Range of
Concrete Batching Plants
to choose from








POLYTECH

About Polytech

We in POLYTECH Group take up the challenge of globalization and offer Concrete Batching Plants to the professionals of the whole world, manufactured in India to European standards. The Polytech range of Batching Plant series satisfies the highest technical performance demands. Its distinctive modular design concept practically applies an inter-linked component assembly philosophy.

Polytech Concrete Batching Plants has a wide range of design such as Advance series, Vectra series, Dam versions consisting of an effective & optimum combination of Pan Mixers/ Twin Shaft Mixers/ Tilting Drum Mixers. Also an appropriate belt/skip elevator system along with wide range of aggregate storage bin design are offered.

The horizon is clearer for today's forward looking, Concrete Batch Mix producers, because he operates the markets most advanced plant and it is down to earth in profile as its approach.

The specific logic process with mechanically generated fluid bed produce homogenous mixing of Aggregate, Sand, Cement etc. Polytech Mixers meet the requirement of large throughput generation and high quality mixes produced in production oriented batch operation.

Know - How and Co-operation with the Customer

Respect for the Requirement

Polytech are aware that the requirement of each customer is unique. Therefore we offer tailor-made plants geared to the specification, capacity, future needs, automation level, environment, and investment level as specified by the client.

Solutions

Polytech's Engineers interact closely with Customer in order to obtain the best solution. Our flexible and tested product range allows the possibility of updating old plants, building new plants, or supplying single machines.

People and Machinery in Harmony

Technical pride

Polytech has modern production facilities. A large extension of the building has been added recently to secure an optimum production flow.

Our employees manufacture products with superb craftsmanship, precision, and responsibility of function and high quality.

Sub-Suppliers

Specialised sub-suppliers manufacture high quality parts which are controlled in our workshop.

Testing

All parts are surface treated, assembled and tested carefully for operation and quality before despatch to the customer.

Electrical Controls

All our controls are manufactured with approved & standardised components, all of which are of a user friendly design. Our electric controls / cabinets have numbered wires and comply with the European Standards. Complete system drawings, diagrams, and manuals are supplied for your plant.

Contents

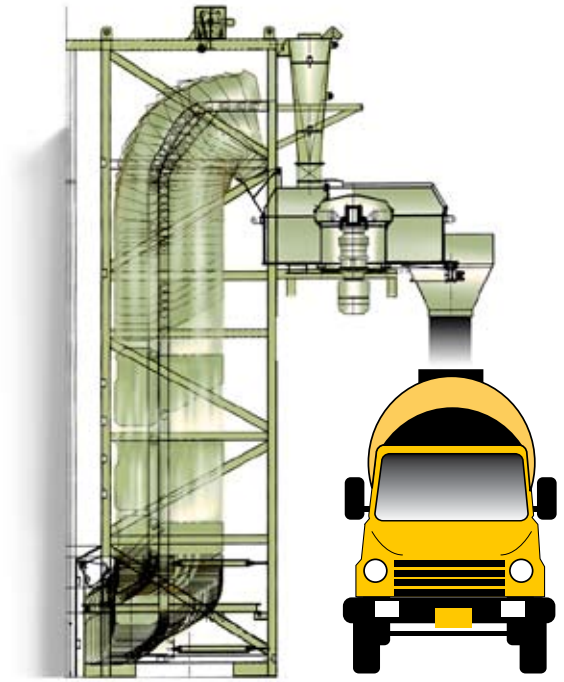
Pacebatch Series

Model : PaceBatch 30 DL/
PaceBatch 30 SCB
Capacity : 30M^3/Hr.

Star type & the radial scraper arrangement in the batching plant facilitates a large aggregate storage capacity, compensating to the irregularity in aggregate supply eventually not affecting the Mixer operation & down time. Reasonable height of partition walls or starbins helps in stocking optimum capacity of aggregates. The discharge opening (batching gate) are located at the bottom in an horizontal plane. This provides a storage angle of partition up to 210° , hence a small floor space is required for a given storage area. The cement silos are strategically placed on either side of the Mixing plant or in the front. Each compartment has a pneumatically operated discharge gate enabling controlled flow of aggregates into the skip bucket. The skip along with weigh frame assembly suspend on load cells provides precise aggregate & sand weigh batching. Feature of dual speed winch drive for the skip bucket reduces mix cycle time.

Specifications

Parameter	PaceBatch 30DL	PaceBatch 30SCB
Outut-M^3/Hr.	30	30
Aggregate Storage	Star Batcher	Compartment Batcher
No. of compartments	4	4
Storage capacity - M^3	200	40
Scraper Radius - mts	10	-
Mixer	Pan	Pan
Mixer Capacity	0.5 M^3	0.5 M^3
Mixer Time - secs	30	30
Cycle Time - secs	60	60
Mixer Motor -kW	22	22
Aggregate Weighing	2 Load cells	2 Load cells
Skip Capacity - lts.	750	750
Cement / Water Weigh Batcher -kgs	500	500
Cement Screw Conveyor -TPH	20	20
Admixture Dosing Pump -LPM	18	18
Controls	Fully automatic	Fully automatic

