



长治市康维尔输送带有限公司

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引言»

Foreword

工业, 人类文明发展的基石, 顺畅的原料输送是工业前进的保障。复杂多变的环境对于输送带制造形成了更高的要求。康维尔输送带, 将与客户携手直面挑战, 专注于精品输送带的研发制造, 是我们的坚持与追求。

制造优质的输送带, 橡胶弹性是关键。保证输送带的橡胶弹性持久是我们的专长。每小时数千吨的物料通过我们的产品, 无论零下50度的极寒高原, 或是800度的高温钢厂, 康维尔的产品将恪尽职守, 保证您的输送安全。

年复一年, 日复一日。优质的原材料, 精密的加工设备是制造精品输送带的前提。密炼、压延、成型、硫化, 各个工序精准控制, 不差分毫。无处不在的质量控制, 贯穿着整个生产过程, 我们不允许任何瑕疵的存在。

发展, 对康维尔提出了更高的要求, 顺畅的沟通、求知的渴望、不断的探索, 促使我们保持领先。昨天、今天, 通过一个个工程奇迹书写历史。明天, 康维尔将持之以恒, 制造精品输送带, 您的物料输送将川流不息。

Industry, the cornerstone of the development of human civilization, and the smooth transportation of raw materials is the guarantee of industrial progress. The complex and changeable environment forms a higher requirement for conveyor belt manufacturing. COMWELL conveyor belt, will work with customers to face the challenges directly, focus on the research, development and manufacturing of conveyor belt, is our persistence and pursuit.

To manufacture high quality conveyor belt, rubber elasticity is the key. Ensuring the durable rubber elasticity of the conveyor belt is our strong suit. Thousands of tons of materials per hour through our products, no matter the extreme cold plateau of minus 50 degrees, or 800 degrees high-temperature steel mill, COMWELL's products will devote all to ensure your conveying safety.

Year after year, day after day. High-quality raw materials, precise processing equipment are the premise of manufacturing high-quality conveyor belt. Mixing, calendaring, molding, vulcanization, every process is precisely controlled without the slightest deviation. The quality control throughout the entire production process, we do not allow any defects to exist.

Development has put forward higher requirements for COMWELL, smooth communication, eagerness for knowledge, continuous exploration, prompting us to keep the lead. From the past to the present, we have wrote history through one engineering miracle after another. In the future, COMWELL will continue to make quality conveyor belts, and your materials conveying will flow past in an endless stream.

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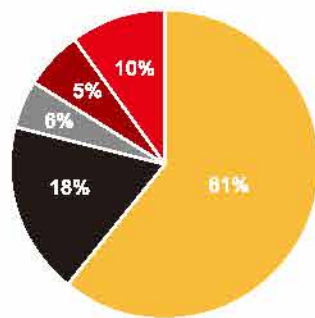
长距离运输专家 Long Distance Conveying Expert

ESC 节能输送带 ESC Energy Saving Conveyor belt

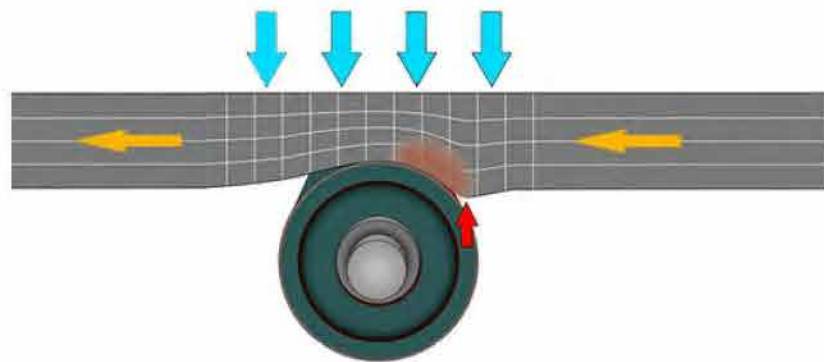
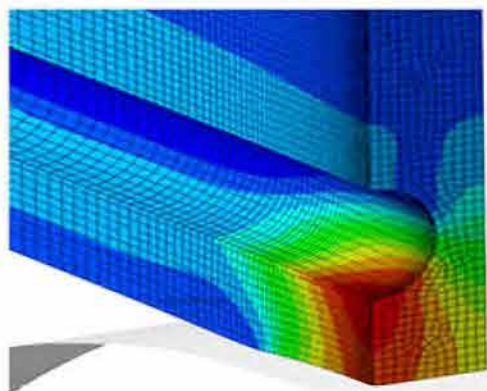


在水平方向布置的输送带的总驱动能耗中,约有61%的能耗用于克服输送带在通过托辊和带轮的压陷滚动阻力。

About 61% of the total driving energy consumption of the conveyor belt arranged in the horizontal direction is used to overcome the indentation rolling resistance of the conveyor belt through the idler and the belt pulley.



- 压陷滚动阻力
Indentation rolling resistance
- 物料压迫输送带成槽状态下运行阻力
Bulk solid flexure resistance
- 托辊运行阻力
Idler rotating resistance
- 输送带弯曲变形阻力
Belt flexure resistance
- 二次阻力
Secondary resistance



功耗可节约40%

40% power consumption can be saved

◆适用领域: 水泥行业长距离曲线输送。

◆Apply to: Cement industry long-distance curve transportation.

