MEKA

C 120-B



C 120-B COMPACT CONCRETE BATCHING PLANT

ENGINEERED FOR SPACE SAVING AND HIGH PRODUCTIVITY

100 m³ CAPACITY

BATCHERS ARE HOT DIP **GALVANIZED**

FULL **AUTOMATION**

MORE THAN **100 COUNTRIES**

GREAT **CUSTOMER SATISFACTION**

GENERAL INFO

Plant Type	Compact (Modular Design) Concrete Batching Plant
Plant Capacity	100 m^3/hour compacted concrete
Mixer Capacity	2,25 m^3 compacted concrete
Mixer Type	Meka Twin Shaft Mixer
Voltage/Frequency	400V / 50Hz - Standard value. May vary depending on regional standards
Control	Fully automatic with SIEMENS PLC/SCHNEIDER PLC

MAIN ADVANTAGES

Perfect Solution for Tight Site Areas

Due to the ultra-compact design, C 120-B Batch plant is the best solution to ready-mix concrete production in tight sites.

Ultra Performance and Smart Solution

MEKA C 120-B Compact concrete batching plants are flexible, durable, and give class-leading productivity. The plant is preferred by contractors for ready-mix concrete needs, and ready-mix concrete firms for an efficient, unique, and fast solution.

Suitable for Container Transport

Concerned about Transport costs? Nowhere is too far or too expensive to supply or purchase a proper concrete batching plant, as our C 120-B compact model fits in standard 40' OT containers.

High Aggregate Storage Capacity

C 120-B Compact concrete plant comes with a separate high aggregate storage capacity bins. While offering 4x25 m^3 capacity as a standard much more variants are among the possible options. The aggregate bins have got 2 independently controlled pneumatic discharge gates per compartment and are the same with stationary model plants' bins.

Quick Start Up Time

C 120-B compact concrete plants are designed to minimize work on site during installation and are pre-wired with maximum equipment installed, plumbed and tested at the manufacturing facilities.

The information contained in this document is for general information purposes only. Options and technical details presented in your formal quotation supersede all the information presented in this brochure.
MEKA reserves the right to change the technical information and specifications indicated in this brochure.
Please consult your MEKA representative for the most updated data.



C 120-B COMPACT CONCRETE BATCHING PLANT
TECHNICAL SPECIFICATIONS

1. MAIN CHASSIS

- C 120-B Concrete Batching Plants have cement weight batcher, water weight batcher, additive weight batcher, mixer platforms, stairs, and handrails are fully galvanized.
  This is what makes galvanizing a corrosion protection solution for batchers that is intended to have a long service life that is easily inspected and self-maintaining.
- All mainetenance platforms (mixer unit level and weight batchers level) acesses, stairs, haindrails are engineered in proper dimensions to make maintenance easily and safely.
- The main chassis can be placed on the zero level ground without any extra concrete foundation.
- The main chassis height is suitable with work different type of transmixers.

2. CEMENT WEIGHING HOPPER

Weighing Capacity	1.250kg
Load Cell	3 x 1000kg
Pneumatic Valve	Ø 300mm
Drive	CP 101
Vibrator	1 Unit, MVE 60/3 OLI-WAM (Italy)



3. WATER WEIGHING HOPPER

Weighing Capacity	440kg
Load Cell	2 x 1000kg
Pneumatic Valve	Ø250mm
Drive	CP 101

4. ADDITIVE WEIGHING HOPPER

Capacity	25kg
Load Cell	50 kg
Pneumatic Valve	1 ½”spherical valve with actuator
Other items included	2 units pumps 0,75 kw - 1,5 kw with installations.

5. MEKA TWIN SHAFT MIXER

- The mixing process is carried out by two precise horizontal shafts with special shape paddles installed with an angle of 45 degree to ensure the intensive and compulsory movement of components and best homogeneity within short period of time.





