

**WORLD WIDE
INSTALLATIONS...**



An ISO 9001:2015 Company



World Class Equipments With **Globally Sourced Components**

Manufacturer of Road &
Civil Construction Equipments



Asphalt
Drum Mix
Plant



Wet Mix
Macadam
Plant



Concrete
Batching &
Mixing Plant



Bitumen
Sprayer



An ISO 9001:2015 Company

CAPIOUS ROADTECH PVT LTD.

Government of India Recognized One Star Export House

Available through Tristar UVS

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www.tristaruvs.com

www.tristaruvs.com



Kiran Pandya
Managing Director



Jay Pandya
Director



Dhaval Pandya
Director

Welcome Message from the Managing Director

Dear Valued Customers, Partners, and Associates,

It gives me immense pleasure to welcome you to Capious Roadtech Pvt. Ltd., where tradition meets technology and innovation paves the way to progress.

For over two generations, Capious has stood on the strong foundations of trust, quality, and customer-centricity. As a proud family-owned enterprise since 1997, we believe in building relationships that go beyond business. Every machine we build carries not just cutting-edge construction machinery, but also our promise of reliability and integrity.

From humble beginnings to becoming a recognized global exporter and ISO 9001:2015 certified company, our journey has been driven by continuous improvement, technical excellence, and a deep understanding of our customers' evolving needs.

Today, Capious products operate in diverse terrains across continents, empowering infrastructure development in both developed and emerging economies. Our vision is to be a world-class provider of sustainable road construction machinery & Solutions, supporting governments, contractors, and developers with the tools they need to build lasting roads and highways.

As you explore our catalog, we hope you find not only the right equipment but also a long-term partner you can count on.

Warm regards,

Kiran Pandya
Managing Director
Capious Roadtech Pvt. Ltd.



2,50,000 Sq.Feet Area

-  **25+**
Years of Experience
-  **500+**
Installations
Commissioned till Date
-  **35+**
Countries we
have Exported to
-  **1000+**
Happy Clients

www.tristaruvv.com

About Us :

Capious Roadtech Pvt. Ltd. is a proud, family-owned enterprise with a legacy spanning over two generations. Rooted in strong values of integrity, innovation, and customer commitment, we go beyond simply selling road construction machinery—we deliver cost-effective, world-class solutions that are globally recognized and trusted.

Every client we serve becomes a part of the Capious family. Our approach is not just transactional but transformational, ensuring each partnership is built on mutual success and satisfaction.

Our Vision

To be a global leader in providing sustainable and innovative road construction solutions that drive infrastructure development and empower communities.

Our Mission

- To deliver high-quality, reliable, and efficient road construction equipment.
- To uphold the highest standards of customer service and technical support.
- To constantly innovate and adapt to evolving global needs.
- To ensure environmental responsibility in all our products and practices.

Quality & Certifications

At Capious, quality is at the core of everything we do. We are proud to be:

ISO 9001:2015 Certified – demonstrating our commitment to a robust quality management system.

ONE STAR EXPORT HOUSE recognized – reflecting our consistent performance in international markets.

CAPIOUS' MOTTO is Complete Customer Satisfaction – Quality is never an accident but comes from concentrated single-minded efforts to serve the customers with the best.

Our Vision To be a global leader in providing sustainable and innovative road construction machinery that drive infrastructure development and empower communities.

MILESTONE

Capious Roadtech Pvt. Ltd. was founded, focusing on road construction machinery.	Start 2nd Manufacturing Unit of Road Construction machinery	Entry into international markets, exporting to the Middle East, Africa, CIS countries, and Latin America.	introduction of asphalt batch mix plants, offering precision in mix quality and operational flexibility.	exported the first asphalt batch mix plant. Established its third manufacturing unit spreaded over 2,50,000 sq.feet.	Added concrete batching plants to the product range	Continued expansion into Middle East, Africa, CIS countries, and Latin America, solidifying Capious as a global brand
1996	1999	2004	2012	2014	2019	2022

RANGE OF PRODUCTS

Asphalt Batch Mix Plant ➤ Wet Mix Macadam Plant ➤ Concrete Batching Plant
Asphalt Drum Mix Plant ➤ Bitumen Sprayer ➤ Road Broomer ➤ Chip Sprader

Infrastructure



- **Equipped with wide range Of modern tools and tackles**

- plasma cutting
- Bending
- Shearing Machine
- Punching Machine
- Rolling Bending Machine
- Hydraulic Press
- ARC and MIG welding



OUR CERTIFICATION



Our Range Of Products

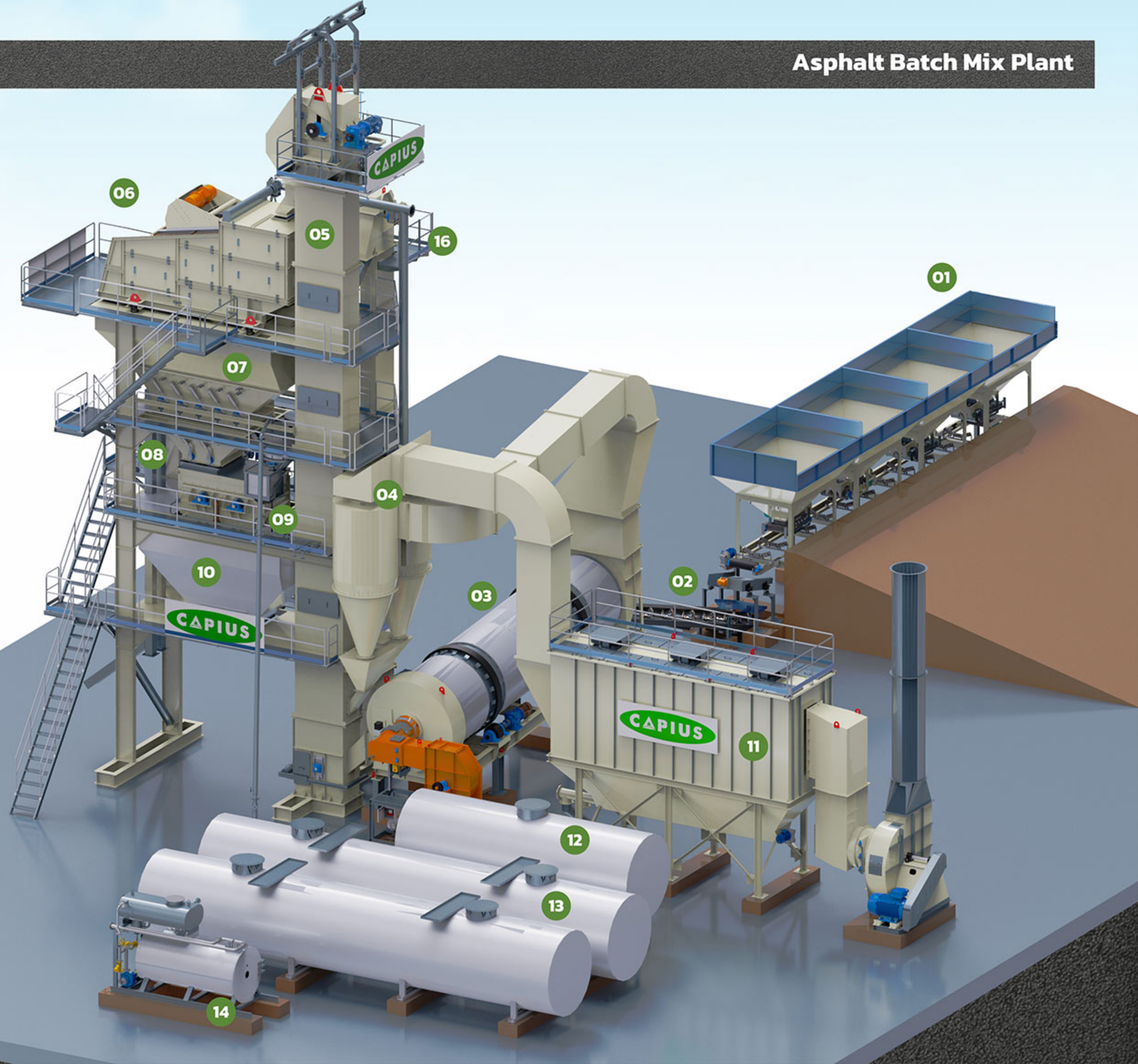


OUR CLINTES



MAIN COMPONENTS

- 01 Cold Aggregate Feeder Bins
- 02 Vibratory Screen
- 03 Dryer Drum with Modulating Burner
- 04 Twin cyclone dust collector
- 05 Hot Elevator
- 06 Multi deck vibratory screen
- 07 Hot bin
- 08 Weighing Hopper
- 09 Mixer Unit
- 10 Hot Mix Storage silo
- 11 Bag house - Pollution Control Unit
- 12 Fuel Tank suitable FO / LDO / Diesel
- 13 Bitumen Tank - Indirect heating
- 14 Hot oil circulation system with burner
- 15 Fully automatic control panel with cabin
- 16 RAPElevator



Asphalt Batch Mix Plant

Asphalt Batch Mix Plant



Our Installations



Asphalt Batch Mix Plant

SCOPE OF SUPPLY

- Cold Aggregate feeder Bins
- Over size Material & Dust Removal Screen
- Cold Aggregate Charging Conveyor
- Dryer Drum with Modulating Burner
- Weighing & Mixing System
- Insulated Inline Mix Material Storage Silo (Optional)
- Insulated Bitumen Tanks
- Thermic Oil Heater
- Bucket Elevator for Hot Aggregate
- Batching & Mixer Tower
- Multi Deck Hot Aggregate Vibratory Screen
- Hot Aggregate Bins
- Filler Elevator
- Bag House Filter with Exhaust System
- Fuel Tank with heating arrangement
- Control Panel with Control Cabin

KEY FEATURES

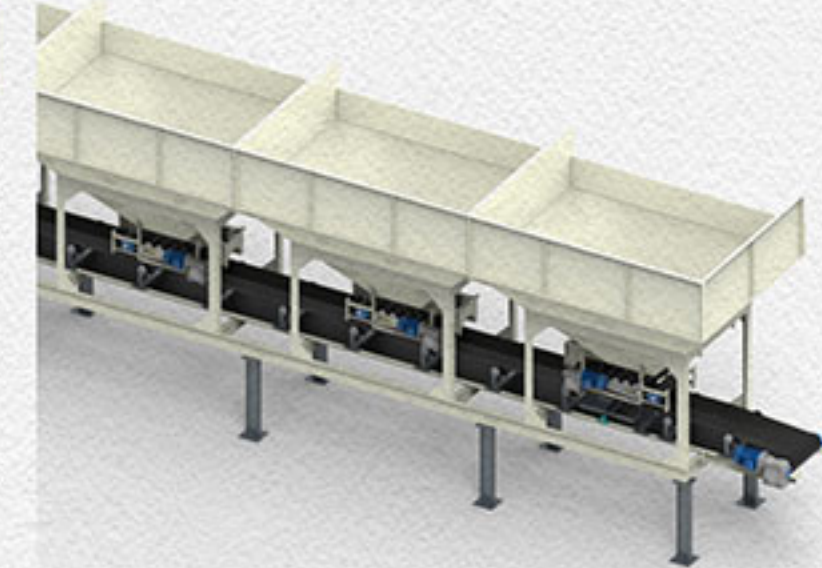
- Modular Design – Easy to transport, install, and relocate
- Precision Batching – Accurate weighing systems for aggregates, bitumen & filler
- Advanced Control Panel – Fully automated PLC system with user-friendly interface
- Efficient Drying Drum – Optimized for fuel efficiency and uniform drying
- High-Performance Burner – Compatible with diesel, LDO, FO, or gas
- Dust Collection System – Twin-stage pollution control with primary cyclone and baghouse filter
- Robust Mixing Unit – Twin-shaft pugmill mixer for homogenous asphalt output
- Customizable Storage Silos – Options for hot mix storage from 90 to 160 tons

