

The Perfect Solution for
Manufacturing Concrete Pipes,
Manholes & Box Culverts



Vertical Casting Concrete Pipe Making Plant

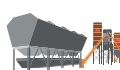
Available in 300 mm to 3600 mm Dia Concrete pipe



Concrete Pipe
Making Plant



Concrete
Batching
Mixing Plant
(MAC)



Concrete
Batching
Mixing Plant
(MCP)



Mobile
Concrete
Batching Plant
(MA)



Wet Mix
Macadam
Plant



Kerbing
Machine



MKM
1200



Self Loading
Concrete Mixer



Block
Machine

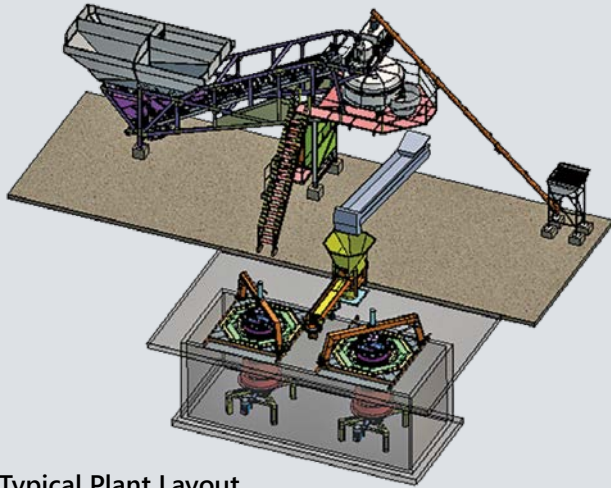


Macons Dry
Mix Mortar
Plant (MDMP)



Truck
Mounted
Aerial
Platform

Vertical Casting Concrete Pipe Making Plant



Typical Plant Layout

Semi - Automated operations controls; perfect for a variety of dry cast products in several shapes and sizes up to 3600 mm diameter pipe and 3000 x 3000 mm box sections.

The MACONS Vertical Casting Concrete Pipe Making Plant is very suitable for the production of every type of concrete pipes, reinforced as well as non - reinforced and with or w/o lining.

Technical Specifications

Model	Circular Pipes (mm)	Box Culverts/ Manhole Cones (mm)	Max. Product Length (mm)
MVCP 315	300 - 1500	300 - 1200	2500
MVCP 320	300 - 2000	300 - 1500	2500
MVCP 325	300 - 2500	300 - 2000	2500
MVCP 336	800 - 3600	800 - 3000	2500

Production Capability

- Reinforced and non-reinforced pipe
- Circular and non-circular pipes with a bell or in-wall joint
- Lined pipe (HDPE, PE, GRP)
- Jacking pipe
- Box Culvert
- Manhole cone, ring, base, cover

Operation

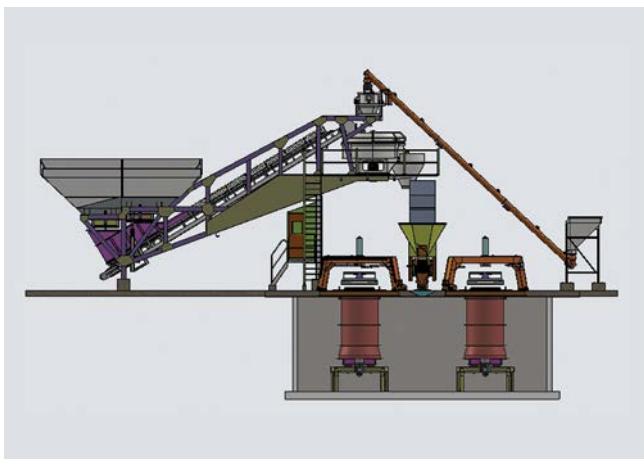
The Machine is semi-automatically operated by 1-2 men, depending upon the specific products being manufactured, the layout of the machine and the selected optional features. With its built-in system for quick mould changes down to 15-30 minutes, the machine comes with the option of manufacturing more than one pipe diameter per production day.

