



2022

CONCRETE BATCHING & PROCESSING



CONCRETE BATCHING & PROCESSING RANGE

IMMA has various solutions for concrete processing in a wide range of product for many activities from batching plant till transmixer semi-trailer.

- * Concrete Batching Plants
- * Concrete Pump – Trailer Mounted
- * Concrete Pump – Truck Mounted
- * Concrete Distribution Unit - “Rig on the Roof”
- * Concrete Distribution Unit - “Spider”
- * Concrete Distribution Unit - “Boom Trailer”
- * Concrete Mixer - Transfer Truck
- * Concrete Mixer - Transfer Semi-trailer
- * Cement Silo Semi-trailer
- * Cement Maker & Concrete Mixer Trailer

CONCRETE BATCHING

IMMA's strengthen and accurate concrete batching plants are preferred for ready mixed concrete production and long term concrete production in all types of construction sites. HBS's work at -35°C or +50°C environment temperature with auxiliary & optional items. Universal / easy access spare parts, skilled after sales team and reputable suppliers makes it solid and sustainable. Provided as STATIONARY & MOBILE Plants in accordance with CE standards with the capacity between 30 m³/h and 120 m³/h

Single toggle jaw crushers featured by a hydraulic toggle adjusting mechanisms:

- * **Aggregate storage hoppers** are manufactured as 3,4,5 or 6 compartments as requested. Storage capacity of hoppers are between 45 m³ and 360 m³. Structural and static analysis are done for hopper legs and hopper body. In case of request, it is possible to cover the hopper with heat isolated sheet metals, to adapt a grill and heating system by serpentine system. Aggregate weighing is done by 8 units of load-cells
- * **The mixers** can be installed as pan, singleshaft, twinshaft or planet type. Whole range is interlined by abrasive-free and SJ355/T-52 for a long-lived and strong structure. Easy maintenance, reliable spare part, user-friendly mechanical design obtains a trouble-free plant processing.
- * **Conveyors** and conveying systems are made by IMMA's wide experience on crushing and screening abilities to submit the best in the class conveying and weighting/dosing operations. so that approves the most appropriate working angle and dimensions. 4 layered cord belt rubbers with high strength against abrasion, electric motors with suitable power and gearboxes are standardized supplies.
- * **Weighing** of cement, water and additives are done by load-cells, connected to a PC/PLC for precise recipes. Material discharging also done by remote controlled butterfly valves.
- * **Cement silos** are offered as bolted, to obtain lowered transporting cost for startup, dismantle and re-assemble. Delivered as all-in tools/indicators including level indicators, filter, air jet, butterfly valves, safety cages stairs, manhole, walk-away, etc. which are built as per structural & static analysis as per CE norms.
- * **Cement spirals** are manufactured as per EU norms with appropriate diameter, length and working angles with easy to operate and accurate operational capabilities
- * **Central controller**, computerized controlling unit obtains; online plant control, diagnosis, recipe variants, storage, customer management, efficiency and productivity with an on-line access with plant indicators.

Model of Concrete Plant	HBS-S30	HBS-S60	HBS-S100	HBS-S120
Plant Capacity (m ³ /h)	30	60	100	120
Mixer Wet Concrete Capacity (m ³)	0.5	1	2	2.5
Aggregate Storage Hopper (m ³)	60 (4 x 15)	60 (4 x 15)	80 (4 x 20)	100 (4 x 25)
Aggregate Weighing Hopper (m ³)	0.5	1	2	2.5
Aggregate Weighing Conveyor Size (mm)	600 x 13000	800 x 13000	800 x 13000	1000 x 13000
Aggregate Transfer Conveyor Size (mm)	600 x 20000	800 x 20000	800 x 24000	1000 x 24000
Aggregate Stand-by Hopper (m ³)	0.5	1	2	2.5
Cement Scale Hopper (kg)	400	600	1200	1500
Water Weighing Hopper (kg)	200	400	800	1000
Admixture Weighing Hopper (lt)	10	20	40	50
Cement Silo (ton)	OPTIONAL			



CONCRETE PUMP TRAILER



IMMA's compact, quiet and multi-purpose **TP-Line** concrete pump trailers are far beyond the competition with the technical configuration and a cost-effective solution.