MIXER MAIN SPECIFICATIONS

Application	Ready-mixed Concrete, CVC, RCC (Volume may vary depending on gravel size)
Special Applications	Please, contact us for any non-standard requests
Brand / Type	MEKA / MB-T 2,25 m^3, Twin-Shaft 3375/2250
Loading Dry Capacity	3.375 l / 3,375 m^3
Fresh Concrete Capacity	2.812,5 l / 2,8125 m^3
Compacted Concrete Output	2.250 l / 2,25 m^3
Mixer Body	Welded
Paint	Sand Blasted and Layer Painted (Epoxy Prime Coat + Industrial Paint for Final Layer) Total Paint Thickness 120-200 micron
Motor	Two electric motors 2x37 kW GAMAK (Turkey)
Motor Safety	Adjustable Thermic Overload Protection Relay SIEMENS (Germany)
Gearbox/Transmission	Planetary type / Elastic transmission with synchronization shaft
Mixing Shafts / Arms	Two robust shafts made from forged steel / Arms from cast steel, replaceable
Shaft Alignment	Ultra precision CNC robot machine with strict quality control
Shaft Cleaning Rings	Included as standard between the arms
Main Body Wearing Plates	Ni Hard 4 - 20 mm thickness, replaceable
Mixing Paddle	Ni Hard 4 (Hardness 600 Brinell) - 30 mm thickness, replaceable
Automatic Lubrication	LINCOLN (Germany), SSV-KN Type Sensors, up to 350 Bar, 2lt.
Bearings / Seals	Long-life bearings with labyrinth type unique design steel and plastic seals
Discharge Gate	Hydraulic, rotary with manual pump for emergency discharge
Discharge Control	2 switches with wide range control in automation (time for opening, time for waiting)
Water Distribution	From nozzles over shafts
Emergency Stop Button	Lockable, according to CE regulations
Dust Suppression	By-Pass system connecting the Mixer, Cement Scales and Agg. Holding Hopper (It may vary according model of concrete plants)
Maintenance Cover	With safety switch, wide, dustproof, including inspection hatch with safety grid
Inspection Platform	Wide, non slippery grid, flippable.
Wiring	Completely pre-wired to the IP55 Junction Box on main chassis
Discharge Chute	With replaceable wearing liners
Mixer Weight	7.200 kg

6. AGGREGATE BIN

Type	KTR type
	4x25 m^3 INLINE AGGREGATE BIN
Bin Volume	100 m^3
Aggregate Comp.	4 comp., 25 m^3/comp.,
	The feeding width of 1 compartment of aggregate bin: 3.140 mm
Pneumatic Pistons	8 units (FESTO- GERMANY)
Pneumatic Valves	8 units (FESTO- GERMANY) . All valves are collected in a dust proof special box.
Galvanised Units	Discharge gates, aggregate weighing chute and aggregate weighing conveyor are hot deep galvanised (Robust structure, high weighing accuracy and long service life)
Air Preparation Unit	1 unit
Sand Vibrator	4 units, MVE300/3 OLI-WAM (Italy)
Side Panels	Heavy duty designed special patterned panels.

Other Features

- Discharge chutes are bolted type . They can be easily replaced independently when they are worn out.
- Including integrated steel legs (The aggregate can be installed on zerol level ground) (No need to make special concrete foundation
- Adjustable saddle system to adjust the flowability of aggregare to aggregate weighing conveyor.
- Easy and quick installation time with foldable side panels
- MEKA aggregate bins are designed and manufactured for heavy duty operation in accordance with related DIN norms.
- The electro-pneumatically controlled valves provide easiness and options in discharge. They also create an elevation that decreases ramp building costs and operation costs by helping the materials to slide and reduce friction and wear.







7. AGGREGATE WEIGHING CONVEYOR

Dimensions	800 x 11.400 mm
Load Cell	4 x 5.000kg
Rubber Belt	EP 125 4 layers 4/2 mm
Bearings	SNH series bearings with lubrication greasers
Drums	Drive drum covered with 10mm rubber
Weighing Precision	(+/-) % 2,5
Weighing Hopper Vibrators	1 unit, MVE200/3 OLI-WAM (Italy)
Motor - Gearbox	15 kw direct accuplated
Safety Guardings	According to CE standards.
Safety Switch for Belt	1 unit
Emergency Stop Button	1 unit
Other Advantages	Heavy duty design type aggregate weighing conveyor



8. AIR COMPRESSOR AND PNEUMATIC EQUIPMENT

COMPRESSOR

Brand	Atlas Copco
Model	AC100E500
Compressor Type	Piston
Capacity/Operating Pressure	774 l/min / 10 Bar
Motor Power	7,5 kw
Receiver Capacity	500 lt

- ATLAS COPCO has been manufacturing compressors since 1873.
- Cast iron cylinders with low-speed pistons have historically been recognised for their durability
- AC series oil lubricated compressors have a slow running compressor block for long service life.
- Pressure switch, safety valve and power socket with ‘Off’ and ‘Auto-operation’ buttons for single-phase models.
- Worldwide after-sales network in over 100 countries.

PNEUMATIC EQUIPMENT

Brand:	**FESTO (Germany)**
Pneumatic Pistons	Self-adjusting, hygienic and safe. Pneumatic self-tuning PPS damping, “saving up to 5 minutes of time to tune each cylinder.”
Pneumatic Actuators:	Part-turn actuators with 90 ° coupling angle Butt surface for NAMUR distributors / sensor blocks according to VDI / VDE 3845 Receiver tanks are located at the inlet of the main air consumers and ensure uninterrupted operation in normal cycle and in emergency mode.
Pneumatic Valves	Electro and pneumatic control
Air Preparation Units	FRC, dry or with oil spray
Pressure indicators	Pressure gauge with bar scale, psi, MPa
Degree of filtration	40 microns
Filter regulators	LFR - Reliable compressed air preparation for all conditions.