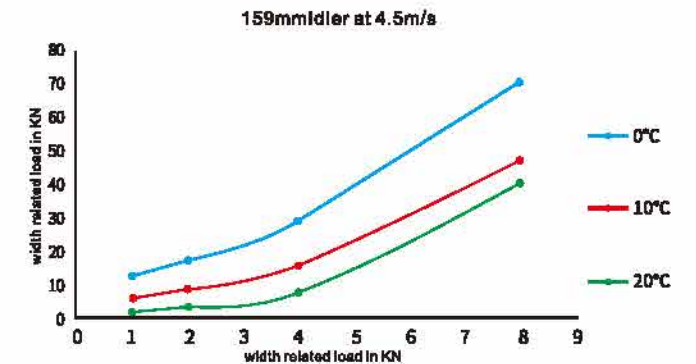
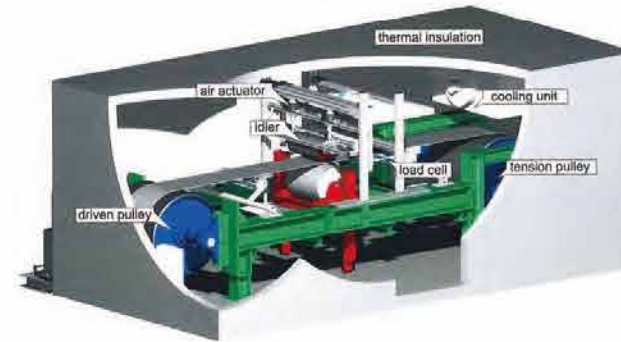
◆关键性能: 1、节约输送带运行能耗。
2、降低托辊承压阻力。

◆Key performance: 1. Save energy consumption of conveyor belt.
2. Reduce the indentation resistance of the idler.

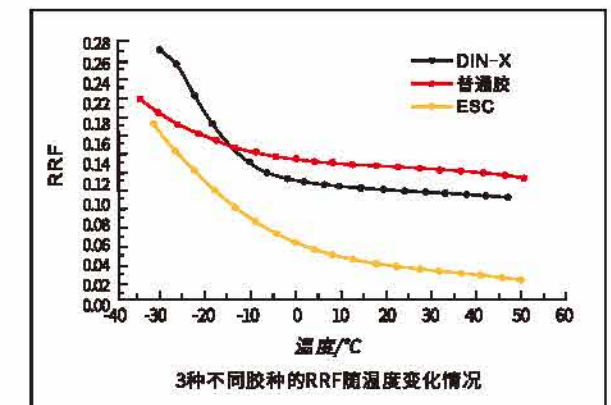
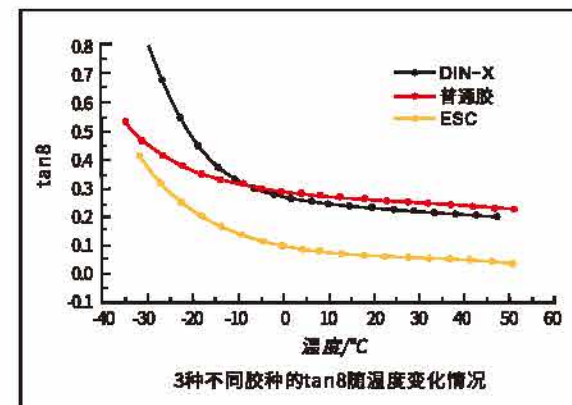
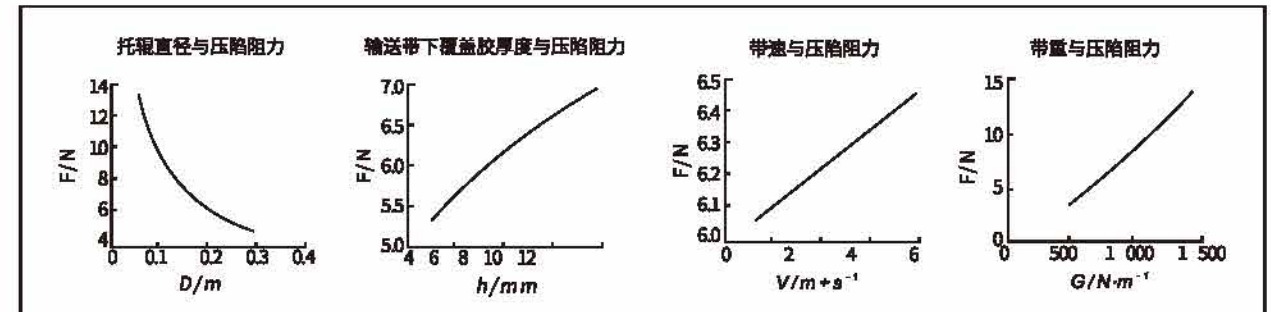
◆附加特性: 能量优化输送带在运行过程中橡胶内部损耗能弹性变形能量少,内耗生热小。

◆Additional properties: Energy optimization conveyor belt in the running state, rubber internal loss elastic deformation energy is less, internal consumption heat is small.

ESC 德国汉诺威大学ITA学院测试 ESC ITA College Test, University of Hanover, Germany



ESC 设计考虑因素 ESC Design Factors



典型数据 Typical data

覆盖胶层性能级别 Grade of Cover Rubber	拉伸强度 Tensile strength /Mpa ≥	拉断伸长率 Elongation at break /% ≥	磨耗 Abrasion /mm ³ ≤
ESC	20	500	120
滚动阻力因子	≤0.1		



- 覆盖胶厚度、钢丝绳芯直径、绳间距可以根据客户要求设计。
- The cover rubber thickness, steel cord diameter and pitch can be designed according to customer requirements.

