tamper and mould box movement.
- Direct driven twin-shaft oil bath vibrator, including forced air motor cooling, for vertical table vibration, which provides consistent compaction over the full mould area.
- Adjustable vibration frequency/speed control via VSD (Variable Speed Drive) provides optimum compaction for different product types being manufactured.
- Dynamic main vibration braking for reduced cycle times.
- Main vibration is controlled either over time for product density or upon reaching product height.
- Fixed concrete silo and feeder-box assembly that is easily adjustable by hydraulic operation to accommodate different mould heights for quick mould changes.
- Optional tamper vibration for increased product density and smooth top surface.
- Heavy-duty tamper brake assembly to lock tamper movement during mould-lifting.
- Powerful hydraulic system for fast and smooth mould, tamper, feeder-box and production board-feeder operation.
- On the optional PLC controlled VB1, all machine parameters can be changed using a touch-screen interface while the machine is in operation.
- Production board magazine allows for continuous and fast production board feeding.
- Production board size 760 mm x 760 mm with products can be handled manually or with a chain conveyor and gantry system.

OPTIONS AND UPGRADES:

Build your plant with various available options

The VB1 plant configurations starts as an Econopac, which includes a PMSA V300 turbine pan mixer with loader skip (manually loaded by wheelbarrow), water meter assembly, stand and platform with access ladder and a 3-metre roller conveyor for wet product and production board handling.

The VB1 is upgradable with various options for automation, batching, product handling and topping feed.

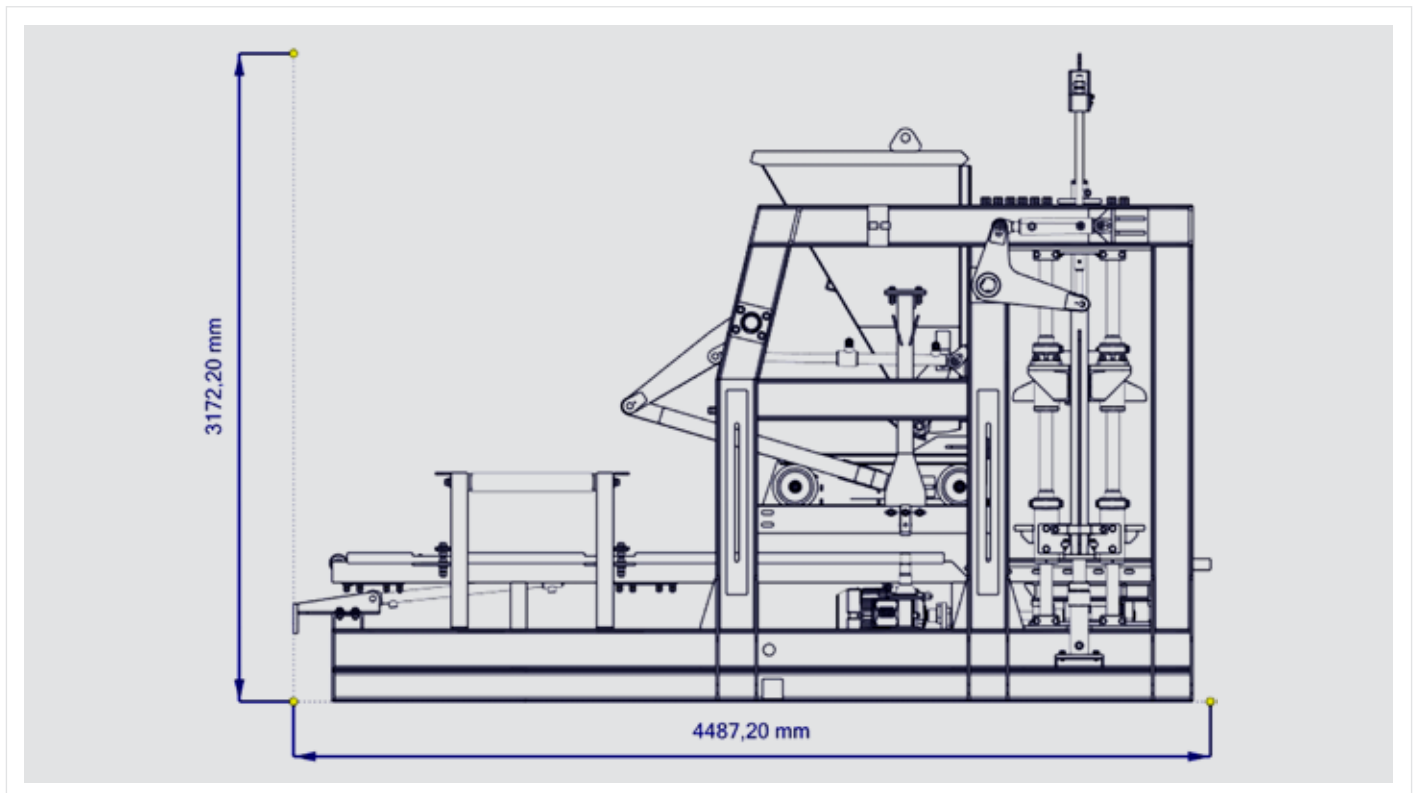
TECHNICAL SPECIFICATIONS:

Machine Specifications:	MODEL VB1
Width	1 600 mm
Height	2 880 mm
Length (without topping/secondary feed)	4 600 mm
Weight (without topping/secondary feed)	3 500 kg (excl. power pack)
Main vibrator	7.5 kW
Tamper vibrator (optional)	2 x 900 W
Hydraulic power pack pump motor	11 kW
Production board size	760 mm x 760 mm
Production board thickness (depending on production board type)	25 mm – 38 mm
Control panel options	Manual or Automatic

PRODUCTION CAPACITY:

We design and produce a full range of standard and customised moulds to suit customer requirements.

No. of products per production board	Approx. production per 9-hour shift (with experienced production staff, V500 pan mixer, dependant on materials, based on 85% production efficiency)
27 standard bricks (210 x 70 x 105 mm)	54 000
18 interlocking or rectangular pavers (200 x 100 x 50/60/80 mm)	32 000
14 maxi bricks (290 x 90 x 140 mm solid)	28 800
6 hollow blocks (390 x 190 x 90 mm)	9 000
4 hollow blocks (390 x 190 x 140 mm)	6 000
3 hollow blocks (390 x 190 x 190 mm)	4 500
5 hollow blocks (450 x 228 x 114 mm - 4 ½" Imperial)	7 500
4 hollow blocks (450 x 228 x 152 mm - 6" Imperial)	6 000
3 hollow blocks (450 x 228 x 228 mm - 9" Imperial)	4 500



Manufactured by PMSA in South Africa. Our professional and experienced technical support team will provide you with the assistance you require. Our comprehensive spare parts facility enables us to provide immediate dispatch globally. E&OE. [Rev_2_2021]

12 Graniet Road, Jet Park, Boksburg, South Africa, 1459 P.O. Box 75090, Garden View, 2047
 Tel: +27 (0)11 578 8700 sales@panmixers.co.za