Major technical features:

- * Ball catcher
- * Hydraulic outriggers
- * Hydraulic hopper gate
- * Vibrating hopper grill
- * Auxiliary hydraulic for shut off valve
- * Water tank
- * Max. Concrete Output (ROD Side) : **33,8** m³/h to **71,2** m³/h
- * Max. Aggregate Size: 38mm
- * Heavy Duty S Tube: 180-125mm
- * Outlet Diameter: Ø125 mm
- * Diesel Engine: Yavuz, Cummins, Volvo, Kubota ... (Turbocharged, water coolant, Euro-2 or Euro-3)
- * Engine Power: 41HP - 134HP
- * Hydraulic Main Pump: Rexroth or Linde
- * Max. Hydraulic Pressure: 420 bar
- * Control System: Inductive Proximity Driven
- * Optional Item: Wireless Remote Control System
- * Optional Item: High Pressure Washing Pump
- * Optional Item: Automatic Greasing on the Pump Cell Unit

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CONCRETE PLACING BOOM - MAST



Z-FOLDING: Distributor is designed to be folded like a Z shape, in that way simultaneous motions of the segments can be accomplished much easier. Less pace requirement helps to reach the 100% efficiency

CWPS – CABLE WRAPPING PREVENTION SYSTEM: Due to the slip ring mechanism on the rotating tower, electric cable does not need to be wrapped around the machine. The operator can turn the distributor as much as it is needed. The electric cable of the distributor become safe against cutting risks.

- ✱ Placing diameter (without end-hose): Up to 100m
- ✱ Concreting area: Up to 7.854,00 m²
- ✱ Number of boom segments: 4
- ✱ Boom type: Z Folding
- ✱ Counter-weight: 4 x 4.5t = 18t
- ✱ Machine Weight (without adapter): 21t
- ✱ Power: 30kW, 380-400V, 3-Phase
- ✱ Remote Control mode: Wireless proportional remote control Concrete piping: Standard 5,5" (Ø125 ID) pipes
- ✱ Flexible end hose: 3m
- ✱ Lattice Mast Column Length: 3 x 6m= 18m
- ✱ Stand-On Lattice Mast Cross Section: 2x2m

CONCRETE PLACING BOOM - SPIDER



Easy installation and operation. Remote controlled unit for quick operations.

- * Placing diameter (without end-hose): Up to 24m
- * Concreting area: Up to 452m²
- * Machine weight: 2.320kg
- * Counterweight: 1 x 1.300kg
- * Power: 3 kW, 380-400 V, 3-Phase
- * Remote control system: Wireless, On/Off Concrete piping: Standard 5,5" (Ø125 ID) pipes Flexible end hose: 3m
- * Distributor Segment: R Type, 3 Section

CONCRETE PUMP BOOM TRAILER



Concrete pump with boom arms. Built on towable trailer. State of mind design.

- * Up to 42m vertical reach (+3meter end-hose)
- * Trailer mounted (Not truck mounted)
- * Interchangeable distributor unit.
- * Hydraulic system infrastructure to work on self-climbing mast.
- * 108 bar concrete output pressure.
- * Smooth action, location and stability
- * Automatic pump cell greasing
- * High pressure washing + Water tank.
- * Rotating tower + Power Pack needed by the distributor section is on the Rotating tower.
- * Ball catcher.
- * Max. Concrete Output (ROD Side): 72m³/h
- * Heavy Duty S Tube: 180 - 125 mm
- * Outlet Diameter: 125 mm
- * Yavuz, Cummins, Volvo, Kubota ... (Turbocharged, water coolant, Euro-2 or Euro-3)
- * Main Pump Unit: Rexroth or Linde
- * Rotating range: 360°
- * Control mode: Wireless, Proportional remote control
- * End Hose: 3 m

CONCRETE MORTAR TRAILER



Another unique solution is for the cement maker & concrete mixer semi trailer. Trailer mounted unit helps to custom concrete requirements, which can be done at site by cement, sand, aggregate, additive and water inlet.

- * Cement, water, sand, aggregate, additive mixer
- * Concrete mixer
- * 3.000 liter drum volume
- * 1,5 m³ Concrete capacity
- * 500 liter water capacity
- * Hydraulic lifting bucket for cement, sand and gravel
- * Diesel engine powered / driven
- * Hydraulic actuator driven for rotating (clockwise & counter clockwise)
- * Towable by and SUV or Pick-up
- * Hi-pressure water pump

CEMENT & CONCRETE VEHICLES

Imma also builds semi-trailers and truck body for various cement and concrete transporting:



Concrete Mixer Truck



Concrete Mixer Semi-Trailer



Cement Silo Semi-Trailer

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