



Damon has long been committed to the research and development of cutting-edge technology in the field of intelligent logistics transportation and sorting, integrating system planning, product research and development, product manufacturing and project service, to enhance the competitiveness of customer logistics system; solutions and products are widely used in e-commerce, express delivery, shoes and clothing, medicine, intelligent manufacturing and integrated supporting and other fields.

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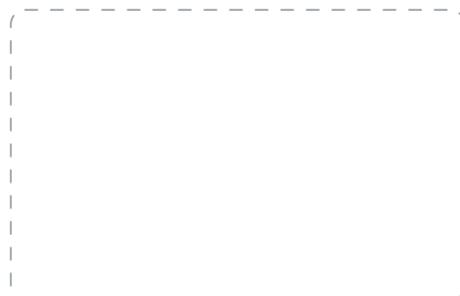
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Curve belt conveyor Catalogue



Curve belt conveyor

Damon's curve belt conveyor is driven by chain transmission. The precision chain and guide trip are connected on the outer side of belt. Unlike curve belt conveyors driven by belt friction, Damon's curve belt conveyor only requires very low belt tension, which ensures excellent reliability of equipment operation, reduce the wear of transmission components, greatly improve the service life of the equipment and reduce the overall cost.

User friendly

- Disassembly and maintenance are convenient. The belt can be replaced by one person in as little as 23 minutes.
- There is no need to accurately adjust the belt tension and position which greatly reduces the difficulty and time of assembly and disassembly.
- The ultra-low failure rate and quick disassembly design greatly improves the online rate of the equipment.

Reliability is irreplaceable

- Conveying is not affected by the change of load and environment.
- Using the guide rail+ chain double positioning, the belt does not slip or deviate during operation
- Unique construction and process design to provide ultra-low tension operation to prolong the service life of the product

DAMON Curve Belt Conveyor VS Normal Curve Belt Conveyor

DAMON Chain driven curve belt conveyor	Friction driven curve belt conveyor
Higher load capacity. The static load rating is up to 200kg/m ²	The load is limited. Overloaded belt causes belt slip and has accelerated wear.
Simple and fast maintenance, chain tensioning, gear spacing... No need for accurate adjustment.	The commissioning is relatively complex, chain tension, gear spacing, etc. need to be adjusted accurately. Maintenance personnel need to be more experienced.
Suitable for harsh environments such as dust and debris. Example: cement transportation.	Affected by the environment. It cannot be operated in an environment with a lot of dust and debris.
The maintenance is simple and fast. It only requires one person with very little experience to easily replace the belt.	Maintenance is complex and requires 2 skilled and professional personnel to complete the belt replacement.
The performance is more reliable. The load is not affected by the environment and the belt never slips.	The performance of the belt is affected by many conditions such as installation and commissioning, tensioning, etc. The belt is more prone to slipping and wear.

Excellent conveying compatibility

- The weight of the product that can be conveyed ranges from 0.05kg to 80kg.
- The size of product that can be conveyed ranges from 100mm to 1000mm.
- It is capable of conveying almost any kind of irregular shaped objects.

Extremely wide range of applications

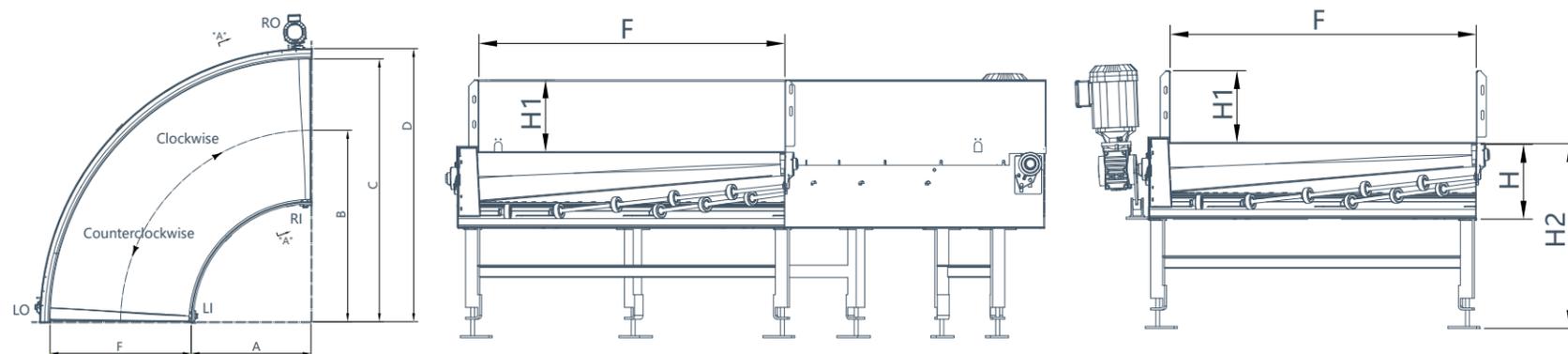
- From shoes and clothes, books and letters to snake skin bags and cartons.
- As few as 1 or 2 pieces and as many disorderly and piled up packages.
- Suitable for logistics transportation systems in express delivery, e-commerce, footwear, pharmaceutical, supermarket and many other industries.

Applicable environment

Ambient temperature: -18°C ~ 55°C
Relative humidity: 10%~90%, no condensation



Specifications



Size						
Frame inner width(mm)	860	1060	1260	1460	1560	1660
Inner radius(mm)	1270	1200	1070	970	1500	870
Center radius(mm)	1700	1700	1700	1700	1700	1700
Outer radius(mm)	2219	2289	2419	2519	3149	2619
Angle(°)	30°、45°、60°、90°、180°					

Performance	
Rated loading(kg/m ²)	≤60, (If load is 80kg/m ² , customization is needed.)
Conveying speed(m/min)	30~150 (30、40、50、60、70、80、90、100、120、132、150)

Drive	
Power(kW)	0.75kW if angel is 30°/45°; 1.5kW if angel is 60°/90°; 2.2kW if angel is 180°.
Voltage (V/Ph/Hz)	AC380/3/50(Or to site requirements)
Motor type	Gear motor (without/with brake)
Drive direction(R/L)	R/L(Inside/Outside), Forward / Reverse

Material						
Belt (mm)	Black 3mm PVC smooth top belt					
Slider bed (mm)	3mm carbon steel with powder coated finish					
Return roller (mm)	φ127×φ78×3	φ127×φ68×3	φ192×φ90×3	φ192×φ78×3	φ192×φ96×3	φ192×φ67×3
	Carbon steel roller	Carbon steel roller	Carbon steel roller	Carbon steel roller	Carbon steel roller	Carbon steel roller

Note: Inner width of frame could also be customized according to Damon's i-G5 series conveyors.