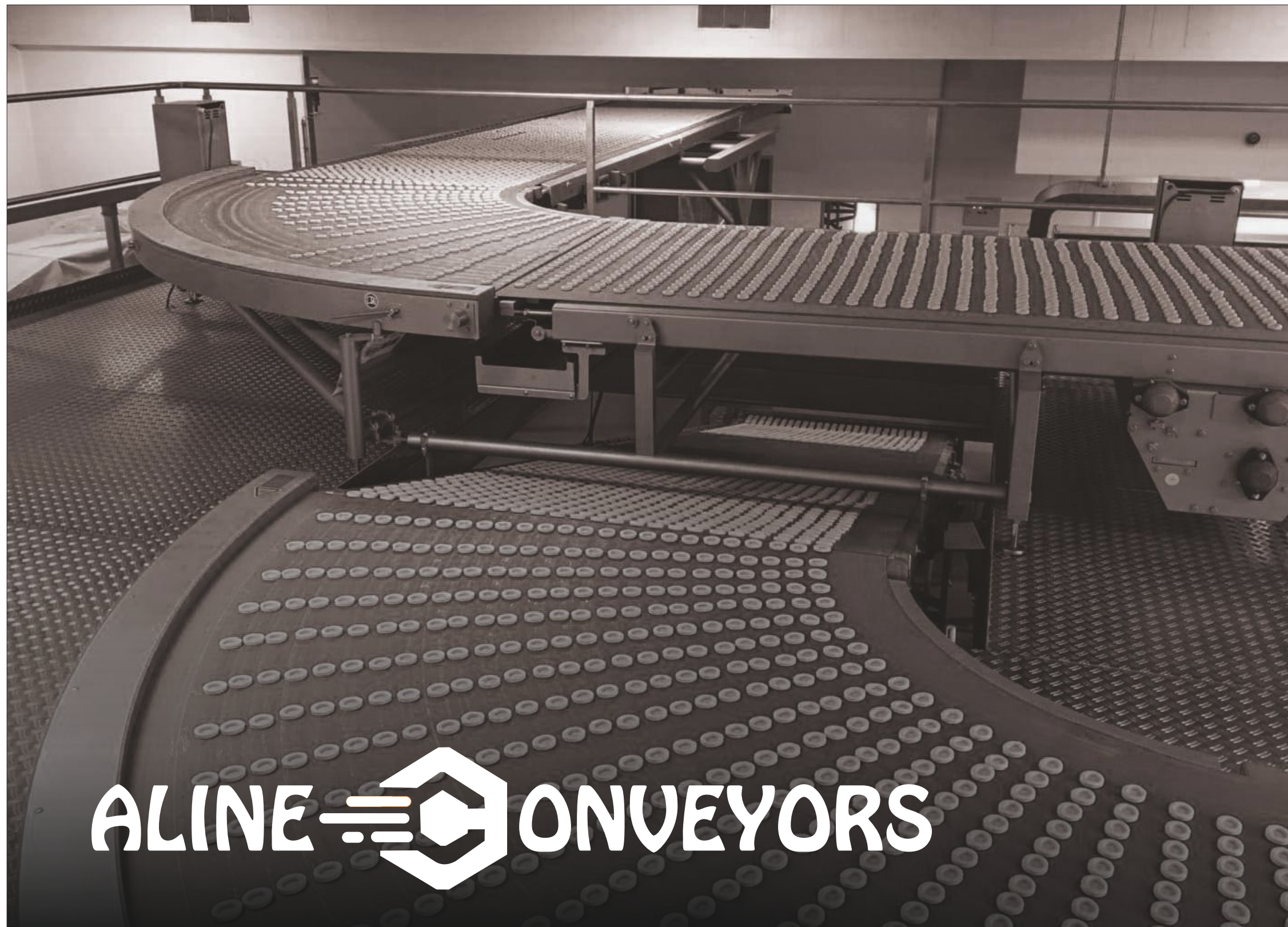


ALINE CONVEYORS PVT. LTD.

ALINE  ONVEYORS

Conveyors Perfection At Its Best.....



ABOUT US

WE AT ALINE CONVEYORS PVT LTD

Aline Conveyors Private Limited (Previously known as Aline Engineering), Specializing in industrial automation in the sector of overhead and floor conveyors.

Established in 2008, Aline Conveyors Private Limited has experienced considerable technical and market growth in the last number of years. We provide overhead conveyors, floor conveyor, handling systems, and customized conveyors to suit customer's specific requirements.

No matter what the industry or application, our overhead and floor conveyors products play key roles in material handling, manufacturing, finishing, warehousing and distribution centers. We provide a wide variety of consulting engineering services from basic system design to developing complex controls and simulation of our conveyors to prove efficiency and capacity before materials are purchased or one piece of steel has been installed. Our number-one goal is to meet your company or organization's unique conveyor needs using high-quality materials and state-of-the-art technology

Valuing our clients and customers. Aline prefers and considers covering up every need and requirement for purchasing and setting up conveyor systems.

With strong market identity and quality supplier network, Aline is successful catering and meeting the requirement of numerous clients on global platform

Our great mentor Mr. Mohd Shariyat has been driving the whole organization with his competent resource and management skills to achieve milestones in the business.



CONVEYOR SYSTEM



ALINE ONVEYORS

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ALINE ENGINEERING



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- 25. SPIRAL CONVEYOR
- 26. CHIP CONVEYOR
- 27. TRUCK LOADING CONVEYOR



ENCLOSED OVERHEAD CONVEYORS 5T & 7T



ALINE Enclosed Track Conveyors are designed to handle 50 lbs. (23 kg) from single pendants, which are standard on 6" centers. Coupling two pendants with a load bar allows up to 100 lb. loads. Distributed loads up to 30,000 lbs. can be conveyed on a 600 ft. system with only one drive. ALINE enclosed track overhead conveyor systems are designed to fit a variety additional applications including: overhead power & free systems, over-n-under systems, inverted power & free systems, and hand-pushed trolley installations.



TECHNICAL DATA

Pitch of Link	04" (101.6mm)
Pitch of Hanger	8" (203.2mm)
Track	W-57mm x H-67mm x thick 3mm
Material	HR
Chain Type	Stamping Bearing Type W/o attachment
Link Material	ENB
Max Load Capacity	30KG
Average Tensile strength	5000Kgf.
Drive Unit	It is Caterpillar Type

FEATURES

- DESIGN FLEXIBILITY
- IMPROVED WORK ENVIRONMENTS
- MODULAR CONSTRUCTION
- DESIGN OPTIONS



ADVANTAGES

- Lower cross section height
- Finger pinch points are reduced with internally running conveyor chain
- Some designs allow an inverted "slot up" position with minimal or no modifications
- Prevents contamination of the conveyor chain and the product below smaller radii on horizontal and vertical bends.

The Four Wheel Conveyor Systems consist of an open or enclosed track having wheels for carrying load or materials from one place to another. Depending upon the product dimensions and weight, the conveyor system divided into mini or standard four wheel conveyor. Our offered conveyors are developed from premium quality components and latest technology as per with the defined industry norms Largely used in manufacturing units production and assembly line for the transportation of heavy or bulky goods.



TECHNICAL DATA

	4 WHEEL CONVEYOR	MINI 4 WHEEL CONVEYOR
Conveyor Pitch	06 inch, 08 inch, 10 inch	06 inch, 08 inch
Chain	It is biplanar type	It is biplanar type
Wheel	O/D 47mm x I/D 12.8mm x 14 mm thick	O/D 37mm x I/D 12mm x 12 mm thick
links	32 mm x 5 mm thick	25mm x 5 mm thick
Cruciform	8 BG Cold formed and work hardened	Square Cube 20 L-45 mm
Axle	12.7 mm dia. x L 120 & 102 Bright Bar (Case Hardened)	12 mm dia. x L 82 & 90 Bright Bar (Case Hardened)
Bush	O/D 20mm x I/D 12.8mm x L-14mm Bright Bar (Case Hardened)	O/D 20mm x I/D 12mm x L-10mm & 15 mm Bright Bar (Case Hardened)
Clevis Bracket	MS U-shape design thick 5 mm	MS U-shape design thick 5mm
Track	Cold formed angle 38x38x3 mm thick brackets at every 625mm	ISA 25x25x 3mm thick brackets at every 416mm
Tension Unit	Screw/Weight Type tensioning arrangement provided	Screw/Weight Type tensioning arrangement provided
Drive Unit	It is Sprocket and caterpillar type	It is Sprocket and caterpillar type
Overload Safety	Shear pin arrangement and clutch Type	Shear pin arrangement and clutch Type



FEATURES

- Flawless Finish
- Easy Handling
- Attractive color combinations
- Elegant appearance

ADVANTAGES

- Easy to operate
- High strength
- Low maintenance
- Longer Durability

I- BEAM OVERHEAD CONVEYOR

Since the time of the first automobile, I-Beam overhead conveyors have brought increased efficiency to production lines. Using this proven design, Aline has developed the I-Beam conveyor with improved components for low cost conveying in a wide range of applications. Aline I-BEAM overhead monorail conveyors are proven to provide the lowest “cost per lb. of capacity” of all overhead conveyors. I-beam conveyor comes in three track sizes, each with a different load capacity. 4 track has a 200 pound capacity per trolley; 5 track has a 400 pound capacity; and 6 track has an impressive 1,200 pound capacity. A load bar hung from two trolleys offers twice the capacity of a single trolley, so a load bar for 6 track can handle 2,400 pounds. Suspend monorail track from floor-mounted support beams or ceiling attachments. Some systems may require a combination of the two.



