



Concrete Equipment  
Solutions and Technology

# ULTRA-3000

## TECHNICAL SPECIFICATION SHEET:

The ULTRA-3000 brick, block and paver making machine is an advanced concrete-product, high capacity machine that manufactures bricks, maxi bricks, hollow blocks, paving stones, kerbstones and any product ranging from 35 mm to 500 mm in height. The ULTRA-3000 combines the latest global technologies making it the fastest, most stable and best-quality concrete brick, block and paver making machine on the market.



### CHARACTERISTICS:

- Extreme reliability due to the machine's robust design and stable production.
- Long lifespan as equipment is **Built to Last™**
- Less wear and tear resulting in low maintenance costs.
- Market leading machine supplied by a market leader in brick and block machinery who focuses on continuous improvements and new technologies.
- Pairing with a planetary or counter-current PMSA pan mixer, this combination offers incomparable performance and quality-to-cost ratio.

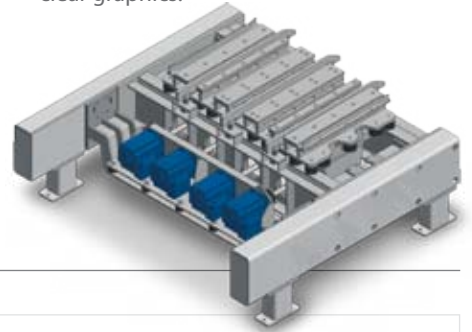
### FEATURES:

- **UltraVibe™ CVS** oil bath sealed vibrators with long-life and low maintenance costs.
- Servo motors used for optimal control and vibration.
- A twin set of vibrators change their position relative to each other resulting in even wear on the vibrators and faster change of position times in stopping and starting of vibration.
- The system has an idle, pre-vibration and main vibration frequency setting, programmable through a touchscreen that gives a visual reference of the vibration forces achieved with the settings selected.
- Hydraulic power pack has the manifold and servo valves off the block machine with aluminium piping and flexible hose sections for vibration damping to the valves.
- Hydraulic fittings have a flexible seal arrangement for improved sealing.
- The power pack is positioned separately to the valve bank.
- The radiator oil cooler is positioned outside the control room area of the machine.
- The feeder-box has sprung feeder-box skirts as well as pneumatic front and rear scrapers each operating independently.
- The feeder-box runs in a machined frame with replaceable upper and lower plates for long-life and ease of maintenance.
- The feeder-box agitator wheels run in the rail frame for reduced wear of the feeder-box.
- The feeder-box is operated hydraulically from a feeder-box arm and cross shaft assembly.
- Pallet feed design allows for the addition of a draw sheet.
- A concrete silo with a single door and tongue arrangement allows for even feeder-box filling.
- A laser sensor controls the concrete filling from the

- silo into the feeder-box.
- The tamper has provision for solid spacers for the manufacture of high products, the spacers are made from a specialised material to reduce wear and tear.
- Tamper rubbers are supported in both lifting and compression from “over travel”.
- The tamper has a free-floating action during compaction, resulting in superior compaction of the concrete with lower vibration force.
- The machine mainframe is made from

- heavy-duty rectangular tubing.
- Machine top, base and vibrating table frames are bolted together enabling the replacement of any individual component.
- Heavy-duty chrome shafts are clamped to the mould guide assemblies, which results in low-wear and long-life of the chrome shafts.
- The tamper brakes are fitted to the machine frame and not the moving tamper.
- The PLC and SCADA systems include fault identification as well as usage and

- component replacement reminders.
- The *Beckhoff* touch screen display features scratch and impact resistant glass with clear graphics.