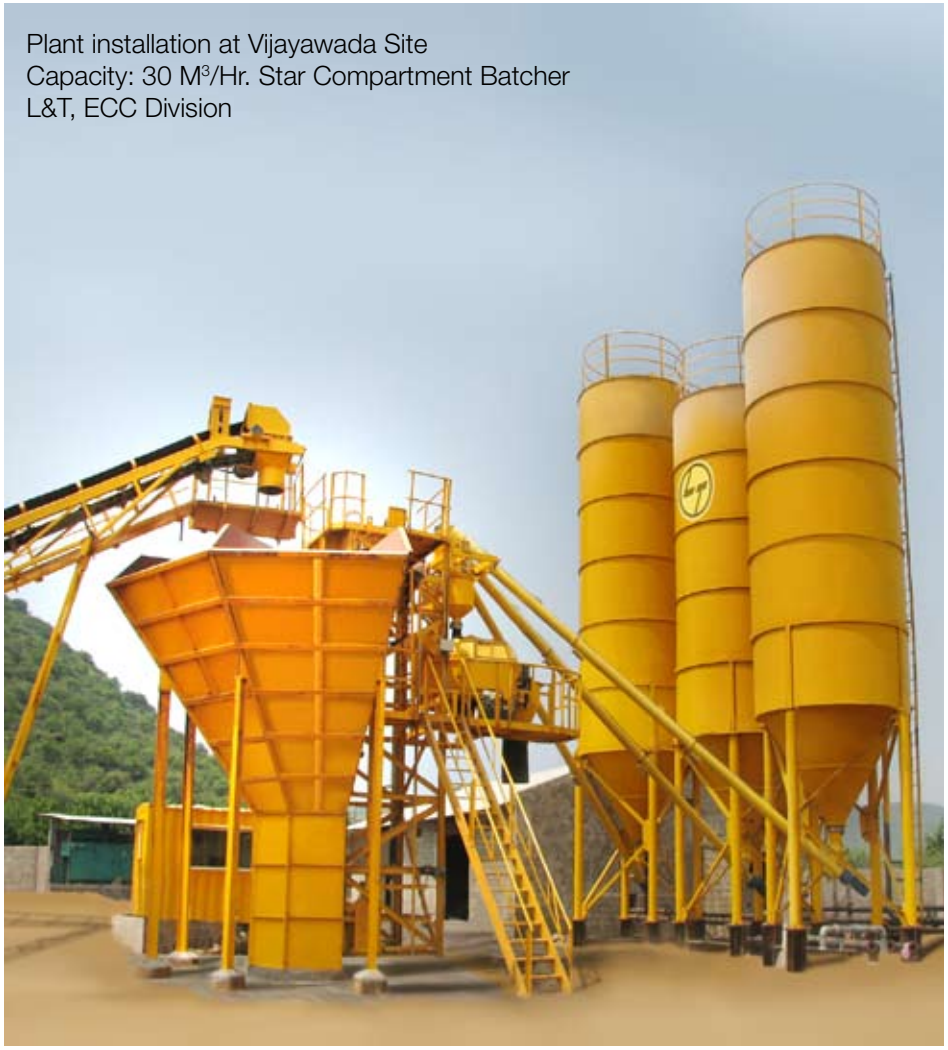


Compact shipment

Space saving

Cost effective

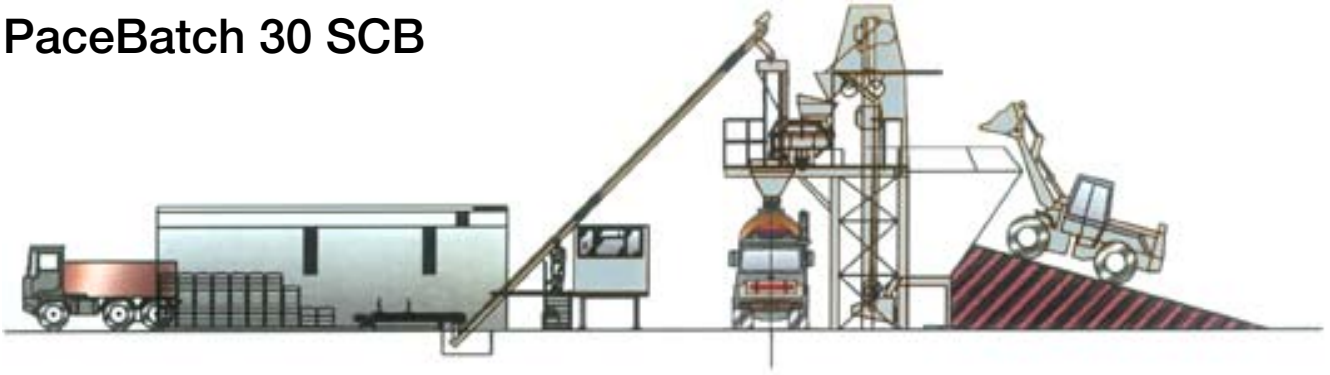
The complete plant comprises of various modules for shipping purposes. The Pan Mixer and the combined cement/water weigh hopper are folded back into the internal compartment of the machine. This facilitates a compact shipping unit within container dimensions.



Plant installation at Vijayawada Site
Capacity: 30 M^3/Hr. Star Compartment Batcher
L&T, ECC Division

⇦ Plant installation at Irrigation project site, Cudappah, A.P
Capacity: 30 M^3/Hr.
SEW Constructions Ltd., Hyderabad.

PaceBatch 30 SCB



Advance Series I

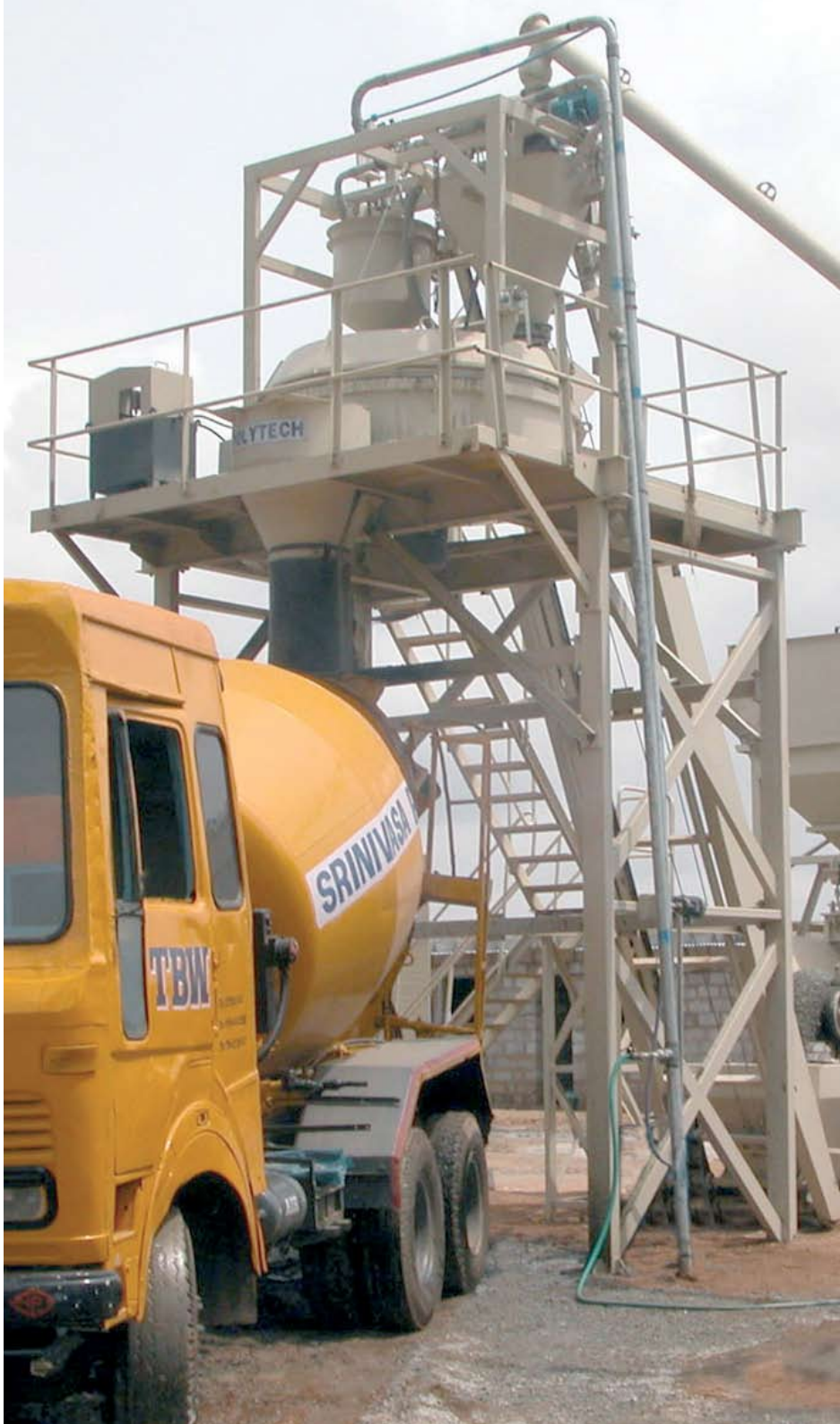
Model : Advance - IP0530
Type : Inline bins
Capacity : 30 M^3/Hr.

