



**Acknowledged Leadership
in Technology**

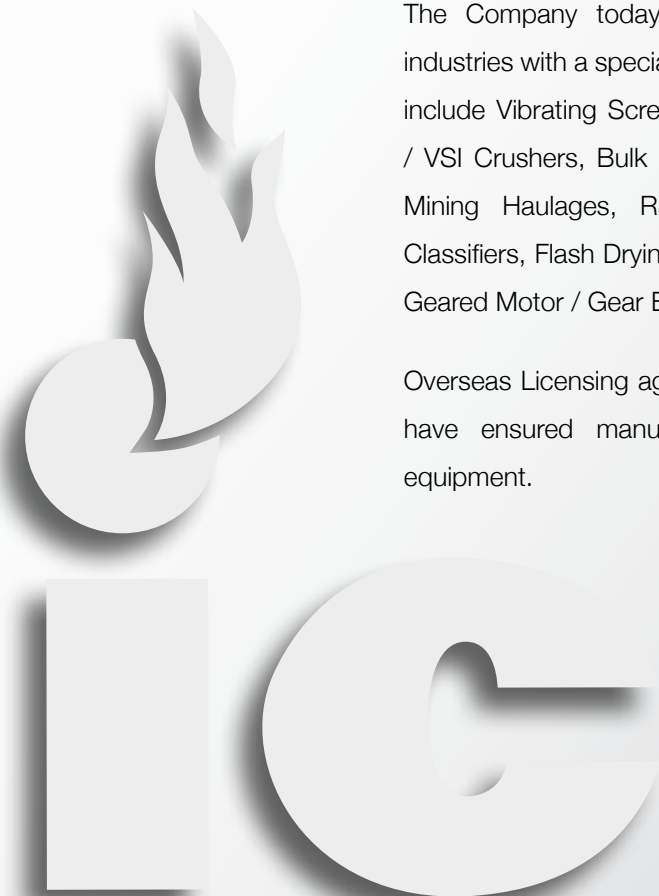
International Combustion (India) Limited

Acknowledged Leadership in Technology

International combustion has produced a highly diversified range of products which has continued to expand to the present day.

The Company today serves all the major core industries with a specialized range of products which include Vibrating Screen and Feeders, Cone / Jaw / VSI Crushers, Bulk Material Handling Equipment, Mining Haulages, Raymond Grinding Mills, Air Classifiers, Flash Drying systems, Rotary Dryers and Geared Motor / Gear Boxes.

Overseas Licensing agreements with Global leaders have ensured manufacture of premium quality equipment.





A Partner You Can Trust

Economy is of top priority in the face of fierce competition in today market. IC's products are characterized by high availability, low operating costs and energy consumption and protection of the environment.

High quality products and continual search for peak technical performance, IC's strong Marketing and Service organization spread over the country assures quick and direct contact with customers during all phases – consultation, contractual negotiation, followed by execution, and after sales service.

