

ENGINEERED TO DELIVER

- ▶ Bulk Material Handling Products
- ▶ Engineering Services
- ▶ Turnkey Projects



Aerial view of the manufacturing facility @Hyderabad, India

Turbovent

Turbovent is part of the Parasakti Group of companies involved in manufacture of Cement, Building Materials & Textiles

Turbovent was founded in 1993 to manufacture high quality equipment for Air Handling and Bulk Solids Handling Industries.

Turbovent is an ISO 9001:2015 company with a modern fabrication and machining workshop spanning approximately ~1.00,000 square feet of covered space.

Our Product range includes Screw Conveyors, Rotary Air Lock Valves, Chain conveyors, Bucket Elevators, Feeders, Screens, Crushers and several types of control Gates.

Strategic Partners



Expert in Making Sand
KORITSU INDUSTRIES CO., LTD.



SCREW CONVEYORS

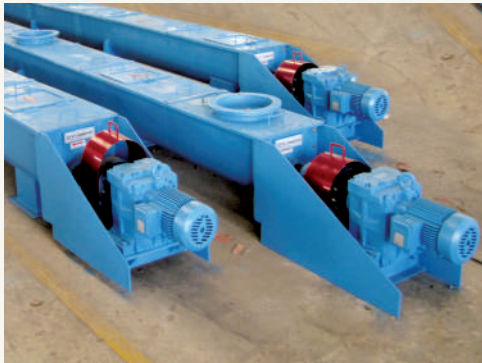
We have vast experience in design and manufacture of Heavy-Duty Screw Conveyors. We successfully supplied and commissioned one of India's longest Screw Conveyor spanning a length of 11 meters without using any in between hanger bearings.

Material of construction varies (mild steel & stainless steel) depending on the type of product conveyed. Further, for longer conveyors, specially designed hanger bearings are provided to minimize screw deflection.

Our screw conveyors can be fitted with various types of screw flights (standard flights, ribbon flights, cut-flights, paddle flights or jacketed flights).

All our screw flights are manufactured in house, thereby giving our customers 100% reliability on quality and delivery.

We supply screw conveyors for special applications such as screw feeder with variable pitch flights, cantilever beam type screw conveyor, double shaft pug mill type dust conditioner, jacketed flight/trough type screw conveyor for material conveying & cooling.



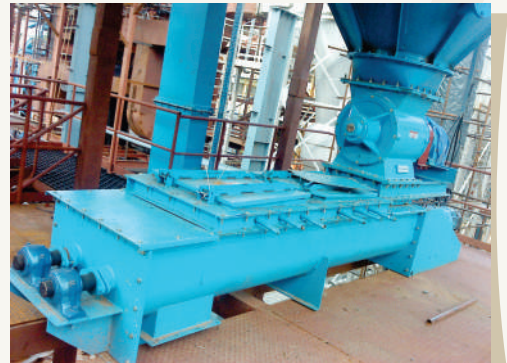
U - Type Screw Conveyors



Water Jacketed Screw Conveyor



Pipe Screw Conveyor



Ash Conditioner

ROTARY AIR LOCK VALVES

We provide a complete range of Rotary Airlock Valves (RAV's) used in bulk handling systems that enable free flow of various type of materials (dry powder, granular, crystal, pellets etc.).

We have supplied RAV's with throughput ranging from 1 ton per hour to 500 tons per hour.

Available In:

- Square & Round Flange design
- Cl: FG 260 , 15:210 / 15:4896 / 15:4522, Mild Steel & Stainless Steel Constructions.
- Medium duty (Dia 200 mm to Dia 400 mm) and Heavy duty (Dia 200 to Dia 760) variants
- Application specific design

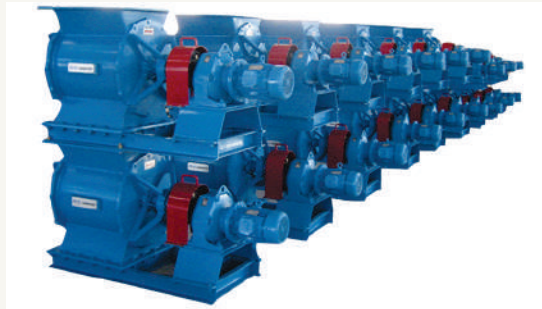
Technical Features:

- Adjustable wear tips in spring steel/SS/Hardox.
- Air purge facility for purging seals, helps in dusty condition.
- 65-120 microns clearance for optimum leakage prevention.
- 6 or 8 vane rotor (Closed / Open). Closed end rotors reduce air leakage.