应用实例 Application



垂直提升专家 Vertical elevating expert

提升带 (VHP\NIP)

- ◆ **用途:** 适用于水泥行业物料的垂直提升。
- ◆ **特点:** 有效节省输送空间, 成本造价低。
灵活的带体结构设计, 降低了加工困难性, 实现了与料斗的完美连接。
依托专用镀锌钢丝绳作为基带的抗拉层, 强度高、伸长低。
优质的粘合层赋予钢丝绳超高的粘合强度。
突出的抗老化体系设计, 使得老化过程中的拔脱粘合强度不降反升, 从而保证了皮带的整体性。
覆盖胶具备高强度、高伸长率、高耐磨、高耐热的优异性能。

- ◆ **分类:** T1 Max.tem. 100°C T2 Max.tem. 125°C
T2+ Max.tem. 135°C T3 Max.tem. 150°C
T4 Max.tem. 180°C MORS Max.tem. 70°C

Bucket Elevator Belt

- ◆ **Apply to:** Suitable for the vertical lifting of materials in the cement industry.
- ◆ **Properties:** Properties: Effectively save transportation space, low cost.
The flexible belt structure design reduces the processing difficulty and realizes the perfect connection with the bucket.
Relying on the special hot-dip galvanized steel cord as the tensile layer of the base belt, with high strength and low elongation.
The high quality adhesive layer gives the steel cords super high bonding strength.
The outstanding anti-aging system design makes the pull-out strength in the aging process increase rather than decrease.
Thus ensuring the integrity of the belt. Cover rubber has high strength, elongation, wear resistance and heat resistance.

- ◆ **Classification:** T1 Max.tem. 100°C T2 Max.tem. 125°C
T2+ Max.tem. 135°C T3 Max.tem. 150°C
T4 Max.tem. 180°C MORS Max.tem. 70°C



覆盖胶性能指标：可以选择 Cover rubber performance index: optional

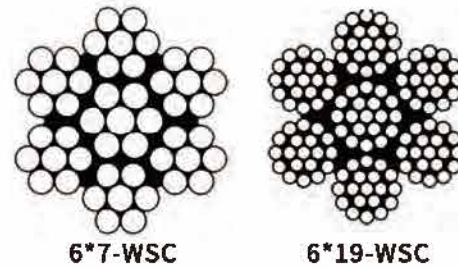
	标准			T1	T2	T2+	T3	T4	MORS
拉伸强度 Tensile strength	GB528	Mpa	>	18	20	18	15	15	18
拉断伸长率 Elongation at break	GB528	%	>	450	450	500	450	450	450
老化条件 Aging condition				100°C*7d	125°C*7d	130°C*7d	150°C*7d	180°C	70°C*7d
老化后拉伸强度变化 Tensile strength change after aging	GB/T 3512	%		±25	±30	±30	±40	±40	±25
老化后拉断伸长率变化 Elongation at break change after aging	GB/T 3512	%		±50	±50	±50	±55	±55	±25
硬度 Hardness	GB/T 531.1	Shore A		72±8	72±8	67±8	77±8	77±8	71±8
磨耗 Abrasion	GB/T 9867	mm ³	<	150	150	175	120	120	160
比重 Density	GB/T 533	g/cm ³	±0.03	1.165	1.165	1.165	1.078	1.078	1.145
特殊要求 Special request									中等耐油 Moderate oil resistance

钢丝绳专用结构 Special Structure of Steel Cord

钢丝绳排列 Steel cord arrangement

可以选择。直径和间距参照ISO15236或GB9770进行设计计算。

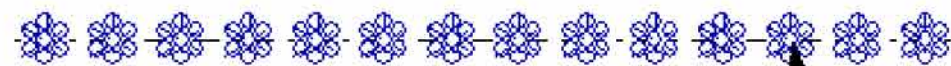
Optional. Diameter and pitch are calculated and designed according to ISO15236 or GB9770.



间隔式 With wire free zone



均匀式 Without wire free zone



横向加强层：可以选择 Horizontal reinforcement layer: optional

网状布 T fabric



材质：聚酯
Material: polyester

P布 P fabric



材质：聚酰胺
Material: polyamide

钢帘网 Steel mesh



材质：横向镀铜钢帘线
Material: transverse copper-coated steel mesh

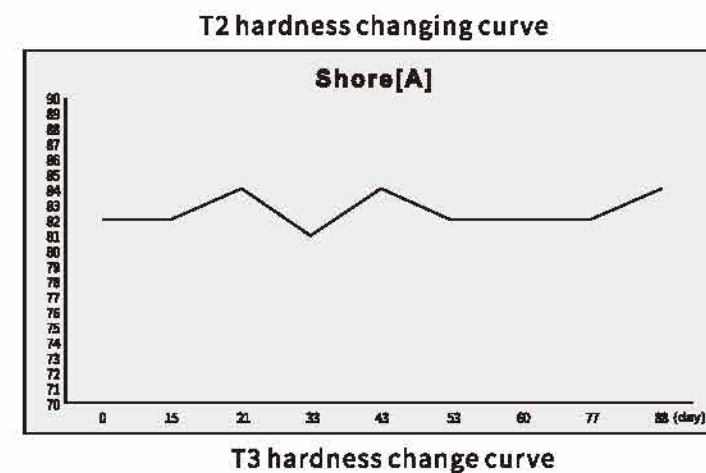
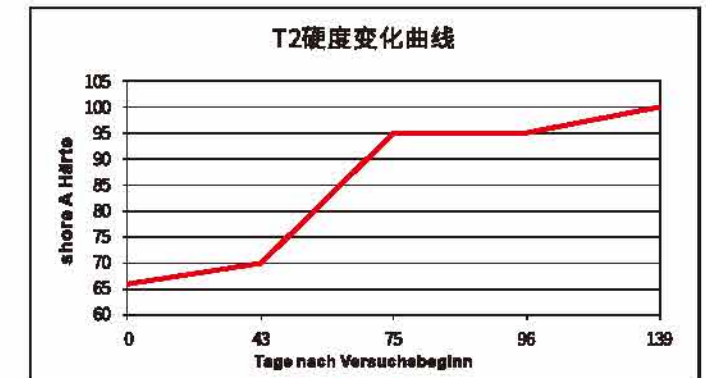
常用基带宽度 mm Common base belt width mm