Having seen the successful launch of Advance Series, the latest 30 M^3/Hr.. output Advance Series Concrete Batching Plant shares most of its features with the Advance Series and is built on the same robust space frame design. The Advance Series – I offers customers a choice of cement storage options (silos and manual feeding), 4 standard aggregate storage bins and wet, dry or combination batching.

The necessity of a 30 M^3/Hr.. output plant for captive project requirements and start up RMC's having the features and portability of high end plant was strongly felt by the concrete industry to eliminate the shortcomings encountered in the workability of scraper plants. This demand saw the birth of a very innovative scaled down version of our high output Advance Series model and captured the imagination of end users where captive project plants were becoming a requirement.

Specifications

Aggregate storage capacity / M^3	50
Number of aggregate storage compartments	4
Cement Storage capacity / tonnes	Optional
Number of cement Storage compartments	Optional
Aggregate storage facility	Low level bins
Cement storage facility	Remote silos
Mixer	Pan
Maximum aggregate scale rating - kg	2000
Maximum cement scale rating - kg	400
Control System	Automatic
Output/M^3 per hour	30
Plant designation	Skid mounted



Plant installation at ISKCON project site, Bangalore
Capacity: 30 M^3/Hr.
Srinivasa RMC, Bangalore

Advance Series II

Model : Advance - IP1060
Type : Inline bins
Capacity : 60 M^3/Hr.

Based on the hugely successful Vectra Series, the latest high output Advance Series Concrete Batching and Mixing plant shares a high degree of component interchangeability with its parent design. The Advance unit is based on a robust 'space frame' design and is available with an almost limitless choice of cement storage options, 4 to 6 standard aggregate storage extensions (alternative storage extensions available on request), with a choice of feed options and wet, dry or combination batching. The Advance series has already proven popular with many leading Readymix Concrete companies and civil engineering contractors in India, by providing an efficient, competitively priced and versatile unit that requires minimal groundwork and is easy to install. This optimum design will also satisfy today's strict planning and environmental regulations. Standard design features include generous service access, an extensive range of customer options, ease of transport and site relocation, high productivity, precision weighing technology - all from Polytech, India's leading Concrete Batching Plant manufacturer. The plant is driven by the COMMANDbatch Batching Software (Turn to page 29 to know more about COMMANDbatch).

Specifications

Aggregate storage capacity / M^3	60 - 192
Number of aggregate storage compartments	4/5/6
Cement Storage capacity / tonnes	50 - 500
Number of cement Storage compartments	Optional
Aggregate storage facility	Low level bins
Cement storage facility	Remote silos
Mixer	Pan Twin Shaft
Dry batching	•
Maximum aggregate scale rating - kg	3000
Maximum cement scale rating - kg	700
Control system manual	Fully Computerized Batching System with Manual option
Output/M^3 per hour	60
Plant designation	Skid mounted

Plant installation at Bangalore
Capacity: 80 M^3/Hr.
UltraTech CONCRETE Cements Ltd.

Advance Series III

Model : Advance - IT12560/ 16780/ 2090
Type : Inline bins with skip
Capacity : 60 M^3/Hr. to 90 M^3/Hr.

The rise in popularity of Advance Series Plant for commercial RMC's and building projects underwent certain modifications to be launched as a plant with Twin Shaft Mixers. There is a growing demand of Concrete Batching Plants for major irrigation and hydro dam projects where the aggregate sizes are 80 mm and above. The Advance Series – III is the ideal plant for outputs between 60 & 90 M^3/Hr. keeping the basic plant intact only with the replacement of a Twin Shaft Mixer instead of a Pan Mixer. The plant is driven by the COMMANDbatch Batching Software (Turn to page 29 to know more about COMMANDbatch). This plant is also popular with leading commercial Ready Mix Concrete companies who do larger outputs.

Specifications

Aggregate storage capacity / M^3	100-192
Number of aggregate storage compartments	4/5/6
Cement Storage capacity / tonnes	50 - 500
Number of cement Storage compartments	Optional
Aggregate storage facility	Low level bins
Cement storage facility	Remote silos
Mixer	Twin Shaft
Maximum aggregate scale rating - kg	5000
Maximum cement scale rating - kg	750
Control system	Fully Computerized Batching System with Manual option
Output/M^3 per hour	60-90
Plant designation	Skid Mounted

Plant installation at Irrigation project site, Ananthpur, A.P
Capacity: 70 M^3/Hr.
Navayuga Engineering Company, Hyderabad

Compact Series I

Model : SW - CP1056/ CT1060
Type : Compartment Bins
Capacity : 50-60 M^3/Hr.

The latest Compact Series Concrete Batching Plant is based on a robust 'space frame' design facilitating easy transportation. Available with a choice of cement storage options, four standard aggregate storage compartment bins, skip weighing system and integrated cabin. The Compact Series has already proven popular with many leading Readymix Concrete companies and civil engineering contractors in India.

By providing an efficient, competitively priced and versatile unit that requires minimal groundwork and is easy to install. This optimum design will also satisfy today's strict space planning and environmental regulations. Standard design features include generous service access, faster site relocation, high productivity and precision weighing technology. Option of Pan & Twin Shaft Mixers available on this model

Specifications

Aggregate storage capacity / M^3	50
Number of aggregate storage compartments	4
Cement Storage capacity / tonnes	50-300
Aggregate storage facility	Compartment Bins
Cement storage facility	Remote silos
Mixer	Pan (Standard) Twin Shaft (Optional)
Maximum aggregate scale rating - kg	3000
Maximum cement scale rating - kg	700
Control System	Automatic
Output/M^3 per hour	50-60
Plant designation	Skid mounted

Plant installation at Mantri Project Site, Bangalore
Capacity: 60 M^3/Hr.
B. L. Kashyap & Sons Ltd.