MODEL	MEDIUM DUTY*	HEAVY DUTY
DIA 200	✓	✓
DIA 250	✓	✓
DIA 300	✓	✓
DIA 350	✓	✓
DIA 400	✓	✓
DIA 450		✓
DIA 500		✓
DIA 560		✓
DIA 650		✓
DIA 760**		✓

*preferred for bag filter and medium duty applications

** Above 760 to 2000 Fabricated only



Drop Through Airlocks



Side Entry Airlocks



Blow Through Airlocks



Customized Heavy Duty Rotary Airlocks

ROTARY SLUICES

Rotary Sluice is a special type of RAV that can be used in applications where lumpy materials have to be fed into downstream process. It is most commonly used to control input feed into Vertical Roller Mills (VRM's). Moreover, Rotary Sluice's can be used to handle wet or moist materials like limestone, clay, iron ore and blast furnace slag.

We manufacture Rotary Sluice's that can handle throughput capacity from 1 ton per hour to 150 ton per hour with inlet opening sizes ranging from 560 mm to 2000 mm in both round or square shape.

Key Advantages:

- Reduces risk of unexpected stops, thereby ensuring mill performance.
- Heated sluice allows handling and conveying of hygroscopic materials.

Typical Applications:

- VRM raw mill, typical feed size up to 100mm
- VRM coal mill, typical feed size up to 100mm
- VRM cement mill, typical feed size up to 100mm
- VRM slag mill, typical feed size up to 5mm
- Ball mill, typical feed size up to maximum 75mm
- Flash drying, typical feed size up to maximum 75mm

Technical Features:

- For trouble-free operation the sluice design is based on a low-speed six-chamber rotor.
- The rotor design ensures that at least one of the vanes is always in contact with each side of the housing, ensuring very low ingress of air. The 60 degree opening angle within the six chambers reduces the risk of material sticking inside the rotor during operation.



Rotor



Mill Feed Valve

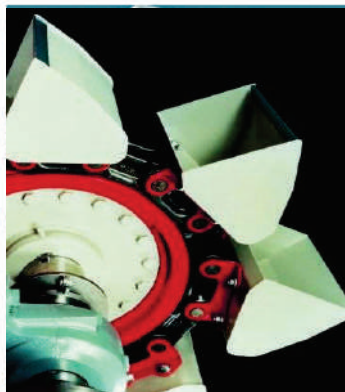
BUCKET ELEVATORS

Bucket Elevators are used to transport bulk solids vertically. Reliable design of top and bottom hoods and careful selection and manufacture of bucket components reduces the operating costs and increases uptime of our bucket elevators.

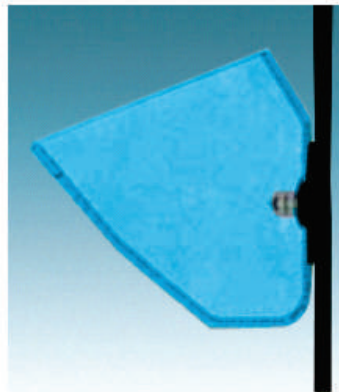
Bucket elevators are available in both chain type and belt type construction. They can be used to convey products like Cement, Clinker, Coal, Bauxite, Sugar, Fly Ash, Gypsum, Limestone, Iron Ore, Sand etc.

Construction Details:

- Elevator casings with reinforced corners to maintain structural rigidity and straightness.
- Inspection doors at all accessible locations. Flanged discharge hood with inspection door.
- Heavy-duty steel boots and frames with manual or gravity take-up.
- Removable boot panels for sprocket and pulley maintenance.
- Various wear liner options for boot and discharge.
- Heavy-duty shaft bearing supports on head sections.
- Safety components such as zero-speed switch, backstop and belt alignment included as standard.