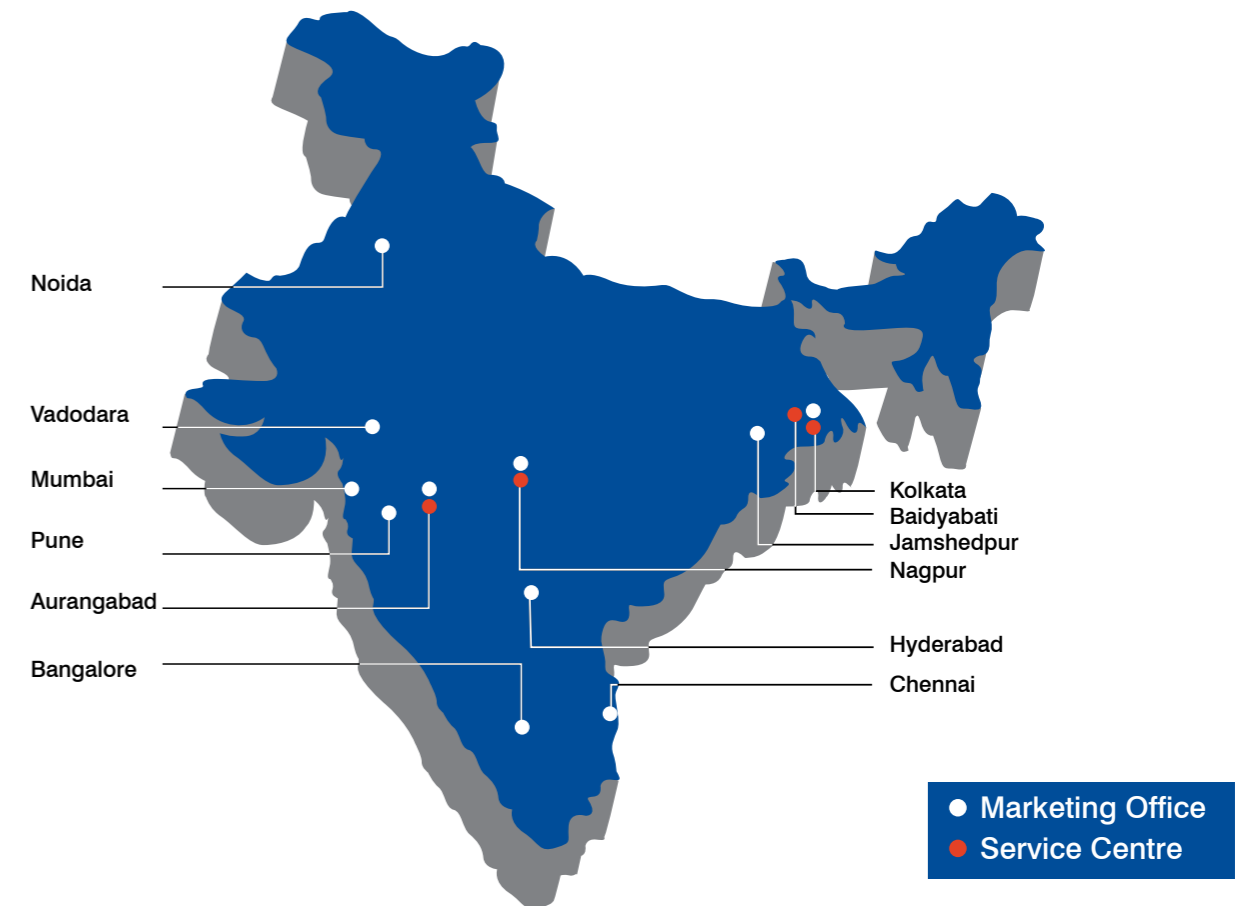
Concept to Completion



Quality Management System Certified
ISO 9001:2008



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Kolkata Factory



Nagpur Factory

Manufacturing Facility-Heavy Engineering Division



In the Raw Materials Industry

Even the largest lump will not disturb the performance of an IC Vibratory Conveyor, Feeder and Screen.

IC Vibrating Equipment with are used for handling all types of bulk solids to be discharged from bins, fed to process, or sized.

In Metallurgical Plants, in Coking Plants, In Cement, Lime and Gypsum Plants, in Quarries and Crushed Stone Plants, in Ore Mining, in the Fertilizer Industry, in Recycling Operations.

IC Vibratory Conveyors, Feeders and Screen control all type of bulk solids, whether large lumps or very fine grains, whether wet or dry, whether ore, scrap, flux or hot sinter.

In the Coal Industry

IC equipment have proven themselves in the coal industry under extreme conditions in the preparation, handling, screening, desliming, dewatering, drying and cooling of the material.

Circular Motion



Linear Motion Screen



Sinter Screen 3.5 x 8.5 m

- Economic Operation of Blast Furnaces

Linear Motion Screens for Sinter, Pellets and Coke.

- Crusher Feeding at Cement Plants

Heavy duty crusher relief screen for limestone with edge lengths up to 1500mm.

Omni Screen

Omni Screen - Omni Screen's unique vibrating assembly and modular concepts have resulted in a linear movement screen that can operate at substantially higher acceleration providing unparalleled flexibility and metallurgical performance.

- Benefits: Higher Capacity
- Excellent screening efficiency
- Large screen deck area
- Reduced building costs
- Lower installed power
- Simplified installation
- Increased profits

- Distribution of Cement Clinker to various Bins

Vibrating Conveyor, above nest of bins, fitted with multiple remote-controlled intermediate outlets.

- Smelting Furnaces

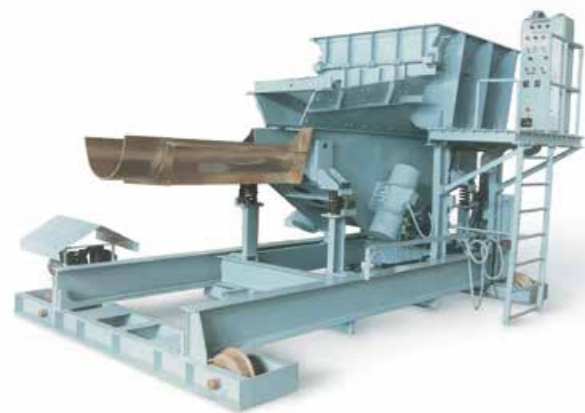
Mobile Vibrating Feeders up to 6000 mm long x 3500 mm wide, travelling length and crosswise to feed smelting furnaces.

- Underground under hardest stress

Vibrating discharge feeders at ore mines feed largest lumps having edge lengths over 800 mm.