Asphalt Batch Mix Plant



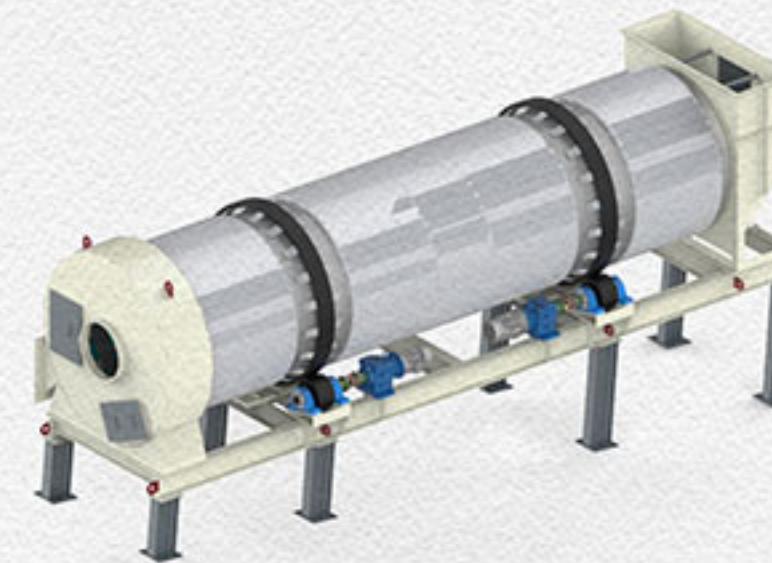
COLD AGGREGATE FEED HOPPER

Bin Feeder for cold aggregate storage, proportioning and feeding to dryer drum. Each bin feeder belt, driven by AC Variable Frequency Drive (VFD) geared motors, deposits the aggregate on a gathering conveyor located under all of the cold aggregate bins. One bin meant for fines or dust is fitted with vibratory motor to ensure the free flow of material. Width of each bin is compatible with the width of the loader bucket. Cold aggregates are prescreened by Single-deck vibratory screen for oversize material.



DRYER DRUM

The dryer operates on counter-flow technology. The aggregate is introduced into the dryer at the upper end and the burner is located at the lower end of the dryer. The exhaust gases from the combustion move toward the upper end of the dryer, against (counter to) the flow of the aggregate. As the aggregate is tumbled through the exhaust gases, the material is heated and dried. Dryer drum rotation is with four-wheel friction & Chain drive. Dryer is insulated to prevent heat loss and protect the drum shell. Replaceable internal lifting flights are designed to ensure optimum heat transfer for drying & heating of aggregates.



STRUCTURE OF BATCHING TOWER

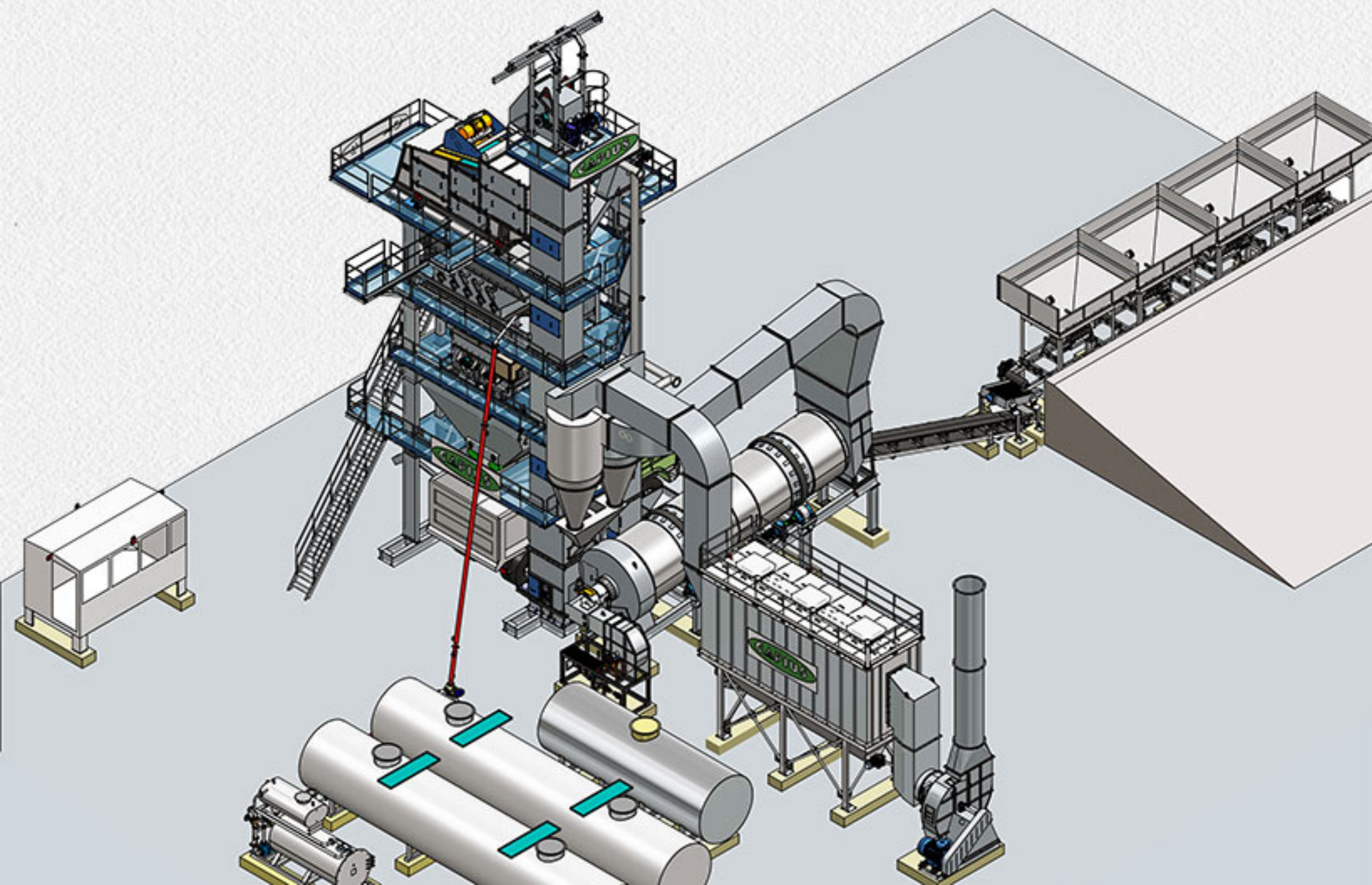
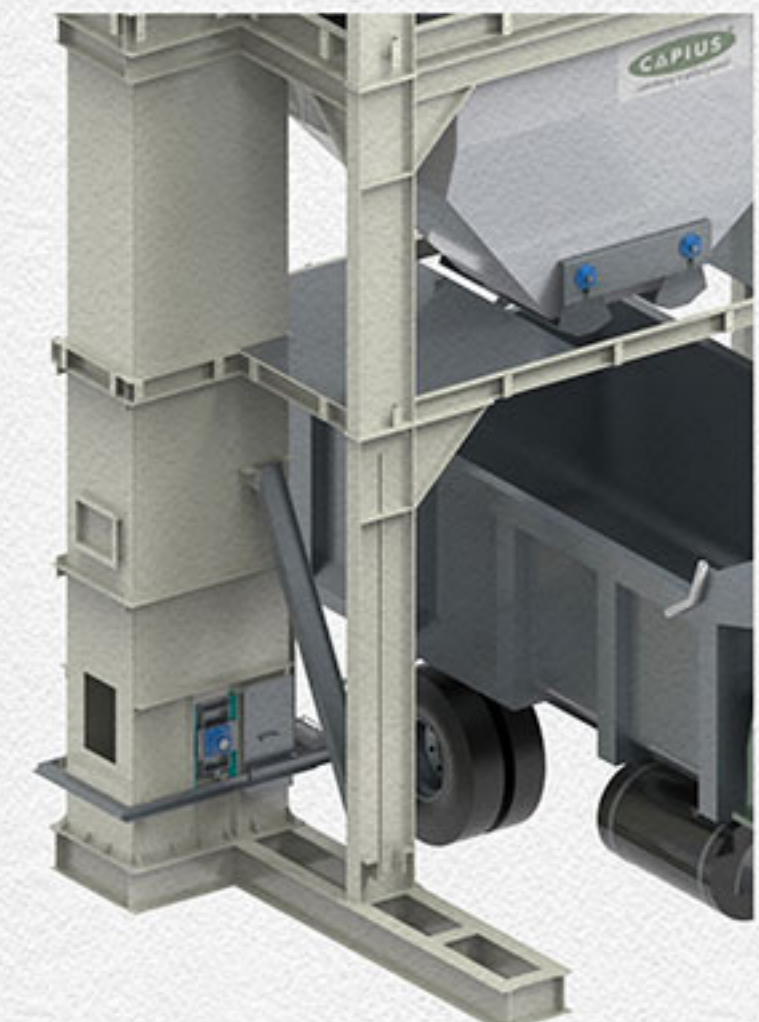
Batching & Mixing Tower structure is constructed using ISMB 450 beam to make it sturdy, its modular design makes it easy to install, uninstall and transport from one site to another.

INLINE STORAGE SILO (Optional)

Fully insulated Inline hot mix material storage silo of 20 tons capacity for fast truck loading. Pneumatically operated radial gate for material discharge. Batch loading prevents mix material segregation.