**Belt Bucket
Top casing Sectional View**



**Belt Bucket Elevator
Bucket fixing Arrangement**



**View of Wing Pulley for Belt
Bucket Elevators**

DRAG CHAIN CONVEYORS

Drag Chain Conveyors enable movement of materials over long centre distances and steep inclined positions. They are designed to convey wide variety of powdery, granular and lumpy bulk materials. Our proven design and usage of high quality components provides required performance and ensures trouble free operation.

Technical Features:

Throughput capacity of up to 300 m³/hr and conveyor length of up to 60 meters.

Casings are built from heavy gauge steel plates for providing structural rigidity.

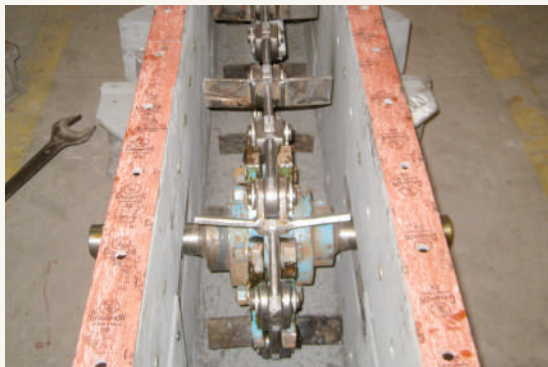
Material can be conveyed either by single or double strand forged or case-hardened chain links.

Wear resistant guide rails are provided in conveying and return path for longevity.

Specially designed flight attachments are welded/bolted to the chain links as per application. The flights attachments are generally bolt-on type design for ease of replacement.

Sprockets are fabricated or cast from carbon steel and are hardened for longer service.

Catenary take ups are provided to accommodate thermal expansion of chain in high temperature applications.



