

S 30 ON-SITE TYPE CONCRETE BATCHING PLANT

ECONOMIC AND RAPID S30 SIMPLY CLEVER CHOICE FOR CHANGING WORK SITES AND SHORT-TERM PROJECTS

30 m³
CAPACITY

HIGH
MOBILITY

FULL
AUTOMATION

MORE THAN
100
COUNTRIES

SHORT
INSTALLATION
TIME
2-3 Hours

GENERAL INFO

Plant Type	Mobile Job Site Type Concrete Batching Plant
Plant Capacity	30 m^3/hour compacted concrete
Mixer Capacity	0,5 m^3 compacted concrete
Mixer Type	MEKA Pan type mixer
Voltage/Frequency	400V / 50Hz - Standard value. May vary depending on regional standards
Control Panel	SIEMENS (Germany) or SCHNEIDER (France)

WE ARE MEKA. WE CREATE RIGHT SOLUTIONS TO AGGREGATE PRODUCTION, READY-MIX CONCRETE AND MINING INDUSTRIES.

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MAIN ADVANTAGES

Easy Transportation	The complete plant including concrete transfer conveyor can be delivered with only 1 unit 40 ‘ Open Top (OT) Container or only 1 unit standard truck.
Quick Start Up Time	The plant can be started up within only 2-3 hours.
Super Mobility	It can be towed with an integrated hook very easily inside the Jobsite area or between different job site areas.
Zero Foundation	There is no need for a special concrete foundation. The simple flat concrete ground is enough.
Small Installation Area Requirement	The plants need a very small installation area. No need for permission for the installation.
Flexibility in Producing Concrete	4 different aggregates can be used in concrete production.
High-Quality Concrete Production	With PLC system and a very precise weighing system designed for all materials (aggregate, cement, water, additive) that can be weighed in separate weighing batches, it is very easy to produce high-quality concrete.
Low Operational and Maintenance Cost	With its simple structure, it is very easy and economical to operate and make maintenance of it.

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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.



S 30 ON-SITE TYPE CONCRETE BATCHING PLANT
TECHNICAL SPECIFICATIONS

1. MAIN CHASSIS

- Supporting legs, mobile chassis frame, safety guarding fences.
- The surface of the metalwork is sandblasted, primed, and coated with finishing paint
- The design of the mixing unit, creating a convenient height for work, is made of high-quality sheet steel in accordance with DIN/ISO norms.
- Weighing hoppers of cement, water, and additives are located on 1 mobile chassis.
- Fixing constructions of pipelines, electric cable channels.

2. CEMENT WEIGHING HOPPER

Hopper Design	Cone type, Sheet Metal, Dustproof and Waterproof
Paint	Anticorrosion Primer Coat , Final Coat
Weighing Capacity	0 - 300kg
Loadcell	3 x 200kg, with hinged suspension
Dust Suppression	By-Pass system connecting to Mixer
Discharge pneumatic valve	Equipped with Ø200 mm valve WAM (Italy)
Valve Actuator	CP 101 WAM (Italy)
Vibrator	1 Unit MVE 100/3 OLI-WAM (Italy)



3. WATER WEIGHING HOPPER

Hopper Design	Rectangular type, Sheet Metal, Dustproof
Paint	Anticorrosion Primer Coat, Final Coat
Weighing Capacity	0 - 160kg
Loadcell	2 x 200kg, with hinged suspension
Discharge pneumatic valve	Ø150mm WAM (Italy)
Valve Actuator	CP 101 WAM (Italy)





4. ADDITIVE WEIGHING HOPPER

Hopper Design	Cone type, Sheet Metal, Dustproof and Waterproof
Paint	Anticorrosion Primer Coat, Final Coat
Weighing Capacity	0 -15kg
Loadcell	1 x 50kg, with hinged suspension.
Discharge pneumatic valve	1” spherical valve with actuator.
Additive Pump	1 pump 0.37kW
Other Features	A weighted portion of the additive is discharged into the water weighing hopper and then through a distributor are charged into the mixture together with water.

