



AVANVITA

A Symphony in Motion

CATALOG

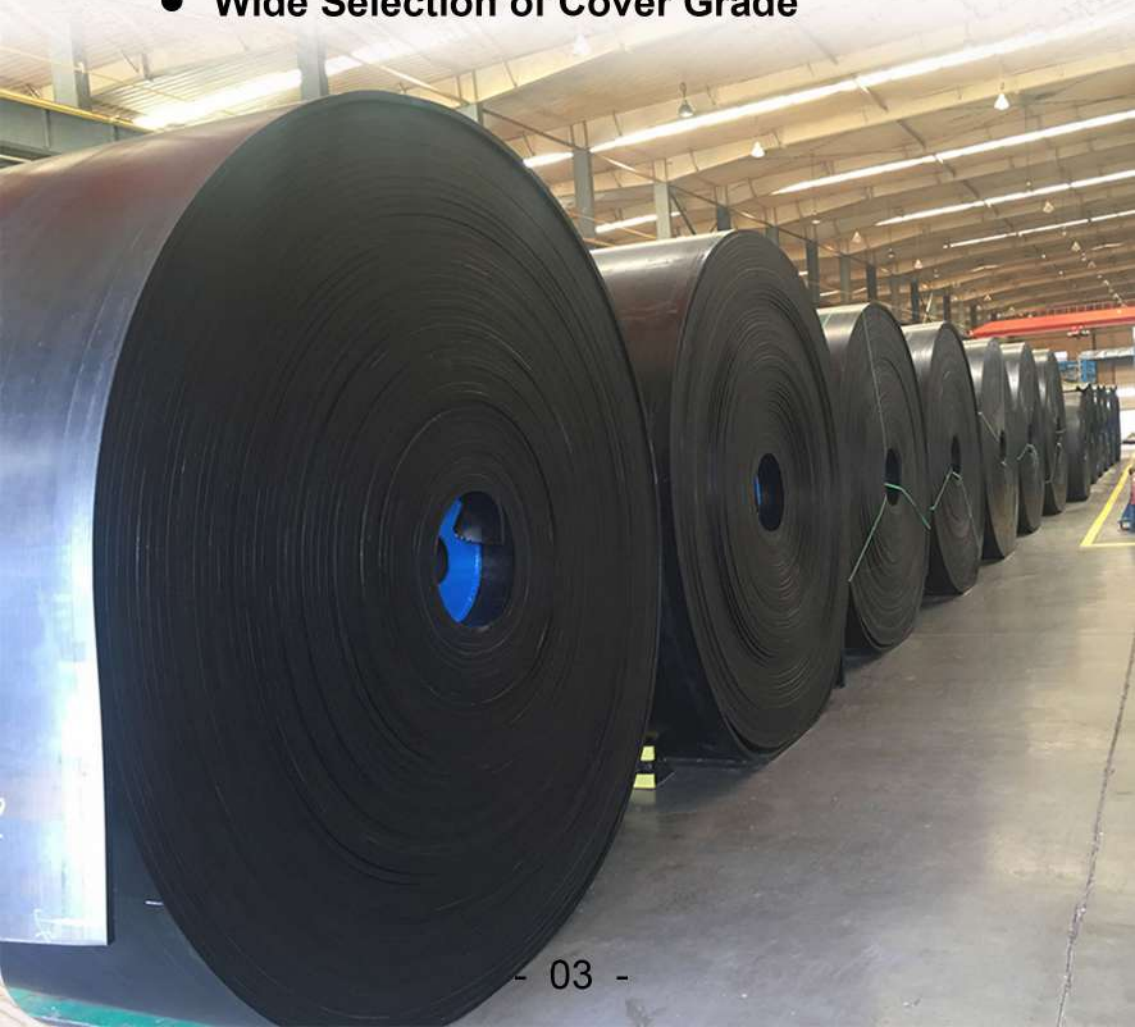
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Flat Conveyor Belt

Fabric Ply

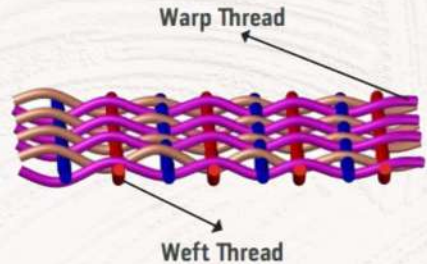
- **Fabric Reinforced: EP (Polyester/Polyamide)**
- **Multi Ply Construction**
- **Wide Selection of Cover Grade**



Flat Conveyor Belt Fabric Ply

Plain Fabric Weave

One-over-and-one-under wavy pattern



Crows Foot Weave (CFW)

Twill pattern 2x2 design.
Each weft thread goes over 2 warp threads, then under 2 warp threads, repeating a diagonal pattern.

