



EFFICIENT CONVEYORS SYSTEMS

An ISO 9001:2015 Certified Company



CONVEYOR
EQUIPMENT
MANUFACTURES

YEAR 2020
CB-PR-01

EFFICIENT CONVEYORS SYSTEMS

Efficient Conveyors Systems Specialized in industrial automation in the sector of overhead and floor conveyors. Established in **2019**, **ECS** 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.



OUR INFRASTRUCTURE

We have developed our infrastructure in a proper manner to assure hassle-free performance of our various business activities. Our business premises are fully equipped with modern-day facilities and essential resources to provide non-stop support to our production operations. High-performing and reliable machines and tools are installed in our manufacturing facility to deliver flawless gamut of products. We have a **spacious and well organized warehouse** for the categorical and safe storage of our finished products.



OUR MISSION

Our Mission is to develop and supply high-quality, safe products that will satisfy customers and consumers and earn their trust while safeguarding personal information and customers information.



OUR VISION

Efficient Conveyors Systems has a reputation for providing robust and high-quality solutions. We Specialise in providing our Clients with Excellent material handling solutions and services.



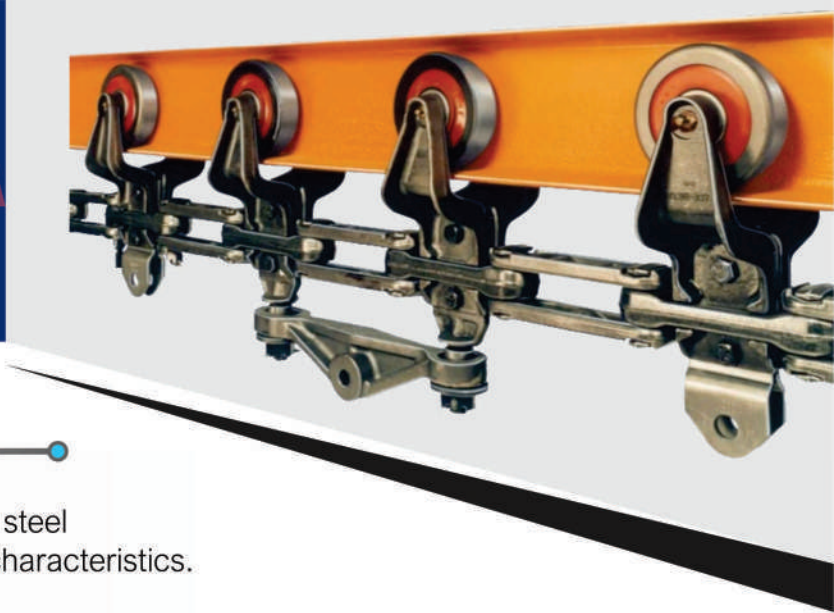
OUR VALUES

Quality, Passion, Ambition,
Team Spirit,
Trustworthiness

I-BEAM CONVEYOR

Features

The I-Beam Track is made of special high carbon steel that having outstanding wear and load carrying characteristics. The straight



Web Guide Roller

Roller Turn Roller:

The rollers are pre-lubricated to be used in an operating range of 32 to 350 F. They are regreasable with grease bolts. "Seal-for-life" type is also available upon the request.

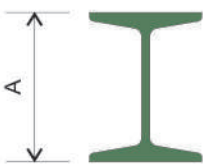
- ♦Single Labyrinth Shields formed from heavy gauge steel.
- ♦Each roller has a full complement of 20 - 1/2" diameter precision steel balls - 10 balls on each end.
- ♦Standard re-lube provision via center-pin. Also available with oil hole in top bearing shield.



I-BEAMTRACK:

The I-Beam Track is made of special high carbon steel that have outstanding wear and load carrying characteristics.

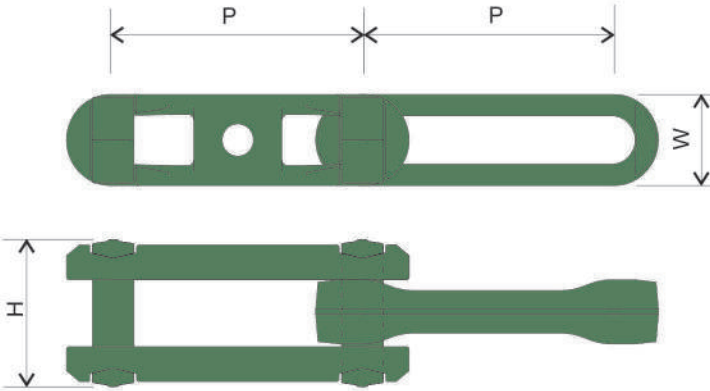
The straight track is stocked in 20'-0" lengths.



A	Weight	Part Number
3"	5.7lbs/ft	7063
4"	7.7lbs/ft	4213
6"	12.5lbs/ft	5230

Rivetless Chain:

The -Beam Chain is drop-forged and heat treated for added strength and resistance to corrosive and abrasive wear. This type of chain has the advantages of a high strength to weight ratio, excellent wear qualities, and the ability to flex easily both horizontally and vertically for negotiating curves. The heat treating also provides the ability to withstand high shock loads. This chain can also be easily assembled and disassembled without tools simply inserting or removing the pin in the center link. The chain has a symmetrical design which allows for 180 degree rotation, if a new wear surface is required.



Chain	P	W	H	Weight
X-348	3"	15/ 64"	13/4"	2.25lb/ft
X-458	4"	1 27/64"	21/4"	3.10lb/ft
X-678	61/ 16"	2"	31/8"	6.50lb/ft

NEW XS Series Chain:

Unique chain pin design and special high strength alloy steel make our new XS series chain last longer and more cost effective.

