Belt bend conveyor

TYPE R70D

FUNCTION

The belt bend conveyor is especially suitable for smooth and accurate transport of unpacked and packed products in the food and non-food processing industry. The proven design ensures high productivity and availability in multi shift operation. The modular design allows for a vast range of combinations of belt width and outer radius. The angle of the conveyor typically varies between 45° and 180°.
The R70D has a maximum load of 50 kg.

CHARACTERISTICS

- Compact modular design, fits in virtually any space situation
- Mild steel, coated in RAL colour of choice
- Highly reliable
- Low noise level
- Low maintenance requirement and costs

DESCRIPTION

The belt bend conveyor is used in various applications such as in:

- Food processing industry
- Packaging lines for pharmaceuticals, cosmetics, chemicals
- Sorting and order picking systems
- Paper- and printing industry

The conveyor is supplied with a closed plate to support the entire belt track. The support frame consists of square profiles and has height adjustable feet.

The belt is guided by a series of roller sets mounted on the outer radius of the belt. Each roller set consists of two ball bearings, axial mounted on nylon strip seizing the belt. This ensures optimum belt guidance, low noise level and low maintenance.

The endless belt consists of segments with hot welded spliced finger joints. The multi layer belt has a top layer of PVC or PU. The conical rollers are frame mounted with adjustable bearing units. The drive roller is coated with high friction material.
The drive is shaft-mounted at the inner radius.

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Belt bend conveyor

TYPE R70D

TECHMAVEYOR

TECHNICAL SPECIFICATIONS

Angle	45° - 180°
Max. outer radius	2.200 mm
Max. belt width	1.400 mm
Min. height*	110 mm
Frame - belt height	≤ 1.100 mm, ± 50mm adjustable
Max. load	50 kg
Max. conical roller diam.	70 mm
Belt type	PVC/PU
Execution	Mild Steel, coated
Power supply	400V, 50 Hz, 3Ph+0+PE
Max. belt speed	50 m/min at centre of belt
Drive	SEW Eurodrive, shaft-mounted at inner radius
Protection class	IP54

* shaft-mounted gear, belt pulling and mounted at inside radius.

OPTIONS

Conveyor / Support frame

- ► Stainless steel, AISI 304, Finish 2B
- ► Tailor made support frame
- ► Swivel castor wheels with brake

Angle

- ► Non standard angles, specified in degrees

Drive

- ► Integrated frequency inverter
- ► Protection classes IP56/IP65 for SEW drive
- ► Other type of drive, without drive

Belt type

- ► Belt type on demand
- ► Belt with integrated spill rim or combined with a seal at outer radius

Accessories

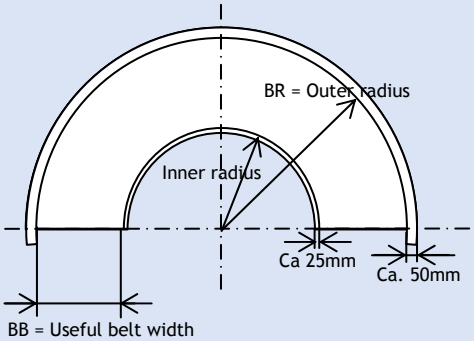
- ► Product guiding rail(s)
- ► Belt scraper device with or without debris collection tray

DIMENSIONS AND NOTATIONS

Outer radius in mm

Useful belt width in mm*	2200	2100	2000	1900	1800	1700	1600	1500	1400	1300	1200	1100	1000	900	800	700	600
1400	✓	✓															
1300	✓	✓	✓														
1200	✓	✓	✓	✓													
1100	✓	✓	✓	✓	✓	✓											
1000	✓	✓	✓	✓	✓	✓	✓	✓									
900	✓	✓	✓	✓	✓	✓	✓	✓	✓								
800	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓						
700	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓					
600	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓			
500	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓		
400	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
300	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
200	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

***Non-standard belt width: on request**



R50D/BR/BB/∟/UV

Execution	: Mild Steel, coated or Stainless steel
Angle	: Standard 90° /180°.
Useful belt width	: mm
Outer radius	: mm
Type belt bend conveyor	: R50D, R70D or RMZ15D