FEATURES

- Available in 4" , 5" and 6" conveyor track heights
- Heavy duty forged chain and trolleys
- Open track and chain design, all components are exposed and visible



TECHNICAL DATA

Chain	Forged link rivetless chain	
	Size	X-348/X-458/X-678
	Pitch	3",4" & 6"
	Pin dia	3/8",4/8",7/8"
	Breaking stength	8,000 kgs.,16,000 kgs.,32,000 kgs.
	Allowable Pull	800 kgs.,1,600 kgs.,3,200 kgs.
	Material	En8
	Finish	Shot blasted & bearing surface milled.
Trolley	2 wheel trolley with forged bracket. wheel are fitted with antifriction ball bearings duly packed with provision for regreasing	
Track	Made of ISMB 100, 125, 150 mm.	
Bends	All horizontal & vertical bends are provided as per layout requirement. Horizontal bends are provided with hardened guide rollers fitted with anti friction ball bearings & sealed for life	
Drive	Heavy duty sprocket . Caterpillar type unit Fitted with motor & worm reduction gear box.	
Oiler	Air mist lubrication provided.	

ALINE CONVEYORS offers a full range of belt conveyors from small profile frames through to heavy duty modules that can be integrated into versatile handling systems for the movement of packed and unpacked products, often irregular in size and shape. Belt Conveyors are also ideal for small packages, cartons, sacks, bales, etc. With side frames manufactured from various materials and with belting selected from a range of finishes and qualities- including smooth, grip surface, modular plastic and flighted, Aline Conveyors will specify belt conveyors to suit your individual material handling application.

VARIOUS TYPES

- Horizontal/Flat
- Inclined / Declined
- Trough
- Telescopic
- Assembly Line
- Sidewall
- Cleated
- Modular
- Curved

FEATURES

- Low mainten
- Long Operational Life
- Modular Construction



Flat belt conveyors are ideal for handling light and medium loads, although heavy duty options are available. They're relatively simple in terms of design and construction, making them a good choice for seamless integration into existing systems. Flat belt conveyors can also provide a good deal of friction for inclined applications, where smoother plastic or steel belts might result in increased slipping or sliding of materials.

CONSTRUCTION

Conveyor construction is selected dependent on application and environment. Side frames are either stainless steel or powder coated mild steel with many construction options as to how to support and return the belt. Depending on application requirements, other construction features can be incorporated such as centre drives and nose bars.

ADVANTAGE

- Less maintenance for tension adjustments
- High capacity
- Optimum viewing for inspections
- Quick replacement of worn belt sections

BELT CONFIGURATIONS

Different Options Available Such As

- Pvc Plain
- Pvc Rough Tough
- Food Grade
- Rubber Belt

INDUSTRIES

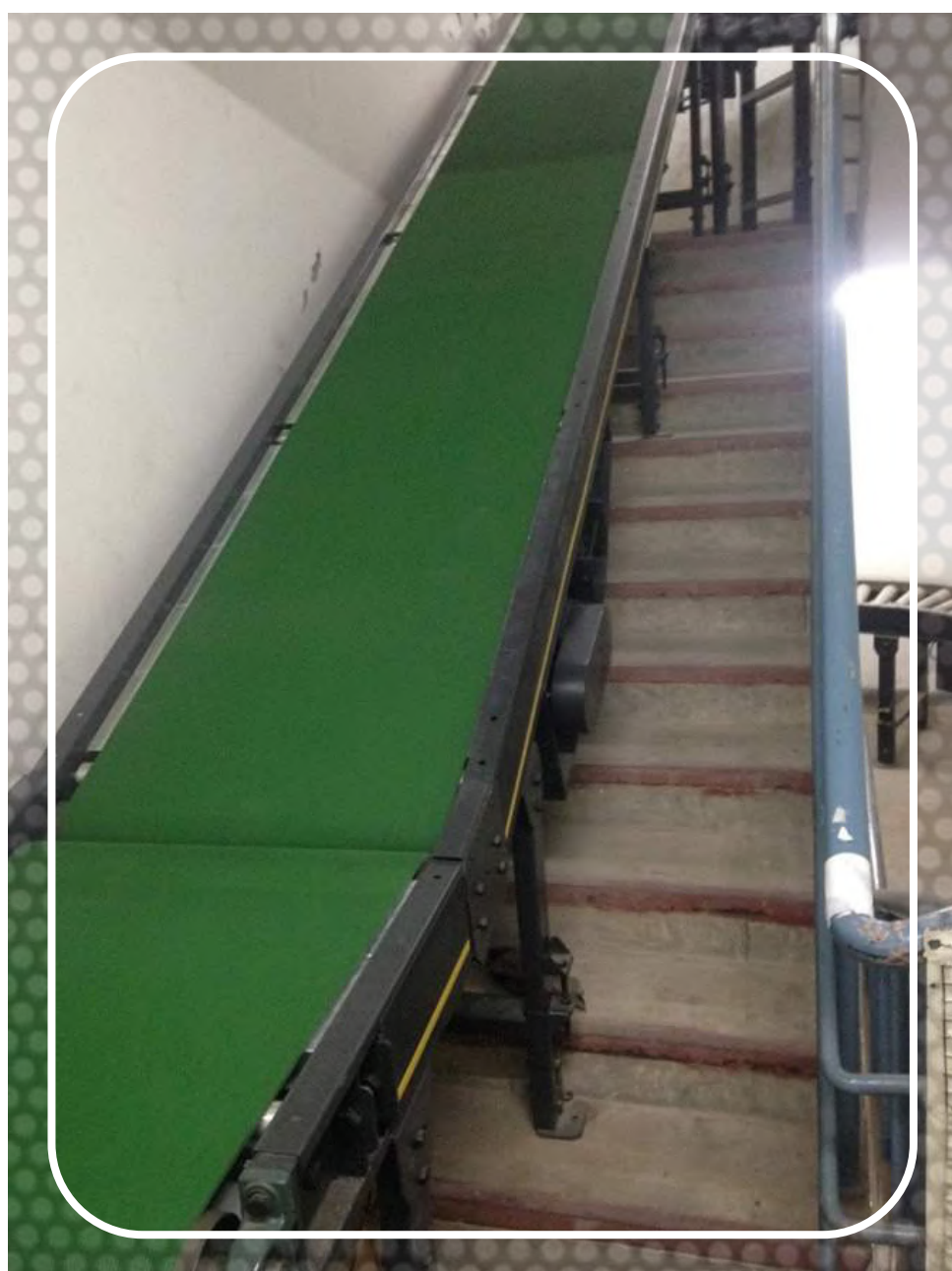
- Snack Food & Bakery
- Packaged Foods
- Meat & Poultry
- Beverage
- Confectionery & Candy
- Dairy Food
- Produce
- Frozen Foods
- Health & Beauty
- Pharmaceuticals



INCLINED BELT CONVEYOR

If you need to incline or decline a product to match a production ergonomic support to an employee, aline incline conveyor systems can provide the necessary flexibility. Our incline conveyors can come equipped with horizontal sections, in feed, and/or out feed to provide better product handling and controls. **aline incline conveyors** are also ideal in hopper applications or feeding parts into bowl feeders.

Available with cleated plastic belts, modular plastic belts, or standard flat belts, in addition to add-ons like side rails, our aline belt conveyors are highly versatile material handling tools useful in a wide variety of industrial applications. If you don't see anything that meets your exact requirements, aline can work with you to create a custom incline conveyor system suited specifically to your needs.



APPLICATION

- Bowl Feeders
- Elevation Changes
- Hoppers
- Incline and Decline operations
- Injection Molding
- Packaging
- Stamping
- Walk-unders

FEATURES

- Low maintenance
- Robust construction
- High operational safety
- Push button operation

TROUGH BELT CONVEYOR

Troughed belts are used for rapid and efficient conveying of various materials such as glass, cans, sand, waste paper, etc. The troughed belt runs in a 'V' shape along trough idlers fitted in a solid steel plate frame. Various belt widths are available, and the length can be adjusted for the intended use. Longer lengths are available as well. The troughed belt conveyor is probably the most widely used and well known conveyor design of all types of belt conveyors. The troughed belt conveyor has proven to be a reliable and versatile conveyor in many applications and is probably more forgiving than most other types of conveyors when exposed to adverse operating conditions. Improved technology supporting the design of conveyor systems together with innovations in component design and a better understanding of the dynamics prevalent in conveyor belts during operation, have propelled troughed belt conveyors into broader applications and higher conveying capacities.