Compact Series II

Model : BW - IT 1060/ 16780
Type : Compartment Bins
Capacity : 60~90 M^3/Hr.

The latest Compact Series Concrete Batching Plant is based on a robust 'space frame' design facilitating easy transportation. Available with a choice of cement storage options, four standard aggregate storage compartment bins, belt weighing system and integrated cabin. The Compact Series has already proven popular with many leading Readymix Concrete companies and civil engineering contractors in India. By providing an efficient, competitively priced and versatile unit that requires minimal groundwork and is easy to install. This optimum design will also satisfy today's strict space planning and environmental regulations. Standard design features include generous service access, faster site relocation, high productivity and precision weighing technology. Option of small to medium size Twin Shaft Mixers available on this model.

REVOLVING CHUTE

Revolving Chute for aggregate charging conveyors are available in various capacities depending on the capacity of aggregate storage bins and the location of the ground hopper.

Specifications

Aggregate storage capacity / M^3	70
Number of aggregate storage compartments	4
Cement Storage capacity / tonnes	50-300
Aggregate storage facility	Compartment bins
Cement storage facility	Remote silos
Mixer	Twin Shaft (Standard) Pan (Optional)
Maximum aggregate scale rating - kg	4000
Maximum cement scale rating - kg	1000
Control System	Automatic
Output/M^3 per hour	60-90
Plant designation	Skid mounted

Plant installation at Jaipur
Capacity: 60 M^3/Hr.
RMC India (P) Ltd.

Compact Series III

Model : BW-1060/ 16780
Type : Compartment Bins with Tilting Bucket
Capacity : 60~90 M³/Hr.

Plant installation at Hyderabad
Capacity: 60 M³/Hr. Client: RMC India (P) Ltd.

Specifications

Aggregate storage capacity / M³	70
Number of aggregate storage compartments	4
Cement Storage capacity / tonnes	50-300
Aggregate storage facility	Compartment bins
Cement storage facility	Remote silos
Mixer	Twin Shaft (Standard) Pan (Optional)
Maximum aggregate scale rating - kg	3000
Maximum cement scale rating - kg	1000
Control System	Automatic
Output/M³ per hour	60-90
Plant designation	Skid mounted

Compact Series IV

Model : BW - 167
Type : Compartment Bins
Capacity : 60~90 M^3/Hr.

Plant installation at Mumbai
Capacity: 70~80 M^3/Hr.
The Associated Cement Co. Ltd. (ACC)

Specifications

Aggregate storage capacity / M^3	70
Number of aggregate storage compartments	4
Cement Storage capacity / tonnes	50-300
Aggregate storage facility	Compartment bins
Cement storage facility	Remote silos
Mixer	Twin Shaft (Standard) Pan (Optional)
Maximum aggregate scale rating - kg	3000
Maximum cement scale rating - kg	1000
Control System	Automatic
Output/M^3 per hour	60-90
Plant designation	Skid mounted

Vectra Series I

Model : Vectra - IP1060
Type : Inline bin with Pan Mixer
Capacity : 60 M^3/Hr.

End users have their own opinions about the methodology adapted by a Concrete Batching Plant to produce mix. Be it with the type of Mixer, aggregate handling and feeding or how the batched aggregates are transported to the Mixer. The Vectra Series - I retain all the features of its predecessors but employ a Pan Mixer to produce outputs up to 120 M^3/Hr.. A Vectra plant is different from an Advance plant in the way batched aggregates are supplied to the Mixer. A Vectra plant employs an inclined belt conveyor to transport batched aggregates to the Mixer via a waiting hopper just above the Mixer on a multilevel platform. Option of Chevron belt is provided to reduce distance between aggregate bins and Mixer Tower. The waiting hopper acts as an intermediate holding hopper that increases productivity by holding one batch of aggregates while the Mixer is mixing the current batch. The plant is driven by the COMMANDbatch Batching Software (Turn to page 29 to know more about COMMANDbatch).

Specifications

Aggregate storage capacity / M^3	100 - 200
Number of aggregate storage compartments	4/5/6
Cement Storage capacity / tonnes	50 - 500
Number of cement Storage compartments	Optional
Aggregate storage facility	Low level bins
Cement storage facility	Remote silos
Mixer	Pan Mixer
Maximum aggregate scale rating - kg	3000
Maximum cement scale rating - kg	700
Control system	Fully Computerized Batching System with Manual option
Output/M^3 per hour	60
Plant designation	Skid Mounted

Ahlcon RMC, Bangalore
Capacity: 60 M^3/Hr.

Vectra Series II

Model : Vectra - IT 1060/ 16780/ 2090
Type : Inline bin with Twin Shaft Mixer
Capacity : 60 ~ 90 M^3/Hr.

Metro rails, sky scrapers, shopping malls, I.T. parks and residential townships are the most happening things in Metro cities. The Vectra Series – II plant is a state of art plant to produce larger outputs to meet large concrete requirements for the aforesaid projects. RMC producers are more and more looking towards sophisticated Concrete Batching Plants to show case them in convincing their corporate clients.

The Vectra Series – II are plants built to suit customer requirements in terms of space availability, combination of aggregate storage bins, multiple cement storage options etc., It is essentially a plant with a higher output Twin Shaft Mixer, inclined belt conveyor for batched aggregates, waiting hopper, multilevel batching tower, multiple cement and dozing systems with an advanced batching software to give you maximum accuracies. The plant is driven by the COMMANDbatch Batching Software (Turn to page 29 to know more about COMMANDbatch).

Specifications

Aggregate storage capacity / M^3	100 - 200
Number of aggregate storage compartments	4/5/6
Cement Storage capacity / tonnes	50 - 500
Number of cement Storage compartments	Optional
Aggregate storage facility	Low level bins
Cement storage facility	Remote silos
Mixer	Twin Shaft
Maximum aggregate scale rating - kg	5000
Maximum cement scale rating - kg	1000
Control system	Fully Computerized Batching System with Manual option
Output/M3 per hour	60 - 90
Plant designation	Skid Mounted

Duramix RMC, Bangalore
Capacity: 90 M^3/Hr.

Vectra Series -III

Model : Vectra - IT 30120/40160
Type : Inline bin with Twin Shaft Mixer
Capacity : 120 ~ 160 M^3/Hr.

Plant installation at
Capacity: 120 M^3/Hr.
IJM Concrete Projects Pvt. Ltd.

Specifications

Aggregate storage capacity / M^3	120-160
Number of aggregate storage compartments	4/ 5/ 6
Cement Storage capacity / tonnes	50-500
Aggregate storage facility	Inline bins
Cement storage facility	Remote silo
Mixer	Twin Shaft
Maximum aggregate scale rating - kg	9000
Maximum cement scale rating - kg	3000
Control System	Automatic
Output/M^3 per hour	120-160
Plant designation	Skid mounted

Vectra Series -IV

Model : Vectra - IT60240
Type : Inline bin with Twin Shaft Mixer
Capacity : 240 M^3/Hr.