9. AUTOMATION

Basic Automation System

The plant is fully automated and the system is controlled on an 7’’ coloured touch-screen with integrated mouse and keyboard connection points.

- The system is equipped with Siemens/Schneider electrical installation devices and sensors.
- PLC is Siemens or Schneider.
- Advanced PLC programs and error control algorithms enable high sensitivity in weighing and dosage control even at maximum capacity.
- The MCC and command panel is built for all working conditions and equipped with electrical protection systems
- The operator is able to set up all parameters, enter receipts and perform calibration operations on the touch screen.
- All process, production and failure information are also visible and may be printed by the operator.
- The operator may chose between automatic or manual operations on the computer screen.
- The system provides real-time simulation for the operator. This ensures fast and safe training with no lot material.

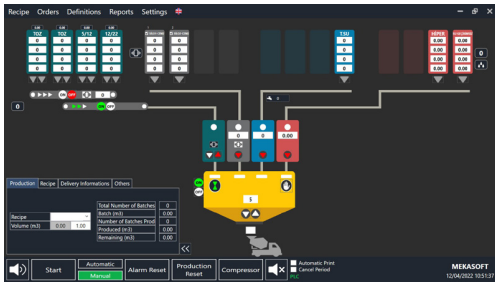
Computerized Command And Control System (SCADA)

- The system which comprises a PC, printer, UPS and SCADA software enables the operator to perform all command and control functions, take reports, detect failures, etc on the PC screen with animation support.
- The operator is able to enter as thousands of recipes as desired, enter all customer and truck information into the system where production information is stored for decades.
- You can design your own waybill.
- You can find many different reports.

There are many tooltips for using the program you can track and control your orders.

- It takes less than 1 minute to install the program on another computer.
- You can export all reports to excel or pdf.
- Remote servicing and maintenance is possible via internet.







10. MIXER FEEDING (AGGREGATE) BELT CONVEYOR

800 x 16.000mm CHEVRON BELT

Dimensions	800 x 16.000mm
Belt Type	Chevron Belt
Belt Quality	EP 125 4 layers 4/2 mm
Bearings	SNH series bearings with lubrication greasers
Drums	Drive drum covered with 10 mm rubber
Motor- Gearbox	30kw motor+ gearbox
Upper Covering	Included (U type rain cover)
Back stop Lock	Included
Belt Cleaner	Brush type with external independent motor and gearbox
Rollers	Non maintenance type

Material Collecting Tray is included to collect materials coming down from cleaning brush.







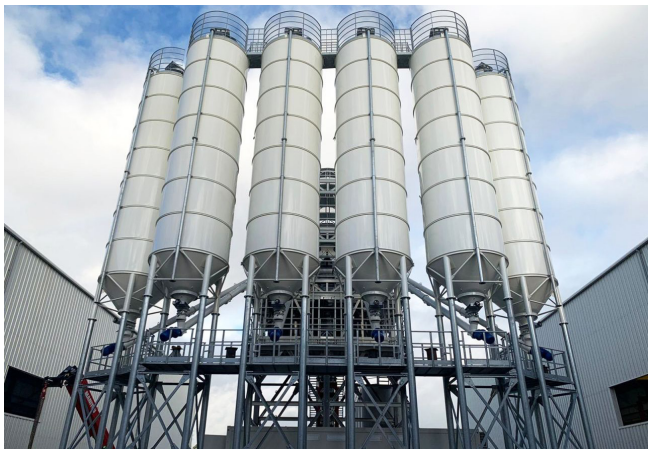


11. CEMENT SILOS

MEKA CEMENT SILOS

Model	Capacity	Filling Pipe
100 Ton Welded	100 Ton	4”
100 Ton Bolted	100 Ton	4”
150 Ton Bolted	150 Ton	4”
75 Ton Bolted	75 Ton	4”
75 Ton Welded	75 Ton	4”

- Cement silos can be placed on the zero level ground wit its suitable supporting legs.
- Climbing ladder up to the top of the silo with every 6 meters intermediate resting platform compatible with CE regulations.
- Manhole and silo top guardrail.
- Intermediate access platforms between cement silos.
- Easy and economical transpor possibilty for bolted type cement silos (2 Units 100 ton bolted type cement silo can be fit into 1 unir 40’ OT (Open Top) container.
- Easy and quick installation opportunity for welded type cement silos.