OMNI Screen



Furnace charging Feeder with long and cross travel trolley



Linear Motion Feeder with Vibro Bar Sizer

In the Foundry Industry

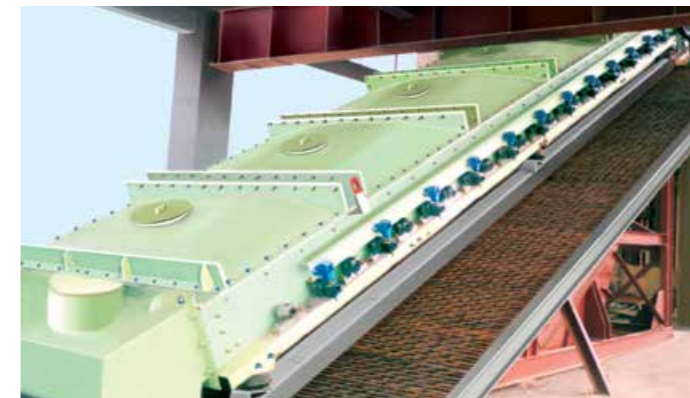
IC equipment handle highly abrasive castings at high temperatures; separate castings from sand; cool, screen, and recondition foundry sand.

Rock and Gravel Industry

Classical field of application for Vibrating Screens sizing and washing.

FLIPOMAT Flip Flop Screening Machines

Totally new solution for screening moist and fine material such as Minerals, Coal & Coke, Ores, Chemicals, and similar hard to screen materials. The flipping screen panels operate at 30 G or higher thus prevent blinding of screen panel apertures.



FLIPOMAT Mk I



FLIPOMAT Mk II



Mechanical Vibrating Feeder 2.5 x 7.0 m



Electro Magnetic Feeders

A world renowned multi deck screening machine with separation range 0.1 to 50 mm for almost all types of materials and slurries.

It is a blockage free compact construction, low weight, dust proof and easy to install device with adjustable inclination/amplitude and frequency.

It features automatic deck cleaning, remote mesh tensioning and integrated feeding system.



6 Deck Sizer for Sugar Grading

Fine Screen Sizer 2000

The Sizer 2000 is a fine grain screening machine designed for a separation range of 0.1 to 5.0 mm, including difficult-to-screen materials.

The system comprises a maximum of three screen mats arranged one above the other and vibrated by the impart bars. The impact of beating keeps the screen mats free from sticky materials and also helps transport bulk materials. Each beater arrangement is driven by two Unbalance Motors. The Unbalance Motors generate an oscillating motion in the beater shaft and the screen mat is vibrated from the bottom.

The impact of bearing at very high acceleration results in rapid stratification of the material. The screen frame itself remains almost static, thereby avoiding transmission of dynamic forces to the support structure.



Type NE with stainless steel feed and discharge chutes

For Vibrating Screening Machines

IC offers a wide range of highly wear resistant screen decks in Polyurethane and Rubber with embedded steel reinforcement.

Wet or dry applications include scalping, load relieving, sizing, washing and dewatering.

The selection of the correct screening media is essential for optimum performance and IC provides comprehensive technical service to ensure the right selection against specific application requirements.

Rubber Screen Decks are available as moulded (hot vulcanised) or as punched decks, whereas PU decks are generally in cast form.

