

EarthRockTM Conveyor Belts

Rugged. Reliable. Respected.TM

State-of-the-Art Manufacturing



Rubber Conveyor Belt Product Lines

- Steel Cord CVB
- Fabric CVB (in house fabric mill)
 - ❖ EP
 - ❖ NN
 - ❖ CC
- Solid Woven CVB (in house fabric mill)
 - ❖ PVC
 - ❖ PVG
- Other
 - ❖ Pipe Conveyor System
 - ❖ Polyurethane seals

Steel Cord Conveyor Belt

Capability

- Width..... 2' to 8.5'
- Max Cable Diameter..... 1/2"
- ST..... 400 kN/m - 7500 kN/m (30 PIW - 43,125 PIW)
- Belt thickness..... .40" to 1.6"
- Cable number capacity..... 276
- Rolled belt diameter..... 11'.5" (Round), 11'.5" x 20' (Racetrack)
- Finished roll weight..... 55 Tons

Capacity

- Steel Cord Curing Lines..... x 5 (3 new production lines in building)
- Average Monthly output..... 4,148 Tons
- Average monthly output..... 30 miles (up to 68 miles after 3 new lines)

Fabric Multi-Ply Belt

Capability

- Width..... 2' to 8.5'
- Belt Strength..... 80 kN/m - 1000 kN/m per ply (460 PIW - 5,750 PIW)
- Belt thickness..... .40" to 1.6"
- Rolled belt diameter..... 11'.5" (Round), 11'.5" x 20' (Racetrack)
- Finished roll weight..... 55 Tons

Capacity

- Fabric belt Curing Lines... x 6 (3 new production lines)
- Average monthly output... 702 Tons
- Average monthly output... 37 miles (up to 75 miles after 3 new Lines)
- Steel Cord lines also have ply-belt curing capability

Solid Woven Conveyor Belt

Capability

- Width..... 20" to 87"
- Belt Strength..... 680 kN/m - 4000 kN/m (3,910 PIW - 23,000 PIW)
- Belt thickness..... 1/4" to 1"
- Rolled belt diameter..... 11'.5"
- Continuous or flat press cure option for PVC belting
- PVG belts cured in flat presses

Capacity

- PVC Lines..... x 3
- Average monthly output..... 1,255 Tons
- Average monthly output..... 80 miles

Production Equipment Vulcanization Press Line



- 4S-Type Pulley Rubber Calendar Machine
- Equipped Water Cycle Cooling System
- Auto Control by PLC microcontroller



Dual Press Fabric Ply belt Press line 5' x 40'

- Auto Control by PLC microcontroller
- Automatically detect and adjust the hot plate temperature
- Flat structure with a double sulfide, reduces labor intensity and improves production efficiency



- 5' x 55' Steel Cord Production Line (suitable for ply belt)
- 5' x 40' Dual Press Fabric Ply belt Press Line
- 7' x 55' Steel Cord Production Line (suitable for ply belt)
- 8' x 40' Steel Cord Production Line (suitable for ply belt)
- 8' x 55' Steel Cord Production Line (suitable for ply belt)
- 9' x 40' Steel Cord Production Line (suitable for ply belt)

First Dual Extrusion Rubber Calendar Machine

98 Inch width rubber production line

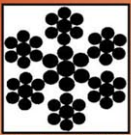
EarthRock™ Conveyor Belts are manufactured with a state-of-the-art calendaring process which extrudes the top cover and the upper core rubber as well as the bottom cover and down core at the same time. This technical advantage provides for:

- Perfect appearance and better consolidation for the whole belt
- Higher density without bubbles
- Improved steel-cord pull out force without contamination

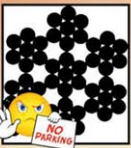


Why open type steel cord?

Advantage of open type steel cord



Open Type Steel Cord



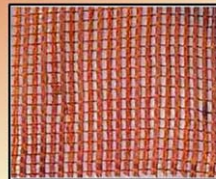
Standard steel cord

- Open Type Steel Cord
- Standard steel cord
- Special structure among the cords
- Tight adhesion between the steel cords and core rubber
- Excellent anti air-penetration performance
- Avoid the corrosion of the steel cords in case of any damage to the carcass
- Extend the life of the belting
- Steel Cord from Fasten Group

Anti-Tearing steel cords conveyor Belt



Steel Mesh Rip Resistance Breaker Material in top cover

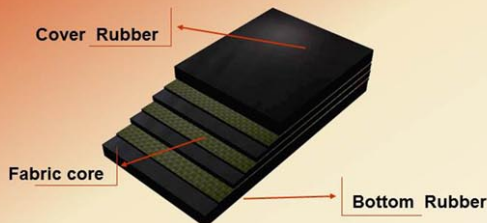


Nylon Rip Resistance Breaker in top cover



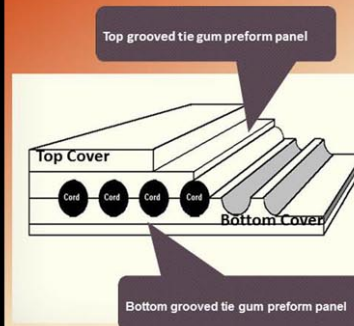
One or two layers of breakers can be added to the belting