Plant installation at Delhi Internatinal Airport Project Site
Capacity: 240 M^3/Hr.
L&T ECC Ltd.

Specifications

Aggregate storage capacity / M^3	240
Number of aggregate storage compartments	4 / 5 / 6
Cement Storage capacity / tonnes	50-500
Aggregate storage facility	Inline bins
Cement storage facility	Remote silos
Mixer	Twin Shaft
Maximum aggregate scale rating - kg	12000
Maximum cement scale rating - kg	4500
Control System	Automatic
Output/M^3 per hour	240
Plant designation	Skid mounted

Concrete Batching Plants for Hydro Dams

Model : Dam Series
Type : Vectra Series
Capacity : 120 ~ 240 M^3/Hr.

The Dam Series Plant from the Vectra stables is purely a custom built plant to meet mass concrete requirements for hydro dam construction. It is the ability of the Twin Shaft Mixer to so efficiently handle 150 mm aggregate size in larger percentage, and the throughput the plant feeds to the Mixer, makes it a frontrunner for all dam projects. The plant is typically designed to handle 150 mm aggregate size with 6 storage bins, multiple cement feed options, ice-conveying system to maintain low pour temperature and is driven by dam version COMMANDbatch software (Turn to page 29 to know more about COMMANDbatch).

CONCRETE BATCHING PLANT FOR MASS CONCRETE

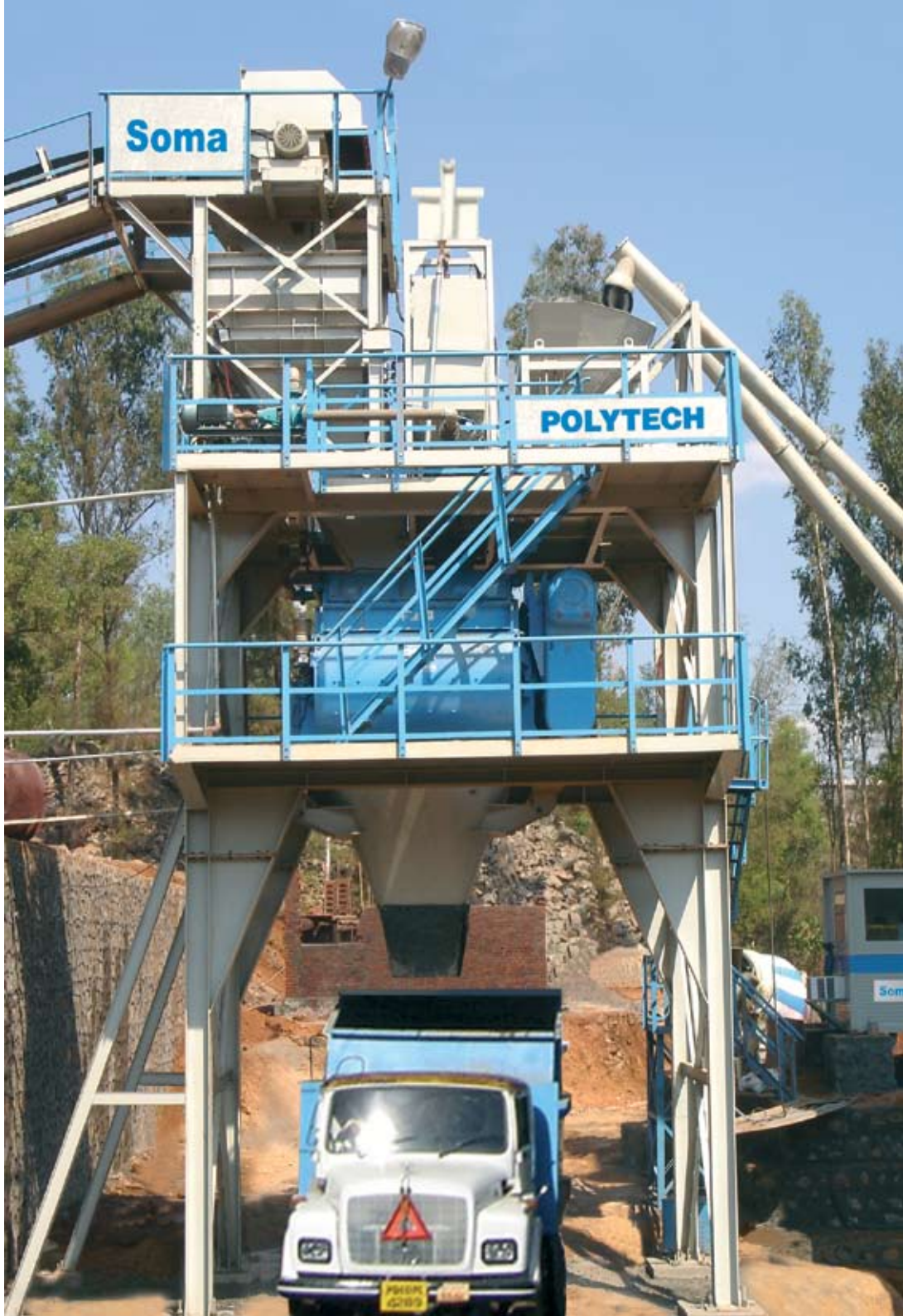
(Aggregate size upto 150 mm)

Polytech Concrete Batching Plant incorporates BHS Twin Shaft Mixer depending on the version chosen (regular or dam version), to process stone sizes upto 150 mm efficiently., important for mass concreting projects such as Hydro Dams & Irrigation projects.

Polytech has successfully commissioned Hydro Dam project for M/s. Soma Enterprise Ltd. for Koyna Dam project in Maharashtra, wherein 150 mm stone size is being used with a 4 M^3 BHS Twin Shaft Mixer. The Twin Shaft Mixer with their 90° mixing arms offers an high degree of turbulence in mixing zones. The replaceable arms and blades are made from high wear resistant material and specifically shaped to provide maximum wear life. Similar plant has been supplied to M/s. Larsen & Toubro Ltd. for their Jindal Dam project site, Chattisgarh.

Polytech have also successfully commissioned similar Concrete Batching Plants for M/s, Navayuga Engineering Co. Ltd., Hyderabad for their two irrigation project sites in Andhra Pradesh wherein aggregates sizes are up to 80 mm.

Mass Concreting requires aggregate storage bins of about 240 M^3 total capacity with 6 storage compartments to accomodate 0-150 mm of Aggregate sizes and sand.