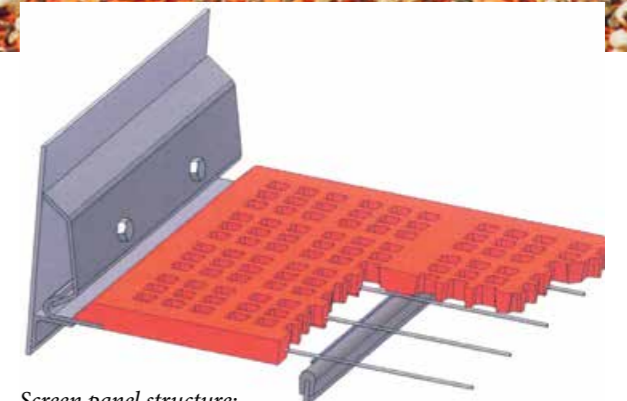


Rubber Screen Deck for Iron Ore Scalping



A Wide Choice of Fastening Methods are available

- Clamp on system
- Tensioned decks
- Flat screen decks



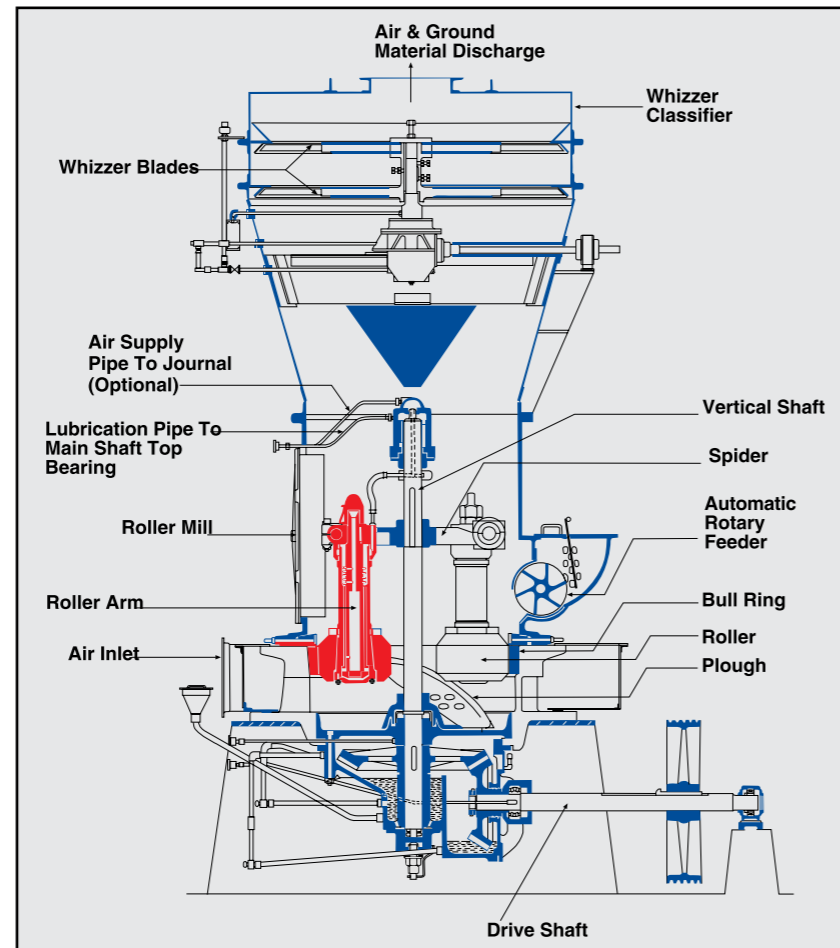
Screen panel structure: cable and spring steel reinforcement absorb the tensioning forces

Raymond Roller Mill

Complete Grinding Mill systems designed to dry (optional), pulverise and classify various different kinds of materials including non-metallic minerals, fertilizers, chemicals and many other manufactured materials.

Available in a range of 5 standard sizes, the system includes Feeder, Classifier, Fan, Cyclone and Dust Collector.

Range of product fineness is between bulk passing 60 mesh up to 300/325 mesh and capacities from a few hundred kgs per hour to 15/20 MTPH depending upon the product fineness and feed material grinding characteristics.



Raymond Roller Mill - Typical Construction Feature (Arrangement Varies With Mill Sizes)

Vertical Mill

For grinding material to extreme fineness 95%-90% passing 15/20 microns and even 99% or finer than 5/10 Microns.

Applications include talc, cocoa powder, kaolin, colours, graphite, sugar, pharmaceuticals and food products.



Roller Mills System with flash drying



Roller Mills Grinding Barite

Drying and Grinding

A high velocity air stream dryer with average inlet temperatures of up to 1300°F. May be used in system with Roller, Imp or Cage Mill for disintegration of product. Also available with dispersing feeder for deagglomeration without disintegration. Handles filter cakes and slurries with 90% moisture content.

Raymond Impax Pulverisers

High speed air swept Hammer Impax Pulveriser designed for fine and medium fine and medium fine grinding of soft and non-metallic minerals, chemicals, food products, insecticides, pigments, wood chip, sand and many other materials.



Raymond Impax Pulverisers

The cone series OC Crushers are robust equipments which ensure high productivity, low operation cost and longer useful life than other similar Crushers.

The body of the cone crusher is constructed of ASTM A216. It's crushing chamber consists of two basic elements; the concave linings and mantle (wear parts) - fabricated with austenitic manganese steel and mounted in a simple way keeping in mind easy replacement when required.

The overload system for non-crushable materials works through hydraulic cylinders and hydro-pneumatic pressure accumulators. Due to ample space within the chamber the cleaning of the equipment is simple (to remove obstructions) thus reducing stoppage time and increasing the productivity and dependability.

Model:

- OC 1000
- OC 1350
- OC 1500



CONE CRUSHER TYPE OPC



Regulation of opening of the equipment is done through an automatic hydraulic motor, making it possible to make fast regulation through electrical buttons in the control panel.

The crushers are provided with two hydraulic units, one for lubrication and the other for commands.

An electrical control panel operates the entire hydraulic system for lubrication and assures safety against abnormality of the system. Whenever there is some abnormality in the system, there is an alarm signal and the equipment is disconnected automatically.



OMNI Jaw Crushers

OMNI Crushers are robust equipment with high durability, designed with high quality raw material.

Housing of ASTM-A 36 electrically welded, heat treated and stress relieved, with fly wheels balanced at elevated inertia. Symmetrical chambers ensure interchangeability of wear parts with fixed and moving jaws of high manganese steel.