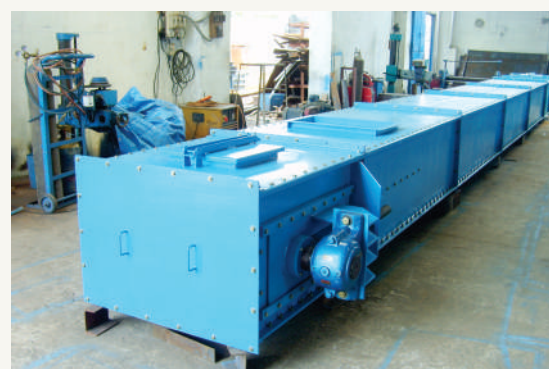
Chain Arrangement



Take-up Arrangement



High Temperature dust-proof housing that can also be gas Tight



Heavy dust-proof housing that can also be gas tight

OTHER PRODUCTS /



Manual Slide Gates



Pneumatic Slide Gates



Motorized Slide Gates



Belt Conveyors



Diverting Gates



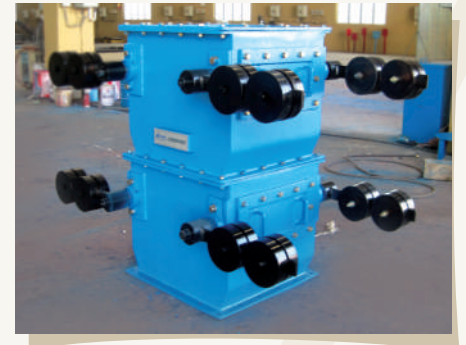
Discharge Gates



Screw Samplers



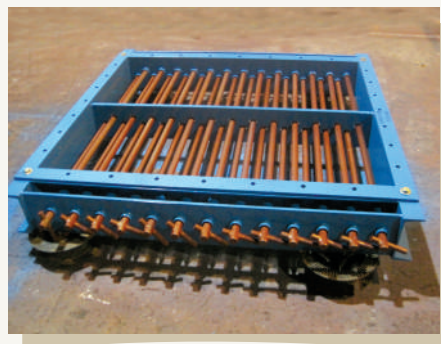
Multi Louver Dampers



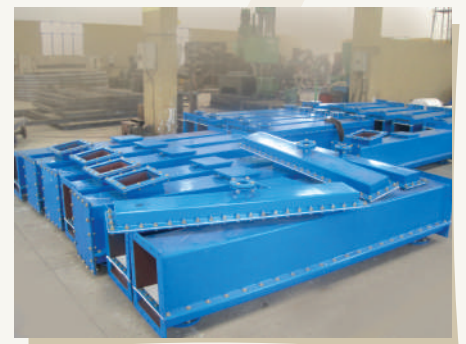
Flap Valves



Cement Blender



Rod Gates



Air Slides

OTHER PRODUCTS /



Junction Boxes



Metallic Expansion Bellows



Non Metallic Bellows



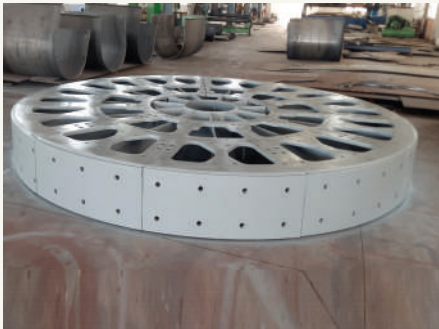
Air Slide Diverter



Bale Breakers



Screens



Mill Diaphragm



Roller press base frames



Silos



Hoppers



Bag Filters



Cyclones

SPECIALITY PRODUCTS

Speciality (Customer / OEM Design) Product Manufacturing:

At Turbovent we manufacture several equipment based on end customer or OEM (Original Equipment Manufacturer) design. Not only did we manufacture specialised products like Pre-Heating screw (handling bauxite ore) and Vertical Mill Casings but we also manufactured standard equipment like Screw Conveyors, Chain Conveyors and Bucket Elevators based on OEM design specifications.

Further, in the recent past we have also taken up sourcing assignments to manufacture Ball Mills for ceramic application for an OEM based out of mainland Europe.

Our track record of honouring and safe guarding the intellectual property of our customers and ensuring that equipment meets desired quality has resulted in us getting repeated orders.



Mill Feed Rotary Valve / Rotary Sluice



Pre Heating Screw



Ball Mills for Ceramic Industry Application

TURNKEY PROJECTS



BRIQUETTES HANDLING:

Material:
Briquettes (Wood)

Equipments:
Hopper, Vibrating
Feeder, Chain conveyor,
Crusher, DE System

Material:
Coal, Husk, Bagasse

Equipments:
Chain Conveyors, Belt
Conveyors, Crusher,
Hoppers, Vibrating
Feeders, RAV



WOOD DUST HANDLING:

Material: Wood Dust

Equipments:
Screw Conveyors,
Chain conveyors,
Bucket Elevators,
Hopper, Cyclones, and

MINERAL HANDLING:

Material:
Mineral

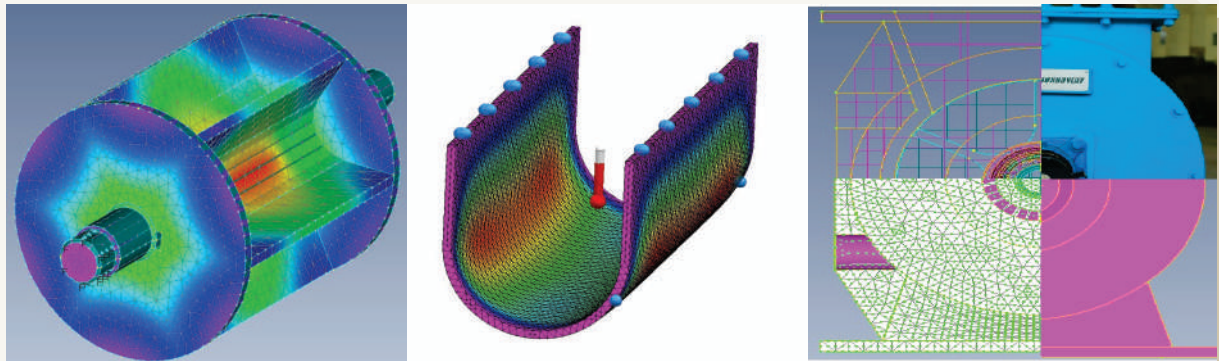
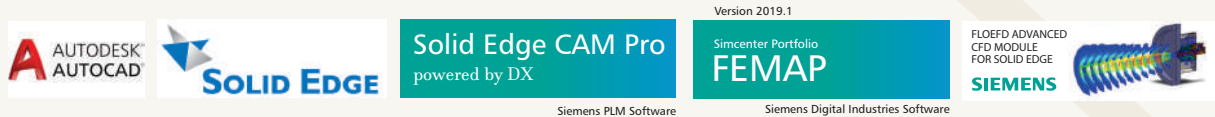
Equipments:
Screw Conveyors, Belt
Conveyor, Bucket
Elevators, Hopper,
Weigh Feeder and



ENGINEERING SERVICES

Our team has more than 25 years of combined experience in designing bulk solids handling industrial processes. We have licenses to use state-of-the-art SIEMENS software for CAD, CAM, FEA and CFD applications that enable us to recommend optimum solutions.