FEATURES

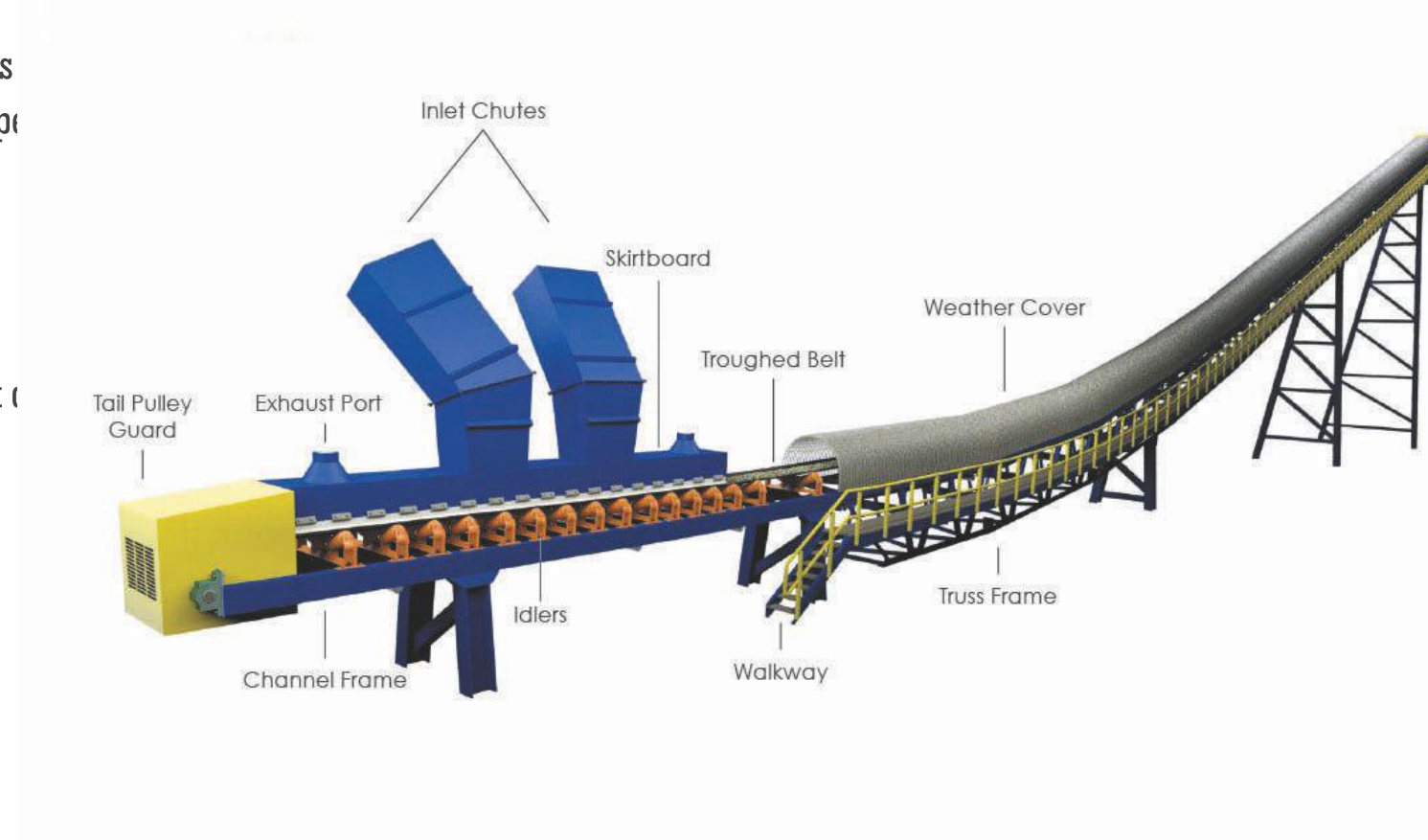
- Convey high tonnage of materials.
- Handle gradual inclines over long runs
- Convey horizontal up to 28° incline depending on belt type
- Require very little maintenance
- High efficiency
- Almost resistance-free conveying
- High operational reliability
- The safety devices include an off-track detector, speed detector, and pull wire switch.

FEATURES

- Economical
- Low Maintenance
- Efficient
- Durable
- High Operational Safety

APPLICATIONS

- Water & waste water treatment facilities
- Power plant/coal
- Pulp & paper
- Food
- Agriculture
- Pharmaceuticals
- Solid waste
- Mining
- Lumber
- Automotive





TELESCOPIC BELT CONVEYORS

ALINE Telescopic Conveyors will load / unload virtually any loose items quickly, safely and efficiently. By extending directly into truck or trailer without the need of support, hence significantly improving transport turn around time. Suitable for cartons, sacks, bags, drums, rolls, tyres, etc. Eliminates the need for dock-levellers, accommodates trucks with various heights. Reduces operator fatigue caused by lifting and carrying. Get more done in less time with less labour.



FEATURES

- Chassis Construction : Heavy gauge fabrication, MS industrial paint finish.
- Push button operation.
- Front and bottom lamps makes it easy to operate in dark conditions.
- Sensors for start/stop belt drive during loading.
- Safety front bumper with emergency stop

OPTIONAL FEATURES

- Hydraulic lift to cover the height of the container.
- Foot-Over stand can carry single person.
- Automated boom control – boom retracts as truck gets filled.
- Mechanical clutch to engage / disengage telescopic drive.
- Mechanical crank with safety sensor for telescopic drive.
- Tower lamp and alarm options are available.

Model Name	Extended Sections	A.Base Length	B. Max. Extension	C.Total Extended Length	Belt Width	Weight Capacity
ATC-3-5070 60/80	3	4000mm	6000mm	10000mm	600/800mm	50 Kg/mtr
ATC-3-5070-60/80	3	5000mm	7000mm	12000mm	600/800mm	50 Kg/mtr
ATC-2-6060 65/80	3	6000mm	6000mm	12000mm	650/800mm	50 Kg/mtr
ATC-3-6090 60/80	2	6000mm	9000mm	15000mm	600/800mm	50 Kg/mtr
ATC-3-70120 60/80	3	7000mm	12000mm	19000mm	600/800mm	50 Kg/mtr

TECHNICAL SPECIFICATIONS

Telescopic Drive Electric Motor, 1 HP (0.75 KW)
Belt Drive Electric Motor, 2 HP (1.5 KW)
Belt Speed up to 30 meters / min
Belt Type PVC 3-Ply, low stretch & 6mm thickness
Belt Direction Forward and Reverse
Telescopic Speed 5 - 10 meters / min
Power Supply 415 VAC 50Hz 3 phase (other options available)

ALINE Steep Angle Conveyors are not limited to 15 or 20 degrees inclination like a conventional in-plant belt conveyor. They can lift the material from zero degrees horizontal to 90 degrees vertical. In **vertical applications** the belt can even twist and discharge the material in a different direction. **Urethane Cleats** or pockets carry the material between special corrugated sidewalls. The specially designed reinforced belt has extra **cross rigidity** that is necessary on the return side.



APPLICATIONS

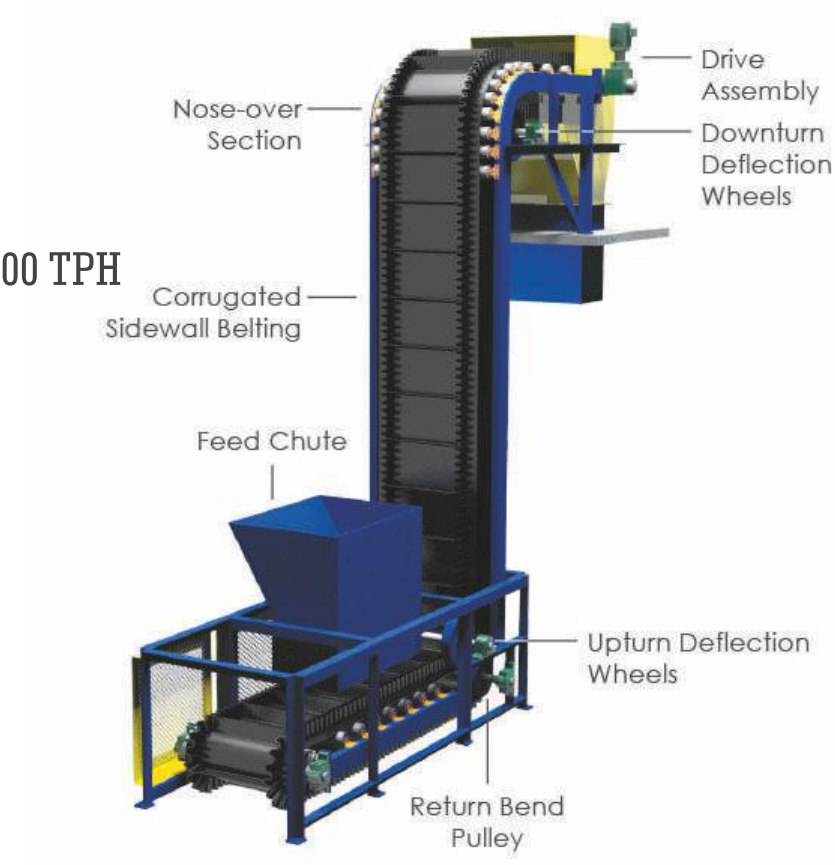
- Power • Steel • Cement • FAFA Plant • Municipal Solid Waste • Construction industry • Construction industry • Sugar • Fertilizer
- Chemical • Recycling • Agriculture • Aggregate

TECHNICAL SPECIFICATION:

- Eff. Belt Width : Up to 1000 mm
- Inclination : • Up to 90 Deg
- Capacity : Up 100 TPH

FEATURES:

- Less space consumption
- No slippage of material
- Minimum maintenance and noise
- Long Life
- Designed for dust free operation
- Highly Efficiency and low power requirement
- Low Maintenance
- Higher rate of material handling



DESCRIPTION

- Assembly Line Conveyors As Name Suggests Are Used For Inline Systematic Assembly / Process Of Components.
- In These Kind Of Systems, We Design The Line Considering Various In Process Requirements Such As No. Of Operations, Time Cycle For Each Operation Etc.

FEATURES

- Roller Conveyor With Optional Variable Speed
- Accurately Controlled Temperature
- Offers Neat, Clean And Smooth Production Line
- Fast Speed For Filling
- Clients Can Buy Filler Or Complete Production Line
- Easy To Clean And Maintain
- Compact In Size
- Rugged Heavy Duty Conveyor
- Sturdy Steel Base



Cleated belt conveyors provide many purposes in today's manufacturing environment. They are used to help move product up inclines, as well as stage product to operators or to provide predictable spacing on a line the cleats on the conveyor belt create shelves to support the product until it reaches the top of the slope. There are many different cleat designs that are available, including food-grade cleats for the separation of food products during transportation.