5. MEKA PAN TYPE MIXER

- The mixing process is carried out by scrapers of a unique shape, located on levers mounted at a certain angle, providing intensive and forced mixing of components in a short period of time with the best uniformity of the finished mixture.



MIXER MAIN SPECIFICATIONS

Brand / Type	MEKA / MB-Pan 0,5 m^3, Pan Mixer 750/500
Loading Dry Capacity	750 l /0,75 m^3
Fresh Concrete Capacity	625 l / 0,625 m^3
Compacted Conc. Output	500 l / 0,5 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/Gearbox	18.5 kW motor with gearbox
Motor Safety	Adjustable Thermic Overload Protection Relay SIEMENS (Germany)
Mixing Arms Design	Robust arms made from 1040 steel, replaceable
Side Scrapper	2 Units (1 unit inner + 1 unit outer)
Mixing Paddles	4 Units
Shaft/Arm Alignment	Ultra precision CNC robot machine with strict quality control
Side Body Wearing Plates	ST52 - 10mm thickness, replaceble
Bottom Wearing Plates	HARDOX 450 - 10 mm thickness, replaceable
Paddles and Side Scrapper	Ni Hard 4 (Hardness 600 Brinell) - 20 mm thickness, replaceable
Automatic Lubrication	Distribution of lubricant from the oil sump by gears
Discharge Gate	Hydraulic (1,5kW), rotary with manual control for emergency discharge
Discharge Control	2 switches with wide range control in automation (time for opening, time for waiting)
Water Distribution	From nozzles over shaft, discharge by gravity
Emergency Stop Button	Lockable, according to CE regulations
Dust Suppression	By-Pass system connecting the Mixer, Cement Scales
Maintenance Cover	With safety switch, wide, dustproof, including inspection hatch with safety grid
Wiring	Completely pre-wired to the IP55 Junction Box on main chassis

6. AGGREGATE BIN

Bin Layout Design:	Cross Type
Bin Volume:	10m^3
Compartments:	Cross 4 by 2,5m^3
Discharge Gate:	1 gate per compartment
Pneumatic Pistons:	4 units, FESTO (Germany) - with electro-pneumatic control
Air Preparation Unit:	1 unit, FESTO (Germany)
Sand Vibrator:	2 units, MVE 200/3 OLI-WAM (Italy)
Bin Structural Design:	Heavy duty designed special patterned panels with wedge joints.
Paint:	Anticorrosion Primer Coat, Final Coat
Other Features	MEKA aggregate bins are designed and manufactured for heavy-duty operation in accordance with related DIN/ISO 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 slide and reduce friction and wear.





7. WEIGHING BELT CONVEYOR

Dimensions	650 x 3.634 mm, Flat Type Belt
Weghing Conveyor Design	Welded Frame, DIN norms, 3 units roller station
Paint	Anticorrosion Primer Coat , Final Coat
Loadcells	4 x 2000kg, with hinged suspension
Rubber Belt	EP 125 3 layers; 4/2 coating
Bearings	SNH series bearings with lubrication greasers
Drums	Drive drum covered with 10mm rubber
Weighing Hopper Vibrator	1 unit, MVE200/3 OLI-WAM (Italy)
Motor - Gearbox	4 kW, Direct accuplated
Belt Cleaning	Inner side: V - shaped cleaner with sinkers discharge side: rubber bar type scrapper
Other Features	Belt tensioning Aggregate distributors Side leak belt 150x10mm Hinged Maintenance Gate for easy maintenance.

