Conveyor and Elevator Range

For all your bulk material handling requirements
General Features of the Carier Range

- Elevators and conveyors supplied in two casing sizes covering throughputs of 40, 60, 80 and 100tph cereals @ 750kg/m3
- Conveyor lengths up to 60m long, elevators up to 30m high
- All galvanised steel casing construction as standard for indoor or outdoor applications
- Low maintenance shaft mounted gearmotor drives with IP55 motors up to 7.5kW

Chain Conveyors

- Loose flanged inlet with plain cover plate included for positioning on site
- Self-lube, sealed for life bearings external to casing
- 80mm pitch DIN 8167 bushed chains, strength to suit duty required
- Cleaning flights fitted as standard at 6m pitch
- 8 tooth hardened steel sprockets at drive and tail ends
- Dimpled side joint plates for flush interior & self aligning assembly
- Bottom lap plate for sealing at joint
- Top lap sealing plate for weatherproof installation
- Flanged open end outlet fitted as standard
- Support foot on end plate
- Access panel or optional sight glass on both sides of drive end
- UHMWPE noise reduction strips fitted to floor and return chain support rail
- Floor plate rivetted to conveyor sides
- Choke protection switch (optional)
- Low maintenance compact shaft mounted gearmotor drive unit

Slip Form Belt Conveyor  Screw Conveyor  Soft Flight Angleveyor
Bucket Elevators

- Shaft, bearings & pulley removable in one piece, for simplicity of servicing
- Head pulley secured to shaft with taper-lock fittings, prevents sideways movement
- Low maintenance shaft mounted gearmotor drive with integral backstop
- Central shedder under pulley
- Maintenance Access Doors (not pictured), generously sized at full leg width
- High tensile belt with EP core and SBR covers
- High efficiency, low profile, pressed steel buckets
- 45° flanged low level inlet with two height positions
- Boot pulley secured to shaft with taper-lock fittings, prevents sideways movement
- Profilled, close tolerance, boot radius plate for minimum residue
- Profilled sweep plate for high efficiency & durability
- Split hood section for ease of maintenance in low headroom situations
- Head bearings on jacking bolts for easy belt tracking
- Large access panel in both sides of head
- Adjustable flexible outlet throat plate
- Rolled steel angle flanges
- Jig assembled heavy duty legging
- Screw adjusted belt tensioners fitted as standard
- Removable back panel, suitable for additional inlet if required
- Generously sized boot cleaning doors

Options:
- Double Leg Elevators
- Conveyor Intake Systems
- Flow and Return Conveyors
- Outlet Slides
- Ducting and Fittings

Chain Conveyors (chain width / tph): 200/40 200/60 250/80 250/100
Bucket Elevators (bucket width / tph): 140/40 140/60 180/80 180/100
Angleveyors (chain width / max tph): 200/60 300/100 up/down bends 10-45°
Slip Form Belt Conveyors (belt width / tph): 300/40 380/60 500/100
Trench, Mechanical Intakes for Chain Conveyors: 3000mm std length special lengths to order

Notes:
1. Product capacity in tonnes/hr (tph) is based on dry cereals at 750 kg/m³
2. Capacity is dependant on product flowability and conveyor incline

Carier Care Supported
Options & Accessories

Conveyor Options
- Automatic spring loaded chain tensioners
- Flow and return arrangement
- Open bottom sections for store filling applications
- Trench intake or mechanical intake systems
- Full range of outlet slides including hand slides, rack & pinion (remote), electro-pneumatic or motorised. Inline and cross slide options available
- Outlet adaptors and full range of standard ducting & fittings
- Recycle cups fitted to chain for recirculation of carryover
- Diaphragm switch in end plate for choke protection
- Under-speed rotation sensor on tail end shaft
- Sight glasses fitted in sides of casing
- Upward or return bend sections (subject to reduction in throughput)
- Span Brace assembly for unsupported spans up to 12m
- ATEX certification

Carier Bulk Materials handling, founded in a small workshop in a tiny Essex village in 1948, quickly became acknowledged leaders in the development and manufacture of bulk handling systems and equipment for grain and cereals, providing a range of robust and reliable machines to provide enduring satisfaction on which our products are based.

Carier have skilled plant design and layout engineers and provide an efficient spare parts service as well as maintaining records of every machine, so that spares information can be provided however old the machine may be.

Customers are encouraged to consult with our sales engineers and design specialists from the earliest inception of any project. They will gladly furnish all technical data, readily offer their advice on every aspect and remain enthusiastically involved throughout all stages of design and manufacture to final commissioning and beyond. Careful note is always taken of user experiences with our products and we are indebted to our many customers that have taken interest in our activities for the steady advancement of our range.

Elevator Options
- Maintenance access platforms, intermediate rest platforms and safety hoops
- Outlet adaptors and full range of standard ducting & fittings
- Cage type bottom pulley
- Seed Boot (stand and pullout tray for easier cleaning)
- Pressure relief panels - flap & switch or membrane type to meet ATEX standards
- Belt scraper on rising leg
- Bucket spacing washers (typically for seed applications)
- Nitrile belt for materials with high oil/fat content
- Alternative belt and bucket systems for special applications
- Under-speed rotation sensors for belt slip detection
- Belt misalignment sensors
- Bearing temperature sensors
- Monitoring systems for safety sensors
- ATEX certification

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