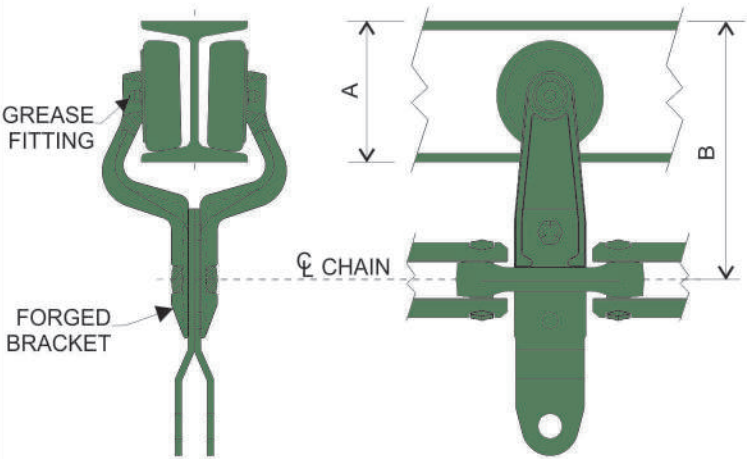
eXtra Strong Chain

Chain	Weight	Average Ultimate Strength
XS-348	2.1lb.	37,000 lb.
XS-458	3.1lb.	65,000 lb.

It is completely interchangeable with existing chains.

Trolley:

A standard trolley half is equipped with a full ball complement trolley wheel and a drop forged steel sidearm. Trolley wheel are completely enclosed by sheet steel triple labyrinth seals at the sidearm and a solid steel welsh plug on the outer face as an option. The wheel assembly is lubricated thru a grease fitting in the sidearm which has been designed so that the grease fitting is protected in a recess within the sidearm.

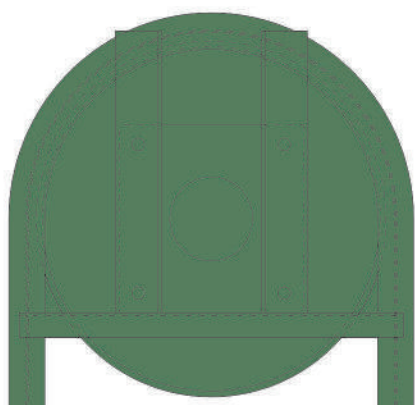


Trolleys listed are in stock and packed with Hi-temp grease which will also operate at normal temperatures.

Chain	A	B	Weight Per Pair	Single Capacity	Loadbar Capacity
X348	3"	51/2"	3lb.	200 lb.	400 lb.
X458	4"	73/ 16"	10lb.	400 lb.	800 lb.
X458	4"	8"	10.1lb.	400 lb.	800 lb.
X678	6"	10"	20lb.	1200 lb.	2400 lb.

3" Trolley - X-348 Chain - 3" I-Beam Track

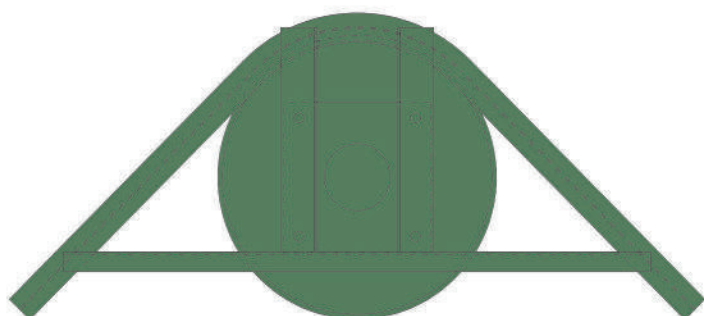
Load lb/trolley	Radius Feet	Trolley Spacing-Inches				
		6	12	18	24	30
50	6	1800	1800	1400	1050	840
	8	1800	1800	1800	1400	1120
100	6	1800	1800	1200	900	720
	8	1800	1800	1600	1200	960
150	6	1800	1500	1000	750	600
	8	1800	1800	1333	1000	800
200	6	1800	1200	800	600	480
	8	1800	1600	1066	800	640
250	Monoplane Only 1800					



180 Degree Turn



30 Degree Turn



90 Degree Turn

Allowable Chain Pull:

The charts readily gives allowable multiplane capacities for trolley loading, radii, chain pull and recommended trolley centers.

For special requirement, consult us for more details.

4" Trolley - X-458 Chain - 4" I-Beam Track

Load lb/trolley	Radius Feet	Trolley Spacing-Inches				
		8	16	24	32	40
100	8	4000	4000	2800	2100	1680
	12	4000	4000	4000	3150	2520
200	8	4000	3600	2400	1800	1440
	12	4000	4000	3600	2700	2160
300	8	4000	3000	2000	1500	1200
	12	4000	4000	3000	2250	1800
400	8	4000	3600	2400	1800	1440
	12	4000	4000	3200	2400	1920
500	Monoplane Only 4000					

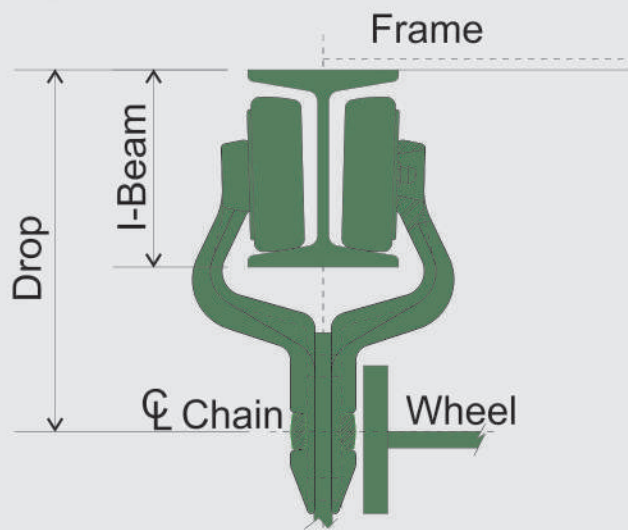
Traction Wheel Turns:

Horizontal traction wheel turns are used to obtain horizontal changes of direction. They are preferred when a small radii is required or in a high temperature application.

