



Efficient. Safe. Sustainable.

SICON. The closed
belt conveyor system

SICON.

The closed belt conveyor system

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.

Our customers benefit from more than 150 years of experience in the field of high-performance conveyor belts and decades of expertise in pouch conveyor technology.



The flexible belt system.

The perfect solution for your conveying task.

The exceptional flexibility of SICON conveyor belts makes complex system configurations possible, allowing optimal adaptation to topographical conditions.

SICON conveyor belt systems can cope with corners and edges without the need for additional transfer points. Cornering radii

of less than a meter can be realized. This enables the serpentine routing often required to manage significant 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.

The key advantages

FLEXIBLE: Copes well with steeply rising topography. Makes minimal space demands. Manages gradients of up to 35°. Eliminates need for transfer points thanks to good curve negotiability. It can negotiate 180° curves with a radius smaller than 1 meter. Allows for many feed and discharge options. Allows for a two-way conveyor system; belt can be loaded in both directions; varying routing possible for trip out and back

SAFE: Safeguards conveyed material while minimizing belt tensile load via multiple drive stations, featuring at least 90° encapsulation in curves. Provides uniform loading and quick acceleration.

EASY: Lightweight and highly flexible for effortless installation. Self-centers between guide and support rollers and maintains a self-cleaning operation.

SUSTAINABLE: Minimizes dust emissions and prevents pollution, as the belt remains enclosed in both directions.



Clever from start to finish.

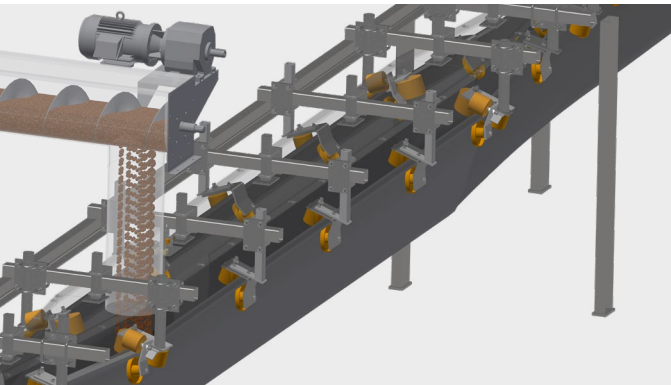
This is how it works.

The SICON conveyor belt is made of highly flexible rubber, capable of forming a pear-shaped pouch. Supporting profiles are vulcanized onto both edges to guide the belt between the support and guide rollers. Steel cords are embedded in the center of the carrying profiles to absorb tension from the drive

components. The stacked profile arrangement closes the belt to form a dust-tight pouch. An additional advantage of this design is the low moment of inertia, allowing cornering radii of less than one meter.

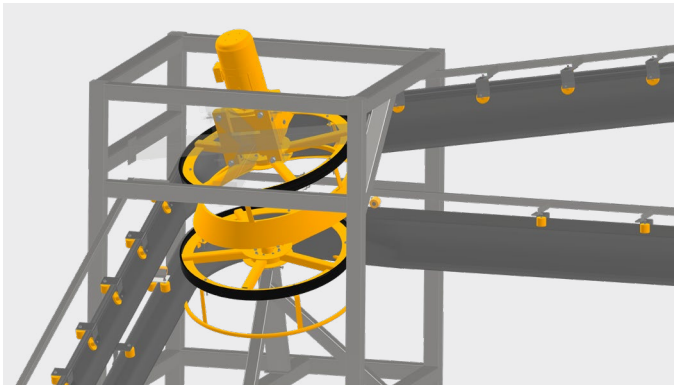
Loading

The belt can be loaded at any point along the conveyor route. Special guide rollers create a U-shaped opening in the belt, cushioning the fall of material during loading while stabilizing and accelerating its flow.