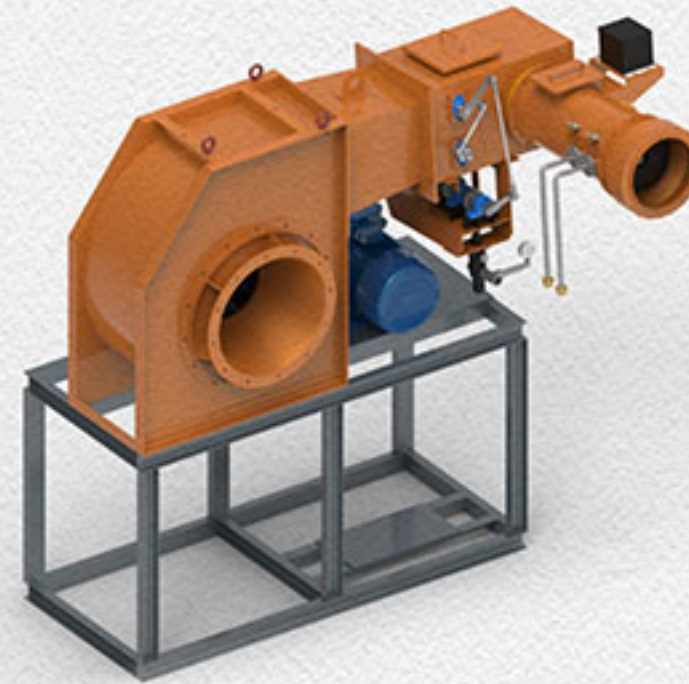
SKID MOUNTED MIXING TOWER

The Batching & Mixing Tower unit is Skid Mounted with wide base for stability. Eliminates costly RCC and Foundation civil work. The Plant can be easily set up on PCC



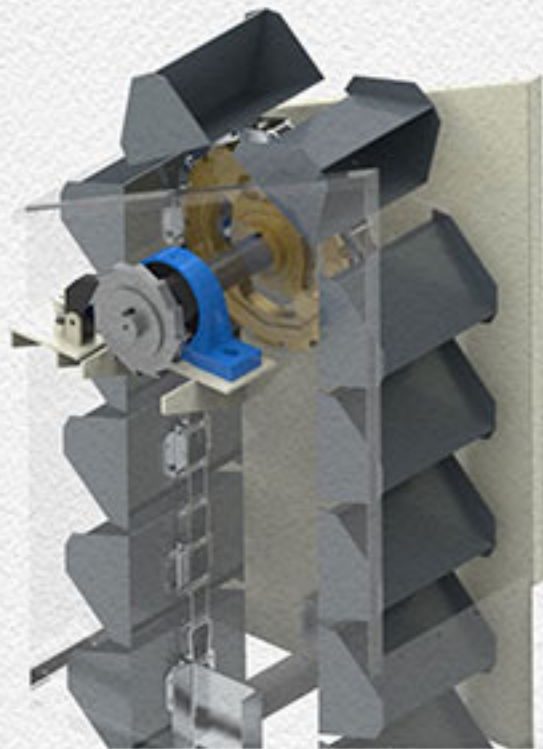
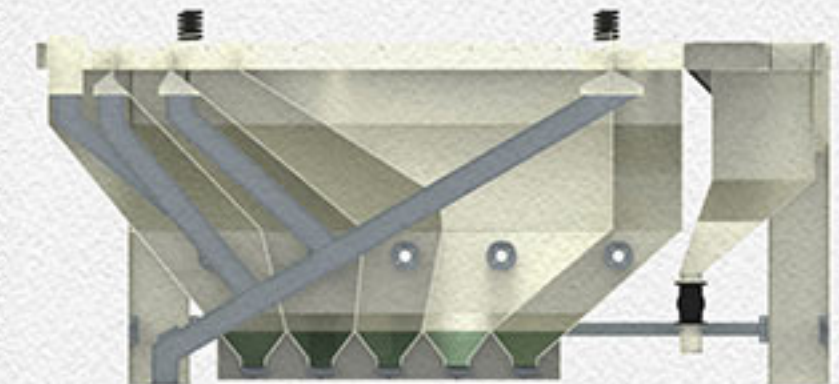
MODULATING BURNER FOR DRYER DRUM

Modulating type oil burner with simple operating mechanism maintains perfect air / fuel ratio resulting in efficient combustion of fuel there by saving fuel and environment. It is suitable for F.O., Diesel and LDO. The burner produces the proprietary ball-shaped flame, inevitably required for total combustion, fuel efficiency, longer drum shell life, maximum radiation heat transfer and conformance to high emission standards. This burner unit is devoid of any refractory material and is supplied with modern safety interlocks and process automation.



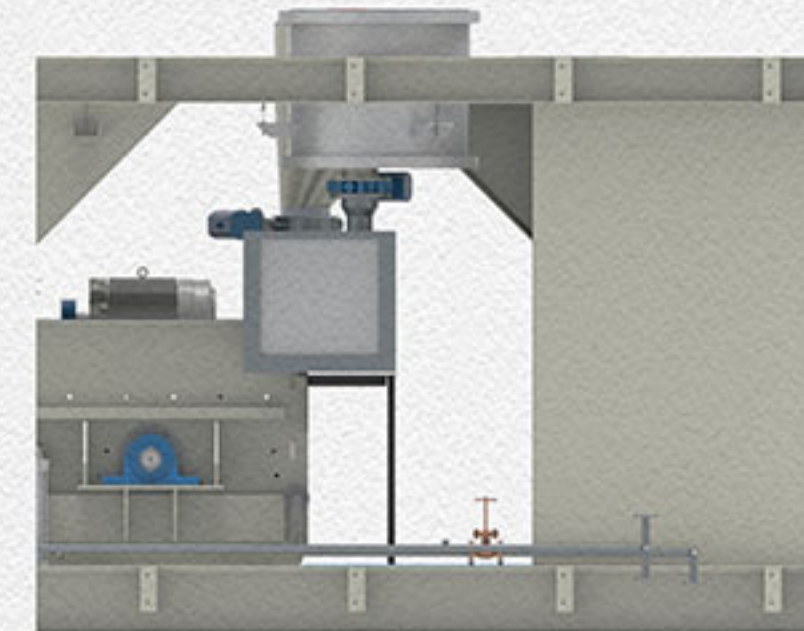
HOT BIN & WEIGHING UNIT

The Hot Material Bin & Weighing Unit features individual storage compartments linked to the vibrating screen, each equipped with level indicators. It ensures separate weighing of aggregate, filler, and fine materials using reliable load-cell systems for bitumen. The unit includes overflow and oversize rejection chutes, pneumatic cut-off gates, and a sampling device in each bin. With integrated high and low-level indicators connected to the control cabin, it allows automatic regulation of aggregate input from cold feeder bins, reducing material waste. The system is known for its accuracy, low maintenance, and easy calibration.



HOT BUCKET ELEVATOR

Capius hot aggregate bucket elevator is a totally enclosed chain driven system, designed for long service life and easy maintenance access. Robust and reliable bucket elevator is designed to withstand high material temperatures and to operate at rated capacity. our strand chain ensures smooth & balanced operation of entire elevator system, eliminating unbalancing of buckets during heavy loads when plant is operated at full capacity.

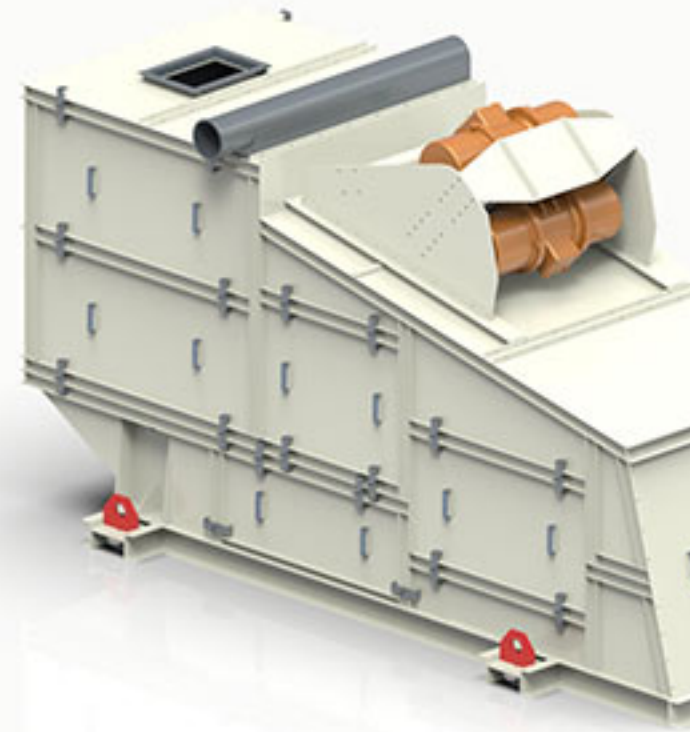


BITUMEN WEIGHING HOPPER

The bitumen is metered by weight through load cells in the weigh hopper. Bitumen is feed by gravity hence no need of spray Pump and motor. 2" glass wool insulation on bitumen hopper and provision of hot oil circulation maintains the bitumen temperature. Teflon coated pneumatic butterfly actuator for quick discharge. There is a Spray bar for uniform spraying of liquid Bitumen in Pug mill chamber.

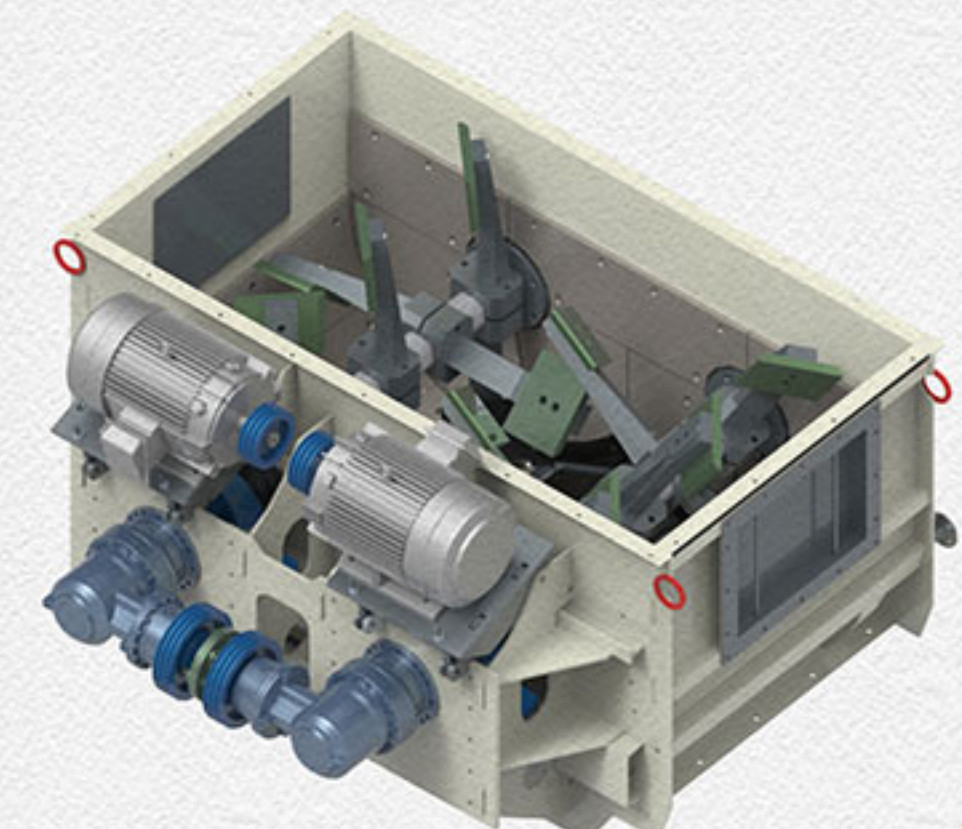
FOUR DECK VIBRATORY SCREEN

Multi deck, totally enclosed, inclined vibratory screen for gradation of hot aggregates. Two nos. vibratory motors provide required vibration for optimum screening. High quality screen cloth contributes to excellent performance. Sufficient screen area to handle the rated feed capacity. The free-floating design prevents any vibration from being transferred to the weighing scales. A wider platform with easy access eases the maintenance of the screen. Screens can be easily replaced to match the hot mix recipe.



