



DOMAT DMA 50 concrete batching and mixing plant

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Plant designed for the dosage and technical mixing of materials in concrete production with direct discharge at height, allowing the implementation of different transport systems for the premixed concept, equipment equipped with DOMAT turbo-type vertical axis mixers with production capacity of up to 52.3~65.4 yd<sup>3</sup>/hour. Domat's DMA series integrates an innovative design that facilitates the discharge of concrete directly to the stationary pump or to a mixing truck, minimizing the investment in civil works required for this type of operation.

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Images for illustrative purposes only.

**AUTOMATIC CONTROL SYSTEM FOR CONCRETE PRODUCTION DOSIMAT D-200**

D-200 developed with an industrial computer on a Windows environment and a Siemens S7-1200 automation interface, responsible for carrying out the dosing and process control processes, meeting the necessary quality standards and effectively carried out:

- Control of entry and inventory of raw materials.
- Control of consumption of materials used for production.
- Automatic dosage control.
- Theoretical/Actual dosage report batch by batch.

The dosing program is configurable according to the plant topology and additional dosing modules can be implemented to manage cementitious additives or aggregates.

**DOMAT SERIES VERTICAL AXIS TURBO MIXER**

DOMAT turbo vertical axis mixer with capacity of up to 1.30 Yd<sup>3</sup> per batch. High efficiency reduction system brand SUMITOMO (Japan) or OMCI (Italy) by vertical axis inferential coupling of the gearmotor with a power of 29,8 Kw.

Access gates for washing and/or inspection. Arms made of rigid, high-resistance steel axles, cushioned to relieve overload, reinforced with anti-wear guards. Sheet floor and wall coverings, mixing paddles and gasket in the gate that are easy to replace.

**Technical and specifications sheet**

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<b>Nominal Data:</b>	DMA 50
<b>Production (Yd<sup>3</sup>/h):</b>	(52,3~65,3)
<b>Mixer capacity (Yd<sup>3</sup>):</b>	(1,30)
<b>Mixer motor power (Hp):</b>	40
<b>Number of hoppers for aggregates:</b>	2
<b>Aggregate hopper capacity (Yd<sup>3</sup>):</b>	5,23
<b>Aggregate weighing scale capacity(Y3):</b>	2,8
<b>Number of conveyor belts:</b>	1
<b>Width of conveyor belts (Inch):</b>	24
<b>Conveyor belt motor power (Hp):</b>	15
<b>Cement scale capacity (Yd<sup>3</sup>):</b>	0,78
<b>Cement conveyor screw diameter (Inch):</b>	8
<b>Long cement conveyor screw (Inch):</b>	314
<b>Cement conveyor screw motor power (Hp):</b>	10
<b>Water scale capacity (gal US):</b>	76,6
<b>Water pipe diameter (Inch):</b>	3
<b>Water pump motor power (Hp):</b>	6
<b>Gate drive:</b>	Pneumatic system
<b>Gate drive:</b>	Pneumatic system
<b>CFM Compressor:</b>	20,41
<b>Aggregate and cement dosing method:</b>	Gravimetric
<b>Water dosing method:</b>	Gravimetric
<b>Control and dosing software:</b>	D-200
<b>Operation cabin:</b>	Yes
<b>Concrete discharge height (Inch):</b>	132,1

Specifications subject to change without prior notice. Photos for illustrative purposes only.

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<b>MANUAL CONTROL SYSTEM</b>	Interface with push buttons to perform all equipment operations manually/locally from the operation panel. aggregate scale and cement hopper indicators1 Flow indicator.
<b>DISTRIBUTION AND ELECTRICAL MANEUVER SYSTEM</b>	IP 55 panel Power and control panel with all the protection and maneuvering elements of SIEMENS brand motors, wiring with metal shell and connectors for connecting motors.
<b>ELECTRICAL POWER REQUIREMENT</b>	The plant requires a three-phase power supply at 220/440 volts with a frequency of 60HZ and an installed capacity of 90 KVA average (different voltages or frequencies upon request).
<b>TRANSPORTATION AND STABILIZATION ON SITE</b>	Equipment is designed to be transported on a three-axle trailer and equipped with structural support for fixing to the floor in the rear and middle part of the chassis.
<b>PAINT AND FINISHES</b>	Abrasion cleaning treatment Anticorrosive protection Final finish with highly flexible polyurethane and high resistance to chemical attacks and physical wear. Polyurethane DOMAT corporate colors: Yellow Chassis, Yellow Hoppers, and gray accessories.
<b>OVERALL DIMENSIONS</b>	Height: 394,2 Inch Width: 104,9 Inch Length: 511,8 Inch Approximate weight: 26455.471 Lb.
<b>CIVIL WORK</b>	DOMAT USA will supply the assembly plans associated with the equipment detailing its specific load measurements for the preparation of the foundation, which will be the responsibility of the client according to the ground conditions.
<b>NOTE</b>	The production of the equipment is calculated for normal concrete of 3,000 PSI, with 705.479 lb. of cement, 50% sand, 50% gravel and settlements of 5" or more, the performance of the equipment will depend on the logistics of each project. guarantees 100% production in adequate working conditions.