Plied Textile Conveyor Belts



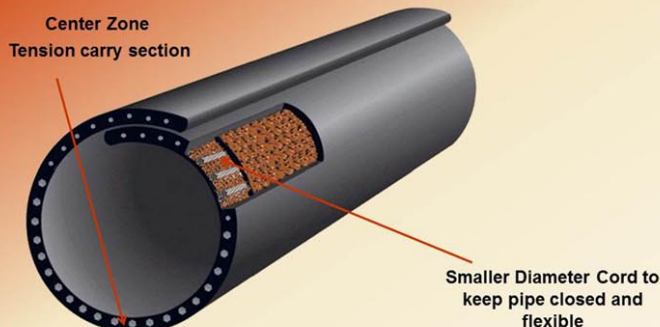
Ply Up by fabric carcass like as Cotton fabric, EP Polyester Fabric, Nylon Fabric, Aramid Fabric, cover with Rubber Sheet, after cured process

Pre-Core Splicing Kits



- Top grooved tie gum preform panel
- Top Cover
- Bottom Cover
- Bottom grooved tie gum preform panel
- Reduced splice time
- Straighter, more uniform splice
- No cement
- Avoids dust sticking to cement
- Better dynamic performance

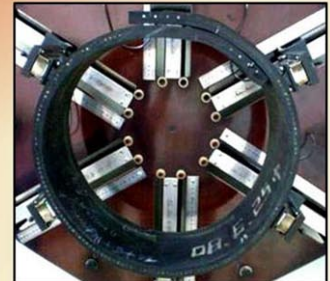
Pipe Conveyor Belt



Pipe Conveyor Belt



Close Test of Pipe Conveyor Belt



Rigid Test of Conveyor Belt

EarthRock™ Conveyor Belts



Data Specification Sheet for EarthRock™ Conveyor Belts

Belt Model: 42" EarthRock Velocity Plus 2 ply 3/8" x 1/8"

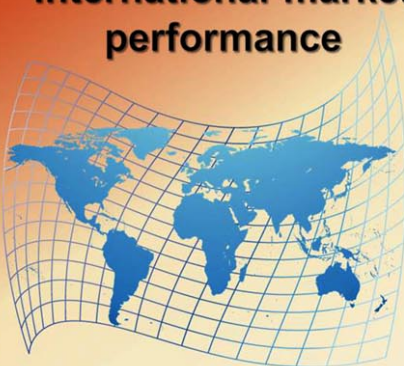
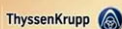
Category		Quantitative value		Remarks
Specification		42" EarthRock Velocity Plus 2 ply 3/8" x 1/8"		RMA II
Appearance quality		No wave, bubble, scar, sponge etc.		DIN22102
Belt width (mm) (in)		1067±1%	(42")	DIN22102
Edge width (mm) (in)		≤15	(0.59")	DIN22102
Tensile strength length at breaking (N/mm) (PIW)		≥1000	(5,710 PIW)	DIN22102
Bonding strength (N/mm)		(Plied with plied) 5/4.5 (Plied with cover rubber)		According to DIN 53530
Single fabric strength(N/mm) (PIW)		≥500	(2,855 PIW)	DIN22102
Weight elongation 10 %		≤1.5		DIN22102
Thickness (mm) (in)		16.8±0.4	(5/8")	DIN22102
Top cover thickness (mm) (in)		9.6±0.2	(3/8")	DIN22102
Bottom cover thickness (mm) (in)		3.2±0.1	(1/8")	DIN22102
Cover Rubber	Standard/grade	RMA II		
	Strength at breaking: Mpa	≥14 Mpa		According to RMA II
	Abrasion: mm ³	≤150		According to RMA II
	Elongation at breaking: (%)	≥350		According to RMA II
Vulcanization joint type/length		Inclined joint/300mm/step	(11.8")	DIN22102
Hot air aging performance 70° C × 168h (158° F)		≤±25%		DIN22102
Trough angle of lateral supporting rol (35°)		≥0.14		According to ISO 703

**EarthRock™
Conveyor Belts**

PRODUCT EXCLUSIVELY FROM
Contact: dan@chinanavigators.com
412-956-3577 or 412-344-6860
www.chinanavigators.com



International market performance



Applicable Standards



GB/T9770, GB/T7984, GB/T10822, GB/T20021, MT668
HG/T2297, HG/T3646, (ISO4195)



DIN22131, DIN22102



AS1332, AS1333



KS



IS



PN93/C-05013



MSHA, RMA



JIS K



NFM



SANS



EN ISO