Drive

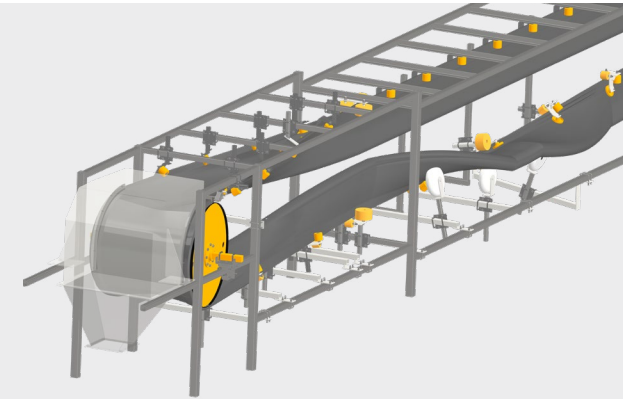
The belt is guided through curves using individual deflection pulleys. Drive units are installed at curves of at least 90°.



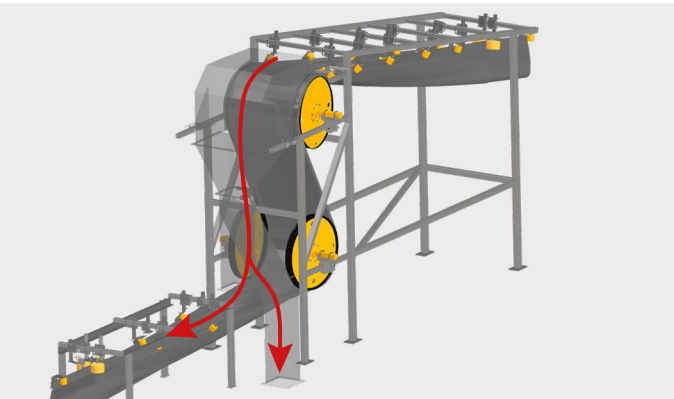
Discharge

For horizontal T-discharge, the belt opens gradually, transforming the pear-shaped pouch into a flat surface. Material is released as the belt passes over the discharge pulley, requiring no scraper. After discharge, the belt returns to its original pouch shape for the return run.

Intermediate S-discharge can be located at any point along the conveyor run. If discharge at a specific location is temporarily not required, the chute flap redirects the material back onto the belt, allowing it to continue to the next discharge station.



Horizontal T-discharge



Intermediate S-discharge

Safe, robust and reliable.

Product range and technical specifications.

The SICON system is available in two belt strengths – S100 and S1000 – and in five different widths. This range allows for optimal system configuration based on required conveying capacity, material density, and material size.