PUGMILL MIXER

Capius Pugmill Mixer ensures production of uniform and homogeneous hot mix material. The pugmill consists of lined mixing chamber with two horizontal counter rotating shafts with paddle arms. Easily replaceable and adjustable paddle tips are mounted on paddle arms leaving no 'dead areas'. The pugmill mixer is hot oil jacketed for maintaining the temperature. The radial gate allows smooth discharge of mixture from the full width of the mixer.



REVERSE AIR FLOW BAG-HOUSE FILTER UNIT

The baghouse system consists of a Twin Cyclone primary dust collector, an enclosed fabric filter structure (baghouse), and a draft package which includes the exhaust fan. Bag House Dust Collector is designed to capture the dust from exhaust gases and thus filter the air from particulate laden (dirty air) turning the dirty air into clean air; virtually particle free. Once the air is cleaned, it's exhausted from the collector's clean air side back into the atmosphere. Dust particles are captured on the filter bags surface, while the gases being filtered pass through the filter bags media. Screw conveyor is provided to feed the collected dust in bucket elevator.



CONTROL PANEL & CABIN

Fully automatic, SCADA enabled PLC based control panel with Computer for centralized operation of plant. AC drives and all electrical components are of reputed brands. It is equipped with protections like single phasing, overload, fuses, sequence interlock etc. Load wise data can be printed on the printer provided in the panel. The body of the panel is fabricated from CRC sheet duly Powder Coated to protect against weather effect and has necessary ventilation.

The Control Panel is housed inside an air-conditioned insulated cabin. The cabin glass windows provide operator optimum plant view from the cabin for ease of operation and control.



BITUMEN TANKS

Fully insulated round shape Bitumen tanks are of indirect heating type with hot oil circulating coils for heating Bitumen at desired temperature. Bitumen pump supplies the hot Bitumen to weighing bucket on batching tower through hot oil jacketed Bitumen pipeline. The tanks are fitted with automatic thermostatic controls and level indicators.



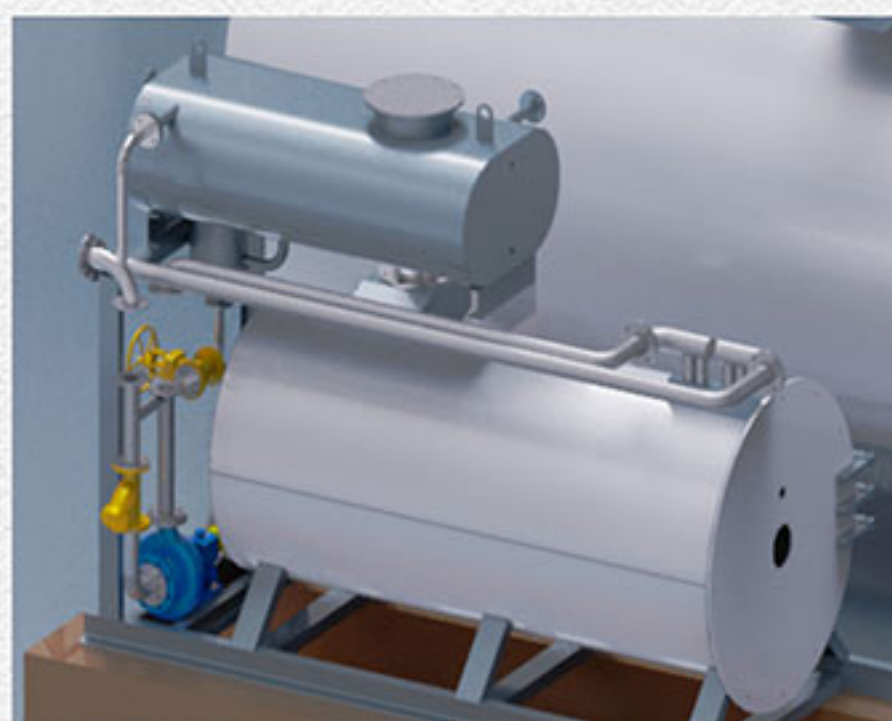
RAP SYSTEM

Asphalt recycling plant recycles reclaimed asphalt pavement (RAP) by mixing it together with virgin aggregates thereby enabling the reclaimed asphalt from old roads to be reused in an environmentally friendly way.

RAP material is collected from excavation or milling waste of road pavement, then crushed, processed and screened into required different sizes by asphalt recycling granulator, and then mixed with virgin aggregate. Excavated large pieces of asphalt pavement need to be crushed with an asphalt granulator to ensure that the original particle size of the aggregate is maintained and to reduce excessive fines or asphalt dust.

THERMIC HOT OIL HEATING SYSTEM

The indirect heating tanks are supplied with a superior design thermic oil heater. Thermic oil heater has integrated combustion chamber, concentric helical machine wound coil is placed within double shell to allow three passes of flue gases. Heater body is insulated by 4" thick glass wool. The Thermic oil heater is supplied with independent automatic control panel including oil temperature indicator controller, low level switch, low circulation pressure switch, over temperature cut off thermostat burner control relays and burner operating circuits.



FIBER DOSING SYSTEM

A fiber dosing system in an asphalt plant is a specialized piece of equipment that accurately distributes fibers into the asphalt mix during production, improving its properties like crack resistance and durability. These systems typically consist of a hopper for storing fibers, a feeder for metering them into the mix, and a control system for regulating the fiber flow rate. Benefits - These fibers improve the asphalt's tensile strength, flexibility, and crack resistance, leading to more durable and high-quality road surfaces. Hopper: Stores the fibers, which are often polyester, polypropylene, or aramid., Feeder: Meters the fibers into the asphalt mix. Control System: Regulates the fiber flow rate.



Asphalt Batch Mix Plant



DESCRIPTION	CABP 1500	CABP 2000	CABP 2500	CABP 3000
PLANT CAPACITY IN TPH AT 3% MOISTURE	120	160	200	240
COLD FEEDERS QUANTITY	4	4	4-5	5-6
COLD FEEDERS CAPACITY	60	60	80	120
DRUM DRIVE	10 HP x 4	15 HP x4	20 HP x4	20 HP x4
BURNER CAPACITY MW	12	14	16	18
FUEL TYPES	LIGHT OR HEAVY OIL			
FILTER CAPACITY	30000 NM3/hr	33000 NM3/hr	40000 NM3/hr	50000 NM3/hr
FILTER SURFACE	380m ²	380m ²	560m ²	700m ²
SCREENING DECK	4	4	5-6	5-6
HOTBIN CAPACITY IN TONS	24	30	35	50
AGGREGATE SCALE	1700	2200	2700	3200
FILLER SCALE	300	300	500	500
BITUMEN SCALE	225	300	400	400
MIXER CAPACITY	1500	2000	2500	3000
BITUMEN TANK CAPACITY	30 TON OR 50 TON - HORIZONTAL - THERMIC OIL HEATED			
FUEL TANK CAPACITY (LIGHT AND HEAVY OIL)	18000 LTR/20000 LTR/25000 LTR / 30000 LTR			

Note- Specification will change as per new development & updation in Design

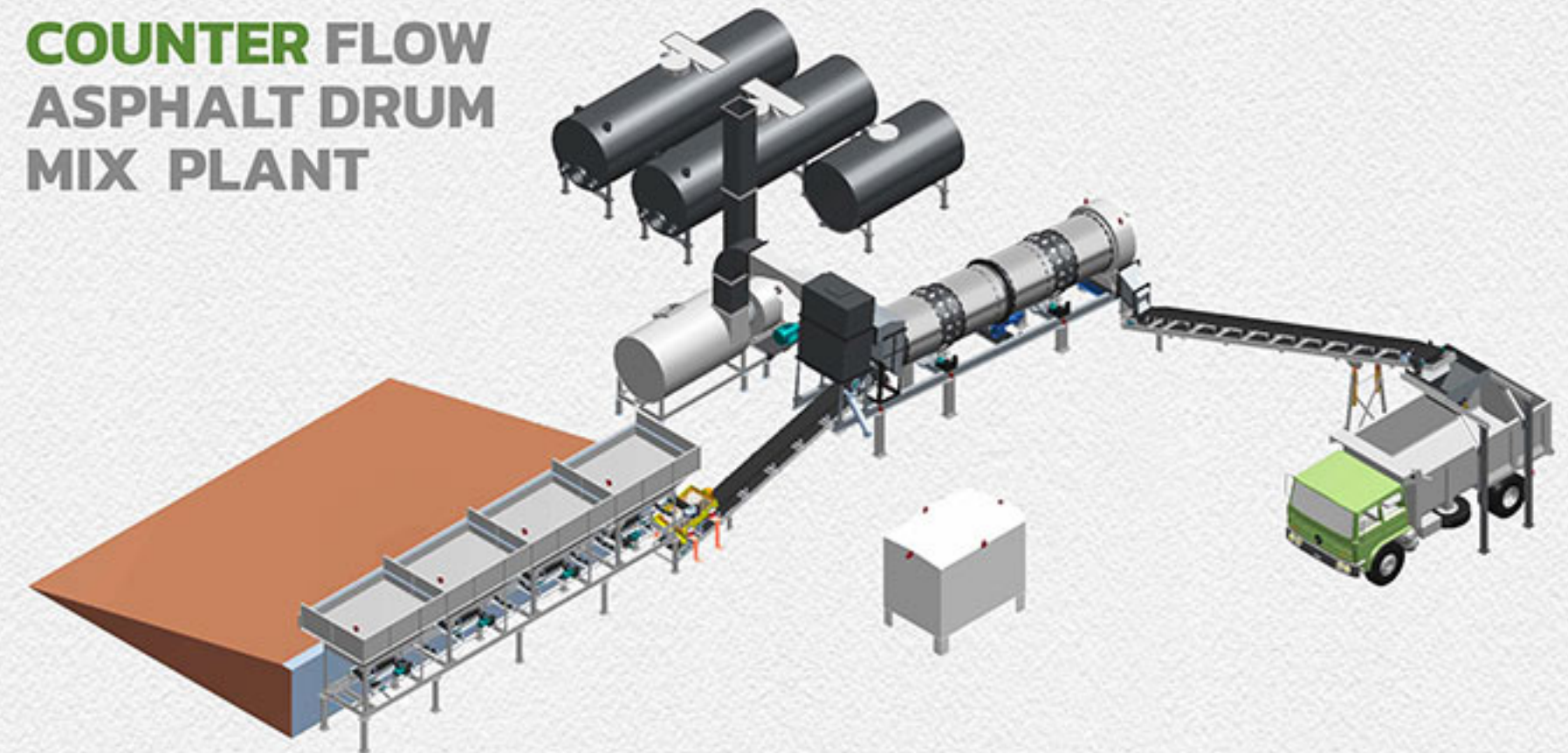
OPTIONAL ITEMS

RECYCLING ADDITION
BURNER SUITABLE FOR NATURAL GAS
HOT MIX STORAGE INLINE SILO-5 TON/20 TON/45 TON

FIBRE DOSSING SYSTEM
FILLER SILO
DUST CONDITIONER

Asphalt Drum Mix Plant

COUNTER FLOW ASPHALT DRUM MIX PLANT



Capius Roadtech Pvt. Ltd. specializes in manufacturing stationary asphalt mixing plants designed for long-term asphalt production at fixed locations. These plants offer high production capacity, efficiency, and reliability, making them ideal for small & large-scale projects such as urban roads, state Highway, national highways, airports, and industrial developments. Equipped with advanced control systems and additional features, these stationary plants optimize performance and ensure consistent quality of the asphalt mix.

