

Reproducible quality

The quality of STAHLCORD® conveyor belts is the result of production with state-of-the-art equipment employing the foremost technological methods. All parameters of relevance to production – pretensioning of the cords, pressing pressure, temperature, compound viscosity and cord design – are exactly harmonized.

The pretensioning of the cord is computer-monitored over the full production length and belt width. This makes it possible to measure and control the entire production process from beginning to end.

Conveyor belt production is tracked by a comprehensive quality assurance program that complies fully with the requirements of ISO 9001. The program draws heavily on the strict quality guidelines the ContiTech division applies in supplying the automotive industry. Alongside what is in the standard tests, properties like rubber penetration, troughability and the dynamic durability of the belt splices are also quality-controlled.

In addition to ensuring compliance with the requirements defined in the standards, the testing procedures are so flexible as to be adaptable to the customer's demands and the object being tested. If desired they can be documented by means of a certification process.

Tried and tested in long-distance conveyance in surface and underground mining

The ContiTech Conveyor Belt Group offers STAHLCORD® conveyor belts in different designs and cover stock qualities. Thanks to the high tensile strength of the steel cords, the belts are admirably suited to long-distance conveyance as well as to conveyor units involving major differences in height.

- Widths of up to 6,400 mm
- Steel and textile transverse reinforcement
- All strength classes
- Special cover stock compounds
- Fire-retardant and anti-static
- Roll weights of up to 60 tonnes

Rigorous quality assurance to ISO 9001 is routine for us



www.contitech-online.com



ContiTech. Get more with elastic technology.

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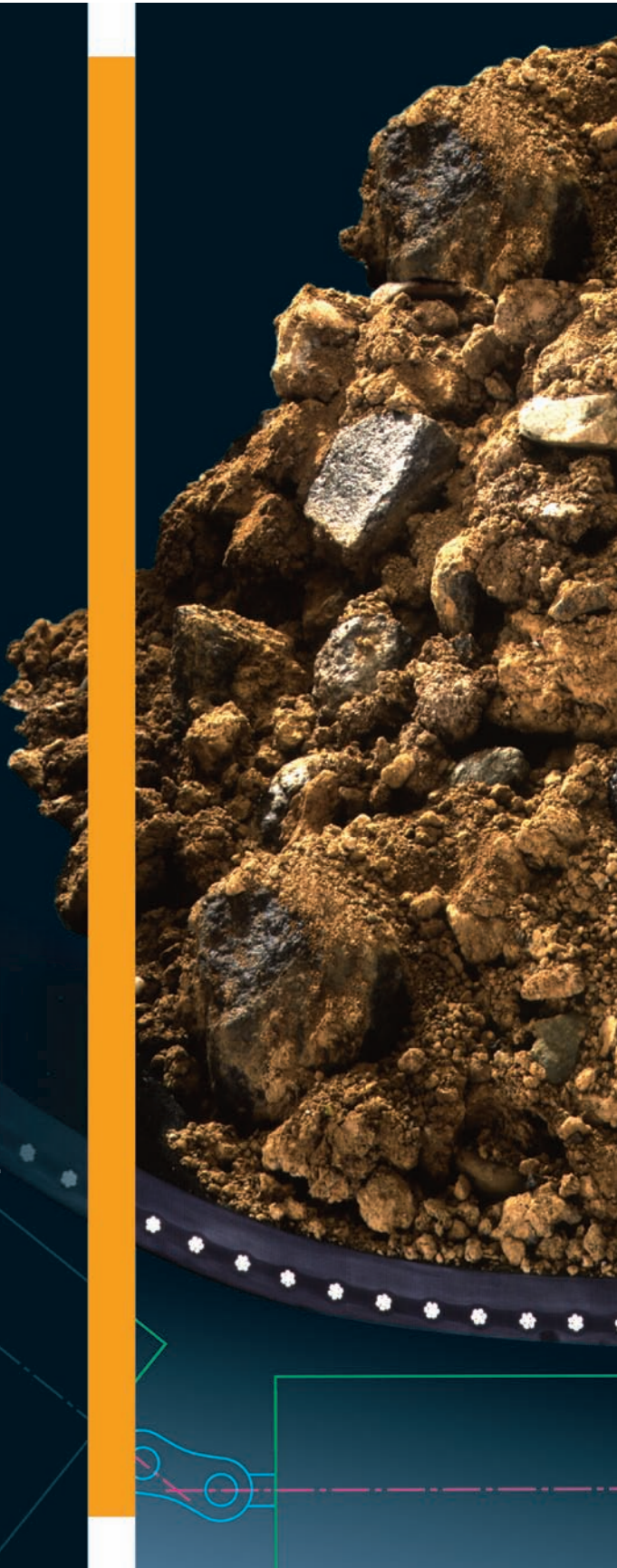
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◦ www.contitech.de