A complete turn includes a structure steel frame and a plate wheel. Two types of bearings are available - self aligning roller bearing for ambient temperature and carbon style for high temperature applications.

Spoke type wheel is available for large radius turns. Flush type frame is available for limited overhead room.

Standard radius include 18", 24", 30", 36", 42", 48", 54", 60" and 72". Standard angles include 30, 45, 60, 90 and 180. Customized turns are available.



RollerTurns:

Roller turns are the most economical means of obtaining horizontal changes of direction. These assemblies consist of a series of double-row ball bearing rollers, fitted between 2 curved steel retainer bars, held by cast iron mounting brackets to a structural steel platform complete with track.

The rollers are supplied with plain button head axle bolts and are also available with hollow axle bolts complete with a mite fitting to lubricate the bearing assembly.

Single Labyrinth Shields formed from heavy gauge steel.

Each roller has a full complement of 20 - 1/2" diameter precision steel balls - 10 balls on each end.

Standard re-lube provision via center-pin. Also available pre-lube and seal-for-life style.

Available for 3", 4" and 6" chain, with standard 1/2" diameter bores and 2 3/4" diameter O.D. Other bore and O.D. Sizes available on request.

Standard radius include 18", 24", 30", 36", 42", 48", 60" and 72". Standard angles include 30, 45, 60, 90 and 180. Customized turns are available.

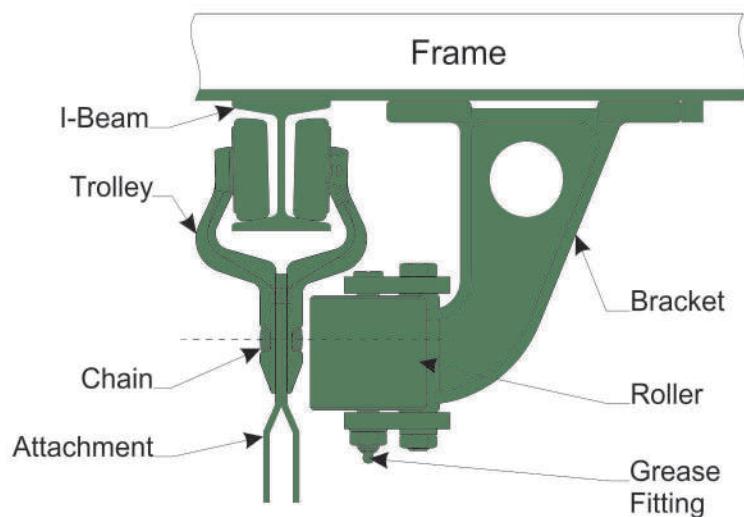
Roller Turn Roller:

The rollers are pre-lubricated to be used in an operating range of 32 to 350 F. They are regreasable with grease bolts. "Seal-for-life" type is also available upon the request.

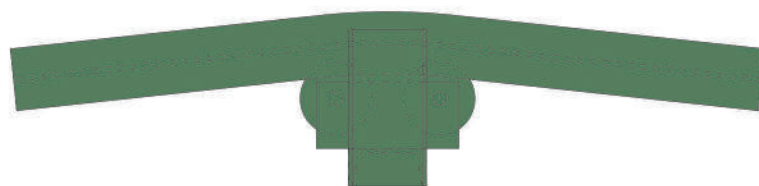
- ♦ Single Labyrinth Shields formed from heavy gauge steel.

- ♦ Each roller has a full complement of 20 - 1/2" diameter precision steel balls - 10 balls on each end.

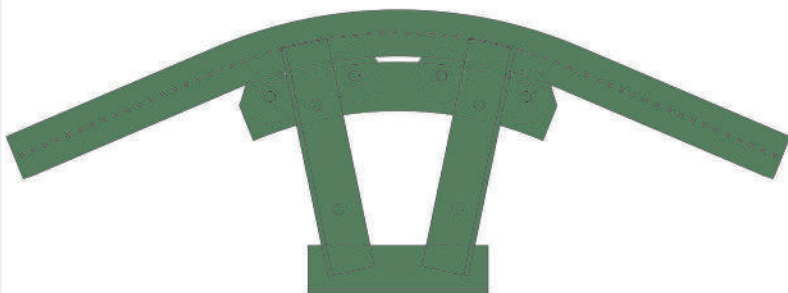
- ♦ Standard re-lube provision via center-pin. Also available with oil hole in top bearing shield.