Capius Asphalt drum mixing plant, also known as a continuous mixing plant, uses a rotating drum to heat and mix aggregates with asphalt binder continuously, producing hot mix asphalt efficiently for road construction. Unlike batch mix plants that produce asphalt in batches, drum mix plants operate continuously, meaning the mixing and heating processes happen in a single, uninterrupted flow. Asphalt drum mix asphalt plants are highly efficient, capable of producing large quantities of asphalt in a short time. The process allows for better control over the quality of the asphalt mixture. The continuous process ensures consistent quality in the asphalt produced. Modern drum mix plants are designed to minimize environmental impact.

Aggregates are loaded into cold feed bins and then fed into the drying and mixing drum. The burner heats the aggregates, and the asphalt binder is added, creating a hot mix. The mixed asphalt is then transported to a storage hopper / silo or directly loaded into trucks for delivery to the construction site.

SCOPE OF SUPPLY

Cold Aggregate Four-Bin Feeder

Single Deck Vibratory Screen for oversized material removal

Slinger (Cold) Conveyor

Dryer Auto Burner

Drying Cum Mixing Thermodrum with Dust Collector

Load out conveyor with Gob hopper

Asphalt Tank

Mineral Filler Unit

Centralized Control Panel with insulated Cabin

Fuel Storage Tank

Pollution Control Unit (Optional)

Storage silo (Optional)

SALIENT TECHNICAL FEATURES

- Unmatched technology.
- Superior quality products.
- World wide acceptable technology
- High fuel efficiency
- Energy Efficient
- AC Motors
- Easy to establish (Erection & Commissioning)
- QUICK availability of spare parts
- Environment friendly.
- Easy lubricating and dismantling
- Convenient maintenance and repair.
- User Friendly design.
- High production rate

ADVANTAGES

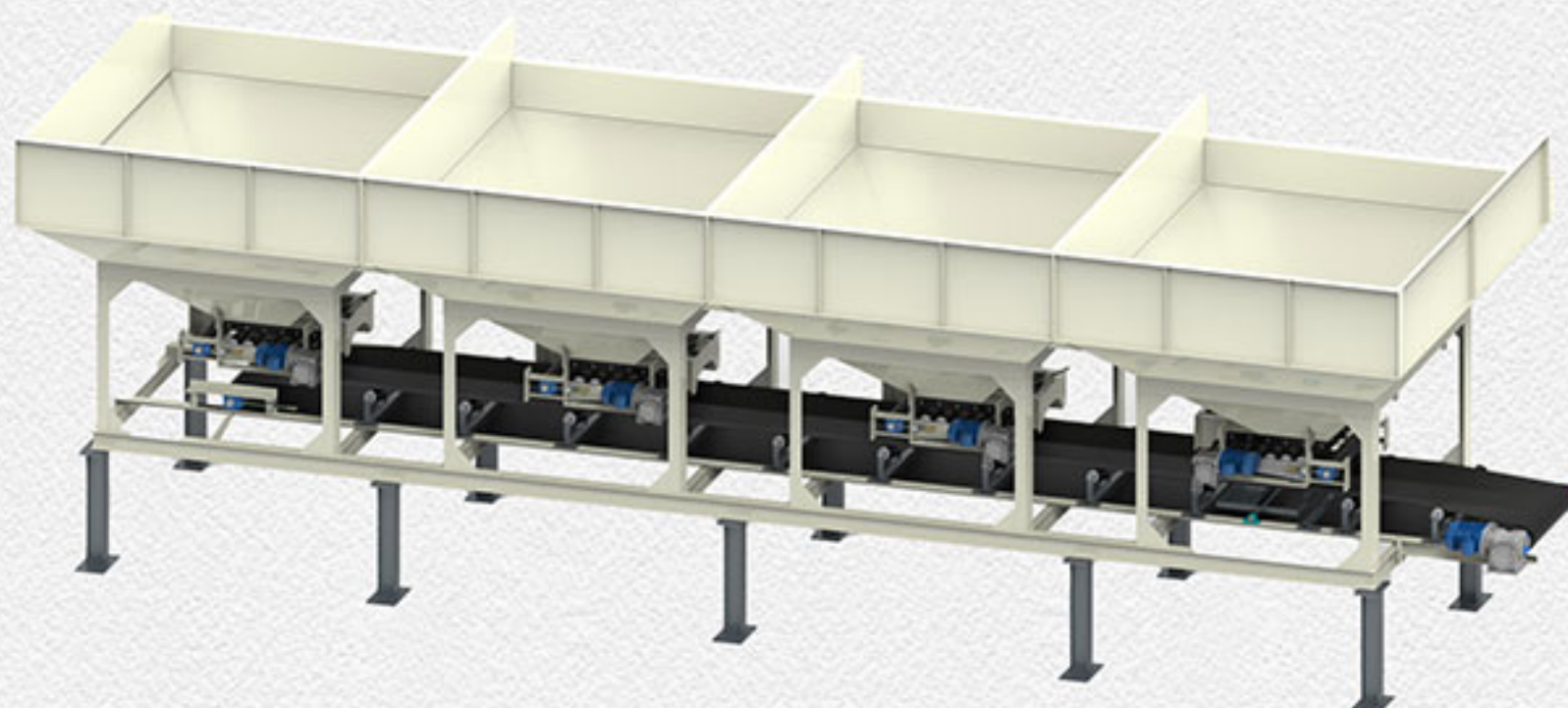
- Using globally renowned components
- Providing extensive training & education for plant
- Easy to Commissioning
- Prompt after sale Service & Support
- Lower maintenance
- High productivity
- Produce hi-quality mix products
- Easily available spare parts globally
- PLC base Feather touch Control Panel with HMI System / Totalizer Control Panel
- Easy to operate.

COLD AGGREGATES BIN FEEDERS

The bins are all-welded and modular in construction, permitting easy addition of bin. Steep bin walls and valley angles allow free flow of aggregates from the feeders minimizing hold up of materials in the corners and bridging with sticky aggregates. Each bin is provided with proximity switch to warn (Instruct) the operator in control room about no flow indication.

Four bin feeder has different sizes of aggregate to an integral collecting-conveyor that runs underneath the bins. Each bin features its own adjustable gate to control feed rates of the different sizes of aggregate. Variable speed A.C. motor allows you to change production rate while keeping the job mix formula un-changes. The collecting conveyor drops the aggregate onto a vibrating screen.

One of the most important parameter of gather belt is strain gauge shear beam type load cell frame operator can easily monitor material flow rate which is also giving signal to bitumen pump to synchronize with material flow "Auto" function for homogeneous mixture of material.

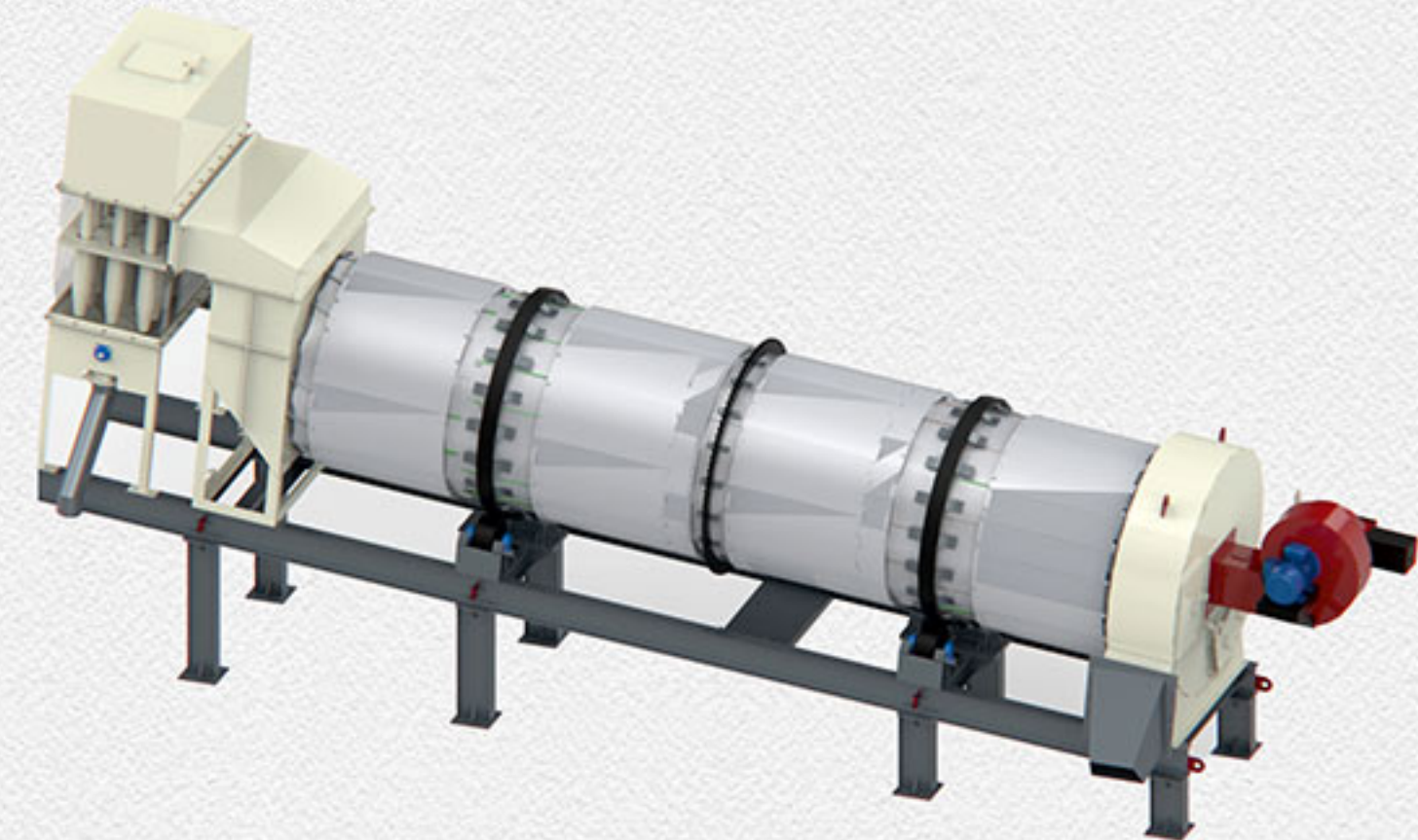


DRYER DRUM COUNTER FLOW

The Capious counter flow drum mix plant is engineered for efficient heating, where aggregates move opposite to the direction of exhaust gases. This counter flow design ensures higher aggregate temperatures with lower stack emissions. Advanced features like a unique flight design, efficient conveying systems, and a long-nose modulating burner address limitations found in older parallel flow systems.