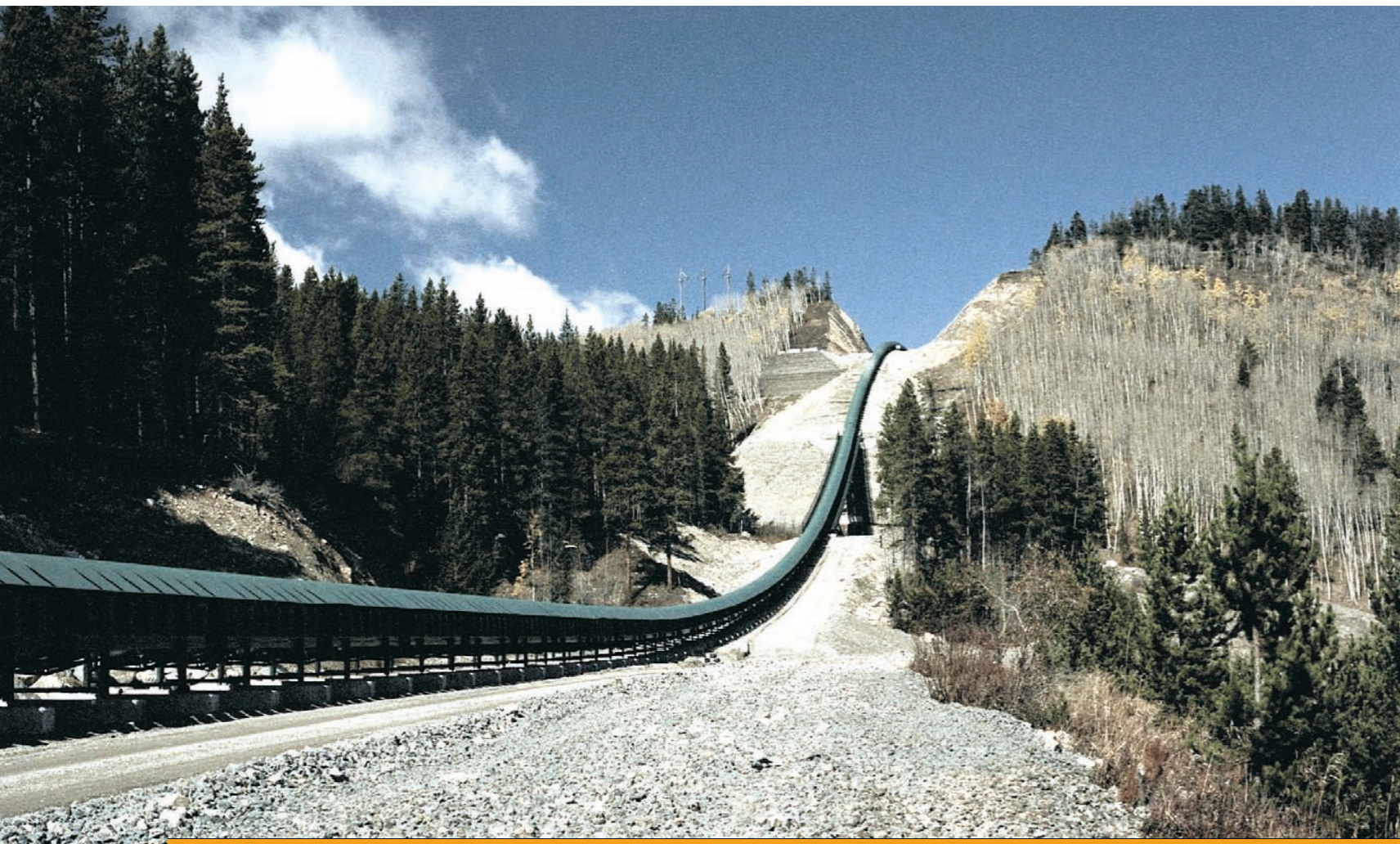
The ContiTech division of the Continental Corporation is a development partner and original equipment supplier to numerous industries for high-quality functional parts, components and systems. With its know-how in rubber and plastics technology, ContiTech contributes significantly to industrial progress and mobility that is safe, comfortable and eco-friendly.