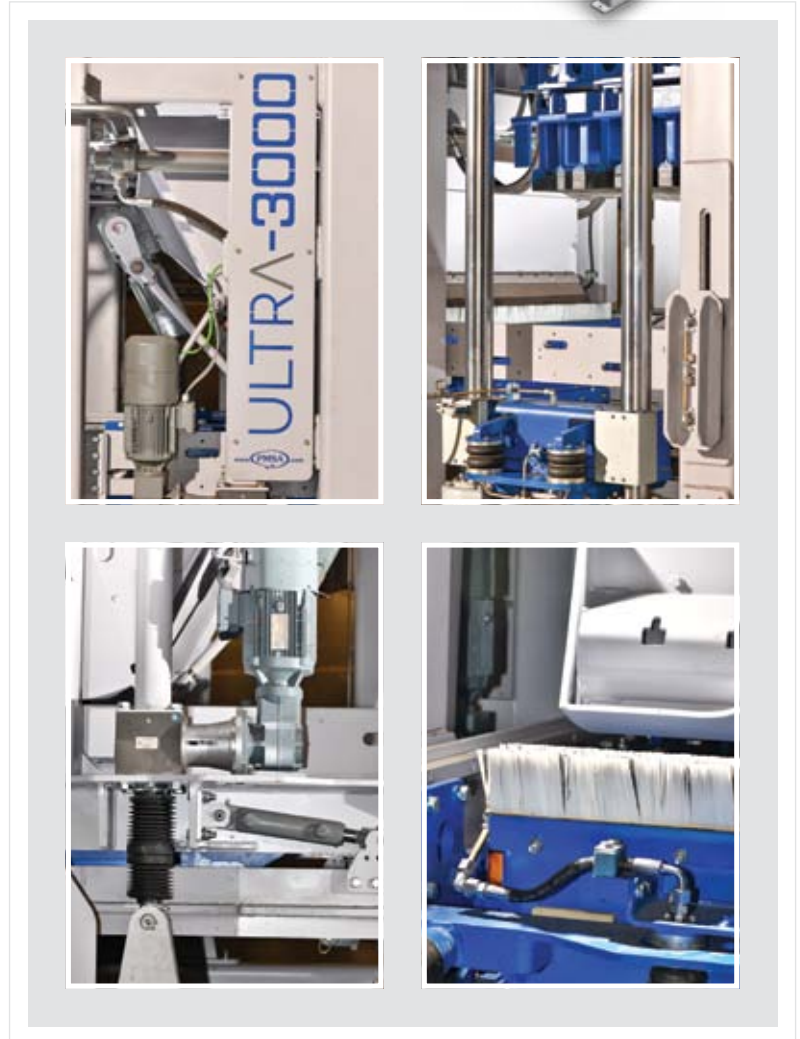


**OPTIONAL ITEMS:**

- Tamper Sensor: Located on each tamper corner which determine the sequence of which part of the tamper reaches the mould first, thus allowing compensation for unequal filling.
- Tungsten Coating: On wear strips and stabilizer bars.

**TECHNICAL DATA:**

Machine Specifications:	ULTRA-3000
Width	3 100 mm
Height	4 600 mm
Length (without topping feed)	5 450 mm
Length (with topping feed)	9 250 mm
Production board size	1400 x 1100 mm
Tamper vibrators	2 x 2.1 kW
Vibration system	UltraVibe™ CVS
Maximum product height	500 mm
Hydraulic pump system	2 x 37 kW with accumulator
Vibrators	4 servo motors
Weight (without topping feed)	29.8 ton
Weight (with topping feed)	36.6 ton



**PRODUCTION CAPACITY:**

(Based on 9 hour shift at 85% production efficiency)

	Interlocking Pavers (no topping feed)	Hollow Blocks	Hollow Blocks	Maxi Bricks	Stock Bricks	Pavers on end	Maxi on end	Bricks on end	Kerbstones 1000x300mm
<b>Number per drop</b>	54	30 (90 mm)	21 (140 mm)	44	78	189	91	144	6
<b>9-Hours production</b>	160 514	62 710	43 897	105 370	186 793	260 253	179 010	283 269	9 180
<b>Seconds</b>	115 s	15.5 s	15.5 s	13.5 s	13.5 s	23.5 s	16.5 s	16.5 s	21 s

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\_2023]

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