The mixing zone is positioned away from the burner flame to avoid direct exposure to heat and gases. Bitumen is injected into this zone through a variable flow pump, synchronized with the aggregate flow scale, along with additives and fillers from dust collectors.

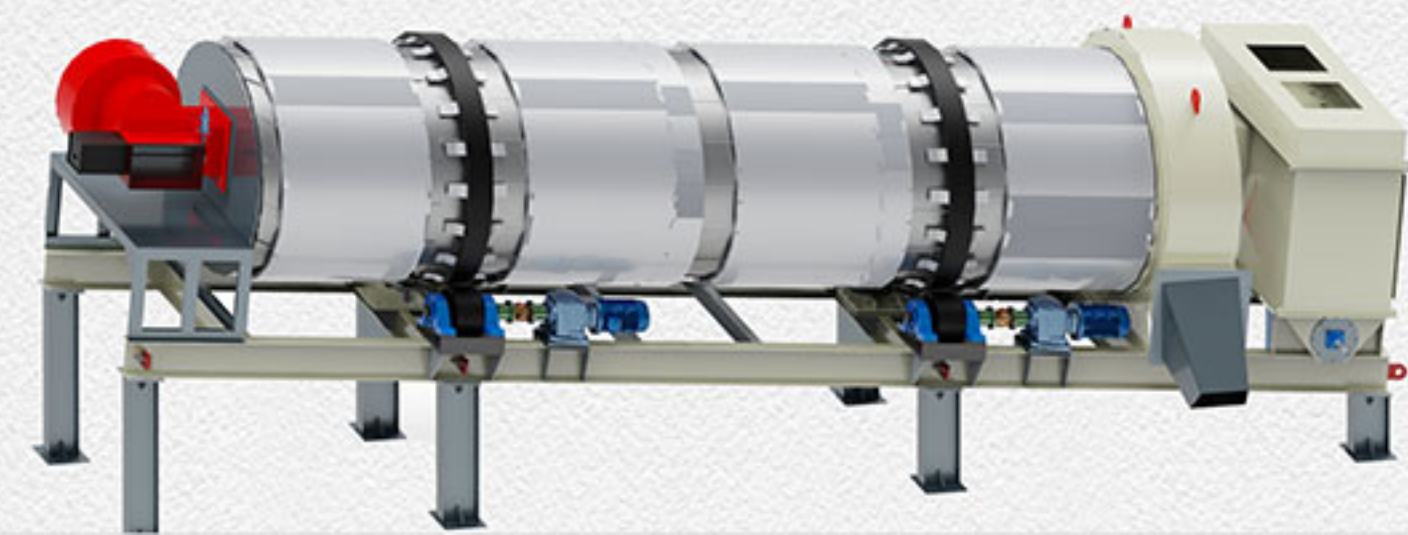
Modern designs integrate heating, mixing, and additive blending in a single drum chamber. Other configurations, such as double drum systems or external pugmills, are tailored for high RAP usage and to prevent black smoke emissions.



DRYER DRUM PARALLEL FLOW

Drying & Mixing drum is fully insulated with glass wool and covered with Stainless Steel sheet. It rotates on a set of four trunnions. As the drum rotates, a burner fires a flame down the center axis of the drum. A series of flights inside the drum shower the aggregate through the burner flame to remove all moisture. Dry aggregate exits the drum to the unit's mixing zone.

Special design of combustion zone flight ensures maximum utilization of radiation heat of burner. The lower capacity plants are supplied with a low maintenance cradle type drum drive. The auto lubrication system ensures proper and adequate lubrication on the chain drive thereby ensuring long years of trouble free service. Specially treated sprockets, thrust wheels, trunion rings and trunion rollers, engineered precisely for flawless and trouble free dryer drum rotation, ensures unlimited productivity.





BURNER

The high pressure atomized, fully automatic remotely controlled burner unit has already gained an enviable reputation for its fuel efficiency, ease of operation and high uptime. Completely automatic process controls with system interlocks ensure conformance to high safety standards.

BITUMEN HEATING & STORAGE SOLUTIONS

Capius provides direct heating type or hot oil heated bitumen storage tanks. Storage capacities range from 15 – 50 Tons. The indirect heating tanks are supplied with a suitable thermic oil heater. The Direct heating tanks are supplied with automatic high pressure jet burner. As a standard, all Capius tanks are supplied with auto thermostatic controls and level indicators.



CONTROLS

Fully computerized control cabin (AC optional) with on board electrical power control console, distribution switch board, fully automatic process and sequence controls are a standard on all plants. A user friendly software gives you total reliability and ensures top notch performance.

- Fail proof power interlocks and auto process controls
- Online fault detection
- Online printing facility
- Provisions to print, store & edit production details, mix proportions, etc.
- Display of all process control parameters
- Auto / manual operation

The control is equipped with function keys and numeric keys and does not require special skills for operation.

FILLER STORAGE UNIT

We offers a wide range of filler storage and feeding solutions for the customers to choose from, depending on the site requirements. A variable speed computerized synchronized metering system ensures the right proportioning in the mix.



MOBILE COUNTER
FLOW ASPHALT DRUM
MIX PLANT



COUNTERFLOW
DOUBLE DRUM

DRAG CONVEYOR (OPTIONAL in lieu of conveyor belt)

Heavy-duty and proven design ensure long-life, clean and trouble-free operation. The drag conveyor is built rugged steel liner for durability, a heavy-duty drag chain, and segmented sprockets for easy maintenance. The conveyor discharge opening is set back from the head sprocket so that the mix is fully discharged from each flight. This eliminates carry-over of residues that can cause excess wear of the head sprocket and chain. Hot oil circulation arrangement at the bottom of conveyor.



HOT MIX SILO (OPTIONAL)

Capius offers a complete range of customized solutions for asphalt storage. The standard systems. Silos are available with different storage capacities. The silos are supplied with automated standard safety controls and process interlocks. Different Shapes are available like Pyramid, Square, round etc. Silos of higher capacity can be supplied optionally as per requirement.

POLLUTION CONTROL UNIT WET DUST COLLECTORS (OPTIONAL)

A ventury type high efficiency wet dust collector that maintains the required environmental standards in specified areas. The extreme turbulence type venturi design ensures a very good entrapping of the dust laden exhaust gas. Large stainless steel spray nozzles provide a clog free operation and assure minimum water make-up requirements.



POLLUTION CONTROL UNIT BAG HOUSE FILTER UNIT (OPTIONAL)

Fine dust is absorbed by filter bag type air pollution control unit to meet the most stringent emission levels specify inlet current worldwide environmental standards with pneumatic bag cleaning system, Dust re-feeding to filler pneumatically screw conveyor. It operates forward-reverse mode as per the requirement of dust to the mix with coarse dust or without coarse dust. It is fitted with safety devices for temperature controller. Bag house filters are envied in the industry for their guaranteed savings on power, lower maintenance, trouble free service and strict conformance to stringent environmental norms



Asphalt Drum Mix Plant



VERSIONS

SINGLE DRUM

In our single-drum counter flow system, aggregate and superheated air move in opposite directions. Aggregate enters on the feed-entry end of the drum and travels toward the burner as it's dried. At the burner nose, the dried material passes behind an isolation ring where liquid asphalt. All materials are mixed in the final drum section, and then are discharged and conveyed to the storage silo. Counterflow technology is productive, efficient and environmentally friendly.

DOUBLE DRUM TYPE ASPHALT PLANT WITH DRAG CONVEYOR AND BAG FILTER

In this design both drying & mixing action take place in separate drum and the free dust & Water vapour are extracted from the inlet of dryer drum before mixing. Thus clean & dust free aggregates pass to mixing drum. This process ensures better mix quality. It is possible to measure temperature of hot aggregate & its temperature can be controlled before it moves to mixing zone. Separate mixing, drum allows to use R.A.P. (Reclaimed Asphalt Pavement)



COUNTERFLOW PANT WITH EXTERNAL PUGMILL MIXER, RAP ADDITION, DRAG CONVEYOR AND BAG FILTER

The aggregated material is inserted in the dryer on the opposite end of the burner. The flow of aggregates is opposite flow of hot gasses coming from the flame of the burner. This is the main characteristic of the process known as counter-flow with external Twin Shaft Mixer Unit, which ensures better use of the energy generated in the burner, as well as more efficiency in the extraction of moisture. Once they are dry and heated, the aggregates go on to the external Twin shaft mixer. At the same time, the weighing system of the plant injects this bitumen directly into the twin shaft mixer unit. The arms of the mixer exert great energy on the mixture and the gives good quality of asphalt mix.

OPTIONAL ITEMS

Drag Conveyor RAP Addition System
Baghouse Filter Mobility Arrangement

MODEL	OUTPUT CAPACITY
DM-40	40 - 60 TPH
DM-50	60 - 90 TPH
DM-60	90 - 120 TPH

Higher Capacity Model being tailor made can be offered against specific demand.