COMMON CONVEYOR USES

- Elevation Changes
- Incline Conveying
- Indexing
- Material Handling
- Staging Product
- Sorting

ADVANTAGE

- durability over other belt materials
- load capacity
- resistance to wear
- resilience in harsh environments
- affordable alternative to stainless steel or fiberglass



A modular belt conveyor is a flat belt conveyor and is made up of individual plastic or steel modules usually linked together using joint rods. Modular belt conveyors are suitable for conveying components or packed materials throughout production areas inside factories. An advantage of a modular belt conveyor is that curved sections of belts are available.

The modular belt is robust and can tolerate high and low-temperature products. Large belt widths are possible without high pre-tensioning.



ALINE CONVEYOR can design and manufacture modular plastic belt conveyors customized to our customers' specific needs. Whether you're a general manufacturer or have unique industry-specific challenges, **ALINE CONVEYOR** can Manufacture a custom conveyor system that will work for you.

FEATURES

- choice of four types of modular belt materials with different properties and areas of use (eg. food grade, oil resistant or adhesive, gray, blue, white)
- if the belt is damaged, only the damaged parts are replaced (in the long run a large saving of financial costs)
- conveyor skeleton made of item modular system profiles with the possibility of easily connecting other profiles or complementary technologies, possibility to modify the conveyor in the future

APPLICATIONS

- Automated and Manual Assembly • Cooling, Curing, and Heating • Curve Conveying • Incline Conveying
- Machine Part Handling • Packaging • Piece Handling • Sortation



CURVED BELT CONVEYOR

Aline Curve Belt Conveyors (CBC) are built to transport heavy-duty loads and convey at speeds of up to 550 feet per minute. They are designed for stringent environments with continuous or clocked transportation of packages, containers, and packaged goods with changes in direction

It is available in a variety of modular designs ranging from 30° to 90° angles, and in a wide range of standard measurements or customer-specific measurements for integration into new or existing systems.

SPECIFICATIONS



FEATURES

- Aluminum frame construction
- Modular design optimized for transportation
 - Maintenance-free belt guidance system
 - Advanced belt edge technology
 - Drive pulley w/wear-resistant friction lining
 - Energy-efficient design
 - Very low noise emissions at high speeds
 - Fast replacement of spare parts, especially the belt

TECHNICAL

ALINE-CBC	
NOMINAL WIDTH (NW)	Up to 59"
INNER RADIUS (IR)	Up to 78.74"
ANGLE	30°, 45°, 60°, 90°, 180°
SPEED	Up to 9.19 ft/s (550 fpm +)
UNIT LOAD CAPACITY	110-132 lbs
MAX. LOAD CAPACITY	Up to 485 lbs
DRIVE UNIT	230 / 460 V - 60 Hz
BELT CONSTRUCTION	2 Ply polyester fabric -- coating according to application

Roller Conveyor is a System that utilizes rollers (rotating cylinders) to move material from one place to another, either by manually, gravity or power. Our range fabricated using high grade raw materials and advanced technology at our manufacturing unit. ALINE Roller Conveyors comes with different ranging capacities, accessories such as pop up stops, side rails etc and can be designed completely based upon the requirement

GRAVITY ROLLER CONVEYOR

Gravity Roller Conveyors are the most economical and common method of conveying unit loads. The conveyors are typically mounted on a slight decline angle, therefore using gravity to assist product movement, specially for long distances. They can also be used in applications where the conveyor is level and operators can push the product along to its final destination.

POWERED ROLLER CONVEYOR

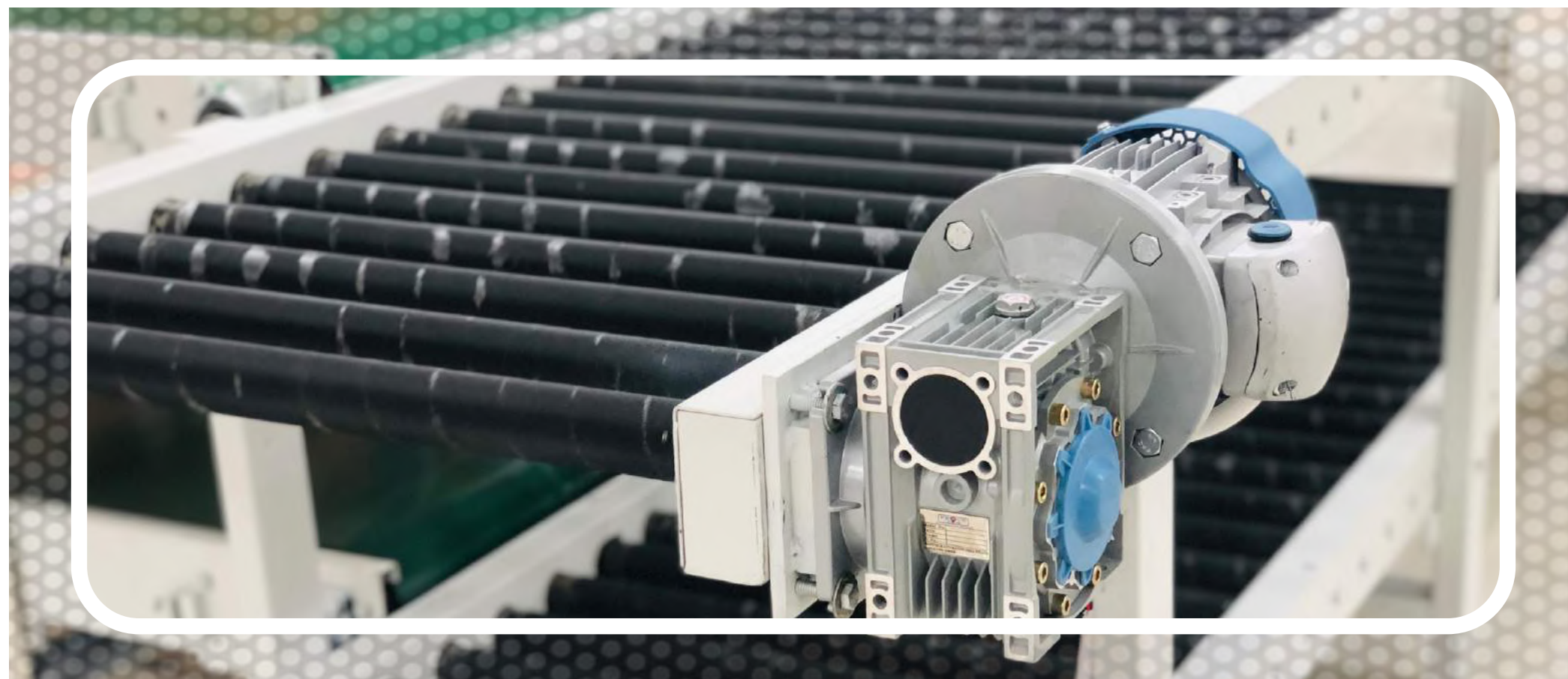
With powered roller conveyors, some or all of a conveyor's rollers are powered to propel the product down the line without any help of manual push. It also transfers the material quicker due to being motorized. This conveyor can be also setup to run only when the item is present on the conveyor by the use of sensors.

FEATURES

- Rugged Construction
- Corrosion Resistant
- Low Operational Cost
- Energy Efficient
- Long Performing Life

APPLICATION

- Convey loads of Cartons, Totes, Fixtures, Cardboard Boxes
- Non-Contact Accumulation
- Unitized
- Pallet loads when bottom boards are perpendicular to the rollers
- Pallet loads when bottom boards are parallel to the rollers
- Side loading/unloading
- Accumulation of loads



Flexible Conveyors have proven to be invaluable in some of the most demanding environments. Renown for flexibility and durability the Flexible Conveyors are perfect for loose loading and unloading applications. Loose loading eliminates 'dead space' created by pallets or roll cages.

Engineered to the highest standards required to ensure the rigorous demands of dispatch areas, distribution centres and parcel handling hubs. They are a cost-effective handling solution for all industries, large or small.

Flexible Conveyors are available as Powered, Gravity and Gravity Skate Wheel and can be quickly manoeuvred, stretched and positioned on braked swivel castors in seconds. Available in different configurations and they can be compacted to 1/3 of its size when not in use.

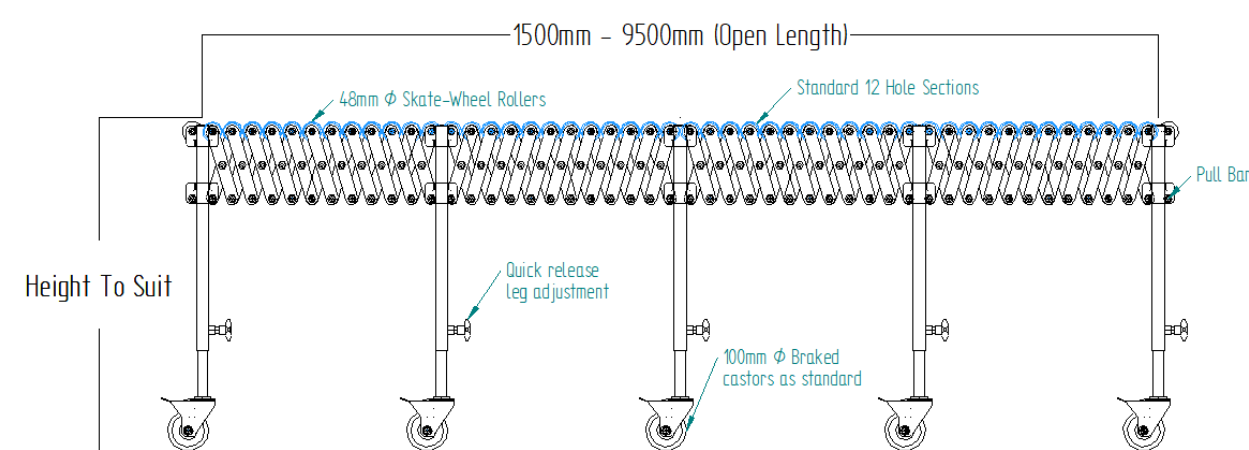


TYPES

- Gravity Roller Flexible Conveyors
- Gravity Skate Wheel Expandable Conveyor
- Powered Roller Flexible Conveyor

FEATURES

- Need min space to store
- Move anywhere you want
- Curve and twist the unit to avoid obstacles
- Couple multiple units to expand the transport length
- Swivel Castors with brake
- Adjustable height



Conveyor Type = EXP-PW Expanding Gravity Conveyor 48mm ϕ Skate-Wheel Rollers

Curved Roller conveyor is an ideal solution for moving items around 45,90 or 180 degree bends. They are generally required in the situations where the specific process being carried out is restricted by the floor space available. Having conveyor which can curve around and bend will maximums the production space available. Our Curved Conveyors comes with different ranging capacities, curve angles, accessories such as pop up stops, side rails etc. It can be designed completely based upon the requirement.