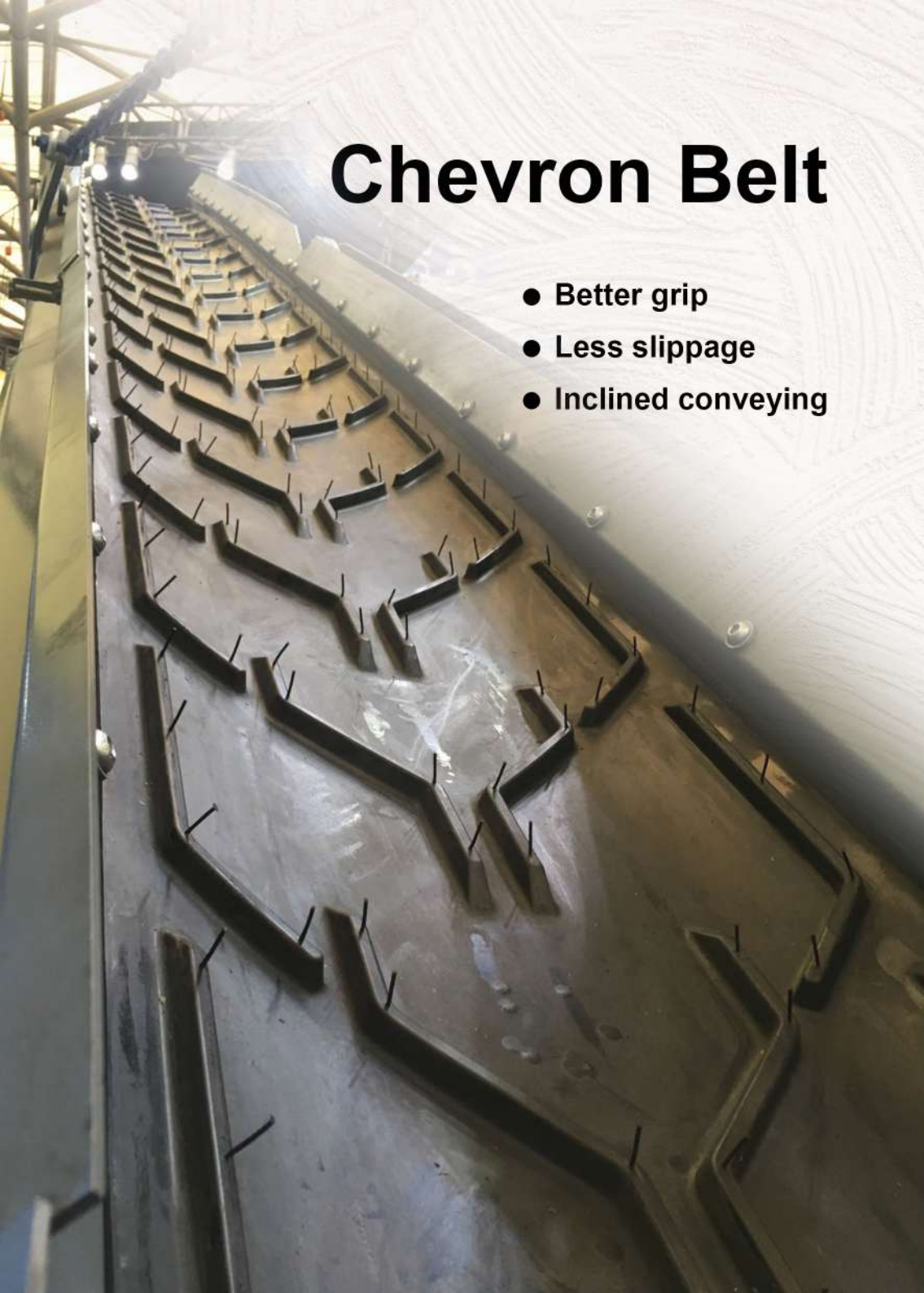
Straight Warp (SW)

Straight warp and weft don't interlock, but bond together with unique binder to concentrate belt strength.