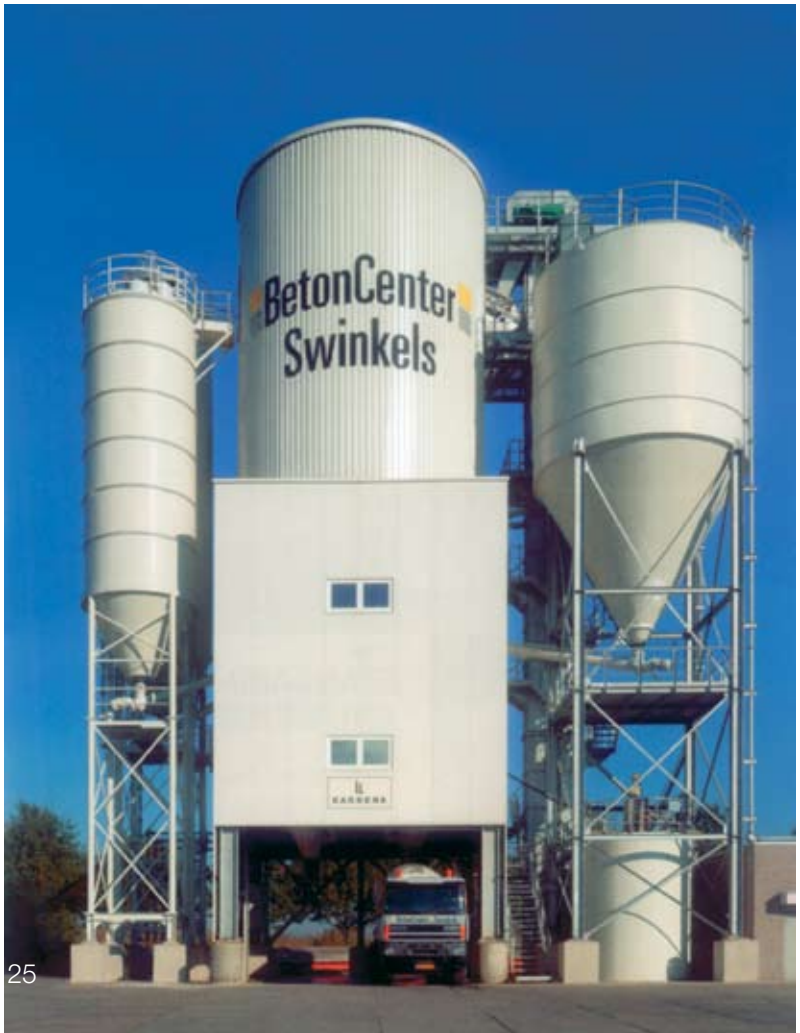


Plant installation at Koyna Hydroelectric Dam project site, Maharashtra
Capacity: 160 M^3/Hr.
Soma Enterprise Ltd, Hyderabad

Tower Plants

Manufactured under license from Karrena Betonanlagen and Fahrmischer Gmbh

Model : Karrena Series
Type : Tower Plants
Capacity : 120 ~ 300 M^3/Hr.



Vertical Batching Plants are an ideal solution for the following requirements:

- High productivity
- Reduced space
- Environmental and Architectural aspect

With these options and with their very high experience in this industry, Karrena have designed the range of Vertical batching plants applying the most modern technologies. These plants are characterized by their greater productivity and functionality. The range includes plants of different sizes according to the required output for production of Ready-Mix Concrete.

Silos for aggregate storage

It is cylindrical silo, characterized by:

- Rationality of aggregate flowing
- Elimination of all the aggregate residue thanks to its shape (sometimes in large quantities)
- Easy conveying into the weighing hopper even in the presence of a large number of aggregates
- Possibility of conveying the water coming out of very moist aggregates into collecting areas; it is indispensable to collect the water both for carrying out high-quality batches and for the environmental respect and cleaning
- Simple assembly: the silos are constructed by galvanized modular panel (both the cylindrical part and the truncated cone) of suitable dimensions in order to facilitate easy transportation and assembly: all the panels are of 2 meters height in order to allow a quick and safe assembly on ground, thus avoiding the use of scaffolds and cranes
- Easy maintenance: in the lower truncated-cone part where the extracting mouths are positioned, a crawl space (one for each compartment) allows the internal maintenance
- Sturdiness of the pneumatically operated extracting mouths


City
BETON

Transit Mixers

Manufactured under license from Karrena Betonanlagen and Fahrmischer Gmbh

Model : Transit Mixers
Capacity : 6.0 ~ 10 M^3

Karrena - tradition and 100 years of experience...

Karrena Betonanlagen und Fahrmischer GmbH is a company with a long history and almost a hundred years of experience with Mixers for Ready-Mix Concrete. Even before the first cars were seen on the roads, Karrena, then known as Rex, was already building concrete-mixer mounted on horse-drawn carts. This was followed by a legendary self-propelled mixer. The Know-how at Karrena's disposal today, which has made them a world leader in Transit Mixer production, was built up on the basis of this experience and many years of close cooperation with the operation of Concrete-Mixers.

Karrena uses the most advanced production processes available and their Mixers are manufactured and fully assembled at their Gelsenkirchen plant. As a result Karrena are in a position to meet virtually all the special requirements of customers with respect to Mixer equipment at very short notice. The standard range includes drums with closely spaced volumes ranging from 4 to 15 M^3 and the Mixers can be installed on all popular types of chassis approved for use with Concrete-Mixers.

Karrena pays special attention to design details. After all, a chain is only as strong as its weakest link. Our approach includes conscientious selection of the steel grades best suited for the purpose and the design of a frame fit to meet all the requirements of durability and safely under harsh six conditions.

Short-delivery times, expert service and technical innovation have made Karrena a market leader. Karrena Concrete-Mixers are not only used throughout Europe but are also exported to regions such as Africa, where sturdiness and low maintenance requirements are especially important.

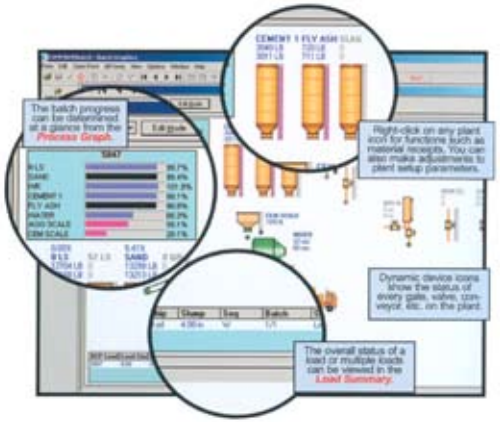
Polytech, now manufactures and supplies Karrena Transit Mixers in India under licence from Karrena.