MODEL	OPENING SIZE
OM 9070	900 X 700
OM 10080	1000 X 800
OM 11090	1100 X 900





OMNI Roll Crushers

OCR 0810 80 wide x 100 dia

OCR 1610 160 wide x 100 dia

OCR 1215 120 wide x 150 dia

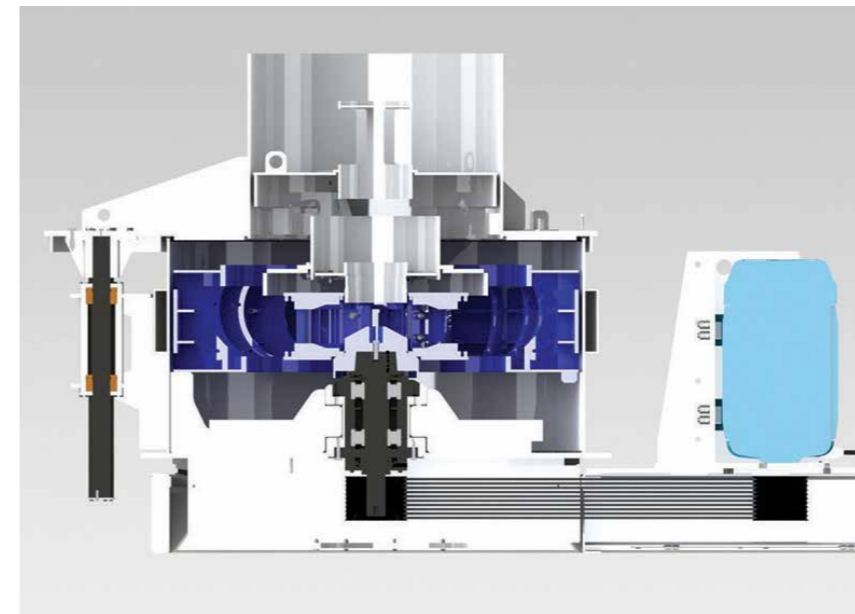
Available with toothed and plain rolls

For Coal, Coke, sticky and clay material



OMNI Vertical Shaft Impactor

Omni VSI outperforms other crushing machines, with its versatility of uses optimized operation, ease of installation, smooth operation, reliability and yield. Product quality within specifications, with particles of cubical shape are produced with desired MF (fineness modulus).



Model:

OMNI VSI 150

OMNI VSI 225

OMNI VSI 375

OMNI large VSI models are able to handle feed size of approx 70 mm and majority of crushed materials lies between 40mm to 5mm.

Models available upto 1200 HP; also suitable for highly abrasive materials.

The OMNI VSI Crusher is an ideal machine to produce Crushed-Sand, that is washed and classified to remove unwanted micro-fines. High quality crushed-sand finds extensive use, replacing natural sand, in cement concrete and asphalt plants.





Drum Driers and Coolers

Top performance in drying technology

C.G. Mozer gmbH & Co. KG has been active in drying technology for more than 100 years. The Mozer drum driers are widely recognized as the best of their kind. Since 1993, the Mozer company belongs to the world-wide active **Allgaier Group**. Mozer customers benefit from an even wider technological base.

The Mozer product range includes:

drying / heating / cooling drums, plant construction

The drum driers are available in single shell, double-shell and triple-shell versions.



For widely varying application areas for drying

- sand ■ pond ash ■ slag ■ lime stone ■ stone/ores ■ clay ■ building materials ■ glass ■ foundries
- ceramics ■ minerals ■ chemicals ■ agrochemicals ■ recycling ■ industrial and communal slurries.

Fuel

- suitable with Oil / gas / Coal / Bio Fuel / etc.

Features

- High thermal efficiency
- Few parts subject to wear
- Product-optimised drying
- Large number of process options
- Easy access
- High degree of energy utilization



Drum Driers-Mozer Systems

- Single / Double / Triple shell driers
- Minerals, sand, slag, clay, limestone, pond ash and bentonite
- Chemicals and fertilizer
- Organic residuals, waste recycling and secondary fuel, rejects



Drum Driers/Coolers-Mozer Systems

- For gravel, silica sand, natural sand, limestone
- TK for an optimum of energy efficiency
- TK+ for highest energy efficiency



Drying and Cleaning Drums-Mozer Systems

- Drying and cleaning of contaminated limestone
- Label and mud remover for sorting of glass
- Processing of used glass and recycling



Drying and Grinding-Mozer Systems

- Drying and crushing of filter cake, lump size reduction
- De-agglomeration of minerals Drying and Separation
- Drum drier with screening device for separation of coarse particles



Fludised Bed Plants



Drum Driers-Mozer Systems

- Concurrent flow principle
- Gentle short time drying
- For powders, flours and fibres
- For starches, potato granules, sodium sulphate, grass fibre, chitosan



Vibration Fluidised Bed Cooler for Lignite

Vibration Fluidised Bed Technology

- Drying
- Agglomeration
- Granulation
- Cooling



Suspension and Paste Drier-Allgaier

- Drying of suspensions, pastes, solutions and filter cakes
- Production of ultrafine dry powder, free of agglomerates
- For pigments, hydroxides, silicon dioxide, chemical effluents