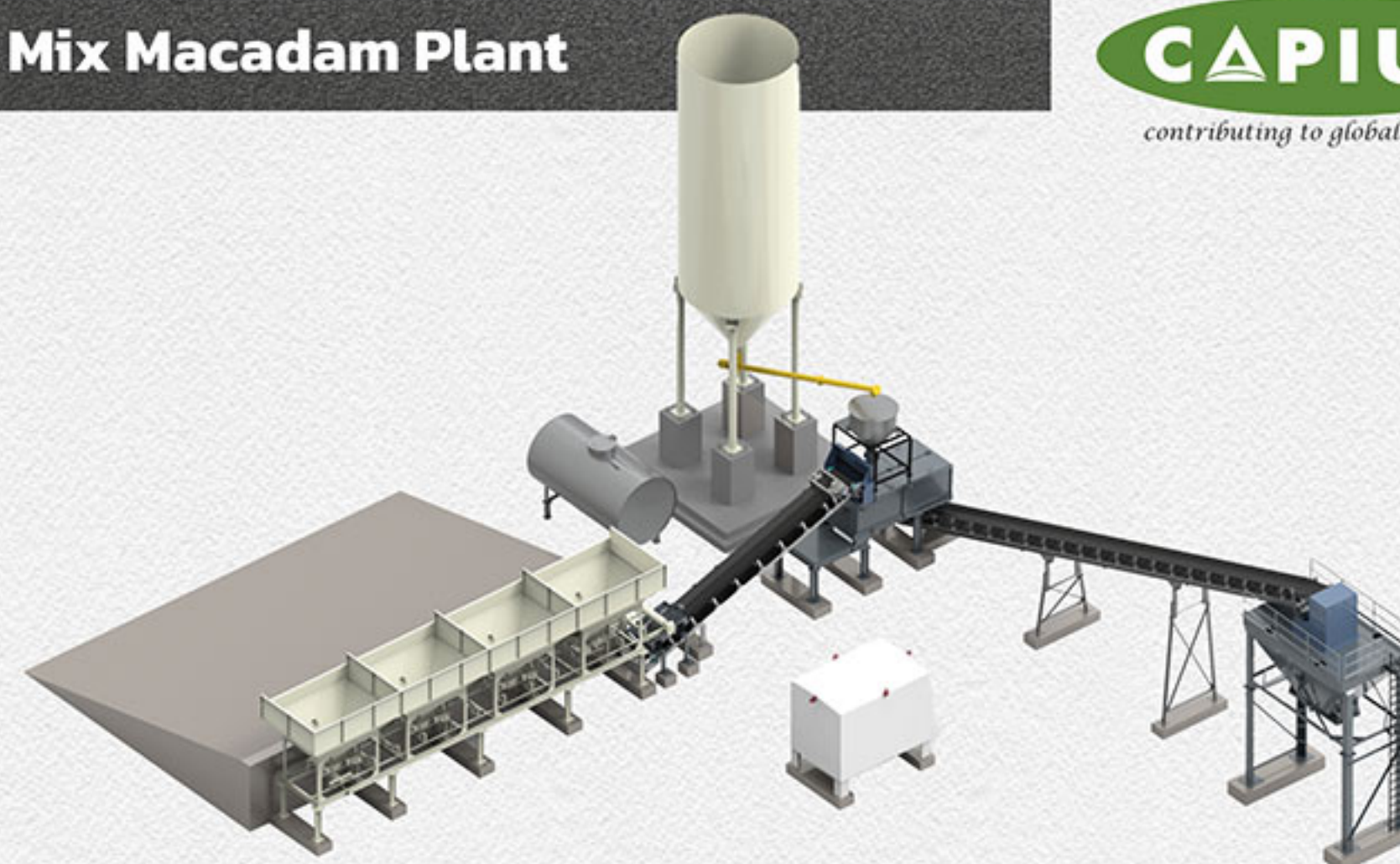
Asphalt Drum Mix Plant



Wet Mix Macadam Plant



Wet Mix Macadam Plant



SCOPE OF SUPPLY

Four Bin Feeders of appropriate capacity for aggregates and other ingredients.

Each bin having independent drive.

Charging conveyor for feeding aggregates and other ingredients to Pug Mill.

Pug Mill with appropriate number of paddles for homogenous mixing of aggregates, other ingredients and water.

Load out conveyor for conveying mixed material from Pug Mill to Storage Silo.

Storage Silo with hydraulically actuated gates for storing mixed material.

Water pump with flow Meter.

Control Panel with printer.

Control Cabin

Optional Items for CTSB arrangement

Cement Surge Hopper fitted with vibro motor and VFD operated Rotary Valve

Cement /filler silo with screw conveyor

SALIENT TECHNICAL FEATURES

Wear registrant alloy steel Ni-hard replaceable and adjustable tips for paddle arms.

Replaceable corrosion and abrasion resistant special alloy steel liner plates for longer life

low power requirement

All conveyor structures are fabricated from heavy duty structure

Better mix and fluent discharge of mix material.

Rugged construction, components of world renowned, precisely engineered for base course application

Uniform mixing and delivery of mixed materials without segregation

Accessories & Controls for all types of additives like cement, lime, emulsion, etc.

Accurate proportioning and blending of aggregates & additives for proper graded materials

MODELS	WMM 160	WMM 200	WMM 250	WMM 300
CAPACITY	160 TPH	200 TPH	250 TPH	300 TPH

COLD FEED BINS

Each bin having independent belt conveying system driven by AC variable speed motors synchronized with load cells for accurate and best weighing of aggregates and is supplied to GTH as per job mix. At the discharge end of gathering conveyor a single deck vibrating screen is provided for oversize removal of aggregates. This arrangement saves fuel and also eliminates overhead chute for disposal of oversize metal. One bin has vibratory motor. The bin shall be supported on sturdy steel structure and loading mouth of 2.76m X 2.20m. The bin shall be loaded by tipper width of 2.44m.

SURGE HOPPER

The surge hopper arrangement allows discharge into trucks without shut down and spillage. Fast acting hydraulically operated clamshell gates open across the entire width of the hopper, preventing segregation of the mix.

PUG MILL UNIT

The twin shaft mixer unit (Pug Mill) design provides fast, continuous and homogeneous mixing of aggregates and additives. The shafts are mounted on extra heavy duty anti-friction bearings for smooth function and extended life. The wear resistant alloy steel selection for paddle arm and wide area of tips ensures a long life. The replaceable paddle arm tips lowers maintenance costs. The liner plates are corrosion and abrasion resistant.

WATER METERING

A self-priming pump, control valve and spray bar with water flow meter for accurate metering. A cleaning arrangement with flexible piping is a thoughtful add on.

STORAGE SILO

The 20 MT storage silo (optional in some models) is rigid, easy to erect and transfer. Fast opening hydraulically operated clamshell gates facilitate quick discharge of mix material into the trucks without segregation.

CONTROLS AND AUTOMATION

The weather protected cabin houses the user-friendly controls that are specifically designed for industrial installations. The logically laid out control panel ensures sequential operation of the various drives and precise process control.

BIN FEEDERS



TIPS



Bitumen Sprayer



SCOPE OF SUPPLY

Fully insulated tank with high efficiency heating system

Air cooled diesel engine and positive displacement gear pump

Design to suit standard truck chassis

Safe and ease of operation

Unique pressure cleaning system

Foldable spray-bar

Automatic burner

PLC control panel

Manual Sprayer

Optional :

Dual Tanks for two different applications

Level Sensor with burner cut off system for safety

ENGINE

Powered by 18.5kw air cooled diesel engine.

BITUMEN SPRAYING PRESSURE

3 - 6 kg/cm², pressurised bitumen spraying.

TEMPERATURE INDICATORS

0 - 300 °C (Analog) scale located on the tank. Digital temperature indicator on remote box.



SPRAY BAR

Standard width 2.4 mtr.

Adjustable extension bar for spraying width up to 4.2 mtr. Nozzle distance 225 mm

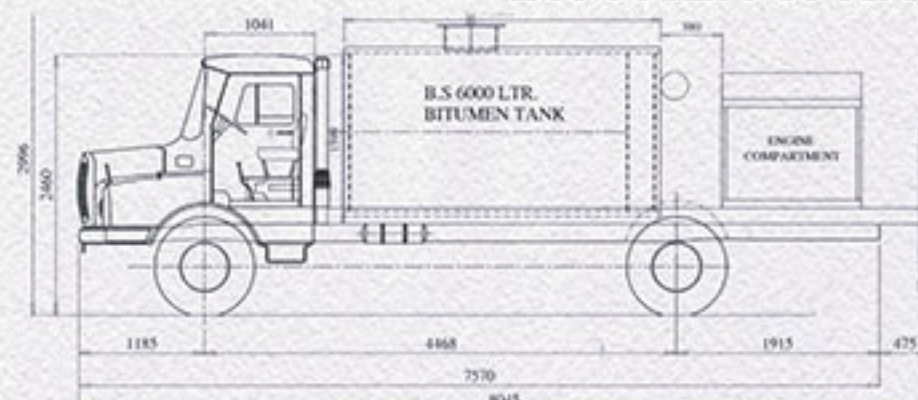
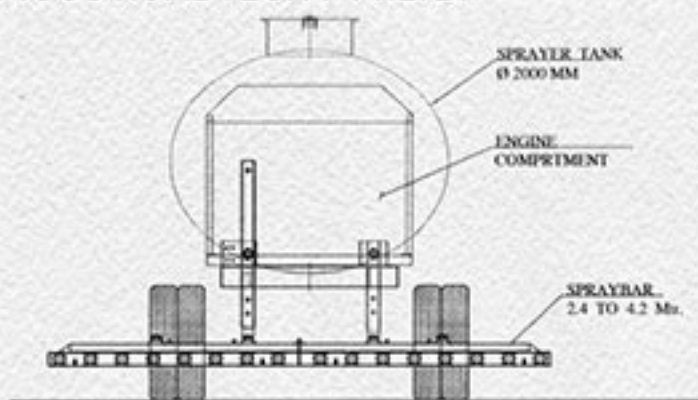
Pneumatically operated nozzle for spray bar controlling.

Bitumen Sprayer



CAPIUS ROADTECH PVT.LTD.