8. AIR COMPRESSOR AND PNEUMATIC EQUIPMENT

COMPRESSOR

Brand	DALGAKIRAN (HERTZ)
Model	DKC 300
Compressor Type	Piston
Air preparation unit	Piston, Air Cooled
Capasity	607 lt/min
Working Pressure	8 Bar / 115 PSI
Motor	4 kW 750 rpm IP55 IE 2 - WAT
Standart	CE
Receiver Capacity	100 l / Steel - P265GH (CE)
Safety Systems	Pressure switch, check valve
	Belt pulley protection
	Pressure relief valve



- DALGAKIRAN (HERTZ) has been manufacturing compressors since 1965.
- Cast-iron crankcase, pistons operated at low-speed, corrosion and heat-resistant stainless steel valves and cylinders.
- Cast-iron cylinders and bare pumps with cooling fins help the system prevent overheat.
- 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
Pneumatic hoses	Hoses for a wide range of working conditions, including versions for food flame resistant industries, free of particles that degrade color or resistant to various environments.
Pneumatic fittings	Linear connection (fitting) and elements of connection with a collet (T-, X- and Y) or nipple. A connector with one connection and with more than two outputs.
Position sensors	Specially adapted and optimized for Festo drives.

9. CONTROL PANEL AND POWER CABINET

- The automation system works with a touchpad PC.
- Commands and monitoring functions are carried out using The SIEMENS/SCHNEIDER PLC system.
- By using this high-level program and error control algorithms plant achieves high performance and accurate weighing.
- The control panel and MCC are designed to work in hard conditions and are equipped with all types of electrical safety.,
- The operator using the screen on the panel can change any parameters, enter recipes, monitor the process, production, carry out calibration work, and receive notifications of breakdowns.
- On the touchscreen, you can work both automatically and manually, and visualize voltage and current data.
- For quick operator training, there is a virtual production practice in real-time.

CONTROL PANEL

PLC:	SIEMENS or SCHNEIDER
Touchscreen	10” Touchmatic Windows 11 PC and 2” Thermal Printer
Design	Rugged and compact design with high IP65 / NEMA protection
Memory Microcard	MMC 8 MB
Main Memory	2 MB
Processing Speed	0.004 µs - 0.025 µs
Operational Program	STEP 7 Professional
Quality Standards	ISO 9001 - GOST-R
Connectivity Features	Up to 65.536 digital and 4.096 analog channels.

POWER CABINET

Components	**SIEMENS (Germany) / SCHNEIDER (France)**
Design	Metal board with a double door
Paint	Electrostatic powder
External Devices	Emergency Stop Button
	Indicators of indicators of the electric motor (s) of the mixer
	Cabinet Door Lock
	On/Off Buttons for accesories
	General circuit breaker
Internal Devices	PLC (SIEMENS/ SCHNEIDER)
	Transformer and power supply
	Relays, contactors and fuses (marked)
	Lighting and ventilation
	Labeled cables



CLICK FOR WATCH
MB-S 30 AUTOMATION SYSTEM

10. CEMENT EQUIPMENT

CEMENT BAG FEEDING HOPPER

Structural Design	Cone, bolted type
Paint	Anticorrosion Primer Coat , Final Coat
Cement Bag Tearing	Mechanical cutters on top of hopper
Vibrator	1 unit MVE 200/3 OLI-WAM (Italy)
Hopper Volume	1.5 ton
Other features	Ladder and platform Handrails and racks (supporting structure). Connectors and mounting points for cement screw equipment

SCREW CONVEYOR

Type	Universal Input Type ES (WAM)
Paint	Powder Paint
Dimensions	Ø193 x 5.000 mm
Motor Power	5.5 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. Outer pipe complete with welded flanges, one inlet and one outlet pipe, inspection hatches under the first inlet pipe and under each intermediate support.

CLICK FOR WATCH
MB-S 30 VIDEO ON YOUTUBE



11. CONCRETE TRANSFER CONVEYOR

CONVEYOR BELT

Dimensions	650 x 14.500mm Flat type
Paint	Anticorrosion Primer, Finishing Coating
Conveyor Design	Welded Frame, DIN norms
	3 units roller station
Bearings	SNH series bearings with lubrication greasers
Drums	Drive drum covered with 10mm rubber
Rubber Belt	EP 125 3 layers; 4/2 coating
Motor-Gearbox	11 kW, Direct accuplated
Return Lock	On Motor
Belt Cleaning	inner side: V - shaped cleaner with sinkers. discharge side: flat bar cleaner
Discharge Height	4105mm
Other Features	Belt tensioning





