

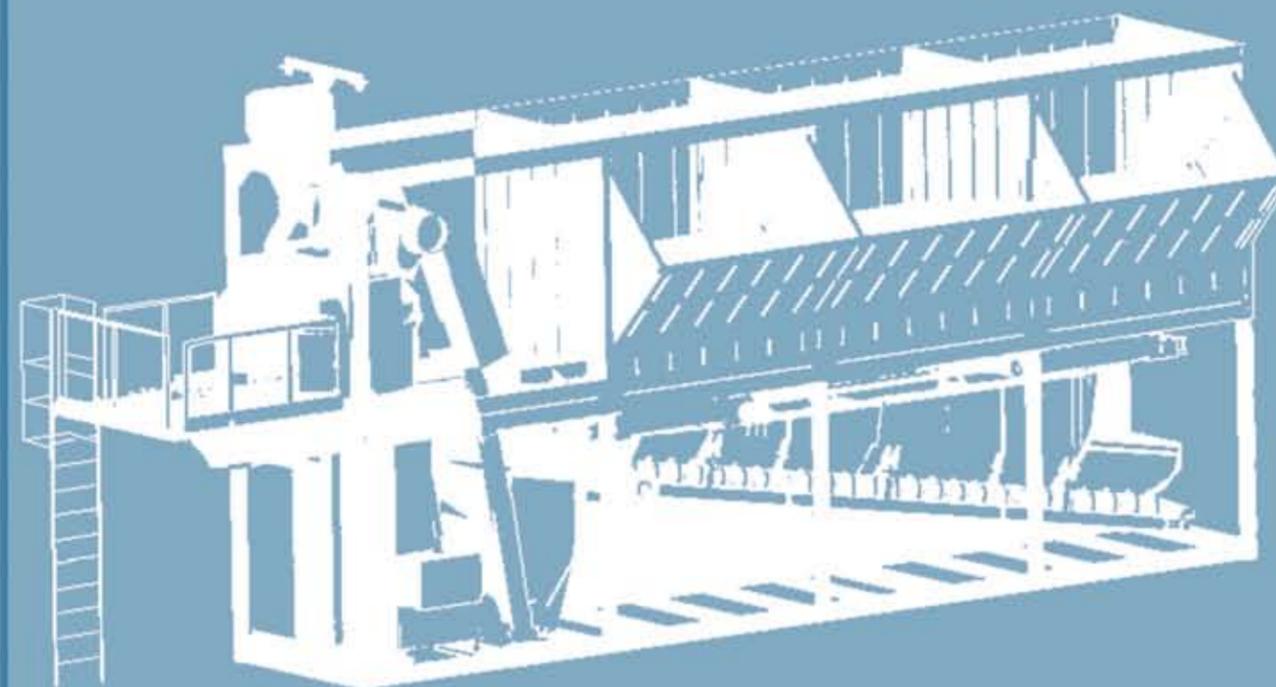
## OPTIONS FOR MCM 3.1.25

OPTIONS	DESCRIPTION	IMAGES
2 ADDITIONAL HOPPERS	2 modules of 20' comprising of 2 other loading hoppers. Includes an extractor belt and a gate (including probes to detect moisture) and aggregate scale with autonomous extractor belt (hanging on the loading cells) able to weigh simultaneously compared to the main module, thus saving a remarkable amount of time. The overall cubage of the 2 hoppers is 40m <sup>3</sup> .	
VIBRATORS	Possibility of installing 4 other vibrators: - 2 on the weighing hoppers (one on the 40' module, one on the 20' one) - 2 on the extractor gate (one on the 40' module, one on the 20' one)	
MOISTURE AND PLASTICITY TESTING SYSTEM	Automatic system of checking and testing aggregate moisture and plasticity composed of: - 3 (5) aggregate moisture detecting probes inserted in the material leaving the storage hoppers - 1 moisture detecting probe inserted directly in the mixing tank - 1 system for collecting data from the probes with readings of the moisture present in the extracted aggregates - 1 power watt meter to check concrete plasticity	
WATER DOSAGE BY WEIGHT	Automatic water dosage by weight including: - stainless steel container 441 Lb (200 kg) capacity - water dosage system with loading cell - automatic discharge using pneumatic valve - calculation electric/electronic apparatus inserted in the general one	
ADDITIVE DOSAGE BY WEIGHT	Automatic dosage system for 1(2) liquid and viscose additives including: - stainless steel container 66 lb (30kg) capacity - additive dosage system with loading cell - calculation electric/electronic apparatus inserted in the general one - 1 (2) additive pumps	
VOLUMETRIC ADDITIVE DOSAGE SYSTEM	- dosage system of 1 (2) liquid or viscose additives with 10 pulse per gallon or litre - calculation electric/electronic apparatus inserted in the general one - the storage tanks are not included however the additive pumps are	
CEMENT SILO	Silo in electro-welded sheet metal reinforced to contain and store cement, capacity 42m <sup>3</sup> , including steel structure, steel pipes for pneumatic loading, anti-explosion safety valve, guillotine valve, flanges for inserting minimum and maximum limit switches, flange for installing silo top filter. Silo accessories: - aeration system composed of nozzles arranged on two levels of the silo cone - dust collector	