450	550	680	850	1050	1200	1300	1400				
300	400	500	600	700	840	1080	1320	1440	1680	1900	2100

常用基带强度 N/mm Common base belt strength N/mm

ST800	ST1000	ST1250	ST1600	ST2000	ST2500	ST2800	ST3150	ST3500	ST4000
ST1000	ST2000	ST2250	ST3300						

提升带试验台测试 Elevator belt test machine



特种花纹输送带专家 Special Chevron Conveyor Belt Expert

花纹带 HCB High Chevron Belt



国际知名路基行业供应商, 花纹永不脱落, 极难崩口

International famous roadbed industry suppliers, the chevron will never fall off, extremely difficult to cleats



花纹带适用场景 Chevron belt application

◆**适用领域:** 适用于 ≤ 40 度倾角的粉状、颗粒状、小块物料输送, 也可输送包装袋物料, 在路基、水泥、煤矿、电力、化工等行业广泛使用。

◆**Apply to:** Suitable for ≤ 40 degrees, powder, grain, small pieces of material transmission, can also be transported packaging bag materials, widely used in roadbed, cement, coal mine, electric power, chemical and other industries.

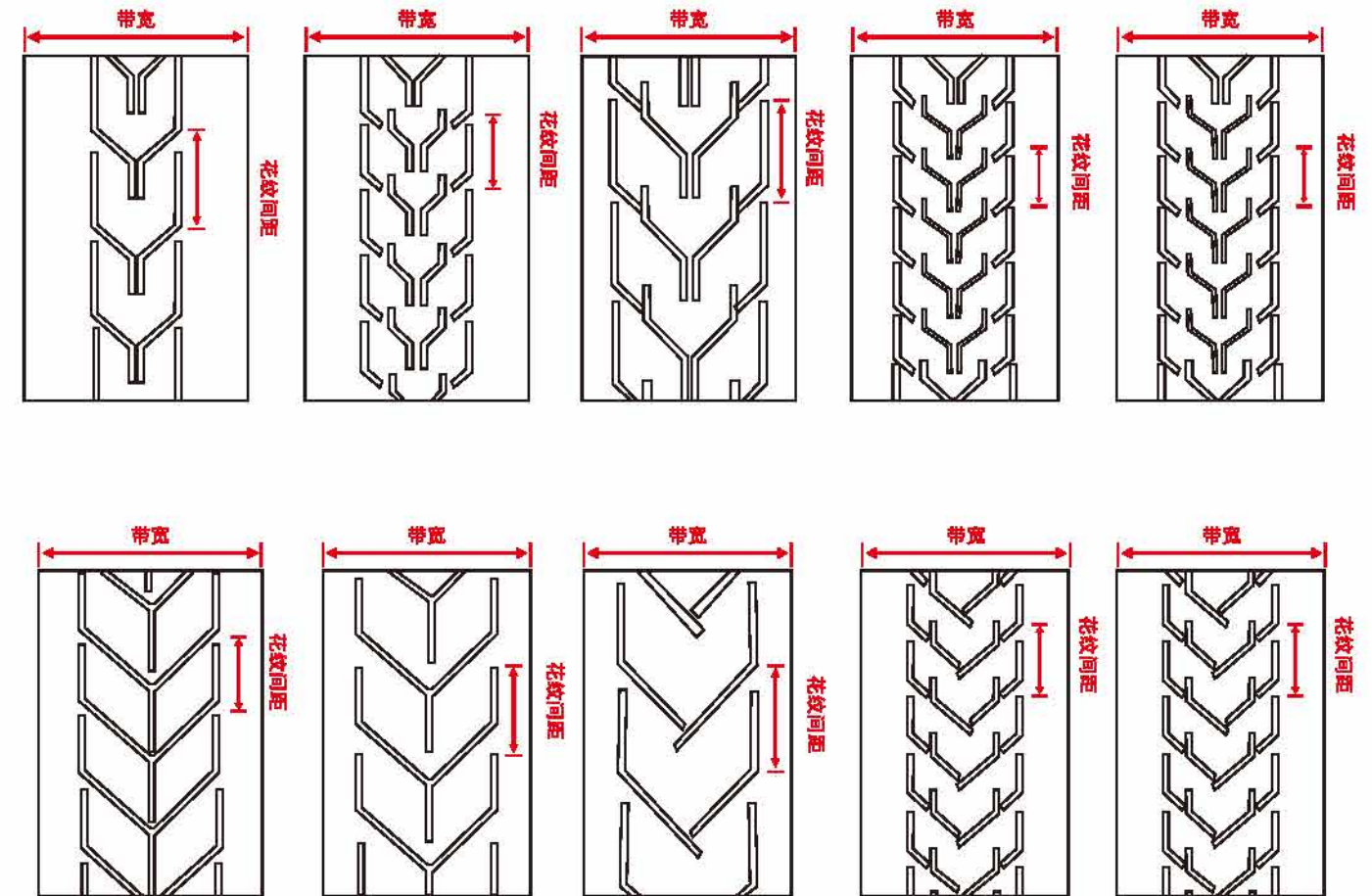
◆**关键性能:** 皮带花纹高度 ≥ 32 mm, 为国内最高, 且花纹永不脱落可实现0-40度倾角的输送, 根据运输不同物料和倾角大小, 花纹形状和高低任意调节, 不易打滑, 提高输送能力。