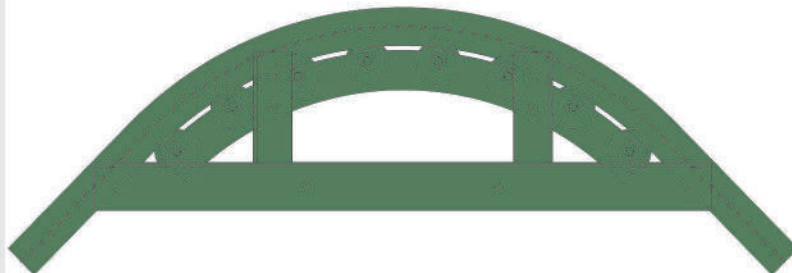
Typical Roller Turn Section



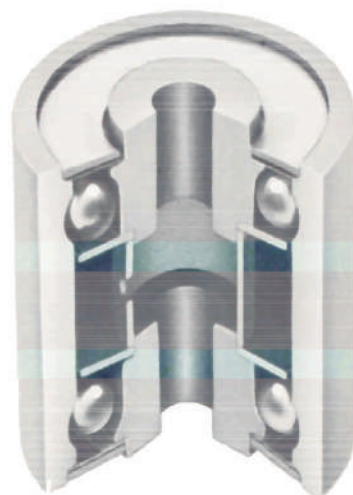
15° or less Turn



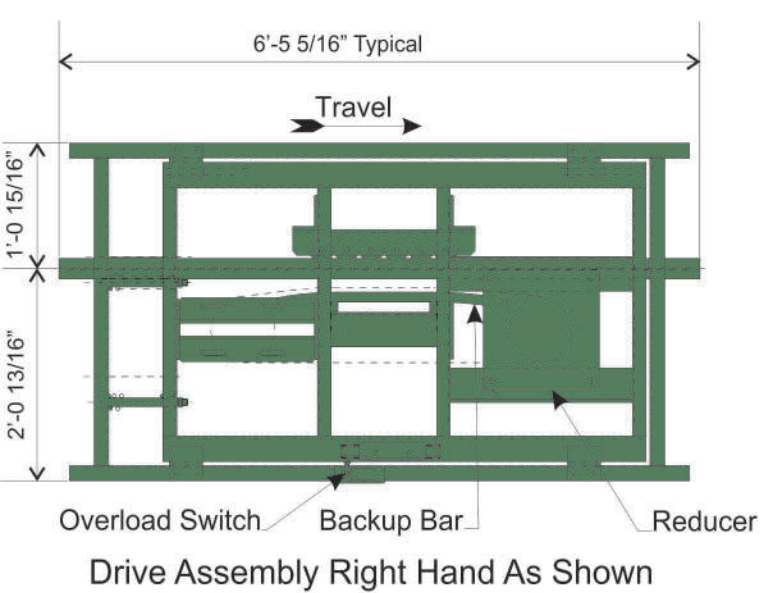
45° or less Turn



More than 45° Turn



Roller Turn Roll

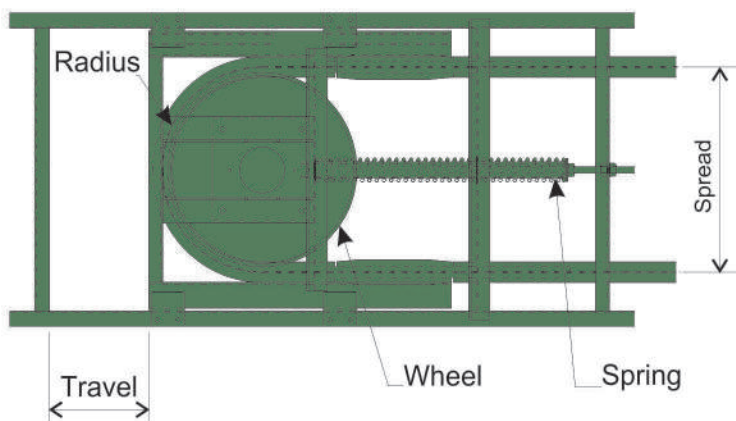


Drives:

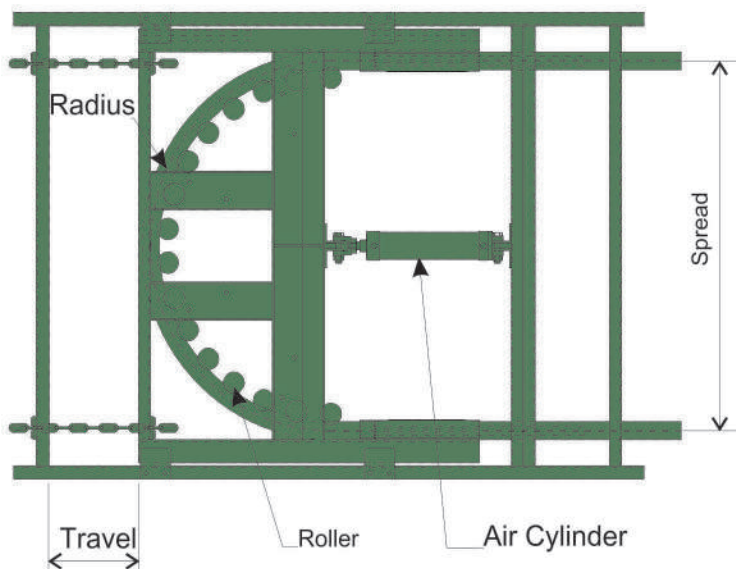
Floating caterpillar drives can be installed in any straight portion of the track. They are more flexible than sprocket drives in their application, having few limitations in regard to mounting location.

Allied caterpillar drives use a heavy extended pitch precision roller chain. Machined steel dogs attached to the caterpillar chain transmit power to the conveyor chain. The caterpillar chain is driven by machined steel sprockets and is held taut by an integral take-up arrangement provided at the idler sprocket.

As the chain pull thru the drive is increased, the compression springs between the floating inner frame and the fixed outer frame are compressed as the inner frame moves against the direction of travel of the conveyor chain. A shut-off limit switch is located in such a position as to stop the drive when overload occurs.



TRACTION WHEEL TURN SPRING TAKE-UP



AIR OPERATED ROLLER TURN TAKE-UP

Take-ups:

An overhead conveyor take-up is provided to compensate for chain wear or stretch, and is generally considered a necessity for satisfactory conveyor operation.

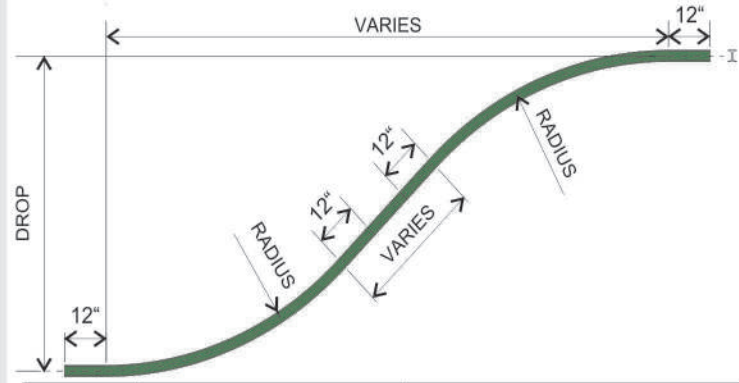
Take-ups are available in both roller turn or traction wheel type, and are either manual screw operated or automatic air cylinder operated or automatic spring operated. The latter is the most commonly used. Counterweight type take-ups also are available.