READYMIX
Readymix
Zeichen
für Leistung
MAN

COMMANDbatch

World's # 1 Windows® based Concrete Batching System

Welcome to the world of Windows® based batching with COMMANDbatch, Command Alkon's Integrated solution to batching in the 21st Century! COMMANDbatch combines the best of both worlds: the accurate calculations and internal controls provided by Spectrum, the leading batch control system on the market, and a Windows front end that makes system and plant configuration easier. Couple this enhanced control with the power of Microsoft's SQL Server® and its robust database management features, and you have a batch control system unparalleled in the construction materials industry.



REMOTE CONTROL

Do you have a remote plant that just doesn't do the business of your other high volume plants? With COMMANDbatch simply have your batch person remotely start-up the conveyors, bins and hoppers at your remote plant, have a driver pull through, load the truck and then shut the plant back down. Also, with the COMMANDbatch Remote Access and Mix Manager features used together. Quality Control personnel can update mix designs from any network enabled location and distribute them enterprise wide with a click of the mouse.

REPORTING

COMMANDbatch comes equipped with standardised reporting procedures common to all ready mixed plants. Standard reports include: *Consolidated Order Report, Ticket Summary Report, Materials Inventory, Tickets by Customer Summary,* as well as many others. Need a special report? With COMMANDbatch's built-in Report Writer you can create customised reports specific to your needs. Don't worry. It's easy.

SECURITY

COMMANDbateh is designed with a superior security model that requires user access via encrypted passwords and allows you to configure *Delete, Edit, Execute, Insert, Read, Update and Bulk Update* privileges. All data modifications are time stamped with the user name, allowing for better auditing of changes to key information such as Mix Designs, Materials, Customer Files, Pricing and Inventory Adjustments. If a manual batch occurs, the event is stored with the time, date, material amounts and the load that was affected.

TOUCH SCREEN

The COMMANDbatch touch screen is designed for those in fast-paced work environments that need to batch orders without needing to enter lots of information. The touch screen layout is designed for quick and easy access with large BATCH, TRUCK, MIX, PRODUCT and OPTIONS buttons at the bottom of every screen. Move tickets up and down on-the-fly depending on priority, assign colors to certain products that are in your mix, adjust your mix design or view truck information such as discharge rates all by tapping on one of the buttons at the bottom of your screen.

HELP DESK INTEGRATION

With Help Desk Integration you can be connected directly with the friendly and knowledgeable service professionals at Command Alkon with just a click of the mouse. Just type in your question or problem and our support personnel can connect to your machine remotely on a secure connection. A chat window will allow you to talk to our service professional as they diagnose your problem or answer your question. Or, if you would still like to call us, our 24 hr. Call Center is standing by.

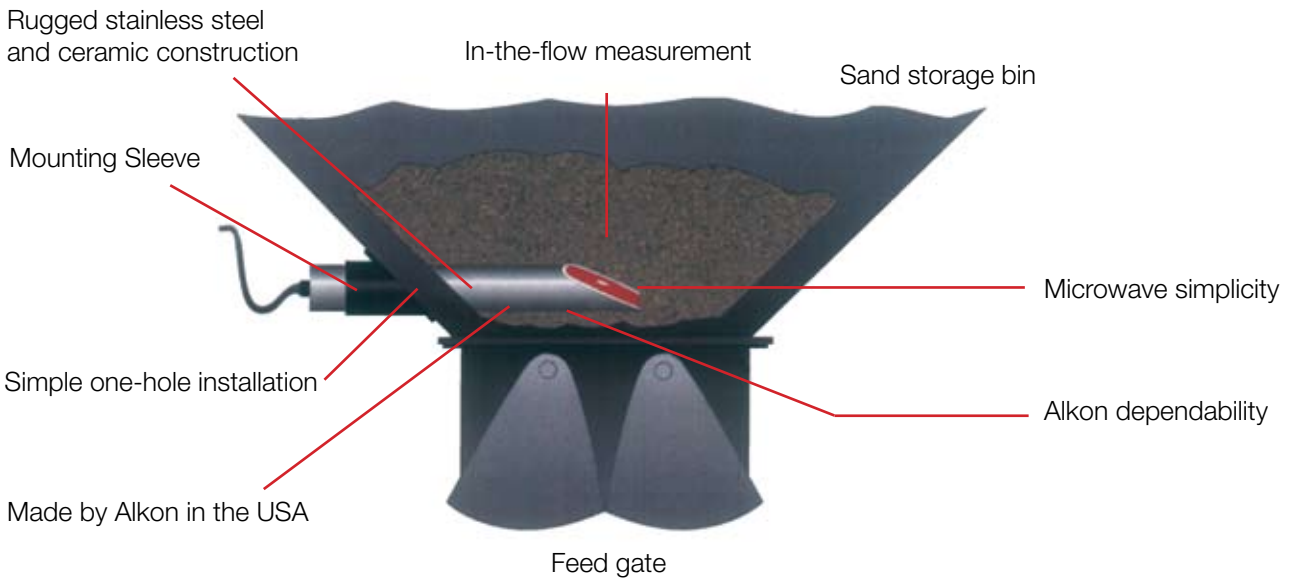
Moisture Probe

The Alkon Moisture Probe uses microwave technology to measure content in fine aggregate. A continuous field of microwave energy is directed outward from the bevel end of the probe. This permits the probe to be mounted directly through a steel bin wall, without the measurement being influenced by the steel.

Microwave energy is absorbed by moisture in the material in direct proportion to the moisture present in the material. The probe measures this amount of absorbed energy and converts it to a moisture value.

The moisture probe is available as an option to Alkon's Spectrum and Sprint batch systems. It is also available as an independent freestanding unit.

TYPICAL INSTALLATION OF MICROWAVE PROBE



Mixers

Capacity : 0.5 ~ 9 M^3

Twin Shaft Mixers from BHS-Sonthofen GmbH

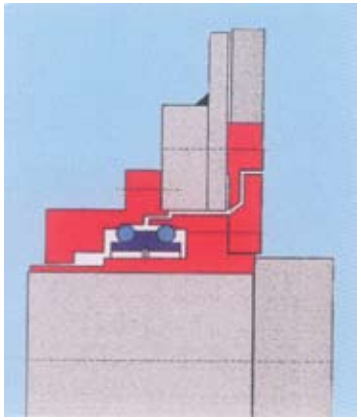
After only 15 seconds of mixing, the BHS Mixer reaches 85% of the maximum mix quality, and after further 15 seconds 95% of this figure is achieved. Many mixing cycles per hour are possible as a result of these short-mixing times. The constantly high mixing homogeneity of the BHS Mixer guarantees the essential qualities of each batch (high compressive strength, constant slump etc.,)

BHS MIXERS

- Twin-Shaft Batch Mixer
- Twin-Shaft Continuous Mixer
- Single-Shaft Continuous Mixer

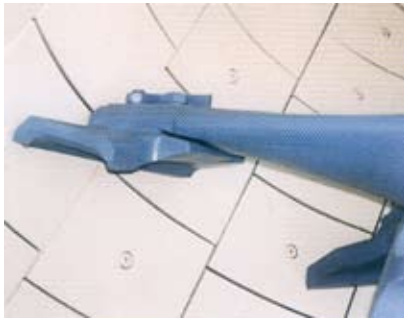
Compact Design
The compact design has the advantage that the BHS Twin-Shaft Mixer takes up only a small amount of floor space in your plant. This reduces capital expenditures and Is helpful when retrofitting existing concrete plants.