Chevron Belt

- Better grip
- Less slippage
- Inclined conveying



Chevron Belt

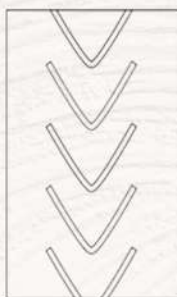
Profiles



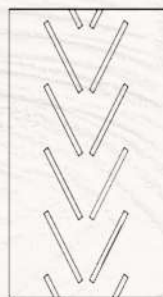
C.H. 5/6/10/15
B.W.M. 1200



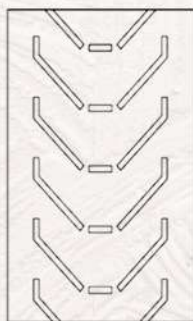
C.H. 6
B.W.M. 2300



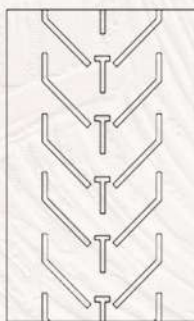
C.H. 15
B.W.M. 1200



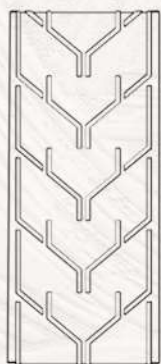
C.H. 15
B.W.M. 1200



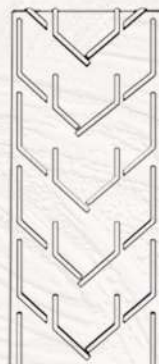
C.H. 15/25
B.W.M. 1200



C.H. 25
B.W.M. 1600



C.H. 17
B.W.M. 1400



C.H. 32
B.W.M. 1400

C.H.: Chevron Height

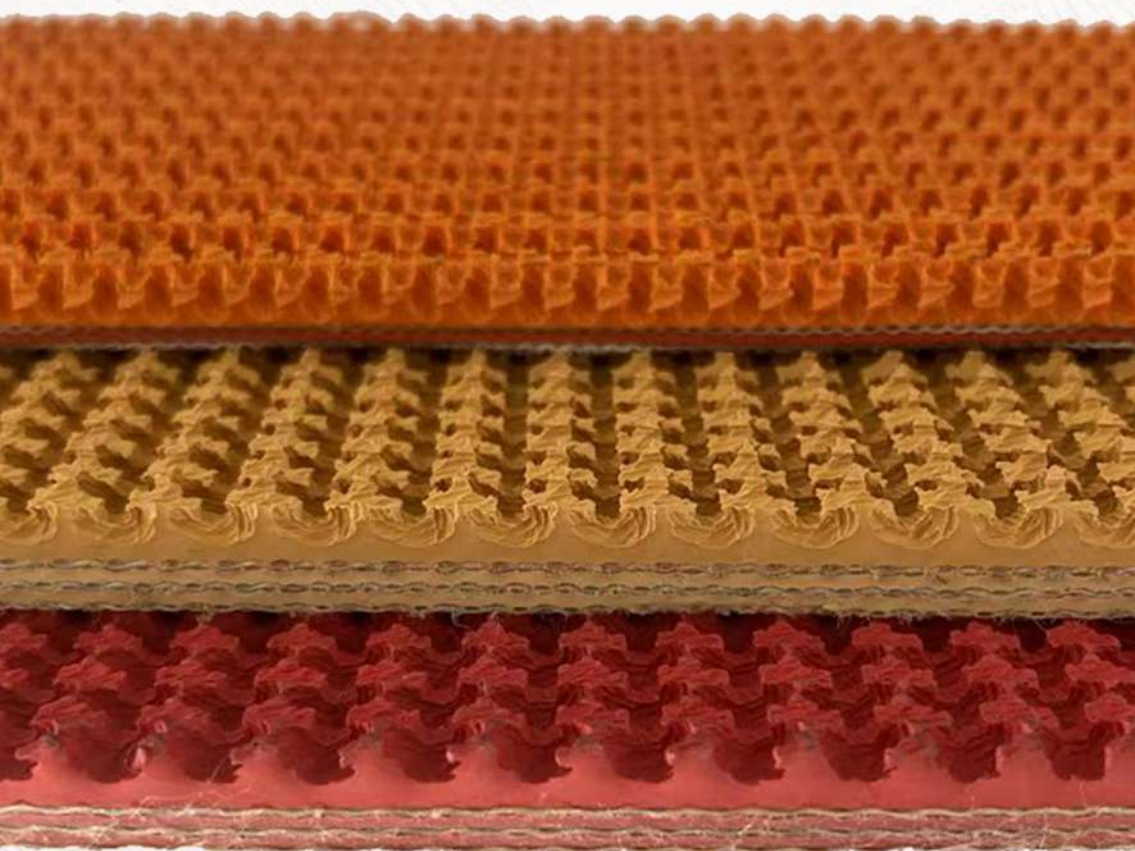
B.W.M.: Belt Width Max

****Special Mould Available****



Chevron Belt

Roughtop



Steel Cord Belt

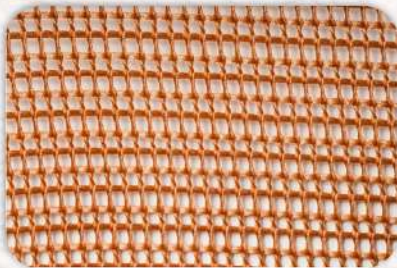
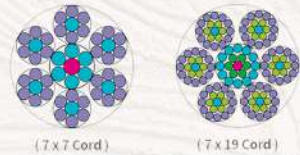
- High Tensile Strength
- Low Elongation