Take-ups should be located at a 180° turn and on the output side of a drive. They should be placed if possible, at the bottom of a vertical dip where they have a greater tendency to pull slack chain away from the drive unit.

Vertical Bends:

The track is rolled for vertical inclines and declines. Vertical bends are stocked in 15°, 30° and 45°. Compound vertical bends are also available.

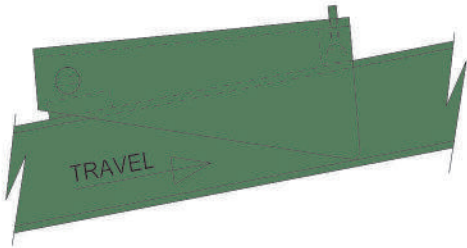
The charts at right side illustrates the maximum trolley spacing permissible on vertical bends to guarantee longer trolley and chain life.



Trolley Centers	Minimum Radius			Recommended Radius		
	348	458	678	348	458	678
8"	-	3'-6"	-	-	6'-0"	-
12"	4'-0"	-	6'-0"	5'-0"	-	12'-0"
16	-	5'-6"	-	-	8'-0"	-
18"	5'-0"	-	-	6'-6"	-	-
24"	6'-6"	7'-0"	11'-0"	8'-0"	10'-0"	15'-0"
30"	7'-8"	-	-	10'-0"	-	-
32"	-	9'-0"	-	-	12'-0"	-
36"	9'-0"	-	16'-0"	12'-0"	-	20'-0"

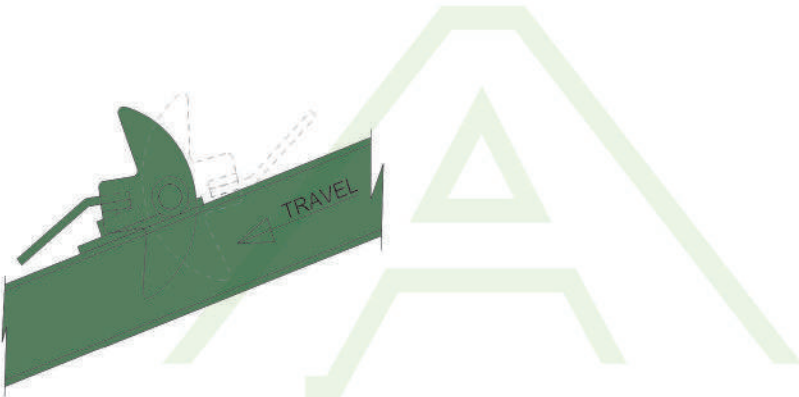
Uphill Stops:

When desired, Uphill Stops (also called Anti-Backups) are available for mounting on vertical inclined track bends. In case of chain failure these stops are always in position to prevent any“runaway” and possible injury or damage.



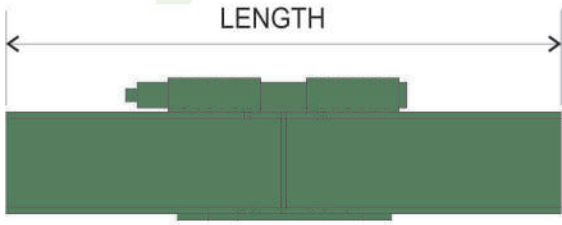
Downhill Stops:

Downhill Stops (also called Anti-Runaways) serve the same purpose on the vertical decline track bends, usually equipped with a limit switch to stop the drive unit from feeding further chain and trolleys against the actuated stop.



Expansion Joints:

Expansion joints are used mainly in ovens and are located in each track in the area of the oven expansion joint. This allows both oven and conveyor to expand and contract together.



Lubricators:

For maximum life and smooth conveyor travel, the conveyor chain pins and trolley wheels should be reasonably well lubricated. For this purpose Allied can supply automatic oil-mist units for use on the chain and trolleys, or if preferred an automatic grease dispensing unit for the trolley wheels.

TrolleyAttachment:Standard"H"Attachment

- This is the most widely used type of trolley attachment and is suitable for almost any type of hook and rack.

ChainSize	BottomGap	BottomHole
X-348	9/16"	17/32"
X-458	11/16"	17/32"
X-678	13/16"	13/16"

"I"Attachment - Intermediate trolleys with no load use this type of attachment.

"B"Attachment - This type of attachment is usually used with load bar assembly which hung from a pair of trolleys. (See Load Bar Assembly below)

IntermediateAttachment - This assembly consists of a pair of intermediate "H" attachment and a pair of filler attachment. It can be attached to chain without trolleys.