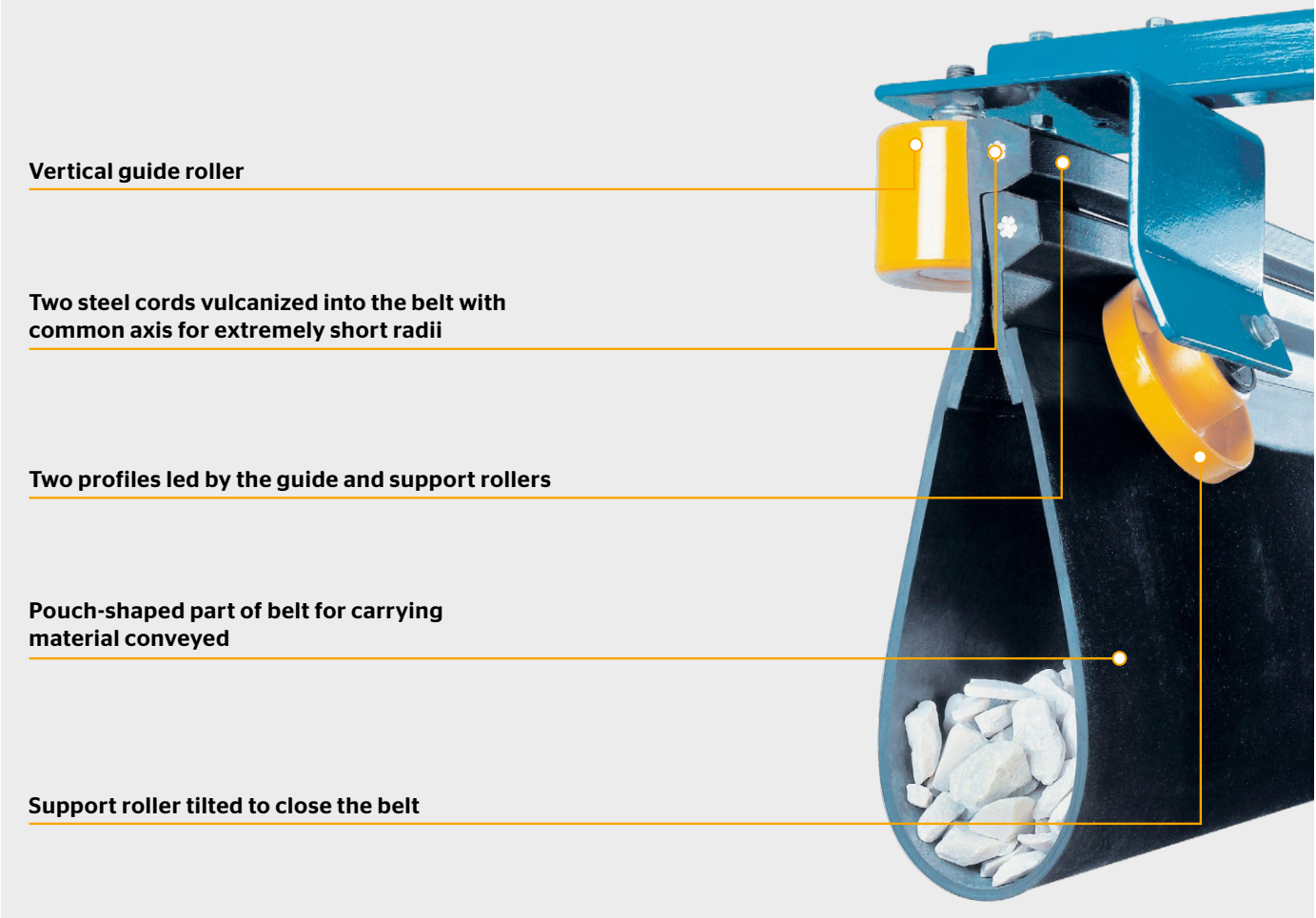
Product range

SICON 100 Size of profile approx. 25 x 25 mm - pulley diameter: 1,200 mm		SICON 1000 Size of profile approx. 50 x 50 mm - pulley diameter: 2,000 mm	
Belt width unfolded (mm)	Conveying capacity (m³/h)	Belt width unfolded (mm)	Conveying capacity (m³/h)
S100/ 650	35*	S1000/ 800	120*
S100/ 800	60*	S1000/1,000	200*
S100/1,000	120*	S1000/1,200	300*
S100/1,200	150*	S1000/1,400	400*

* depending on bulk density and velocity

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

Construction



Proven for every purpose.

Applications and industries.

Sicon can be applied across a wide range of industries. The table below highlights sectors where Sicon has already been successfully implemented. Application scenarios span from conveying lightweight, small-sized materials in food-processing environments to managing heavy rock loads in tunneling and mining applications.

Branches of industry and conveyed materials

Construction industry	Power industry	Cellulose industry	Steel/metal industry	Underground/ surface mining	Food 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					

** Use and suitability to specs on request



Simple loading of sensitive material into open belt



High-care transport thanks to enclosed belt design



Copes with demanding topography with minimal space demands.

ContiTech Deutschland GmbH

30175 Hannover, Germany
Phone +49 (0)511 938-71

For further information:

www.continental-industry.com



Legal notice

The content of this publication is not legally binding and is provided as information only. The trademarks displayed in this publication are the property of Continental AG and/or its affiliates. Copyright © 2026 ContiTech Deutschland GmbH, Hanover. All rights reserved. For complete information go to: www.continental-industry.com/discl_en