◆**Key performance:** The height of the chevron ≥ 32 mm, the highest in China, and the cleats will never fall off. It can realize the conveying with an inclination angle of 0 - 40 degrees. According to different materials transported and the size of the inclination angle, the chevron shape and height can be adjusted, which is not easy to slip and improves the conveying capacity.

◆**附加特性:** 花纹抗撕裂、抗脱落。成槽性能、耐磨性能好, 耐屈挠, 驱动滚筒直径小

◆**Additional properties:** The chevron is resistant to tearing and falling off. Good troughing performance, abrasion resistance, flexible resistance, small diameter of drive pulley.

花纹样式 Chevron style



典型数据 Typical data

覆盖胶层性能级别 Grade of Cover Rubber	拉伸强度 Tensile strength /Mpa \geq	拉断伸长率 Elongation at break /% \geq	磨耗 Abrasion /mm ³ \leq
HCB	20	450	100

矿山专家 Mine Expert

IPRP 抗冲击刺穿保护 Impact and Puncture Resistant Protection



◆**适用领域:** 用于输送对输送带具有强烈损害的尖锐磨损性物料,例如:金属的矿石、花岗岩、石英、高炉炼渣、粉碎的金属矿石、沙岩、碎石、石板、焦炭、碎玻璃和卵石。矿山开采、物料高冲刷、矿沙物料磨损较重条件下的输送场合。

◆**Apply to:** For conveying sharp and abrasive materials that cause strong damage to the conveyor belt, such as metallic ores, granite, quartz, blast furnace slag, crushed metal ore, sandstone, gravel, slate, coke, broken glass and pebbles. It is used in conveying occasions in the case of mining, high scouring of materials, and heavy wear of mineral sand materials.

◆**关键性能:** 1、抵抗尖锐物料及落差大的因素对输送带的高速冲击能量。
2、避免粗糙物料对输送带的加速磨损。

◆**Key performance:** 1. Resistance to the high-speed impact energy of sharp materials and large drop on the conveyor belt.
2. Avoid the accelerated wear of the conveyor belt by rough materials.

◆**附加特性:** 加入横向抗撕裂系统,提高物料对输送带的冲击和穿刺保护。

◆**Additional properties:** Add a transverse tear-resistant system to improve the impact and puncture of materials on the conveyor belt.

选型数据 Selection data

覆盖胶层性能级别 Grade of Cover Rubber	拉伸强度 Tensile strength /Mpa ≥	拉断伸长率 Elongation at break /% ≥	磨耗 Abrasion /mm ³ s
IPRP	25	600	120
抗冲击材质 anti-impact	抗冲击性能 anti-impact	叠加弹性 Superposition elasticity	抗撕裂阻力 Tear resistance
NN66绳 rope	1	1	1
聚酯网 Polyester net	1	1	1
聚酯布 Polyester fabric	2	3	3
钢网 Steel mesh	1	3	2
钢丝绳 Steel cord	1	3	3

典型数据 Typical data

纬向增强对冲击能量的影响 Influences on the impact energy of weft reinforcement

额定强度 N/mm Rated strength N/mm	类型 Type	覆盖厚度 mm Thickness of cover rubber mm		冲击能量 (J) Impact energy (J)	
		上 top	下 bottom	初次损伤 1st damage	初次穿透 1st penetration
1250	双向纬向增强 bidirectional weft reinforcement	10	6	980	1120
	单向纬向增强 single weft reinforcement	10	6	625	855
	无纬向增强 no weft reinforcement	10	6	380	610
2500	双向纬向增强 bidirectional weft reinforcement	10	8	1156	2016
	单向纬向增强 single weft reinforcement	10	8	1120	1600
	无纬向增强 no weft reinforcement	10	8	960	1350
3150	双向纬向增强 bidirectional weft reinforcement	12	8	1810	2030
	单向纬向增强 single weft reinforcement	12	8	1130	1700
	无纬向增强 no weft reinforcement	12	8	900	1580

额定强度 N/mm Rated strength N/mm	类型 Type	覆盖厚度 mm Thickness of cover rubber mm		撕裂强度 (KN) Tearing strength (KN)
		上 top	下 bottom	
1250	双向纬向增强 bidirectional weft reinforcement	8	6	8.6
	单向纬向增强 single weft reinforcement	8	6	7.1
2500	双向纬向增强 bidirectional weft reinforcement	10	6	9.5
	单向纬向增强 single weft reinforcement	10	6	8.0
3150	双向纬向增强 bidirectional weft reinforcement	10	8	10.6
	单向纬向增强 single weft reinforcement	10	8	9.1

高磨损保护 HAP High Abrasion Protection



- ◆**适用领域:** 主要用于港口、钢铁厂、矿场、煤厂、沙石厂、环保回收处理等物料, 粒径较大且表面粗糙度和锐利度较大。
- ◆**Apply to:** Mainly used in ports, steel plants, mines, coal plants, sand and stone plants, environmental protection recycling treatment, materials with large size and large surface roughness and sharpness.