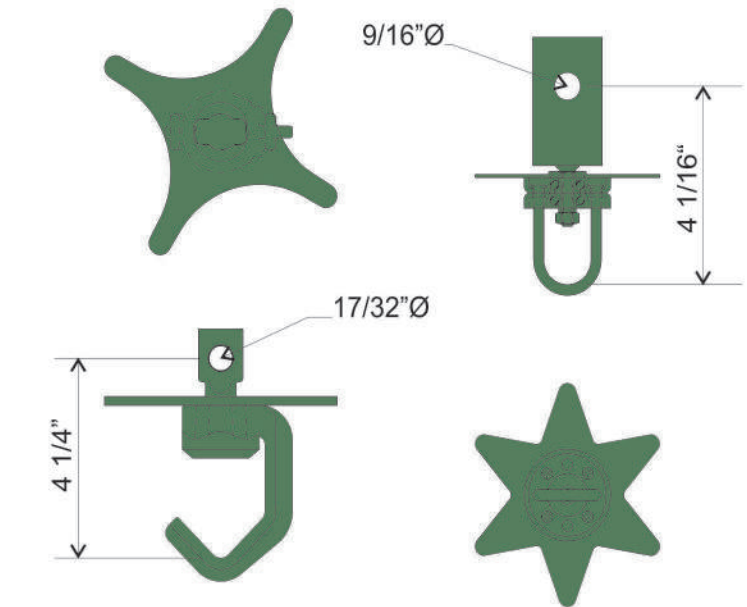
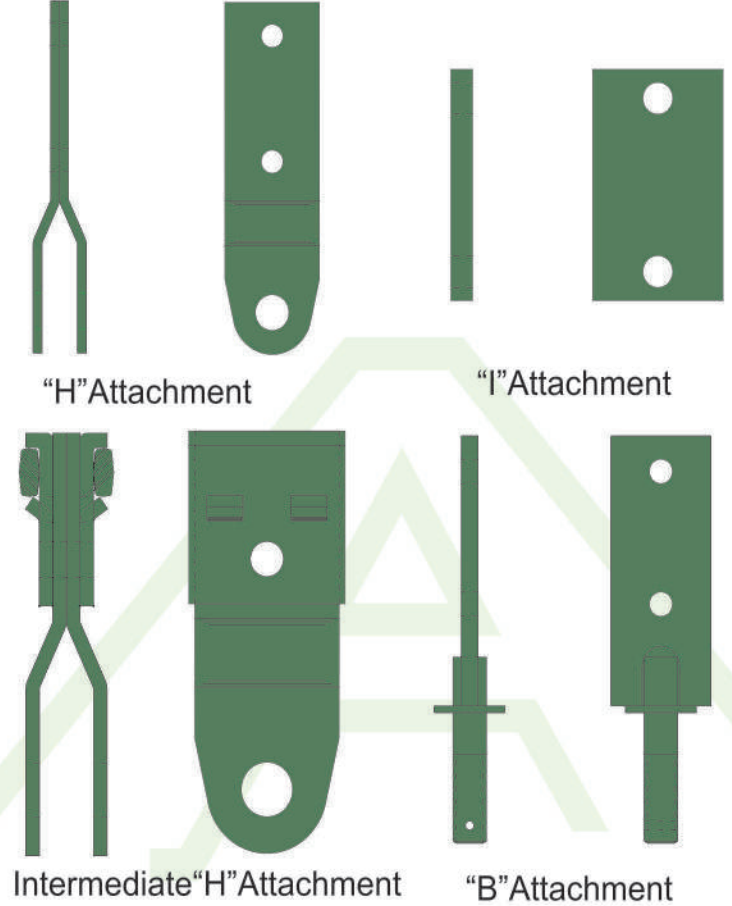
Chain Size	Bottom Gap	Bottom Hole	Hardware
X-348	9/16"	17/32"	5/16-18Boltx3/4" Lg.
X-458	11/16"	9/16"	3/8-16Boltx1" Lg.
X-678	-	-	

90° Indexing Swivel Hook - Cast two piece cam construction provides 90 degree indexing. A four point star as shown is optional and ordered seperately.

Swivel Rotator - This free spinning ball bearing swivel assembly can be rotated by hand or automatically rotated at any point on the system with the installation of a rub rail. A six point star as shown is optional and ordered seperately.

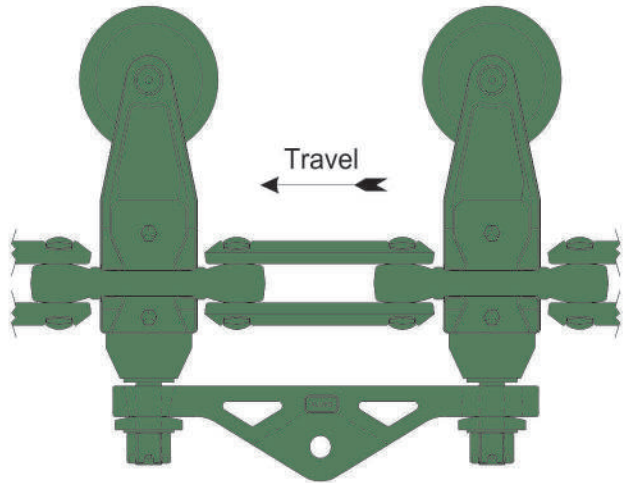
Load Bar Assembly - To increase the capacity of the trolleys, load bars are recommended, suspended from two "B" attachments.

ChainSize	Capacity	BottomHole
X-348	400 lb.	9/16"
X-458	800 lb.	11/16"
X-678	2400 lb.	13/16"



90° Indexing Swivel Hook
Capacity: 150 lb.

Swivel Rotator
Capacity: 75 lb.



Load Bar Assembly



4 WHEEL AND MINI 4 WHEEL CONVEYOR

We are known manufacturer and supplier in the market, offering Four Wheel & Mini Four Wheel Overhead Conveyors to our customers. These are best in moving items between stations, particularly in high facilities and custom build and assembled according to the clients needs.