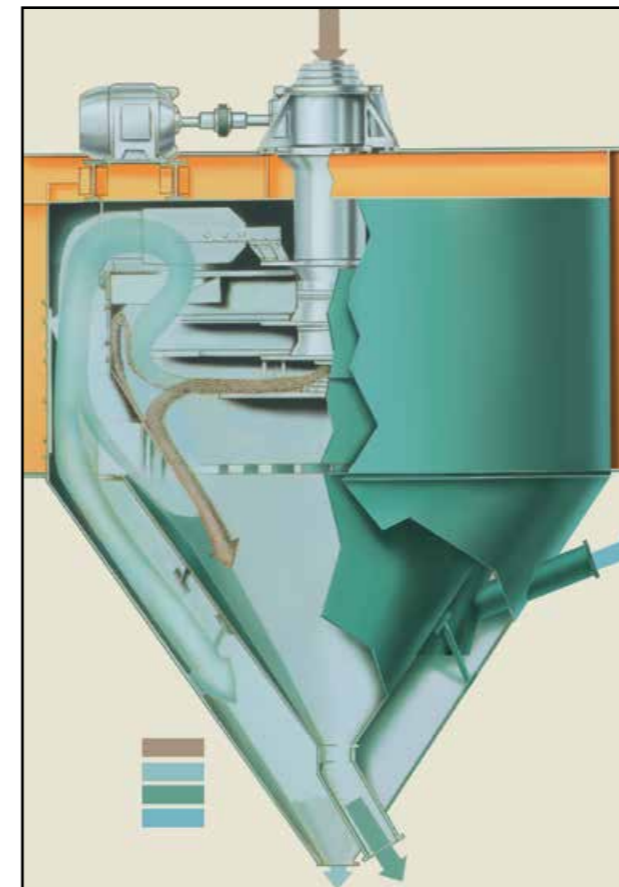


Drums for Direct Heated Calcination-Allgaier

- High temperature applications
- Directly heated by means of gas or oil burners
- Calcination of clay, zeolites, etc.

Mechanical Air Separator

The separator may be used in combination with ball mills, tube mills and compartment mills. Its function is to maintain a constant fineness in delivering the finished product.



Mechanical Air Separator

Alpha Turbine Classifier

These air classifiers have been developed especially for the achievement of fine products below 40 mm.

They belong to the family of turbo classifiers with turbulent air flow, also called centrifugal classifiers.

Their purpose is to achieve the best yield at very low specific energy consumption.



ALPHA 200

Both the classifier rotor and the body of this series can be constructed in stainless steel. The body itself can, if necessary, be lined with ceramics against abrasion. Other options are available on demand.

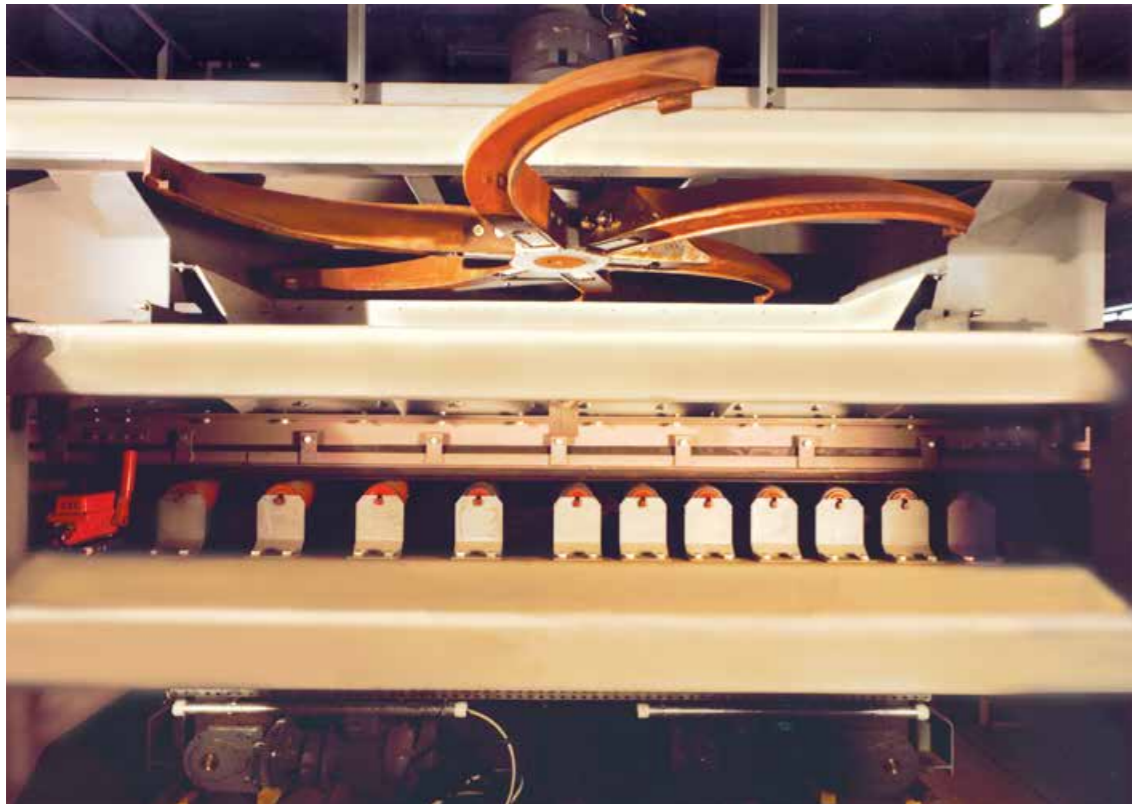
We can run semi-industrial tests in our test facility. Please contact us for more information !