- ◆**关键性能:** 独特橡胶配方体系具有高弹性, 高硬度的输送面, 有效避免高粗糙与锐利物料的伤害, 更能有效降低表面被磨损的程度。
- ◆**Key performance:** The unique rubber formula system has high elasticity, high hardness of the conveying surface, effectively avoid the damage of high rough and sharp materials, more can effectively reduce the degree of surface wear.

- ◆**附加特性:** 输送面具具有抗冲击, 抗棱角划伤磨损的特性。
- ◆**Additional properties:** The conveying surface has the characteristics of impact resistance, sharp scratch resistance and wear resistance.

典型数据 Typical data

覆盖胶层性能级别 Grade of Cover Rubber	拉伸强度 Tensile strength /Mpa ≥	拉伸伸长率 Elongation at break /% ≥	磨耗 Abrasion /mm ³ ≤
HAP	20	450	30

防爆输送专家 Explosion-proof Conveying Expert

FSR阻燃抗静电输送带
Flame Static Resistance



- ◆**适用领域:** 用于煤矿露天以及井下物料输送
- ◆**Apply to:** For coal mine open air and underground material transport

- ◆**关键性能:** 1. 阻燃
2. 抗静电
- ◆**Key performance:** 1. Flame retardant
2. Anti-static

- ◆**附加特性:** 加入横向抗撕裂系统, 提高物料对输送带的冲击和穿刺
- ◆**Additional properties:** The horizontal tear resistance system is added to improve the material impact and puncture protect on the conveyor belt

选型数据 Selection data

覆盖胶层性能级别 Grade of Cover Rubber	拉伸强度 Tensile strength /MPa ≥	拉伸伸长率 Elongation at break /% ≥	磨耗 Abrasion /mm ³ ≤	抗静电 Ω	完整覆盖层燃烧的平均值/单值S ≤	剥去覆盖层燃烧的平均值/单值S ≤
FSR	15	350	200	3*10 ⁸	3/10	5/15



圆管式输送带特点如下:

无公害输送, 避免槽式输送带撒料, 灰尘飞扬的缺点, 物料无泄漏。

(1) 能实现三维方向输送。可水平、垂直、空间三个方向转弯

(2) 可大幅度缩短机长, 设备投资可大量节约。

(3) 适宜各种物料输送, 石灰石、煤、矿石、烧结矿、木材片、砂、灰、污泥、混凝土、化肥、水泥、黏土等各种散料和小块料、中块料。

(4) 适宜于钢铁厂、矿山、煤矿、露天开采、建材、盐厂、水泥厂、化工厂、火力发电厂、陶瓷厂、纸厂、糖厂、化肥厂、农场、水泥工地、建筑工地、公路、铁路建筑、飞机场建设等各行各业。

(5) 不需修掩盖走廊, 节省投资, 适宜越野输送, 依山沿水而行, 免修隧道, 特别是中国式圆管式输送机转弯半径小, 且大量节约土地。

1. 低倾角区 (0°-20°)
2. 高倾角区 (20°-45°)
3. 大倾角区 (45°-87°)

◆**适用领域:** 对环保有严格要求和复杂地形条件下, 实现水平曲线和空间曲线的密闭输送, 可实现小半径三维空间转弯, 大倾角提升, 节约土地面积。

◆**关键性能:** 耐冲击、成管性好(钢性和柔性)、线路布置不受限制。

◆**附加特性:** 抗刺穿、防爆管、刚性保持长久, 刚性释放平缓。



Pipe conveyor belt features are as follows:

Pollution-free transportation, avoid ordinary trough conveyor belt scattered material, dust flying shortcomings, material no leakage.

(1) Can achieve three-dimensional directional conveying. Can turn in horizontal, vertical, space three directions curve

(2) Can greatly shorten the length of the machine, a large amount of equipment investment can be saved.

(3) Suitable for material transportation, limestone, coal, ore, sinter, wood sheet, sand, ash, sludge, concrete, fertilizer, cement, clay, other bulk material, small and medium block material.

(4) It is suitable for iron and steel plants, mines, coal mines, open pit mining, building materials, salt plants, cement factory, chemical plant, thermal power plant, ceramic factory, paper factory, sugar factory, fertilizer factory, farm, cement site, construction site, highway, railway construction, airport construction and other industries.

(5) There is no need to cover the corridor, save investment, suitable for off-road transportation, along the mountain along the water, free tunnel, especially the Chinese style round pipe conveyor small turning radius, and a lot of land saving.

1. Low incline zone (0° -20°)
2. High incline zone (20° -45°)
3. Large incline zone (45° -87°)

◆**Apply to:** Under the strict requirements for environmental protection and complex terrain conditions, realize the closed transportation of horizontal curve and space curve, can realize the three-dimensional space turning of small radius, increase the large inclination angle, and save the land area.

◆**Key performance:** Impact resistance, good pipe forming ability (steel and flexibility), line layout is not limited.

◆**Additional properties:** Anti-puncture, explosion-proof pipe, rigid maintain for a long time, and rigid release gently.