Features

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



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 47mm x I/D 12.8mm x 14 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 5 mm
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

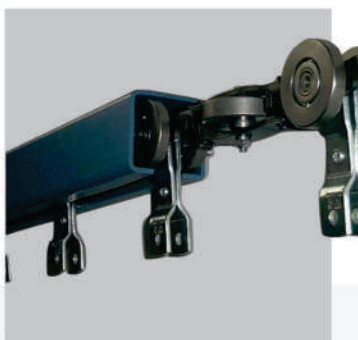
ENCLOSED TYPE OVERHEAD CONVEYOR



The Efficient Conveyors Systems Enclosed Track Conveyor is a highly compact, medium capacity, chain conveyor with unique features to allow for maximum conveying flexibility in small spaces

Features

- Design Flexibility
- Improved Work Environments
- Modular Construction
- Design Options



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	En8
Max Load Capacity	30Kg
Average Tensile Strength	5000Kgf.
Drive Unit	It is Caterpillar Type



Advantages

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





BELT CONVEYOR

The belt conveyor is very flexible, able to form bends, as well as gradients.

It also permits a very wide range of belt material and geometry, including such things as antibacterial belts for the food industry, contoured and/or flighted belts for aggregate handling, wire mesh belts.

Features

- Long operational life
- Easy to install
- Minimum maintenance



INCLINED BELT CONVEYOR

Available with cleated plastic belts, modular plastic belts, or standard flat belts, in addition to add-ons like side rails, our inclined belt conveyors are highly versatile material handling tools useful in a wide variety of industrial applications.

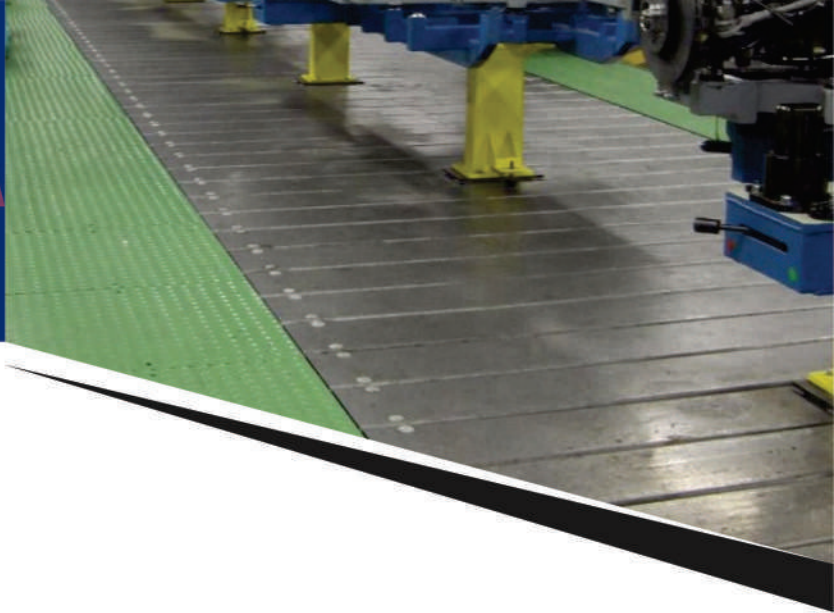
If you don't see anything that meets your exact requirements, PSASPL can work with you to create a custom inclined conveyor system suited specifically to your needs.

Features

Move products between floors, from floors to mezzanines, or to overhead conveyor lines. Inclines move at a standard 65 feet per minute, to ensure that a choke point is not created. Our complete incline conveyors come with motor, reducer, brakes, supports, and lower horizontal feeder section. Motors are reversible, reducing downtime if products need to be taken off.



SLAT CONVEYOR



Slat Conveyors are Conveyors employing one or more endless chains to which non-overlapping, non-interlocking, spaced slats are attached. Slat conveyors consist of endless chains, driven by electric motors operating through reduction gears and sprockets, with attached spaced slats to carry objects that would damage a belt because of sharp edges or heavy weights.

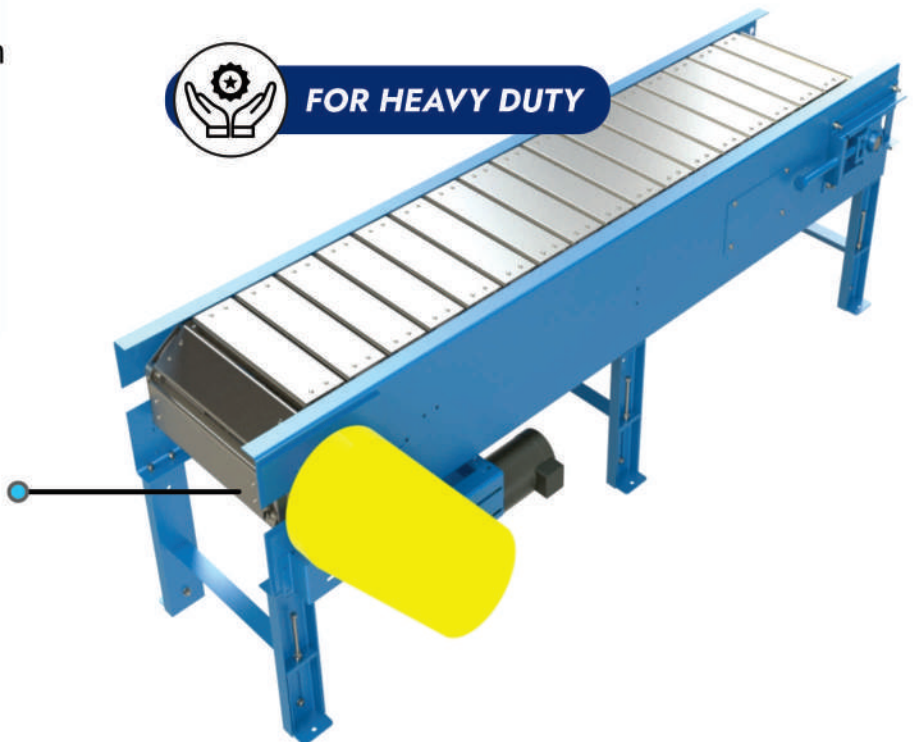
Application

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



FOR HEAVY DUTY

**SLAT
CONVEYOR**





ROLLER CONVEYOR

We are a profound manufacturer & supplier of a precision engineered assortment of Roller Conveyor Systems. Our offered range caters most economical solutions to the clients for carrying heavy weight materials from one point to another. Our range fabricated using high grade raw materials and advanced technology at our advanced manufacturing unit.