WELDED / 75 - 100 TON



BOLTED / 75 - 100 - 150 TON



WELDED / 75 - 100 TON

12. SILO EQUIPMENT (WAM)

Pressure Release Valve	1 Unit
Level Indicator	ILTC220 (Max level)
Fluidisaton Nozzle	6 units per silo, U025
Mechanical Valve and Lever	V2FS300S + CM4
Other Items Included	Filter regulator, ½" Solenoid valve, 220v Pneumatic pipe installation



13. SILO TOP ZERO FILTER (WAM)



Filter	24 m² JetPulse
Dimensions	d=800mm, 1 mm AISI304 material
Filter Surface Area	24,5 m²
Number of Filter Cartridges	7 Units
Air Filtration Flow	2200 - 2500 Nm^3/h
Control	Electrical
Cleaning System	JetPulse, pressurized air
	High filtration efficiency due to POLYPLEAT filtering elements
	Tool-free filtering element removal
	Low dust emission level due to B.I.A.-certified filter media
	Filtering element replacement within a few minutes by one person

14. CEMENT SCREW CONVEYOR (WAM)

	Dimensions	Brand	Motor Power
Ground Concrete Level	Ø 273x15.000 mm	WAM	18,5 kw

Other Features	Splined connecting sleeves
	Lifting eyes on each section of the screw
	Screw helicod welded to the central shaft
	End supports complete with self-adjusting shaft seals
	Maintenance-free intermediate cast supports aluminum housing with self-lubricating sliding clutches.
	Sectional design, compact overall dimensions
	Outer pipe complete with welded flanges, one inlet and one outlet pipe, inspection hatches under the first inlet pipe and under each intermediate support.





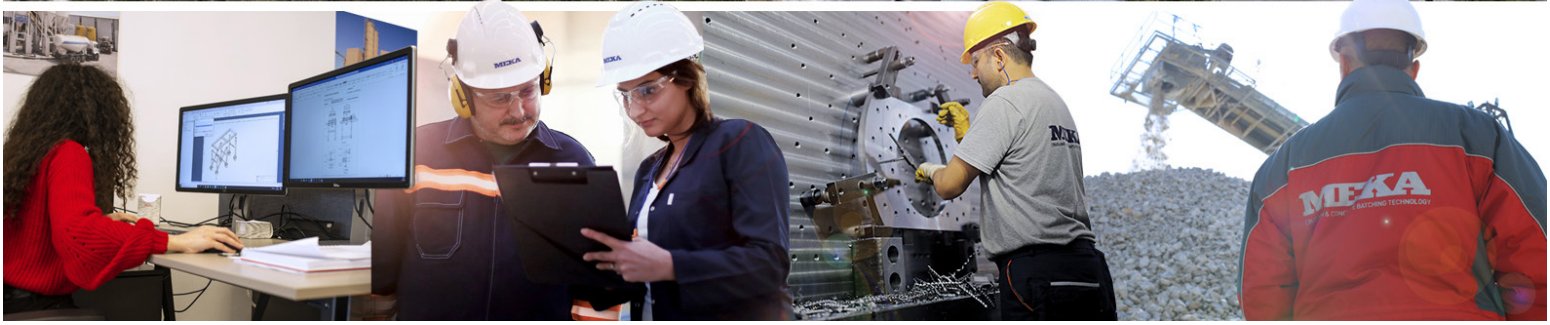
More than 110 Countries.
More than 4500 Plants.

MEKA Global has been a leading manufacturer of concrete batching plants, equipment, and crushing-screening-wet processing solutions.

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Engineered for Excellence. Trusted Worldwide.

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With decades of proven expertise, MEKA has forged enduring partnerships with ready-mix concrete producers, mining and aggregate companies, global industry leaders, and most of the top contractors recognized by ENR.















CONCRETE BATCHING PLANTS AND SOLUTIONS

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FOR READY-MIX CONCRETE, CONSTRUCTION, AND PRECAST INDUSTRIES

Concrete Batching Plants are used for manufacturing of high-quality concrete for a variety of construction applications, such as buildings, roads, bridges and airports. MEKA offers a wide range of Ready-Mix Concrete Batching Plants and MEKA concrete mixers. Mobile, Compact and Stationary Concrete batching plants can be configured as special solutions for different kinds of concrete, including Roller Compacted Concrete, Road Concrete, Extra Heavy Concrete, Fiber-Reinforced Concrete, etc., according to the customers' specific requirements.

Our Single Shaft, Twin Shaft and Planetary Concrete Mixers cover a wide range of needs and add flexibility to the manufacturing process. MEKA also offers different components and options for the concrete sector that increase performance, add flexibility, improve accountability and enhance operational characteristics.

MEKA CONCRETE BATCHING SOLUTIONS

> Stationary Concrete Batching Plants
> Mobile Concrete Batching Plants
> Compact Concrete Batching Plants
> Job-Site Concrete Batching Plants
> RCC Batching Plants (RCC, Precast e
> RCC Batching Plants
> Precast Batching Plants
> Concrete Mixers
> Fiber Dosing Systems
> Plant Automation
> Technical Services and Spare Parts
> Concrete Batching Engineering Solutions
> Other Solutions












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