Shaft Bearings
On the BHS Mixer the shaft hearings are intentionally separated from the shaft sealing. In the unlikely event of a shaft sealing failure, the bearings will not get damaged. Furthermore, the sealing is easily accessible for maintenance.



Shaft Sealing
The mixing shafts of the BHS Twin-Shaft Mixer are sealed by reliable axial face seals. All parts are easily accessible and changeable. With just a small amount of routine maintenance the seals will resist even toughest operation conditions.

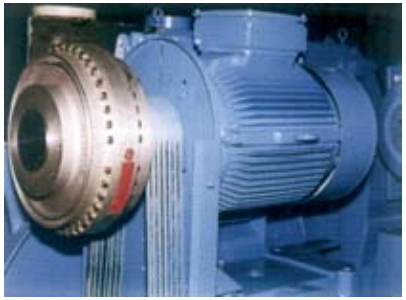
Spiral Mixing Shafts
As standard, BHS Mixers are equipped with a high-quality hexagonal shaft with optimal torsional and flexural strength. The hexagonal shaft makes it possible to arrange the mixing arms In a spiral shape, thus achieving excellent mixing results.



Mixing Arms
The mixing arms of the BHS-Mixer are made of special cast iron in a streamlined design. The arm profile promotes a horizontal transport of the mix. Adherence on the mixing tools is minimized to save cleaning costs. Modular design of the mixing arms allows individual replacement. If needed, additional wear protection is available.

Rhombus Tiles
Lining the mixing trough with rhomb-shaped tiles increases the service life up to 30% when compared to conventional rectangular tiles of the same material. This reduces maintenance costs.

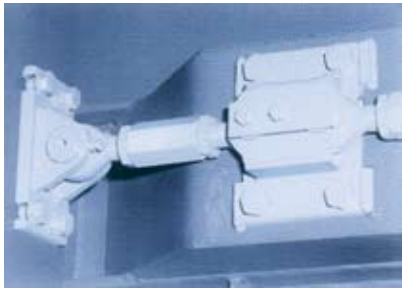
Discharge Door Operation
Depending on the mixer size, the discharge door of the BHS-Mixer is operated by 2 or 4 pneumatic (or, if wanted, hydraulic) cylinders. The design ensures reliable operation of the discharge door.



Turbo Coupling
The hydrodynamic coupling ensures smooth starting of the mixer, even under full toad. This feature also reduces the effect of mechanical shocks. We recommend this option for heavy-duty applications.

Worm Gear Reducers
The two heavy-duty worm gear reducers are custom designed for the BHS-Mixer. They are dimensioned for a long service life and have an excellent efficiency of more than 92%. Even shocks from sudden feeding or full-load restart can be easily absorbed.

Discharge Door
The discharge device of the BHS-Mixer is designed as a cast round-body door. It is distinguished by robustness and simple sealing. For optimum truck mixer feeding, it can be opened in several different stages. For special applications oversized doors are available to speed-up



Torque Support
The torque support can be adjusted to ensure parallel alignment of the synchronous coupling. This allows a free suspension of the mixer drive and reduces extensive loads on the gearbox bearings.

Synchronous Coupling
An elastic coupling between the two worm gears ensures synchronisation of the two mixing mechanisms. This flexible coupling is maintenance-free.

Pan Mixers

The extra intensive mixing action is achieved using a single main drive motor and a unique power transmission system smoothly delivers maximum power to mixing tools and high intensity rotor blades with highest efficiency and economy.

Compact design, ease of maintenance, low operating costs and continuous development ensure Polytech Mixers continue to set the Industry Standard for reliability and performance.

Various types and qualities of abrasion resistant materials can be supplied to protect Mixer floors and all mixing and scraper arm suspensions and adjustment components. The high intensity rotor transmissions are located inside and below the dust tight rotor housing. Two part mixing arms and outer scraper arm are spring loaded to prevent damage to Mixer and mixing blades. Mixer and scraper arms are adjustable both vertically and horizontally.

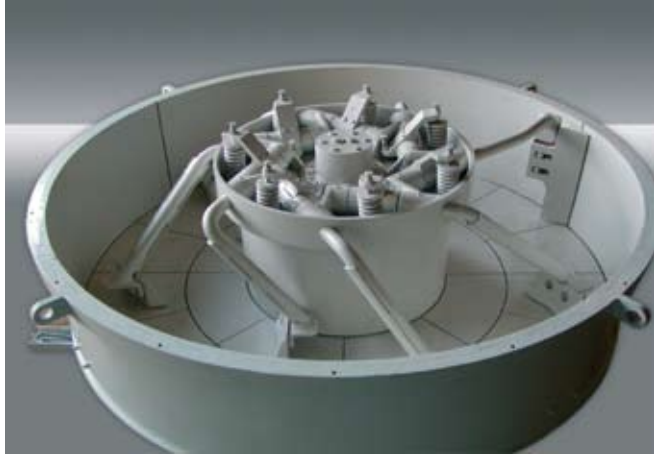
Mixing blades, wall scrapers and mixing arm guards are available in a variety of materials with different abrasion resistant properties to suit the various qualities of aggregates and mix materials ensuring maximum operational life.

Mixer discharge is controlled hydraulically. A hydraulic pump driven from a PTO on the main drive gearbox delivers oil at high pressure via an oil filter and solenoid valve with pressure relief valve to a rotary hydraulic cylinder integral with the discharge casting.

The technically advanced hydraulic discharge system provides smooth operation and a fast clean discharge for reduced mix cycle times. Emergency discharge hand pumps are supplied as standard on all models.

Mixer drives comprise a multi stage heavy duty planetary gearbox with under pan mounted single main drive motor with thermistor overload protection.

High intensity rotor drives are fully protected through manually resettable heavy duty clutches and are driven from a fixed internally cut gear ring with spur gear drive to bevel gearboxes with cardan shaft final drive to high intensity rotor shafts.



Drive options include electronic smooth start control or hydraulic turbo coupling allowing emergency start up under load.

- Long Service Life
- Smooth Start
- Safe compact discharge design
- Emergency manual discharge facility
- Proximity limit switches control opening







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