BITUMEN SPRAYER



MODEL	B.S - 4000	B.S - 6000	B.S-8000	B.S-10,000
TANK CAPACITY	4000 LTR.	6000 LTR.	8000 LTR	10,000 LTR
TANK LENGTH	2400 MM	3000 MM	3600 MM	4000 MM
TOTAL LENGTH	4000 MM	4600 MM	5200 MM	5600 MM
WIDTH	2150 MM	2150 MM	2150 MM	2150 MM
HEIGHT	2150 MM	2150 MM	2150 MM	2150 MM
CHASSIS WIDTH	865 MM	865 MM	865 MM	865 MM
FUEL TANK	50 LTR.	50 LTR.	80 LTR.	80 LTR.
WHEEL BASE REQ.	148"	148"	176"	176"
BITUMEN TANK	FULLY INSULATED	FULLY INSULATED	FULLY INSULATED	FULLY INSULATED
SHAPE SHELL	ELLIPSE	ELLIPSE	ELLIPSE	ELLIPSE
THICKNESS	4 MM	5 MM	5 MM	5 MM
SPRAY BAR	FULLY CIRCULATING	FULLY CIRCULATING	FULLY CIRCULATING	FULLY CIRCULATING
TOTAL LENGTH	4.2 MTR	4.2 MTR	4.2 MTR	4.2 MTR
FOLDING LENGTH	2.4MTR - 4.2MTR	2.4 MTR - 4.2 MTR	2.4MTR - 4.2MTR	2.4 MTR - 4.2 MTR
NO. OF NOZZLE	19	19	19	19
DRIVE/ENGINE	AIR COOLED	AIR COOLED	AIR COOLED	AIR COOLED
MAKE	KIRLOSKAR	KIRLOSKAR	KIRLOSKAR	KIRLOSKAR
H.P AT RPM	25 H.P AT 2000 RPM	25 H.P AT 2000 RPM	25 H.P AT 2000 RPM	25 H.P AT 2000 RPM
PUMP	INTERNAL GEAR	INTERNAL GEAR	INTERNAL GEAR	INTERNAL GEAR
POSITIVE DISPLACEMENT INTERNAL GEAR PUMP				
MAKE MODEL	58-80	58-80	58-80	TGGP 58-80
CAPACITY	UPTO 130 CUM/HOUR	UPTO130 CUM/HOUR	UPTO130 CUM/HOUR	UPTO130 CUM/HOUR
COMPRESSORE	SINGLE STAGE	SINGLE STAGE	SINGLE STAGE	SINGLE STAGE
H.P	2 H.P.	2 H.P.	2 H.P.	2 H.P.
BURNER	AUTOMATIC / MANUAL	AUTOMATIC / MANUAL	AUTOMATIC / MANUAL	AUTOMATIC / MANUAL
OUTPUT	1,20,000/46000 K.CAL/HOUR	1,20,000 / 46000 K.CAL/HOUR	1,83,000 /46000 K.CAL/HOUR	1,83,000 / 46000 K.CAL/HOUR

NOTE: Manufacturer reserves the right to change above specifications without prior notice in order to improvement or modifications.

Concrete Batch Mix Plant



STATIONERY TYPE CONCRETE BATCHING & MIXING PLANT

Optional :

Computer SCADA System Software

Cement Storage Silos

Feeding System

Moisture Controlling System

SCOPE OF SUPPLY

Inline Feeder

Weighing Conveyor

Conveyor

Twin Shaft/ Planetary / Turbo Pan Mixer

Water weighing System

Cement Hopper

Control Panel

Control Cabin

MODEL	CS CP - 30	CS CP - 45	CS CP - 60	CS CP - 75	CS CP - 90	CS CP - 120
OUTPUT CAPACITY	30 M ³ / HR.	45 M ³ / HR.	60 M ³ / HR.	75 M ³ / HR.	90 M ³ / HR.	120 M ³ / HR.
MIXER UNIT	TURBO PAN TYPE MIXER/ TWIN SHAFT MIXER					
MATERIAL STORAGE CAPACITY	30 M ³	40 M ³	40/60 M ³	60/75 M ³	90 M ³	100 M ³
MATERIAL WEIGHING SYSTEM	DIGITAL LOAD CELL BASED SEPARATE WEIGHING OF AGGREGATE, CEMENT, WATER AND ADDITIVE					
BATCH FEEDING SYSTEM	THROUGH INCLINED BELT CONVEYOR / INCLINED SKIP BUCKET					
CONTROL PANEL	FULLY AUTOMATIC PLC BASED CONTROL PANEL					
CONCRETE DISCHARGE HEIGHT FROM G.I	4.0 METER FROM THE GROUND PANEL					
TOTAL CONNECTED POWER(H.P)	60 HP	79 HP	105 HP	119 HP	192 HP	275 HP
SUGGESTED DG SET	82 KVA	125 KVA	160 KVA	160 KVA	300 KVA	400 KVA

COMPACT TYPE CONCRETE BATCHING & MIXING PLANT

Optional :

Storage silo for cement / fly ash

Silo accessories

Silo feeding system

Dosing system

Control cabin

SCADA System

SCOPE OF SUPPLY

Aggregate storage bins

Weighing bin and conveyor

Cement hopper

Screw conveyor

PLC base control panel with HMI display

Cement weighing hopper

Water weight system

Air compressor

MODEL	CC - CP 30	CC CP - 45	CC CP - 60	CC CP - 75
OUTPUT CAPACITY	30 M ³ / HR.	45 M ³ / HR.	60 M ³ / HR.	75 M ³ / HR.
MIXER UNIT	TURBO PAN TYPE MIXER/ TWIN SHAFT MIXER			
MATERIAL STORAGE CAPACITY	2 X 2 CROSS BIN FEEDER			
MATERIAL STORAGE CAPACITY	20 M ³	25 M ³	30 M ³	30 M ³
MATERIAL WEIGHING SYSTEM	DIGITAL LOAD CELL BASED SEPARATE WEIGHING OF AGGREGATE, CEMENT, WATER AND ADDITIVE			
BATCH FEEDING SYSTEM	THROUGH INCLINED BELT CONVEYOR			
CONTROL PANEL	FULLY AUTOMATIC PLC BASED CONTROL PANEL			
CONCRETE DISCHARGE HEIGHT FROM G.I	4.2 METER FROM GROUND LEVEL			
TOTAL CONNECTED POWER(H.P)	60 HP	79 HP	105 HP	119 HP
SUGGESTED DG SET	82 KVA	125 KVA	160 KVA	160 KVA

MOBILE TYPE CONCRETE BATCHING & MIXING PLANT



MODEL	CMCP - 20	CMCP - 30	CMCP - 45
OUTPUT CAPACITY	20 M ³ / HR.	30 M ³ / HR.	45 M ³ / HR.
MIXER TYPE	PAN TYPE MIXER/PLANETARY MIXER/ TWIN SHAFT MIXER		
MATERIAL STORAGE SYSTEM	2 X 2 CROSS BIN FEEDER		
MATERIAL STORAGE CAPACITY	12 M ³	14 M ³	20 M ³
MATERIAL WEIGHING SYSTEM	DIGITAL LOAD CELL BASED SEPARATE WEIGHING OF AGGREGATE, CEMENT, WATER AND ADDITIVE		
CONTROL PANEL	FULLY AUTOMATIC PLC BASED CONTROL PANEL WITH INTERNET CABLING		
CONCRETE DISCHARGE HEIGHT	2.1 METER FROM GROUND LEVEL		
TOTAL CONNECTED POWER	40 HP	50 HP	60 HP
SUGGESTED DG SET	62 KVA	82 KVA	100 KVA

NOTE: Manufacturer reserves the right to change above specifications without prior notice in order to improvement or modifications.





CAPIUS GRAVITY FEED CHIP SPREADER

The Capius Gravity Feed Chip Spreader is a simple and cost effective machine for spreading all types of aggregate. This heavy duty spreader features a 1/4 inch thick rigid frame, and a one-piece sliding floor that is adjustable at either end of the unit in 1/2 inch increments to a maximum opening of 4 inches. Individually selectable sliding shutoff gates easily allow 12 inch increments.

Capius Gravity Feed Chip Spreader installs easily to the rear of all standard width dump bodies and doesn't require any hydraulic circuits for operation. The Capius Gravity Feed Chip Spreader is perfect for all your aggregate spreading applications including road building and chip sealing.

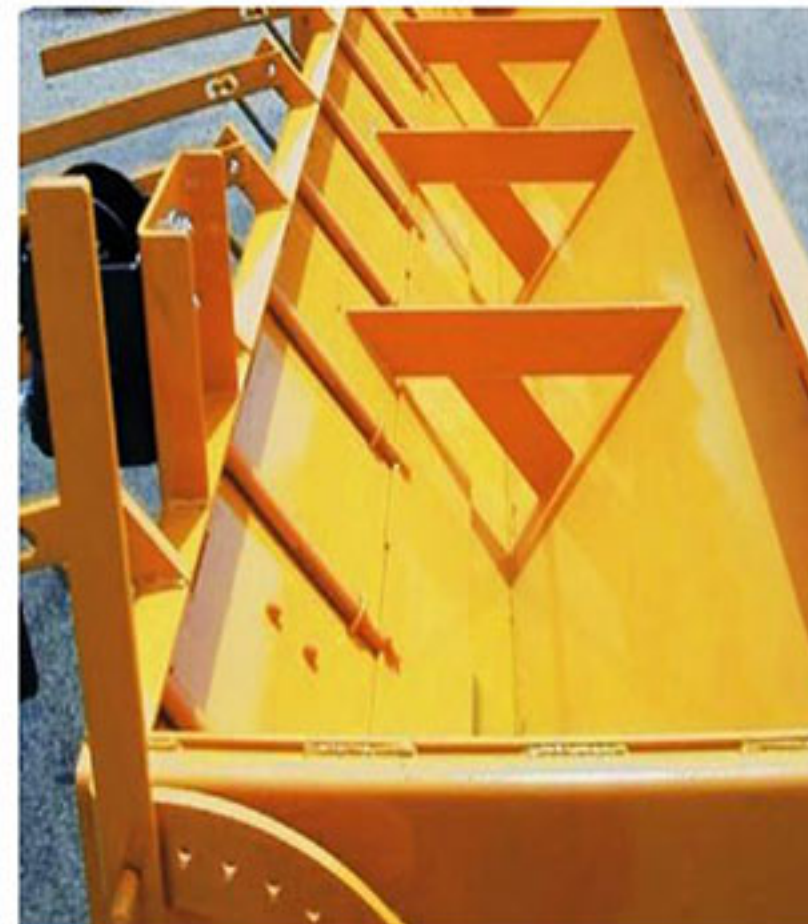
CAPIUS GRAVITY FEED CHIP SPREADER

Available Models

- CR-108 108" Spread width, 9 individual cutoff gates
- CR-120 120" Spread width, 10 individual cut off gates

STANDARD FEATURES

- Heavy duty steel construction with slot and tab design and 1/4 inch thick frame
- Sliding main door allows for application rate and material size adjustment
- Individually selectable shutoff gates allows for spread width to be adjusted in 12 inch intervals
- Easily installs on almost any dump truck with only a chain take up installed on dump body rub rail
- Spreader is easily leveled with dual winches, pulleys, and tailgate hooks
- Spreader has height adjustable self-standing legs for easy storage or transfer between trucks
- Allows material to be distributed evenly with out requiring hydraulic spreader circuits on chassis



	Mechanical Broomer	Hydraulic Broomer
Broom Brush	Nylon 19" Dia.	Nylon 19" Dia.
Sweeping Width	2100mm	2100mm
Drive for Brush	Helical Beval Gear Drive through tyres.	Hyd. Motor, PTO from tractor
2 Heavy Duty wheel	Size : 6 00 12	Size : 6 00 12
Material of Brush	Nylon Bristles/ Iron Bristles (Optional)	Nylon Bristles/ Iron Bristles (Optional)
Dust collection	Left side	Left side
Mode of Operation	Operated conveniently by towing with Tractor or Jeep	Operated conveniently by towing with Tractor or Jeep
Suitability of Utilization	Suitable use for : (1) Metaling • (2) Wet Mix Macadam Surface (3) Asphalted Road Surface Etc.	