APPLICATIONS

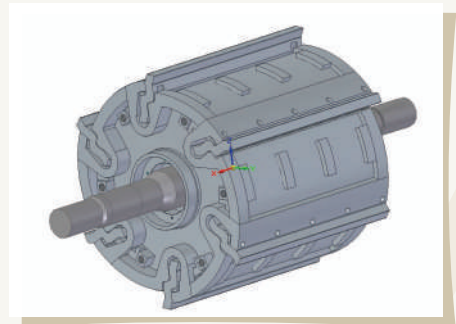


Cement Industry Focus:

CFD and particle study analysis to analyze pressure, temperature and velocities of fluid in feed Particles in cyclone/ calciner / Bag House/ ESP/ Air pre heater lines.

CFD analysis of ducts to improve duct flow and its distribution without creating turbulence.

CFD analysis to study and improve the efficiency of conveying equipment.



Temperature [K]



313

2280

KEY MACHINES



CNC plasma profile cutting machine



Heavy duty Hydraulic press



Vertical Lathe Machine (VTL)



Lathe Machines



Enclosed grit blasting room



Enclosed paint room

QUALITY MANAGEMENT SYSTEM

At Turbovent we lay highest emphasis on the quality of our products and processes. We are highly focused on ensuring prompt delivery, attentive installation & thorough after sales support. We believe quality is the end result of creating an effective plan, documenting the same and then following it up relentlessly for smooth execution. To achieve this:

We maintain in process inspection check lists & QAP's to ensure usage of right materials and to avoid reworks. We train our welders and maintain approved WPS & PQR for all our welding procedures as per ASME section IX.

We deploy experienced supervisors and managers who have had extensive experience in working with all global OEM's like FLS, TKII, KHD, Pfeiffer, Valmet etc.

QUALITY CERTIFICATION

intertek
Total Quality. Assured.

CERTIFICATE OF REGISTRATION

This is to certify that the management system of:

Turbovent Industries Private Limited

Main Site: Head Office: Plot No. 8-3-214/21, Srinivasa Nagar Colony, (West) Hyderabad - 500038, Telangana, India
Additional Site: Factory: Survey No.102 & 340, Cheriya Village & Post, Kandi Mandal, Sangareddy District - 502285, Telangana, India

has been registered by Intertek as conforming to the requirements of:

ISO 9001:2015

The management system is applicable to:

Manufacture of Air Handling Equipment, Material Handling Equipment's and other Steel Products.

Certificate Number: 0059372
Initial Certification Date: 07 February 2017
Date of Certification Decision: 22 January 2020
Issuing Date: 22 January 2020
Valid Until: 06 February 2023

 
Intertek 014


Calin Moldovean
President, Business Assurance

Intertek Certification Limited, 10A Victory Park, Victory Road, Derby DE24 8ZF, United Kingdom

Intertek Certification Limited is a UKAS accredited body under schedule of accreditation no. 014.



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MAJOR CLIENTS



FOR BUSINESS

K. V Rao
 Vice President - Projects
 Mobile : +91 98667 00016
 Email : kvr@turbovent.com

Ch. Prudhvi Krishna
 Asst. Manager - Sales
 Mobile : +91 90000 08088
 Email : cpk@turbovent.com

sales@turbovent.com



Turbovent Industries Private Limited

Head Office:

Myscape WEAVE, 5th Floor,
Financial District, Gachibowli,
Hyderabad - 500032, Telangana, India
Ph: +91-40-3520 9999

Factory :

Survey No. 102 & 340, Cheriyal Village & Post,
Kandi Mandal, Sangareddy
District : 502285, Telangana, India
Ph: +91- 73961 30301

info@turbovent.com, website: www.turbovent.com

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