TAPERED ROLLER BEND CONVEYOR

Tapered roller conveyor systems are one of the best solutions for conveying loads of all types around curves. The speed at all points of the tapered roller tube changes to assure optimum transport of loads through the bend without any real need for guard rails. This means that the products will not fall off the conveyor whilst travelling around the curve due to the taper of the rollers and products will also remain in the same orientation on the conveyor as they were when they entered the curve.

PARALLEL ROLLER BEND CONVEYOR

Conveyor Bend Systems can also be constructed using parallel rollers and these are easier to design. However, a tapered roller system can offer finer tracking performance.

Parallel roller can be used in areas such as machine links, assembly areas, the packing industry and electronics as well as many other industries where the goods can be carried include anything with a stable base, such as tote boxes, containers, cases and cartons.

FEATURES:

- ✓ Different drive concepts (gravity, tangential chains, drive rollers) for a wide range of possible applications
- ✓ Friction rollers allow for accumulated operation
- ✓ For transporting piece goods such as solid boxes or pallets with rigid, flat bases
- ✓ Compact design for easy integration into complex machines
- ✓ Easy to install and maintain



APRON/PAN CONVEYOR

The apron conveyor is a type of conveying system with overlapping plates commonly used in bulk handling industries that process materials from waste streams and sand and gravel, ores, soils, fertilizers, etc. It can carry both large and/or heavy items and is also very suitable for bulk.

We can design a wide variety of models and shapes and include various materials to suit your requirements. Think of features such as inclined design. Or the application of durable materials to resist heat, abrasion and wear and tear. We construct an installation that can withstand the impact over a long period of time making it one of the most cost-effective solutions you can find.



FEATURES

- Modular Construction With Time-tested Components
- Compact And Robust Design
- Multiple Applications
- Wide Range Of Products Available
- Transport Of Hot And Abrasive Cement Clinker Possible
- Wear Resistant
- Long Service Life
- Heat Resistant
- Conforms To Atex Standards
- Removal Of Wet Ash – To Discharge Appropriate Ash Particulates

APPLICATIONS

- Coking Plants
- Blast Furnace Plants
- Metallurgical Plants And Steel Works Facilities
- Foundries
- Cement, Gypsum And Other Similar Industries

S.No.	ITEM	
1.	Speed	6-20 m/min
2.	Capacity	50-1000 m ³ /h
3.	Conveyor Length	as per client requirement
4.	Steep Feeding	up to 60°
5.	Chain Pitch	250 mm
6.	Pan width (Effective Width)	800-2500 mm
7.	Steel Plate Thickness Of The Pans	5, 6 or 8 mm
8.	Height Of Side Wings	100, 150, 200, 250, 300 mm
9.	Pans	St 37.2, St 50.2 high temperature special steels, manganese steel
10.	Bolts	High strength bolts to DIN ZA = 7.5 10.5 12.5 ZU = 7.5



Slat Conveyors use slats or aprons mounted on the twin strands of drive chains as the carrying surfaces, ideal for applications like high temperature ovens, heavy-duty goods or other tough conditions. Slats are usually made of engineered plastic, galvanized carbon steel or stainless steel. The slat/apron conveyors can move at a constant or variable speed depending on the requirements. Jigs/fixtures can be added to the slats to form assembling/production lines. Slat conveyors can be level or inclined to move goods between floors size available in standard size of 5 10 12 meters distance between centers of driving and driven pulleys depending upon requirement. Other sizes can also be offered capacity depending upon size of unit operation to be carried out number of workers and efficiency of workers.



INDUSTRIES

- Part Handling
- Bulk Material Handling
- Packaging
- Inspection
- Heat Treating
- Cooling
- Assembly
- Automation
- Casting
- Forging
- Feeder / Transfer

APPLICATIONS

- Non-Contact - Accumulation
- Zone Based with fixtures
- Pallet loads with bottoms not suitable for roller or chain conveyor
- Dirty, oily wet loads

FEATURES

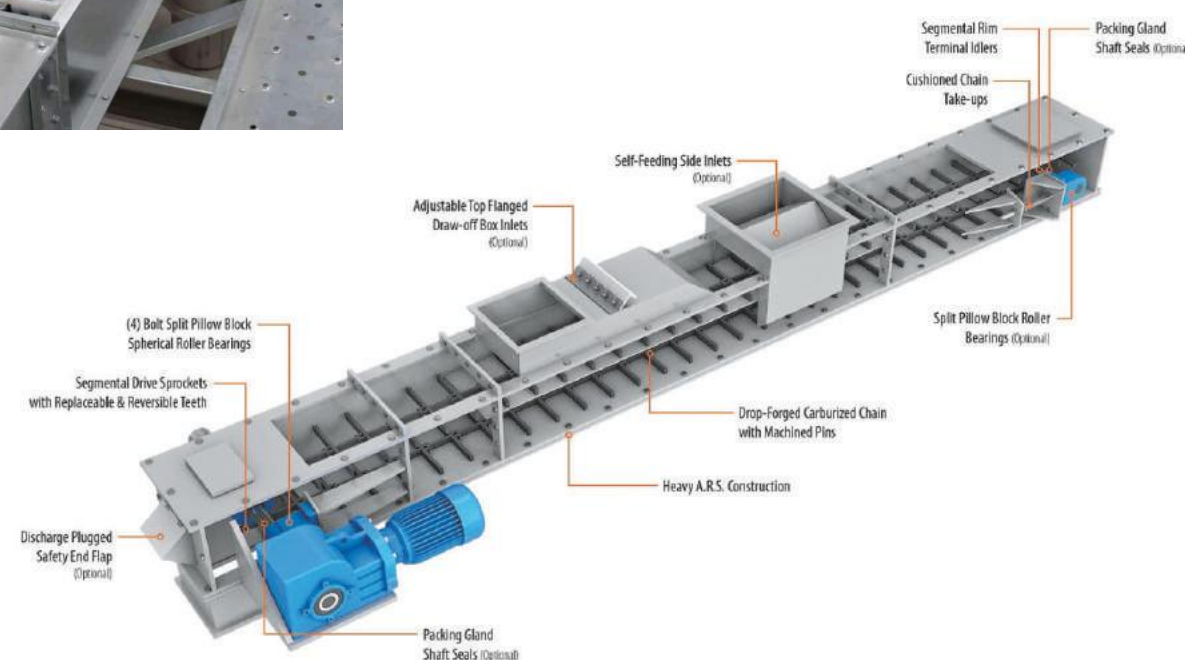
- Corrosion resistance
- Low maintenance
- Rigid Construction
- High Performance
- Robust Construction



DRAG CHAIN CONVEYOR

Aline Conveyor in the industry, we offer slat chain conveyor, en-masse conveyor and drag chain conveyor from India.

Our range of Slat Chain Conveyors, strand chain conveyors, slat chain roller and multi strand chain conveyors is manufactured using the high-grade raw material. These are offered at industry leading price and are widely demanded in various industries due to modularity offered due to compact construction. These conveyors comprise of slats which are connected by two or more strands with the help of attachments and the attachment depends upon the application.