Slot-Bin Extractor

The Slot-Bin Extractor with rotary scraper extraction enables difficult-to-handle materials to be extracted from all types of slot bins. It is characterized in particular by its high economy and great environmental friendliness.

Girdle Pocket Elevator

The Girdle Pocket Elevator is a continuous conveyor system specially designed for the elevation of very abrasive bulk solids. This design, which has proven itself in harsh service conditions, is an economic and environment-protective alternative to conventional heavy-duty elevators, especially of the chain and bucket type.



Slot Bin Extractor

Spiralling Belt Elevator

The Spiralling Belt Elevator is an economic elevator system which in its vertical section can be slewed-without guides-to either side, a conception which permits the unit to be fed within a confined space and without the use of any additional cross-flow conveyors.

Scooping Belt Conveyor

The Scooping Belt Conveyor is an economic, environment-protective system that has been specially developed for use on difficult-to-handle bulk solids.

When handling a dry material, it prevents dust nuisance, and when moving a wet bulk solid, it saves time-consuming cleaning operations.



Apron Feeder



Girdle Pocket Elevator

Belt-and-Pan Conveyor

The Belt-and-Pan Conveyor is a continuous conveyor system, specially designed for use on hot or aggressive bulk solids.

Apron Feeder

For extraction, conveying, and feeding of bulk solids. Its low dead weight makes it an ideal, uncomplicated bin discharge device.



Spiralling Belt Elevator



Belt and Pan Conveyor

Aurangabad Factory

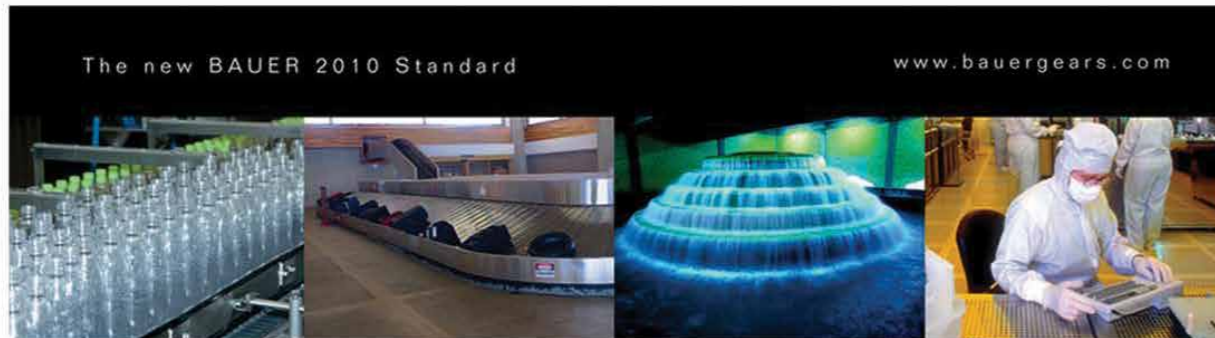


Machine Shop & Heat Treatment



Painting / Inspection and Testing



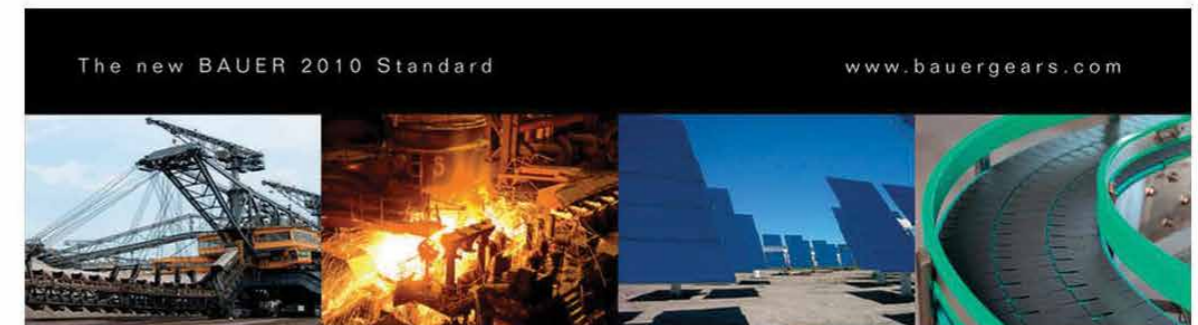


The new Modular Standard

The „All-Rounder“ for multiple applications



Gear Type	Power [kW]	Torque [Nm]	Your Benefit
Worm BS-Series	0,03 ... 5,5	25 ... 1.000	Compact and resilient through high quality worm gearing. Thus long lifetime and low servicing costs.
Bevel BK-Series	0,03 ... 75	80 ... 18.500	Energy efficient due to the highly efficient two-stage base design.
Parallel Shaft BF-Series	0,03 ... 75	90 ... 18.500	Compact mounting and multiple possibilities for attachment reduce the space requirements.
Helical BG-Series	0,03 ... 75	20 ... 18.500	Robust design leads to long service intervals.