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**STAHLCORD®
Conveyor Belts for
the Toughest
Transport Demands**





STAHLCORD® Conveyor Belts with high impact resistance

ContiTech Conveyor Belt Group

The ContiTech Conveyor Belt Group is a technology leader and the world's largest conveyor belt manufacturer. We carry a broad selection of steel cord and textile conveyor belts as well as matching service material and special products – for mining, machine and equipment construction and many other branches of industry. At our plant in Northeim, Germany – one of the most modern production facilities anywhere in the world – we manufacture a complete range of products for all

conveyor jobs. Our comprehensive service offering caters to the needs of retailers and wholesalers, primary equipment suppliers, and conveyor operators. **Keep on running.** ContiTech's high-end conveyor belt technology stands for reliable, cost-efficient and eco-friendly operation – above and below ground. As systems supplier, we offer a full range of equipment as well as comprehensive service, from installation through to commissioning, wherever the customer needs us worldwide.



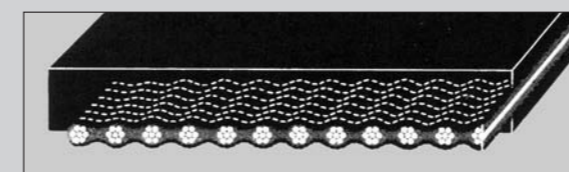
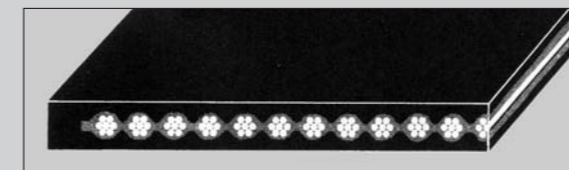
Technical data (reference values)

Type	Rated break strength	Cord diameter	Cord pitch	Belt splice		Belt width, for 30° trough, at least ³⁾	Diameter of the drive pulley, at least	Reference elongation at 10% of minimum breaking strength	Weight of belt core ⁴⁾	Minimum cover gauge
				Length l _v ¹⁾	No. of Steps					
	N/mm	mm	mm	mm		mm	mm	%	kg/m ²	mm
ST 500	500	2.9	12.5	500	1				6.3	3
St 630	630	2.9	10	550	1	400	500	0.1 - 0.3	6.7	3
St 800	800	3.6	12	600	1				8.2	3
St 1000	1000	4.9	12	600	1				9.6	3
St 1120	1120	4.3	11	650	1				10.1	3
St 1250	1250	4.8	14	650	1	500	630	0.1 - 0.3	10.6	3
St 1400	1400	4.0	9	1000	2				11.2	3
St 1600	1600	5.5	15	750	1				13.0	4
St 1800	1800	5.5	13.5	1150	2				15.2	4
St 2000	2000	5.5	12	1150	2	650	800	0.1 - 0.3	15.8	4
St 2250	2250	5.5	11	1150	2				16.5	4
St 2500	2500	7.1	15	1350	2				18.6	5
St 2800	2800	7.1	13.5	1450	2	800	1000	0.1 - 0.3	19.9	5
St 3150	3150	7.9	15	1650	2				22.5	6
St 3500	3500	8.4	15	2350	3				24.0	6
St 4000	4000	8.9	15	2650	3	800	1250	0.15 - 0.3	27.0	7
St 4500	4500	9.6	16	2800	3	1000	1400	0.15 - 0.3	30.9	7
St 5000	5000	10.7	17	4050	4	1000	1600		33.6	8
St 5400	5400	11.2	17	4450	4	1000	1600		38.4	8
St 6300	6300	12.3	18	2)	2)	1200	1600	0.15 - 0.3	40.9	9
St 7100	7100	13.1	19	2)	2)	1200	1800		47.6	10

* Other types on request

1) With skive, 0.3 x additional belt width. 2) To be determined as per requirements. 3) With cover thicknesses normally used. 4) Belt weight: Add product of cover gauge (carrying side plus bottom side) and density.