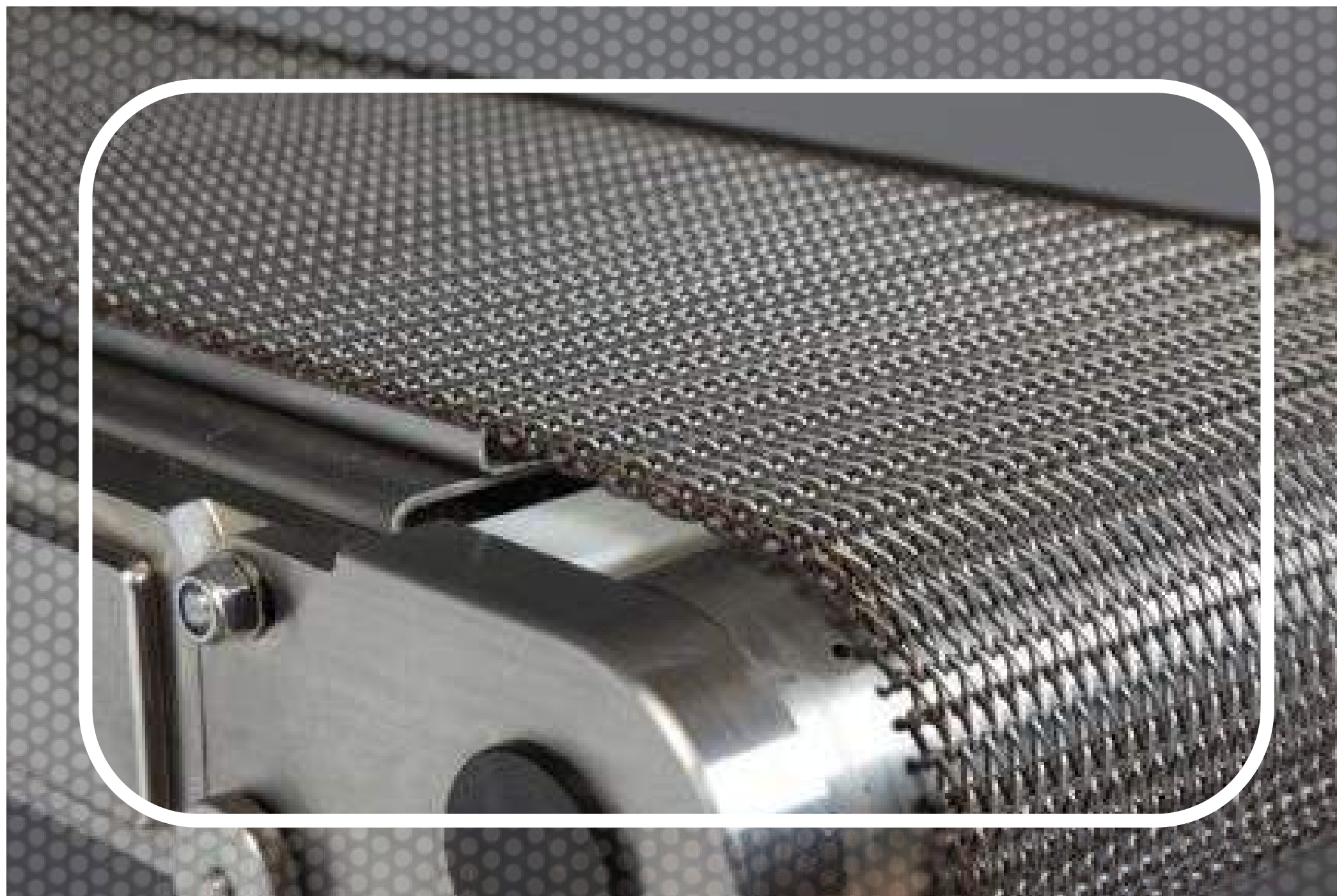


FEATURES:

- Slat can be removed easily
- Fixture can be mounted on the slats for typical application, such as assembly line conveyors.
- In case of inclined applications, product support can be bolted on the slats for holding the component.
- Powdered material can be handled horizontally without spillages or wastage by attaching bucket type slats.

Titan wire mesh belt conveyors can be used in a variety of conditions to convey hot, cold, or oily products in oven, cooling, carrying cold items from a freezer, hot food items or other special conditions. A variety of belt types can be used depending on the application. It's designed to interface with existing conveyor systems and is custom engineered from standard components.

Titan offers the Model 124 Wire Mesh with two styles of deck. The roller bed deck is used for heavy loads over long distances, and the longitudinal deck offers an open style for better air flow. Wear strips are furnished in steel, stainless steel or plastic depending on the application.

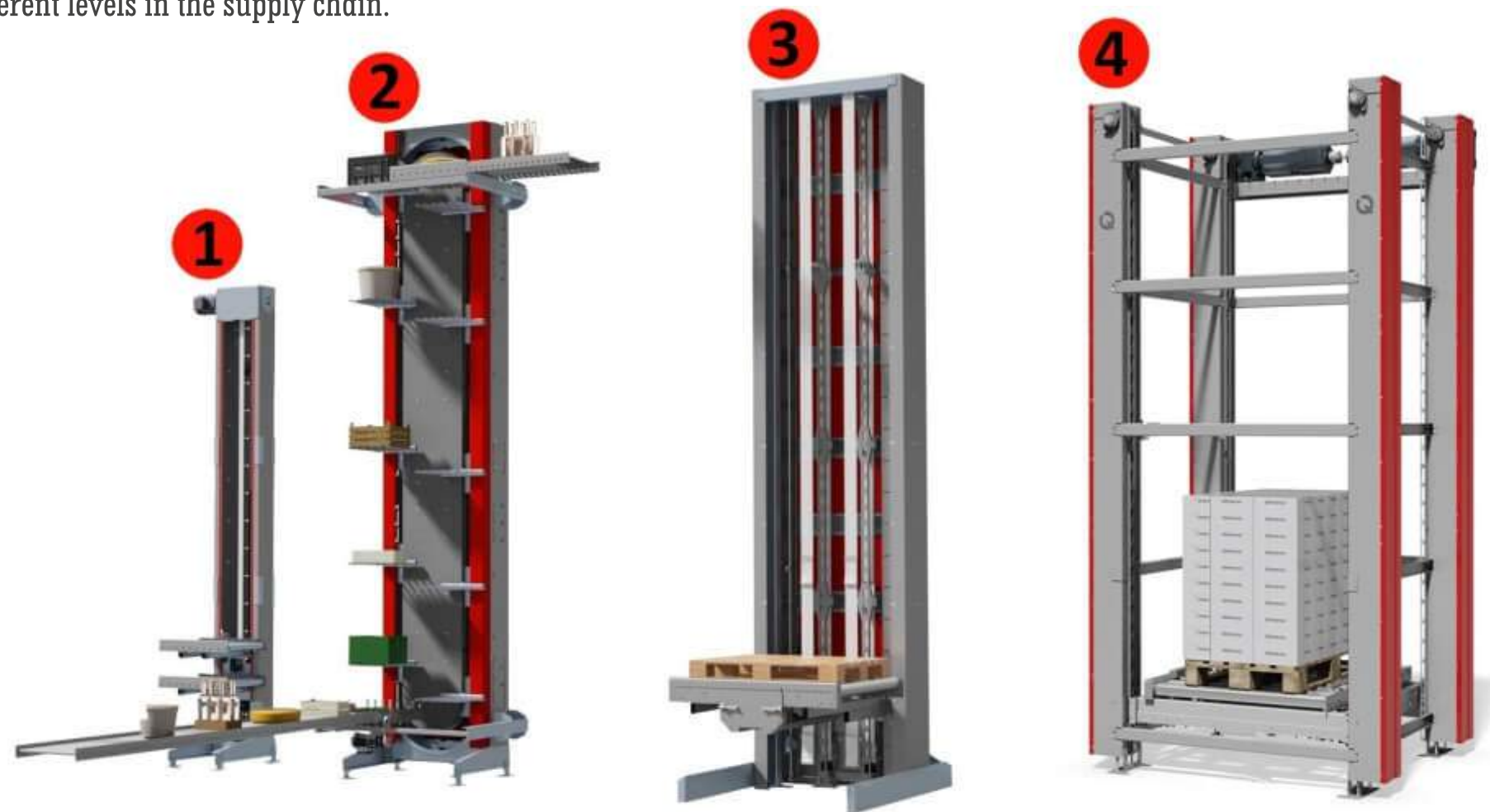


FEATURES

- Low Profile
- Heavy Wall Extrusion
- Dual "T" Slots (8.1mm) for More Mounting Area
- Bright Anodized Extrusion
- Sprocket Driven for Positive Chain Engagement
- High Temperature Applications
- Cleats Available

A Vertical Conveyor is a automatic material handling system used to lift different type of objects from one floor level to another within the same building. Containers, boxes, trays, packages, bags, pallets, etc. are easily and quickly lifted at a suitable height through vertical lift conveyor systems.

This energy-efficient vertical transfer conveyor is largely used in warehouses, production units and distribution centers for raising or lowering goods to different levels in the supply chain.



HOW IT WORKS

Implemented between the two horizontal conveyors, vertical conveyor is a elevator type lift which uses buckets, belts, screws to move products onto several floors economically and safely.

TYPES OF VERTICAL CONVEYOR

Most commonly used vertical conveyor systems for lifting boxes, cartons, totes, cases, pallets, etc. are mentioned below:-

- Vertical Reciprocating Conveyor (VRC)
- Continuous Vertical Conveyor
- Scissor Lift
- Vertical Bucket Conveyor

BENEFITS OF USING VERTICAL CONVEYORS

- Energy Efficient and highly productive.
- Reduces labor cost and increases profit margins.
- Best used in warehousing, logistics, manufacturing sectors.
- Improves space utilization by linking two work stations.
- Safer than forklifts or cranes
- Hydraulic, mechanical and fully automated systems.

TECHNICAL SPECIFICATIONS		
1.	Max Load (kg)	2000
2.	Capacity Upto (products/hour)	60
3.	Outfeed Height (meter)	2.75 - 15
4.	Footprint (m2)	3

Screw conveyors are used to convey the material continuously with the help of a rotating helical screw blade (known as flights) by shear and tumbling effect inside a U shaped trough or a round tube. They are generally used for handling fines of coal, crushed material, powders, cement, chemicals etc. The periphery of leading side of the helix is provided with hard face welding for handling abrasive material.

APPLICATIONS

CEMENT INDUSTRY

Cement, Dry & Damp Fly Ash, Coal Mill Dust, Clinker Dust, ESP Dust, Sepax Dust, Raw Mill / Kiln Cooler Dust

FOOD INDUSTRY

Soya bean cake and seeds, De-oiled cakes, Solvent extraction System for Edible oil industry, Sugar (Finished Goods)

CHEMICAL INDUSTRY

Stable Bleaching Powder, Soda Ash, Pue PTA, Hydrated Lime for Paper Industry, Polyfibre Industry and Bleaching Powder Industry, Carcinogen.