12. WATER EQUIPMENT

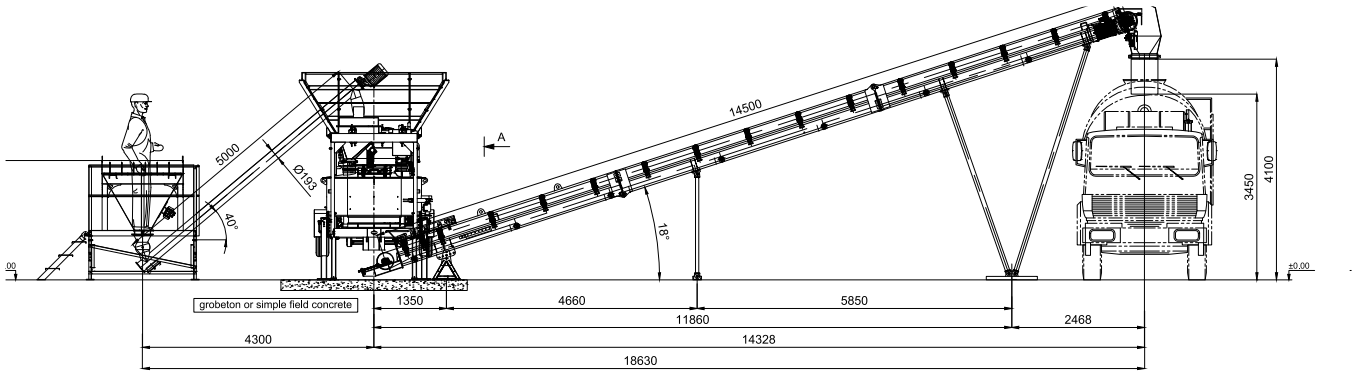
WATER PUMP

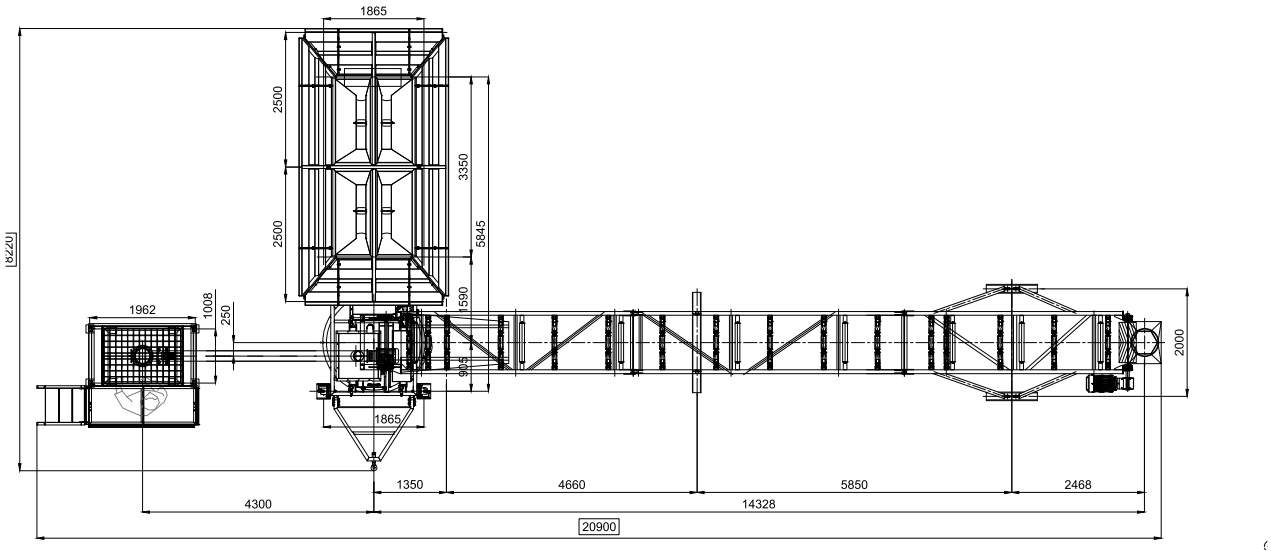
Capacity:	20m^3/hour
Motor:	3 kW

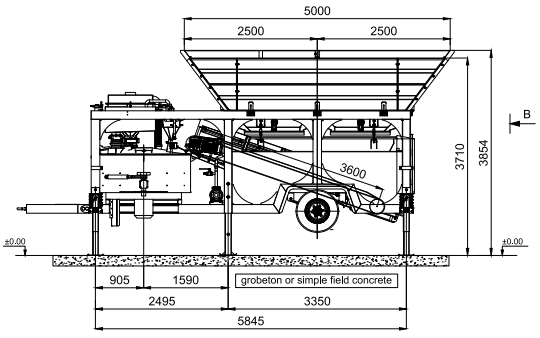
SUITABLE FOR TRANSPORT
BY CONTAINER

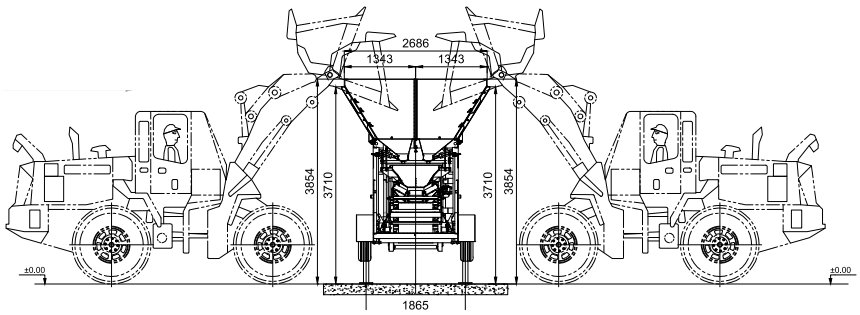


13. S 30 CONCRETE PLANT SETTLEMENT PLAN









14. CEMENT SILO (OPTIONAL)

50 TON TELESKOPIC SILO

Type	50 Ton Telescopic
Capacty	50 Ton
Filling Pipe	4”

- Cement silo supporting legs to place cement silos on the zero level ground.
- Cement silo ladder with intermediate rest platform in every 6 meters complying with CE regulations.
- Manhole gate, top railing.
- Intermediate access platform between cement silos which are placed as inline .



TELESCOPIC CEMENT SILO / 50 TON



TELESCOPIC CEMENT SILO / 50 TON



TELESCOPIC CEMENT SILO / 50 TON



TELESCOPIC CEMENT SILO / 50 TON