STAHLCORD® conveyor belts have a layer of high-strength steel cords, aligned next to one another in a spaced planar arrangement and embedded in rubber. Thanks to their structure, the belts boast high impact resistance, even in the case of large-lump materials dropped from a considerable height. STAHLCORD® conveyor belts also exhibit good troughability. Special inserts can be added to the cover stock for extra enhancement of impact behavior. CONTI-CROSS® steel cord conveyor belts – like St 2000 T/T – have textile transverse reinforcement on both sides. This serves mainly to up resistance to impacts but also makes the belts more resistant to longitudinal slitting.

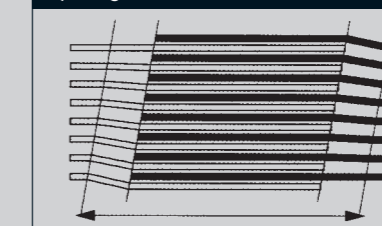


Properties

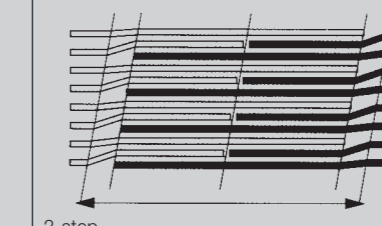
DIN code letter	ContiTech quality labeling	Suitability/property	Permitted temp. range in °C		Tear strength ¹⁾	Elongation at tear ¹⁾	Abra-sion ¹⁾	Density ¹⁾		
			Sustained load	Peak load						
			min.	max.	min.	max.	N/mm ²	%	mm ³	kg/dm ³
DIN										
W	AA	Anti-abrasive	- 40	+ 60	- 50	+ 70	21	550	60	1.12
X,R	ATRB	For general materials handling jobs (max. demands)	- 50	+ 60	- 55	+ 70	28	550	100	1.09
X	XXL	Energy-efficient long-distance conveyance	- 50	+ 60	- 55	+ 70	22	450	100	1.10
X	TDVZ	Cut resistant for extreme mechanical stress	- 40	+ 60	- 45	+ 70	28	600	100	1.14
Y	ContiExtra	For general materials handling jobs	- 30	+ 60	- 35	+ 70	23	550	100	1.14
R	ContiClean®	To deal with severe fouling (dirt-repellent, even with very moist materials)	- 50	+ 60	- 55	+ 70	15	450	60	1.09
Y,K	FW ²⁾	Underground and surface mining (flame-resistant and anti-static)	- 40	+ 60	- 45	+ 70	23	500	100	1.19
V	V ²⁾	Underground (self-extinguishing)	- 5	+100	- 10	+110	23	500	135	1.43
T	Vulkan T 150	Transport of hot materials	- 30	+130	- 40	+150	25	600	100	1.14
G	Oil GR	Transport affected by oil and grease	- 40	+ 80	- 50	+ 90	19	600	85	1.13

1) Statistic mean; values do not allow for reliable statements as to real-life performance, such as, for example, wear or resistance to cuts. 2) Materials used in underground hard coal mining must fulfill the specific requirements as defined by the respective mining authorities.

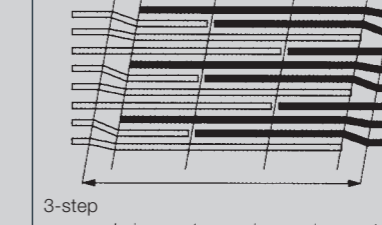
Splicing method



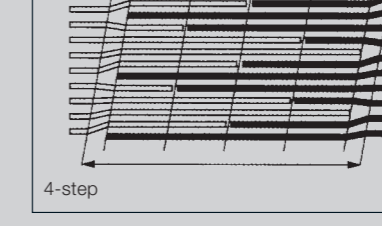
1-step



2-step



3-step



4-step

Covers with optimum properties

The STAHLCORD® range contains a broad selection of cover stocks optimally adaptable to the respective applications. The stock types go well beyond mere compliance with the stipulations contained in the pertinent standards. Their specific properties are the result of intensive research based on true-to-life testing procedures and wide-ranging field trials.

Steel-cord conveyor belt splices

Steel-cord conveyors are spliced by laying mated steel cords next to one another. There is, in principle, no loss of strength when these splices are executed in the usual way, as the vulcanization of the core rubber effectively bonds all the cords from one side with the cords from the other side. Depending on the type of belt (determined on the basis of cord diameter and cord pitch), splicing is executed in one to four steps.