POWER INDUSTRY

Alternative Fuel (Rice Husk /Cow Dung)

PAINT INDUSTRY

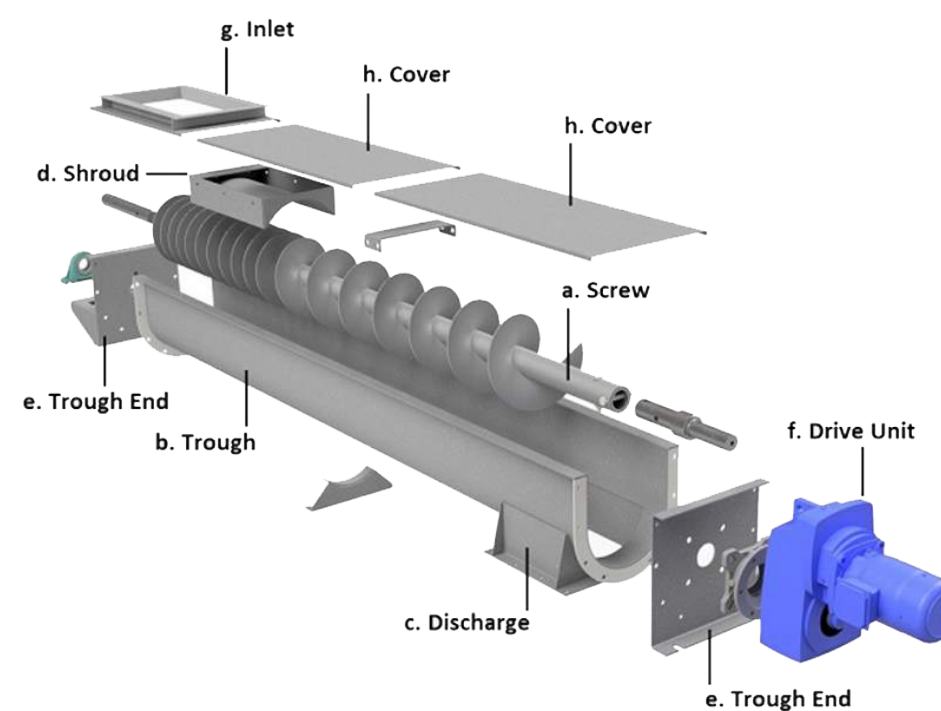
Sludge

STEEL INDUSTRY

Sinter Dust ; Iron Oxide Dust ; Burnt Lime , Calcined Lime, Pellet Dust

PAPER INDUSTRY

Burnt Lime



ADVANTAGES

- Compact and easily adapted to congested locations
- Can be used to control the flow of material in processing operations which depend upon accurate batching
- Are versatile and can be employed in horizontal, inclined and vertical installations.
- Can be used as a mixer or agitator to blend dry or fluid ingredients, provide crystallization or coagulant action, or maintain solutions in suspension.
- Can be sealed to prevent the escape of dust or fumes from inside the conveyor; or prevent dust contamination from outside the conveyor.
- Can be made out of a variety of materials to resist corrosion, abrasion or heat, depending upon the product being conveyed.
- Can be outfitted with multiple discharge points.

TYPES OF SCREW CONVEYOR

1. U-Type
2. O-Type
3. shaft less
4. live bottom
5. Plug screw
6. Feeder



We offer a variety of bucket elevator designs and sizes to handle materials ranging from dry dusty powders such as fly ash, to heavy materials such as iron ore pellets. Bucket elevators can be ordered in a number of configurations, including centrifugal belt, centrifugal chain, continuous belt, continuous single chain and continuous double chain.



APPLICATION & WORKING

Bucket Elevators are mainly used to transfer material from ground level to places at a height. It consists of a cotton or rubber belt that runs on one drive pulley located at the top while the other end is the driven pulley which is at the bottom inside a fabricated casing.

TYPES OF BUCKET ELEVATOR

Bucket elevators are available in

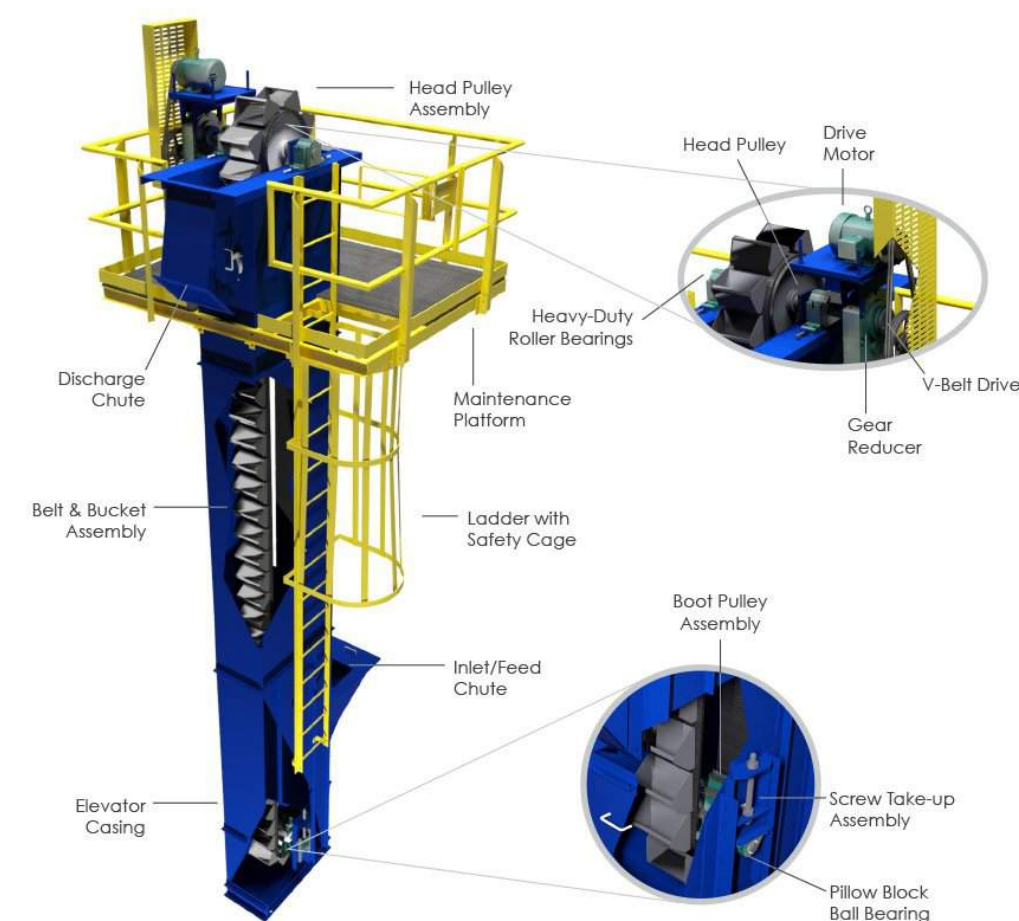
- Centrifugal
- Continuous
- Z-type

For these options, The elevator can be either the belt or the chain type.

FEATURES

- Removable top covers
 - Access doors for easy maintenance
 - Horizontally and vertically heavy-reinforced, jig welded head, boot, and intermediate sections
 - Adjustable throat plate at discharge
 - Inspection doors on both sides of discharge
- Service platforms and access ladders available

Mechanical Construction of a
BUCKET ELEVATOR



Towline conveyors can be used in a wide variety of applications where it is advantageous to carry products on mobile carts. Some products are considered "unconveyable" due to their shape, configuration or size. A typical example would be large four-legged furniture items.

It utilizes mobile carts, normally with a rotating top, onto which the item to be conveyed is placed. A variety of floor-mounted conveyors are used to propel the cart through the process, depending on the loading, speed and preferred configuration.

The ALINE™ Towline Conveyor system can be designed with on-floor or in-floor tracks. On-floor conveyors are attached to the floor surface without trenching. In this case, plant personnel must walk over the track, and forklifts cannot drive in the area of the conveyor. The drive unit may be situated in a "pit" or mounted above the floor. If mounted above the floor, provisions must be made where the cart crosses over the drive unit.



APPLICATIONS

- Finishing lines
- Assembly lines
- Wood industry – for large or awkward items that need to move through production and finishing process, the Towline cart provides a convenient means of holding, conveying and rotating the wood item.