Production Capability

Diameter	Reinforced Pipe Length 2500 mm (Pipe/Hour)	Manhole Riser Height 1200 mm (Unit/Hour)	Manhole Riser Height 600 mm (Unit/Hour)	Box Culverts Length 2000 mm (Unit/Hour)
300	7	-	-	4
600	7	11	16	4
900	7	9	16	3.5
1000	6	8	15	3
1200	5	8	14	3
1500	4.5	7	12	2.5
1800	4	6.5	10	2.2
2000	3.5	5.5	8	1.9
2500	2.5	4	5	1.5
3000	1.4	2	3	1.2
3600	0.9	1.5	2	-

Standard Features (MVCP 315/320)

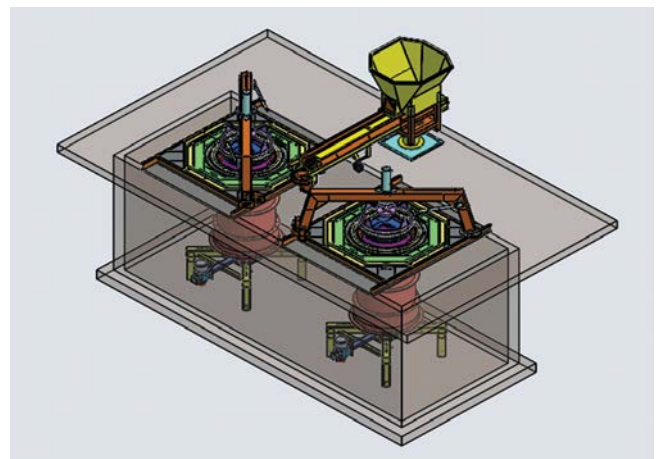
- The machine for manufacturing pipes for vertical vibration casting is one of the most advanced technologies for the manufacture of concrete pipes in the world
- Compaction by central core vibration
- Frequency controlled vibration speed
- Hydraulic pressing / rocking function
- Demoulding by overhead crane
- Powered pivot for press arm and concrete feeder
- Control panel with digital display and control systems
- Cooling system for the vibrator
- Sleeve arm powered by hydraulic motor
- Recessed production stations
- Floor –level operator platform system
- Mechanized concrete feed system with distributor
- Quick change mould components
- Central operator control console
- Semi-Automatic operation with reverse and forward locking arrangement for sleeve arm.
- Quick-Mould change system
- 1 or 2 station arrangement
- Feeder Hopper Capacity – 1.25 Cubic meter
- Feeder Hopper and sleeve arms attachment for sleeve bearing
- Seperate power and control panel for Easy Operation



Optional Features (MVCP 315/320)

The MVCP 315 /320 can be supplied with a number of add-on features to make operations and handling even easier and improve production in general.

- Lifting anchor automation
- Pneumatic equipment for casting of lined pipe
- Turnover system for slabs and bases
- Double casting stations for increased production
- Quick relocated platform / pit cover
- Cast-in-place manhole steps
- Adjustable box culvert moulds
- Optimal for lined pipe



Standard Features (MVCP 325/336)

- Electrically driven, synchronized core vibration system with oil - lubricating Cooling fan system
- Frequency controlled core vibrator speeds. The incredible vibrator in this vertical vibration solid line machine boosts the thickness and strength of the solid
- This machine is perfect for producing a wide variety of dry cast products in several shapes such as elliptical pipe, arch pipe, box culvert, jacking pipe, single offset and confined joint manhole
- Single station and Double station capability or Upgradation for Second station
- A second production station can be installed initially or added in the future. Second station permits two different product sized to be produced at time and virtually doubles machine output
- Mechanized Concrete feeder with belt distributor for direct filling
- Hydraulically operated pressing / rocking device for forming spigots, with mechanical pipe length control
- Hydraulic power pack to drive the pressing/ rocking device, reverse and forward locking arrangement and sleeve arm forward reverse arrangement
- Mechanical elevation system to accommodate different product diameter
- Stationary Panel with PLC control and human machine interface system and digital display
- Floor-level operator platform system with stairway to the pit for easy access to the elevator frame and core mould and its lubrication system
- Safety system with emergency stop switch

Vertical Casting Concrete Pipe Making Plant



Moulds



Inner Core



Inner Outer Set Rings



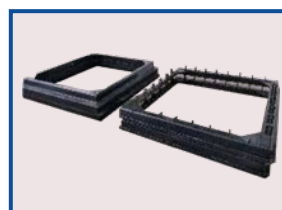
Pallet



Main Hole Corn Mould



Box Culvert Mould



Pallet & Header
(Box U Drain)



Sleeve Arm



Macons Equipments Pvt. Ltd.

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