

SICON® Enclosed Belt Conveyor System

Conveyor Belt Group





## Clean, safe and curve negotiable up to 180°. SICON® belt conveyor systems

The SICON® conveyor belt remains closed from the feeding point to the discharge point.

It thus measures up to particularly stringent requirements with respect to cornering suitability, cost-efficiency and environmental compatibility.

#### ContiTech Conveyor Belt Group

We are manufacturers of textile and steel cord conveyor belts, special products and service material – for mining, machine and plant engineering, and many other branches of industry. At our plant in Northeim, Germany – one of the most modern production facilities anywhere in the world – we turn out a complete range for all conveyor jobs. Our comprehensive service offering caters to the needs of retailers, primary equippers and operators.

#### The concept

The extra-high flexibility of SICON® conveyor belts renders involved system configurations possible for optimum conformity to topographical conditions. They can cope with corners and edges without the need for additional transfer points. Cornering radii of less than a meter can be realized. This makes possible the serpentine routing often required to cope with major altitude differences over very short distances. The "pouch" remains closed and dusttight even on the return trip.

This protects the material conveyed and the environment. Several feeding and discharging points can be set up along the transport route.







### Focus on flexibility

#### How it functions

The SICON® conveyor belt is made of a highly flexible rubber capable of forming a pear-shaped "pouch". Supporting profiles are vulcanized onto both edges. Their job is to track the belt between the support and guide pulleys. Steel cords are vulcanized into the center of the carrying profiles. The cords absorb the belt tension from the drive components. As the profiles are arranged above one another, the belt is closed to form a dusttight pouch. Another advantage of this profile arrangement is that it enables the belt to incline to the side so that the cornering radius works out to less than a meter.

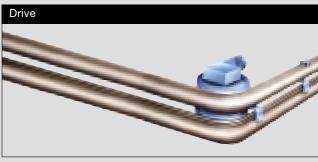
#### Loading

The belt can be loaded at anywhere along the conveyor route. Special guide pulleys function to give the belt a U-shaped opening. In this way, the belt cushions the fall of the material during loading while steadying and accelerating its flow.

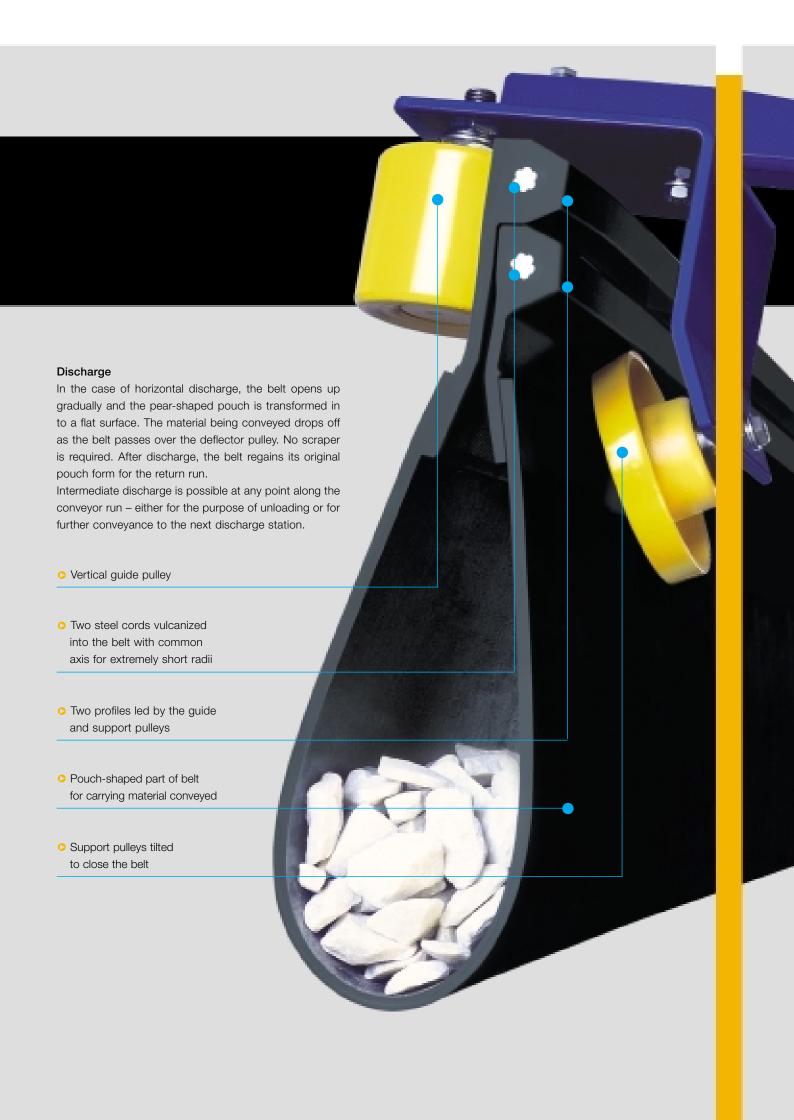
#### Drive/curves

The belt is guided into curves by means of individual deflection pulleys. The drives are fitted in at curves of at least  $90^{\circ}$ .









# SICON® belt conveyor system – Proven in diverse applications

#### The standard range

0100110 100									
SICON® 100									
Size of profile ca. 30 x 30 mm - pulley diameter: 1,200 mm									
Belt width unfolded (mm)		Conveyor capacity at 1.5 m/s (m³/h)							
650		35							
800		55							
1,000		95	only light material						
1,200		140	only light material						

SICON® 1000							
Size of profile ca. 50 x 50 mm – pulley diameter: 2,000 mm							
Belt width unfolded (mm)	Conveyor capacity at 3 m/s (m <sup>3</sup> /h)						
800	115						
1,000	190						
1,200	280						
1 400	380						

For high conveyor capacities, long conveyor systems and high stress loads

Materials conveyed and branches of industry									
Construction industry	Power industry	Cellulose industry	Steel/metal industry	Underground/ surface mining	Foodstuffs industry*	Processing industry			
plaster	ash	wood chips	ore	ore	residual products	chemicals			
limestone	fuel peat	kaolin	foundry sand	grinding balls	raw materials	finished goods			
clay	gypsum	bulk goods	coal	minerals	fish meal	(powder, granules)			
sand	wood chips	used paper	metal concentrate	sand	fish feed	minerals			
stone	limestone	salt	slag		grain				
dry mixture	coal				pellets				
cement	recycling materials								

<sup>\*</sup>Use and suitability to specs on request

Simple loading of sensitive conveyor belts with open belt

High-care transport thanks to enclosed belt design







Does not pollute thanks to enclosed belt on return trip



#### www.contitech.de/conveyorbelts



#### Conveyor Belt Group

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