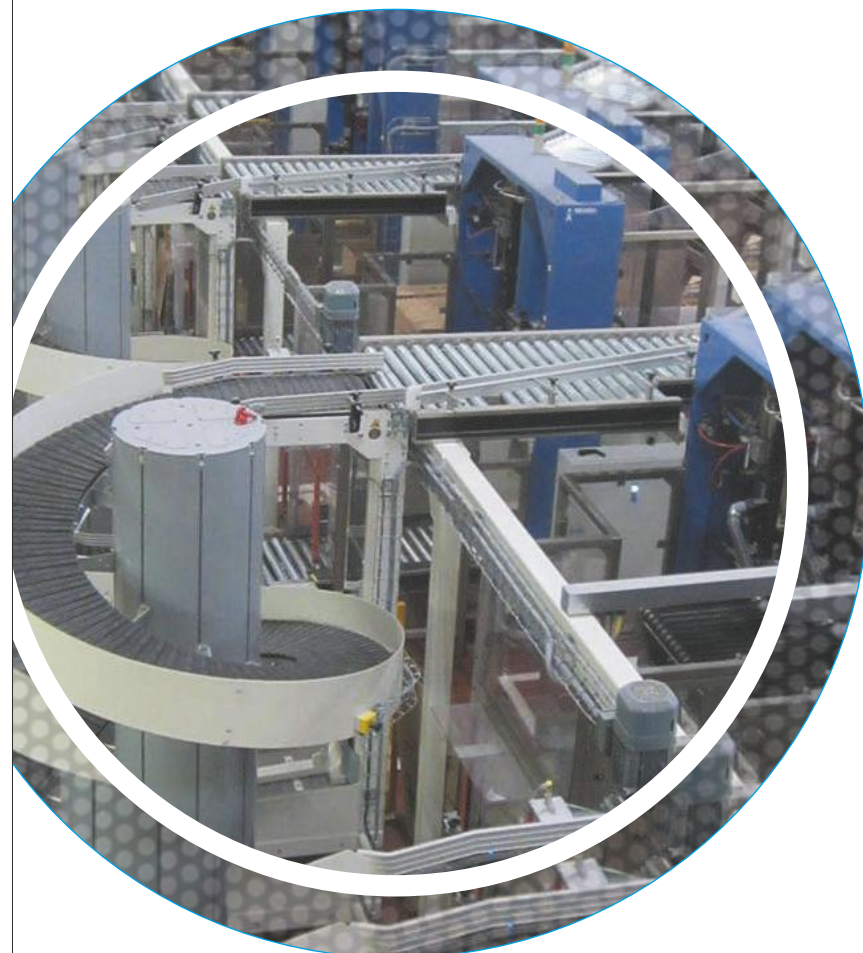
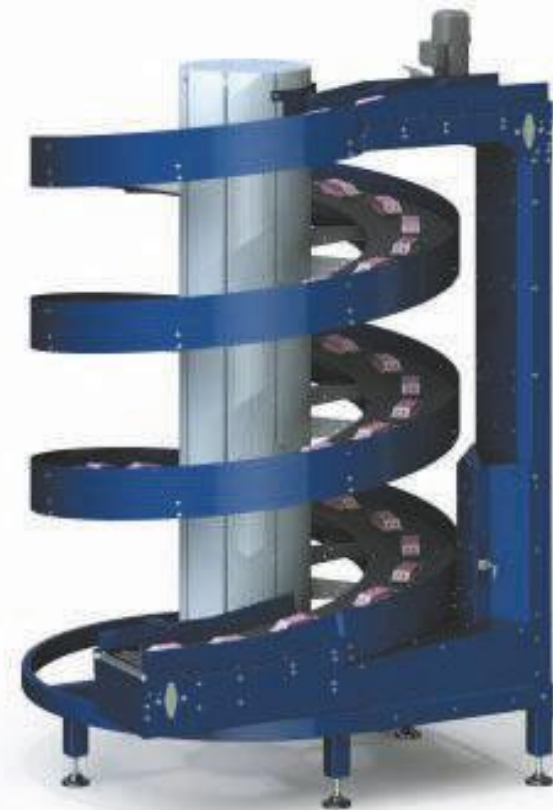
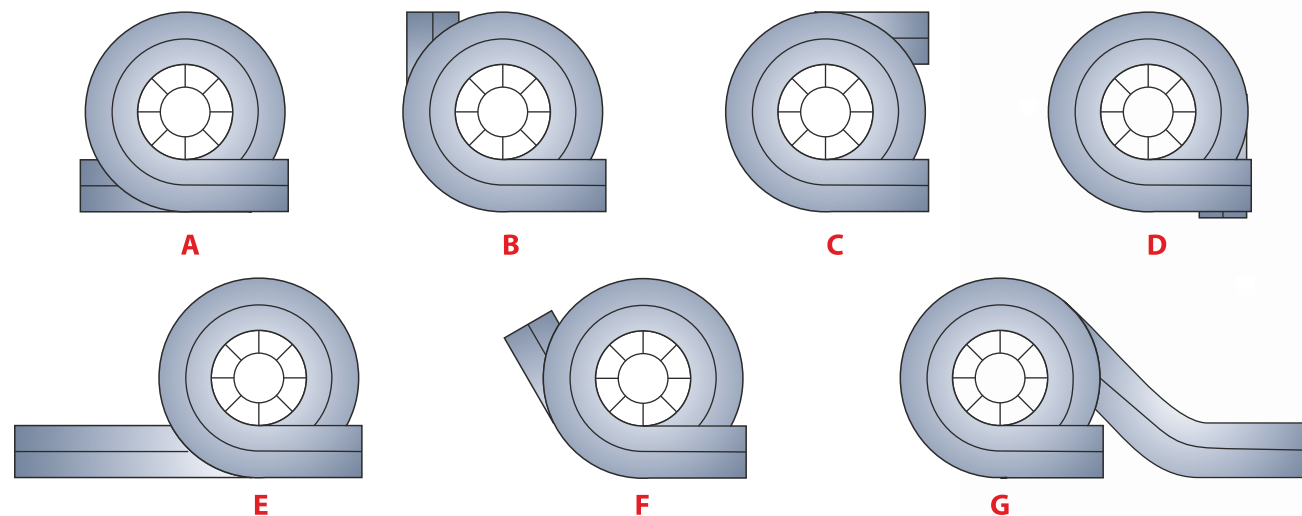
FEATURES

- Standard 4-wheeled cart is propelled by a drive chain.
- Towline track can be in-floor or on-floor mounted with minimal cross section height.
- Top platens can be custom designed based on size, shape and weight of the item being conveyed.
- Platens can be rotated manually or automatically for close packing.
- Reliable conveyor chain used with ball bearing wheels instead of "link" chain to reduce maintenance.

SPIRAL CONVEYOR

Aline Spiral Conveyor effectively handles any conveyable loads including bundle totes, trays, pales shrink wrapped cans & bottles. It can be used as elevator and lowerators in packaging lines having 24 x 7 operations. No wonder, Spiral Conveyor are used across broad spectrum of industries like logistics, foods & beverages.

SPIRAL CONVEYOR DESIGNS



ADVANTAGES

- Low Chain Tension.
- Design and Product range Versatility.
- Low Maintenance.
- Easy to Assemble.
- Outstanding Load Capacity & Smooth Operation.

FEATURES

- Small footprint- Spiral Conveyor takes very less space for installation.
- High Throughput- The spiral conveys load up and down in continuous flow. It can operate at a speed of 30 mtr/ min.
- Requires One Drive- Leads to substantial energy and cost savings.
- Easy to install- Spiral Conveyor comes in one piece, pre assembled and pre tested.
- Low Maintenance- The slats needs no maintenance and can be replaced as single component without any special tool.
- High Quality- Chain & Bearings are heavy duty and long lasting.

TECHNICAL SPECIFICATION :

BELT WIDTH	600 MM WIDE
BELT MOC	UHMWPE
BELT DIRECTION	REVERSE/FORWARD
BELT DRIVE	GEAR MOTOR
MATERIAL	STAINLESS STEEL/MILD STEEL
OUTER DIAMETER	2000-2500 MM
LOAD	APPROX 50 KG/MTR
POWER SUPPLY	3 PHASE 415V AC, 50 HZ
CONTROL PANEL	FITTED ON THE CONVEYOR
NOISE LEVEL	50-70DB

ALINE offers the most comprehensive line of engineered chip conveyor product solutions for your machine tool chip removal and scrap removal applications. From small lathes and machining centers to large gantry mills, for individual machines or central systems serving groups of machines, we can design the right chip conveyor solution for your requirements. We can build conveying systems to move chips hundreds of feet across your plant to central collecting points.

HINGED TYPE

Hinge-belt chip conveyors (or hinge conveyors), the most common format, offer an effective means of managing heavy chip loads and stringy chips. Chips that fall from the machine tool land on the conveyor belt and are conveyed away from the machine tool's precision surfaces.

MAGNETIC TYPE

Magnetic chip conveyors are intended for ferrous material applications with small chips. The chips fall onto the conveyor's stainless steel surface and are conveyed by powerful magnets moving underneath. The chips are released from the magnets at the discharge end, and fall freely into a collection container.

SCRAPER TYPE

Scraper-type chip conveyors are most often used for cast iron, bronze or brass machining, which produces smaller chips that can nest together. Chips fall directly to the bottom of the conveyor, and scrapers drag debris to the discharge end of the conveyor.



The Truck Loading Conveyor is useful for simple tasks like unloading or loading trucks and taking it to the first floor or plainly to move the material to any places where material needs to be moved rapidly and efficiently.

Almost all Hydraulic components are of reputed make and easily available. Able to reach all the way inside the front of the truck is a challenge that is faced by all industries especially in the time of non-availability of manpower as well as the need for improved ergonomics which leads to better morale of workers and also improves the safety record of your factory

ALINE CONVEYOR ranges of truck loading conveyors are available with hydraulic inclination height ranging system and telescopic arrangement to suite Loading & Unloading in Trucks & Containers.

FEATURES

- ✓ Excellent design and workmanship
- ✓ Robust but light in weight
- ✓ Safe and easy to operate
- ✓ Available in Slider bed with grip top belt
- ✓ Virtually Zero maintenance unit
- ✓ Height adjustment at rear as well as front
- ✓ Speeds of up to 30 m/min can be achieved
- ✓ Can be integrated into other modules like telescopic conveyor which will automatically change the length depending on the position inside truck
- ✓ Dead roller conveyors which can take the parcels inside the warehouse
- ✓ Maintenance free bearings and drive system
- ✓ Can be moved by one person around the floor

APPLICATION

- ✓ Warehouses
- ✓ Textile industry
- ✓ Warehouses
- ✓ Spare Parts
- ✓ Foods & Beverages
- ✓ Logistics
- ✓ Aviation
- ✓ Medical
- ✓ Grains
- ✓ Courier
- ✓ Cement industry
- ✓ Chemical industry



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