The Application Specific Standard

The „Application Master“ - the perfect fit for your application



Basic Metal

- Milltable
- Rolling mill



Food & Beverage

- Bottling plant
- Aseptic conveying
- Packaging



Industries

- Water and waste water technology
- Crane and conveyor technology
- Environmental technologies



The Customer Specific Standard

The „Integration Expert“ - optimally integrated in your machine.



Textile Industry

- Flat bed knitting machine
- Circular knitting machine
- Weaving machine



Printing Industry

- Offset printing machine
- Web and sheet offset



Packaging Industry

- Band strapping devices
- Pallet packing presses
- Rotary arm winder





FOR THE RIGOURS OF ROLLER TABLE DRIVES

BAUER geared motors
B 2000 Series



BAUER geared motors
B 2000 Series



**PERFORMANCE BOOST
FOR THE AUTO INDUSTRY**

BAUER geared motors
B 2000 Series



BAUER geared motors
The new B2000 Series

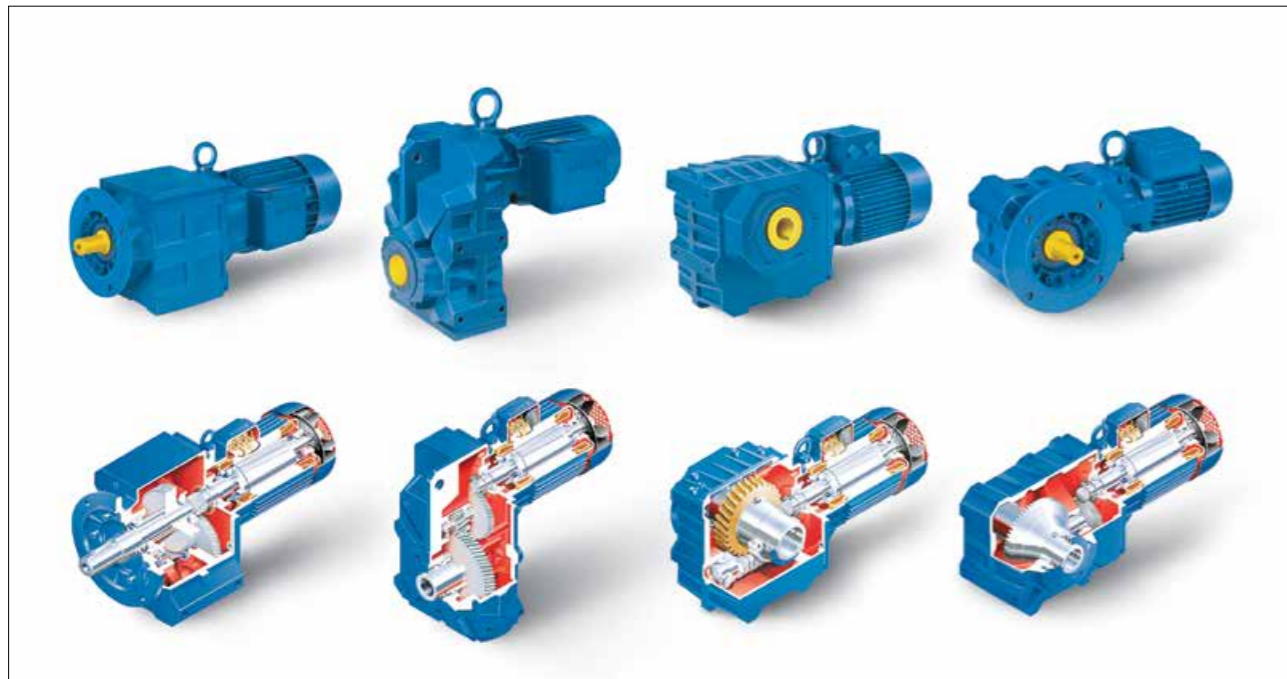
**DRIVE TECHNOLOGY
A LA CARTE**



Drive technology from Bauer is the key to success... the ultimate work horse with comprehensive know-how and experience, now with the new state of art B2000 Series.

Nothing is left to chance. Integrated production lines and modular assembly principle ensure a maximum number of type combinations that produce an optimum range. Best possible solution can be formulated for each customer without compromising his application.

Irrespective of the power, speed, torque, mounting and assembly positions, types of protection or operating mode, the Bauer B2000 Series Geared Motors supply them on a flexible basis in numerous variations - and in the right combination, that are essential for providing ingenious solutions with economy and reliability.



B 2000 Series

The BAUER B 2000 Series is manufactured and assembled using modular design techniques – relatively few parts are combined to make a wide range to facilitate optimum solutions.



Comprehensive checks and tests at all stages - from raw material, in-process manufacture and functional tests and evaluation of the finished product, assures quality through use of modern technology.

Computer aided design and application simulation, along with modern production methods ensure equipment performance and reliability.

Our integrated quality assurance system contributes to the production of machines and installations that meet the required standards of technical performance as well as safety of equipment and the environment.

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