



Concrete Equipment
Solutions and Technology

CONCRETE WET-PRESSING MACHINERY

and Filters for Textured Surfaces of Pressed Concrete Products

TECHNICAL SPECIFICATION SHEET:



SUMMARY

PMSA supplies a comprehensive range of concrete wet-pressing machinery and filters for textured surfaces to meet customer requirements for kerbstone, flagstone and drainage channel manufacturing.

By utilising wet-pressing technology, the cost of concrete and labour are substantially less than for a traditional wet-casting manufacturing process. This enables manufacturers to achieve the lowest cost of operation, resulting in increased profit. Our machinery is **Built to Last**[®] for decades, ensuring a low lifetime cost of ownership.

PMSA has partnered with Wil El Mil, leaders in wet-pressed concrete technology. We supply presses with a pressing force of up to 400 tons with the option of single or three-stage rotary table manufacturing process. A full complement of moulds, mould-filling

and product/pallet handling systems are available. Both new and re-manufactured machines are available to customers.

The single stage press can manufacture 600 kerbstones or 1 200 flagstones (depending on size) per 9-hour shift. The three-stage press can manufacture 1 200 kerbstones or 2 400 flagstones (depending on size) per 9-hour shift.

The wet-pressing process involves compressing wet concrete with hydraulic pressure in order to compact and shape the concrete product while removing excess water. Plastic or paper filters on the upper and lower surfaces of the product ensure excess liquid is extracted, resulting in a fully compacted product with an optimal water-to-cement ratio. Fresh products are immediately vacuum lifted and rotated, either hand-pneumatically or fully-automatically stacked on edge, optimising

packing space on the curing pallets for final curing.

Wet-pressed concrete products offer high durability and good surface finishes, making them ideal for use in demanding environments.

WET-PRESSED PRODUCTS INCLUDE:

- Kerbstones: straight, concave, convex, corner and tapered
- Paving slabs: up to 1 m x 0.6 m with a plain, textured or tactile surface
- Drainage channels
- Drainage kerbs
- Drainage slabs
- Path edgings
- Steps
- Blocks for split-stone walling
- Cable trench covers

FEATURES AND BENEFITS

- The high-low-flow hydraulic system makes the machinery energy efficient.
- With a simple mould change a variety of products can be manufactured.
- Through years of experience we are able offer a variety of product designs and technical support.
- The wet-press is heavily engineered for reliability, consistency and longevity.
- Volumetric concrete dosing ensures consistency of product height.
- Smart design allows easy access for cleaning, maintenance and mould changing.
- Programmable drives enable machine optimisation for each specific product, which reduces cycle times.
- Windows-based operator interface allows for ease of use and connectivity.
- Menu-based product selection for fast changeover times.
- Management data, control system monitoring, fault diagnosis and maintenance information available from the operator interface.
- Remote support is available for easy off-site diagnostic assistance to ensure maximum productivity.
- Standard components are readily available, ensuring maximum uptime.

OPTIONS

Our wet-press plants are available with various options including:

Batching plants

PMSA supplies full, custom-designed batching plants suited specifically to client and plant requirements, which may include:

- Weighing and batching of materials.
- Mixing of concrete.
- Transportation of wet concrete to the wet-press.

Curing solutions

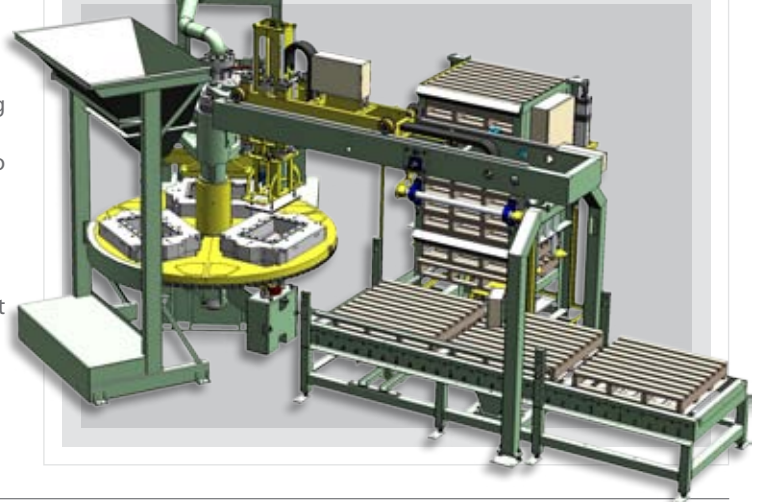
PMSA supplies concrete curing solutions for wet-press production plants. Curing solutions control relative humidity (moisture) and temperature within the curing chambers, creating optimal curing conditions, maximum strength gain, quick turnaround time of products, and minimised cement usage and product surface damage.

Wet-press product and pallet handling

- Forklift transportation of curing pallets to and from curing chambers.
- Fully automated transport system for moving curing pallets to and from curing chambers.
- Hand-mechanical product packing.
- Fully automated product packing.
- Robotic product packing systems.
- Various pallet handling and magazine options to suit client requirements.

Concrete saw

For cutting kerbstones into shorter sections, as required.



Supplied 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]

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