15. SILO EQUIPMENT (WAM) (OPTIONAL)

Pressure Release Valve	1 Unit
Level Indicators	ILTC220 (Up and bottom)
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



16. SILO TOP ZERO FILTER (WAM)



Dimensions	d= 800mm, 1 mm AISI 430
Number of Flter Cartridges	4 Units
Air Filtration Flow	1400-1700 Nm^3/h
Control	Electrical
Cleaning System	JetPulse, pressurized air
	High filtration efficiency due to POLYPLEAT filtering elements
	Tool-free filtering element removal
	High Efficiency Blowing Pipes With Elliptical Nozzles
	Filtering element replacement within a few minutes by one person

17. CEMENT SCREW CONVEYOR (WAM) (OPTIONAL)

	Dimensions	Brand	Motor Power
Concrete Foundation	Ø 193x5000 mm	WAM	5,5 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.





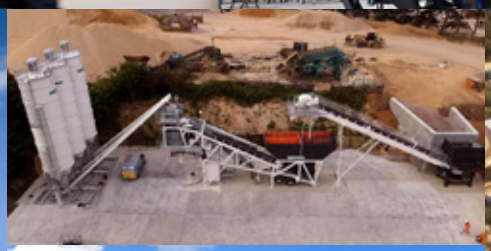
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