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

They are chain driven (Continuous chain drive or Roll-To-Roll chain drive). Modular construction in standard Adjustable leg support eases installation and leveling at site MOC can be MS or SS as desired.

Features

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



PAINT SHOP SOLUTION



We are engaged in offering Paint Shop Conveyors that are designed according to the clients' requirements. Our conveyors are known for their durability, high performance standards and quality tested in order to meet the industrial standards.

Features

- Durability
- Perfect finish
- Compact design
- Fine-finish
- Smooth working
- Very long lasting
- Tamper-proof
- Withstand high temperature and pressure
- Type: Coating Production Line

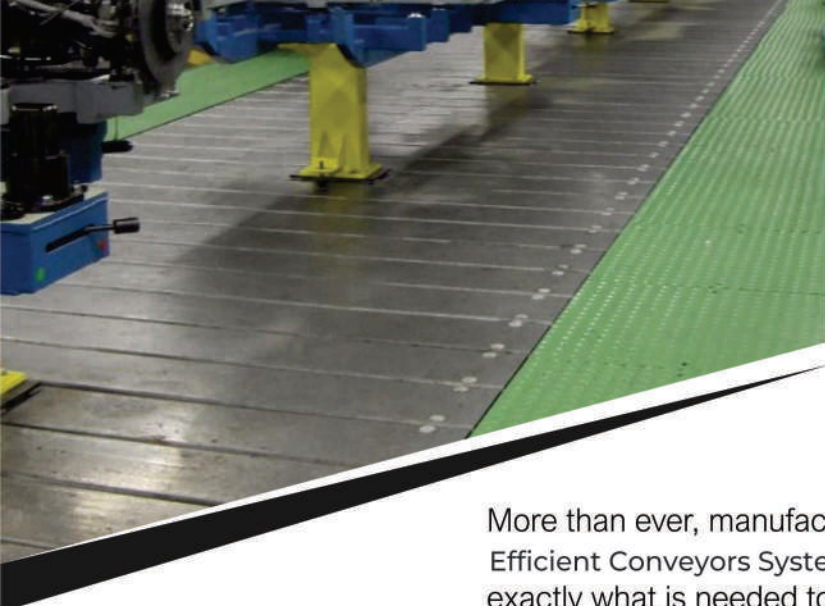
Uses

- Wet Spray Painting
- Powder Coating
- Dip Lines
- E-Coating and Plating
- Cleaning and Pretreatment
- Wood Finishing

Applicable to

- Four-Wheel Biplanar Conveyor
- I-Beam Conveyor
- Enclosed Track Conveyors





ASSEMBLY LINE & MATERIAL TRANSFER SOLUTION

More than ever, manufacturers and system integrators are turning to Efficient Conveyors Systems our unique ability to provide exactly what is needed to make production line safe and efficient. Efficient Conveyors Systems has the products and experience to provide innovative assembly line conveyor systems, from basic assembly to complex.

Features

- Offers neat, clean and smooth production line
- Ergonomic Delivery of Parts
- Automatic Carrier Return for Reloading
- Smart Assembly
- Efficient and Safe Delivery of Parts



Applicable to

- Multi-strand chain conveyor, Chain Driven Live Roller Conveyors for heavy duty assembly line systems
- Slider bed belt conveyors are ideal for transporting light or irregularly shaped items
- Table top conveyor for light assembly operation
- Hinged Steel Belt conveyors for part and scrap handling
- Multi-Strand-Chain conveyors for heavy appliance assembly lines
- For lines with walk on requirements, Pallet pro is idea



FAN TESTING & FAN-STATOR VARNISHING SOLUTION

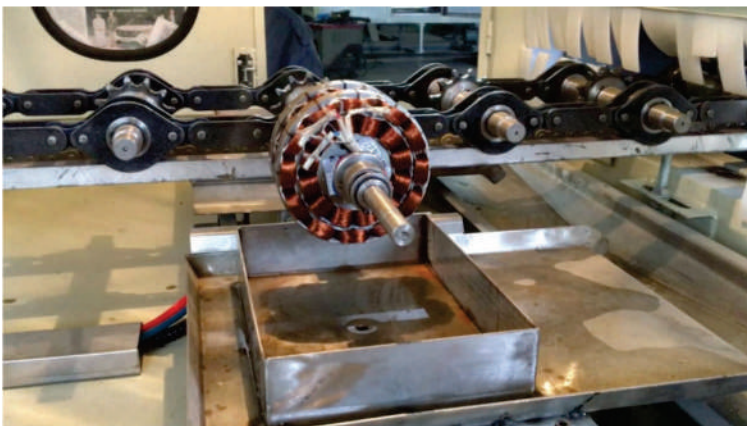


Fan Testing

Overhead Fan Testing Conveyor range of mini four wheel model overhead fan testing conveyor is widely used in fan manufacturing processes. In such conveyor systems, these are a bus bar facility which facilitates the transportation and testing of fans simultaneously. These conveyors are used for transporting light weight component.



Fan-Stator Varnishing



Fan Stator Varnishing Assembly is very helpful in the time-efficient flow of varnished Fan Stators as it will increase the no. of varnished stator per minute. Over head Conveyors are playing a crucial role for this very purpose. And we are offering the best alignments and combinations to suit industry's requirement.

OUR CLIENTS

Top companies under our portfolio



**Badve Group | Meenakashi Polymers | Sandhar | Studds
Sunbean Auto| T.I. Cycles Tube Investment of India (Murugappa Group)**



EFFICIENT CONVEYORS SYSTEMS

An ISO 9001:2015 Certified Company

Mr. Pankaj Sharma (Director)

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