选型数据 Selection data

圆管式输送带规格 Pipe conveyor specification

带宽/mm Width	直径/mm Diameter	75%断面积/m ² 75% break area	输送量/(t/h) Delivery quantity	最大粒径/mm maximum bulk size
650	150	0.014	100	50-75
800	200	0.024	190	50-100
1000	250	0.042	350	100-130
1100	300	0.050	450	130-150
1350	350	0.068	715	150-180
1600	400	0.110	1300	170-200

转弯半径R Turning radius

类型 type		转弯半径 turning radius	
		纤维带芯 Fiber belt carcass	钢芯带芯 Steel belt carcass
日本式 Japanese style	直面 vertical side	≥300D 300 pipe diameter, D	≥700D
	水平面 horizontal side	≥400D 400 pipe diameter, D	≥800D
德国式 German style	S形凸弧及水平连着凹弧 S-shaped convex arc and horizontally connected to the concave arc	400D	800D
	水平连着凹弧 The horizontal connected to the concave arc	500D	900D

典型数据 Typical data

覆盖胶层性能级别 Grade of Cover Rubber	拉伸强度 Tensile strength /Mpa ≥	拉断伸长率 Elongation at break /% ≥	磨耗 Abrasion /mm ³ ≤
CGE	24	450	120

替代燃料输送专家 Alternative fuel Expert

HOP耐油带 High Oil Protection



运输特点: 高油高附着

我公司的高耐油输送带高油高附着物料可为客户提供解决方案, 并可根据客户需求增加防粘附性能

Transportation characteristics: high oil and high attachment
Our high oil resistant conveyor belt can provide customers with high oil and high adhesion material solutions and add anti-adhesion properties according to customer needs



◆**适用领域:** 具有比较好的耐油性, 适合于输送含油物料, 以及一些可能出现油性、化学溶剂的场合使用。

覆盖胶选用耐油性能优良的合成橡胶, 增强材料可根据客户的不同需要选用不同的材料。

◆**Apply to:** With a relatively good oil resistance, suitable for the transportation of oil-containing materials, as well as being used in some occasions where oily and chemical solvents may appear. The covering rubber selects synthetic rubber with excellent oil resistance performance, and the reinforcing materials can be selected with different materials according to different needs of customers.

◆**关键性能:** 具有体积变化率低、强度保持高、使用范围广。

◆**Key performance:** Low volume rate of change, high strength maintain, wide range of use.

◆**附加特性:** 按使用条件分为一般条件下的耐油输送带(以LO表示)和强磨损条件下的耐油输送带(以DO表示)。具有防粘附的特性。

◆**Additional properties:** Usually can be divided in general condition oil resistance belt(LO) and strong wear condition oil resistance belt(DO). Has adhesion resistance characteristics.

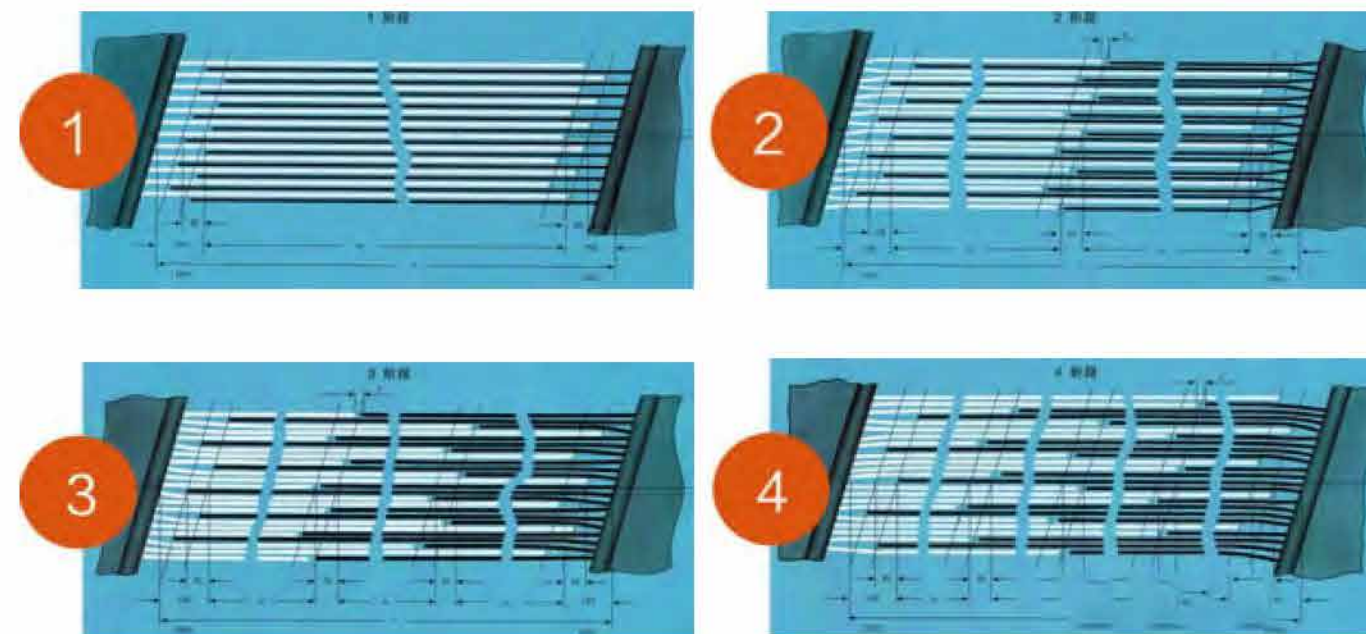
选型数据 Selection data

序号 No	在浸泡液中试验条件 Test condition in soaking liquid			体积变化率≤ Volume change rate	
	油号 Oil	浸泡温度°C Soaking Tem.	浸泡时间 Soaking time		
1	2#	70±2	70	+20	-5
2	3#	70±2	72	+50	+5
3	3#	100±2	22±0.25	+50	+5