SCREW CONVEYOR FOR LOADING CEMENT	6" (153 mm) diameter screw conveyor, about 23" (7000 mm) long to fill the scales, includes the butterfly valve, hose, cement scale connecting boots, motor started and wiring.	
PERSONAL COMPUTER	Latest version personal computer with supervision software COMPUMAT for managing and checking the whole system.	
PALMTOP WI-FI	The possibility to carry out management, quality control and supervision operations using an industrial palmtop Wi-Fi.	
IP CAMERAS	Equipment for checking the system from a distance composed of IP cameras installed on the mixer, aggregates extraction and dosage, with the possibility of seeing on the PC, palmtop Wi-Fi, remote computer and latest mobiles.	



# CONCRETE MOBILE

## TYPE MCM 3.1.25



GRUPPO  MARCANTONINI

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THE MCM 3.1.25 IS AN AUTOMATED CONCRETE BATCHING PLANT FOR PRODUCING HIGH QUALITY MIXED CONCRETE. THE MAIN STRUCTURE OF THIS PLANT IS COMPOSED OF TWO 8 FT X 40 FT CONTAINERS, WHICH MEANS IT CAN EASILY BE TRANSPORTED (BY ROAD, SHIP OR TRAIN) FROM ONE SITE TO ANOTHER AND IS EXTREMELY EASY TO ASSEMBLE. TRANSPORTATION, INSTALLATION AND COMMISSIONING CAN ALL BE CARRIED OUT BY CUSTOMER'S EXISTING CREW WITHOUT THE NEED FOR FOUNDATIONS, PLUMBING OR ELECTRICAL CONNECTIONS. THE PLANT GOES TOGETHER USING PINNED CONNECTIONS WITH NO NEEDS FOR BOLTS AND NUTS THAT WE CALL OUR "ZERO NUTS AND BOLT" DESIGN.

THE TWO CONTAINERS ARE CONNECTED TO EACH OTHER BY FOUR TAPERED PINS POSITIONED AT THE CORNERS OF THE LOWER MODULE, WHICH ARE INSERTED AND CONNECTED TO THE UPPER ONE; PROVIDING STABILITY TO THE ENTIRE STRUCTURE. THE ELECTRICAL AND HYDRAULIC CONNECTIONS ARE CARRIED OUT AND TESTED IN THE FACTORY WITH THE AIM OF GUARANTEEING MAXIMUM RELIABILITY OF THE WHOLE SYSTEM; THE CUSTOMER'S ASSEMBLY CREW ARE THEREFORE REQUIRED ONLY TO CONNECT THE INDUSTRIAL PLUGS (WHICH ARE DIFFERENT FROM EACH OTHER MAKING ANY TYPE OF MISTAKE IMPOSSIBLE) FROM THE MOTORS TO THE CONTROL PANEL WHEN THE SYSTEM IS INSTALLED. FINALLY THE "ZERO NUTS AND BOLTS" DESIGN MEANS THE SYSTEM CAN BE ASSEMBLED AND DISMOUNTED ENTIRELY WITHOUT NEEDING ANY NUTS AND BOLTS.

MANAGING THE PLANT AUTOMATION AND SUPERVISION IS THE MOST TECHNOLOGICALLY ADVANCED PART OF THE SYSTEM AND IT MAKES THE ENTIRE WORKING OF THE STRUCTURE BASIC: THE MIXING TAKES PLACE IN A VERY SHORT TIME AND THE SYSTEM FOR WEIGHING AGGREGATES AND CEMENT (ON REQUEST FOR WATER AND ADDITIVES) IS VERY PRECISE. MOISTURE PROBES IN THE AGGREGATES AND MIXER ARE OPTIONAL WHICH ALLOWS THE QUANTITY OF WATER TO BE MEASURED IN REAL TIME AND SUBSEQUENTLY CORRECTED. A VERTICAL AXIS PLANETARY MIXER IS USED WHICH MEANS THE MCM 3.1.25 CAN REACH A MAXIMUM PRODUCTION CAPACITY OF 52 YD<sup>3</sup>/HR (40 M<sup>3</sup>/HR) OF THE HIGHEST QUALITY CONCRETE. IF NECESSARY ALL OPERATIONS CAN BE CARRIED OUT MANUALLY USING THE CONVENIENT TOUCH SCREEN PANEL. THERE IS ALSO THE POSSIBILITY OF BATCHING AND SUPERVISIONING OPERATIONS AT A DISTANCE USING STATE OF THE ART WI-FI INDUSTRIAL HANDHELD PALMTOP.



### MCM 3.1.25 TECHNICAL DETAILS

TYPE OF MIXER	1.0 MAV / 1 m <sup>3</sup>	1500 MP / 1.3 yd <sup>3</sup>
HOURLY CONCRETE PRODUCTION	40 m <sup>3</sup> / hr	52,31 yd <sup>3</sup> / hr
NUMBER OF AGGREGATES	3: 2 extractor belts - 1 clamshell gate	3: 2 extractor belts - 1 clamshell gate
AGGREGATE STORAGE	60 m <sup>3</sup>	78,47 yd <sup>3</sup>
AGGREGATE EXTRACTOR BELT CAPACITY	50 m <sup>3</sup> / h	65,39 yd <sup>3</sup> / h
AGGREGATE SCALE CAPACITY	6 m <sup>3</sup>	7,84 yd <sup>3</sup> / hr
AGGREGATE WEIGHING SYSTEM	4 load cells	4 load cells
SCALE EXTRACTOR BELT CAPACITY	60 m <sup>3</sup> / h	78,47 yd <sup>3</sup> / hr
CEMENT SCALE CAPACITY	500 Kg.	1101 lb
WATER DOSAGE	Automatic water dosing by water meter 1 pulse/litre	Automatic water dosing by water meter 1 pulse/gal
MANAGEMENT SYSTEM	Compumat / Concremat	
UNLOAD HEIGHT	2,5 m	8' 2"
COMPOSITION	2 Containers 40' High cube	
WEIGHT	30 t	66,138 lb
WORKING DIMENSIONS (WITH EMANKMENT)	14,6 x 2,4 x 6,7	48,8 x 7'8" x 22 feet
SKIP SPEED	15 m/min	49 ft/min
COMPRESSOR	100 litres	22 gallon
TOTAL INSTALLED HORSEPOWER	88 Kw.	119 hp
MAXIMUM REQUIRED HORSE POWER	82 Kw.	110 hp