典型数据 typical data

覆盖胶层性能级别 Grade of Cover Rubber	拉伸强度 Tensile strength /Mpa ≥	拉断伸长率 Elongation at break /% ≥	磨耗 Abrasion /mm ³ ≤
HOP	16	350	160

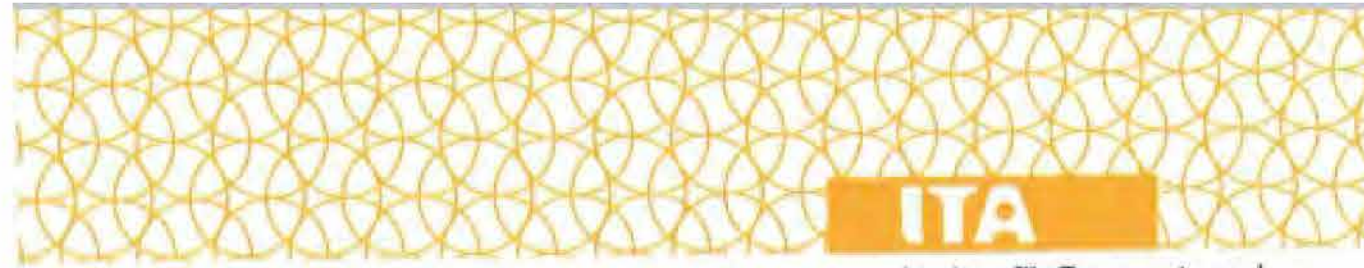
接头专家 Joint Expert



执行DIN标准, 钢丝绳输送带的静态接头抗拉强度可达到100%承诺的公称强度, 接头可实现与输送带同等的使用寿命

Implement DIN standards ,the static joint tensile strength of the steel cord conveyor belt can reach the nominal strength of 100% commitment, the splicing can achieve equal service life with conveyor belt

接头专家 Joint Expert



ITA
Institut für Transport- und
Automatisierungstechnik



4 Summary

The test belt investigated was tested with the peak load 510 kN. According to the data provided by the orderer this load equals 50 % of the nominal breaking force of the test belt according to DIN 22110-3. The test belt passed the number of 10000 load cycles, required by DIN 22110-3, without any visible damages.

Prof. Dr.-Ing- L. Overmeyer

Malte Kanus, M. Sc.

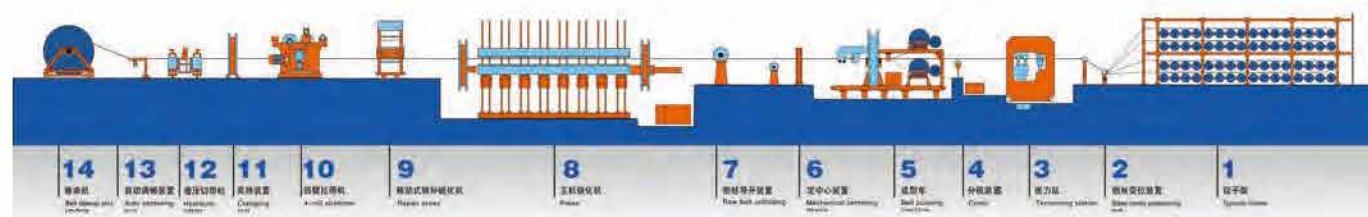
体系保证 System Assurance

The image displays a comprehensive set of 16 technical documents arranged in a 4x4 grid. The documents include:

- Product Quality Control Management System:** A flowchart showing the relationship between Product Quality Control, Production Quality Control, and Process Quality Control.
- Production Quality Control System:** A flowchart detailing the production quality control process, including steps like Production Quality Control, Production Quality Control, and Production Quality Control.
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装备保证 Equipment Assurance

钢丝绳芯输送带生产线 STEEL-CORD CONVEYOR BELTS PRODUCTION LINE



该生产线设计的输送带整体破断强度可达到10000N/mm, 在目前输送带加工行业中属于最高水平, 整条生产线实现了最高程度的自动化操作和管理, 带宽可达2200mm, 单卷最大重量40T, 生产线总长度为130m, 可满足国内国际各类标准的钢丝绳芯输送带。



质量保证 Quality Assurance



请同时参考橡胶混炼胶的制造 Please refer to the manufacture of rubber compound

不同橡胶的性能 (1=非常好; 6=不适合使用) Properties of different rubbers (1=excellent; 6=Not suitable for use)	NR	IR	SBR	BR	NBR	CR	IIR	EPDM
拉伸强度 breaking force	1	2	2	4	2	2	3	3
拉伸伸长率 elongation force at break	1	1	2	3	2	2	2	3
耐磨性能 abration properties	4	4	3	1	2	3	4	3
耐撕裂性能 tearing resistance	2	2	3	5	3	2	3	3
低温性能 low temperature resistance	2	2	3	2	3	3	2	2
耐热性能 heat resistance	4	4	3	3	3	2	1	1
抗氧性能 oxygen resistance	4	4	3	2	3	2	2	1
抗紫外光性能 anti-ultraviolet resistance	4	4	3	3	3	2	2	1
耐臭氧性能 ozone resistance	4	4	4	3	4	2	3	1
耐油性能 oil resistance	6	6	5	6	1	2	6	6
耐酸性能 acid resistance	3	3	3	3	4	2	2	1
耐燃烧性能 fire resistance	6	6	6	6	6	2	6	6