- Long Distance Transport
- Impact Resistance
- Long Service Life



Steel Cord Belt

Inner Structure

Common cord construction:
7x7, 7x19
Tensile: 630-7500 N/mm

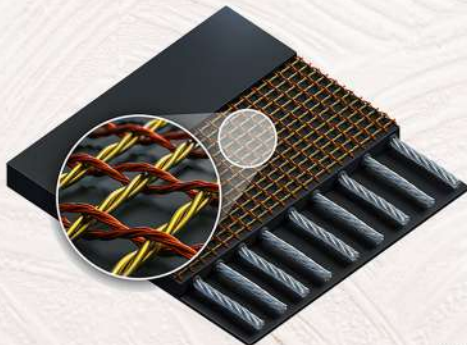
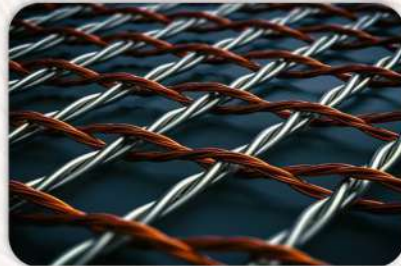


With Fabric Breaker

Polyester/Nylon fabric breaker is a transversal reinforcement to prevent the belt being pierced through longitudinally between cords by sharp objects.

With Steel Breaker

Steel breaker is transversal steel wire fixed by longitudinal binder wire.



*Fabric or steel breaker can be placed on top cover or both top and bottom cover for rip-stop purpose.

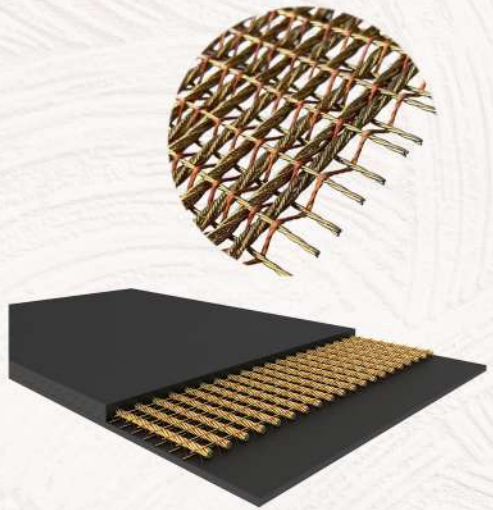
Elevator Belt

- Vertical Lifting
- Low Stretch
- High Tensile Strength
- Impact & Wear Resistance
- Fabric/Steel Structure
- Tough Applications

Elevator Belt

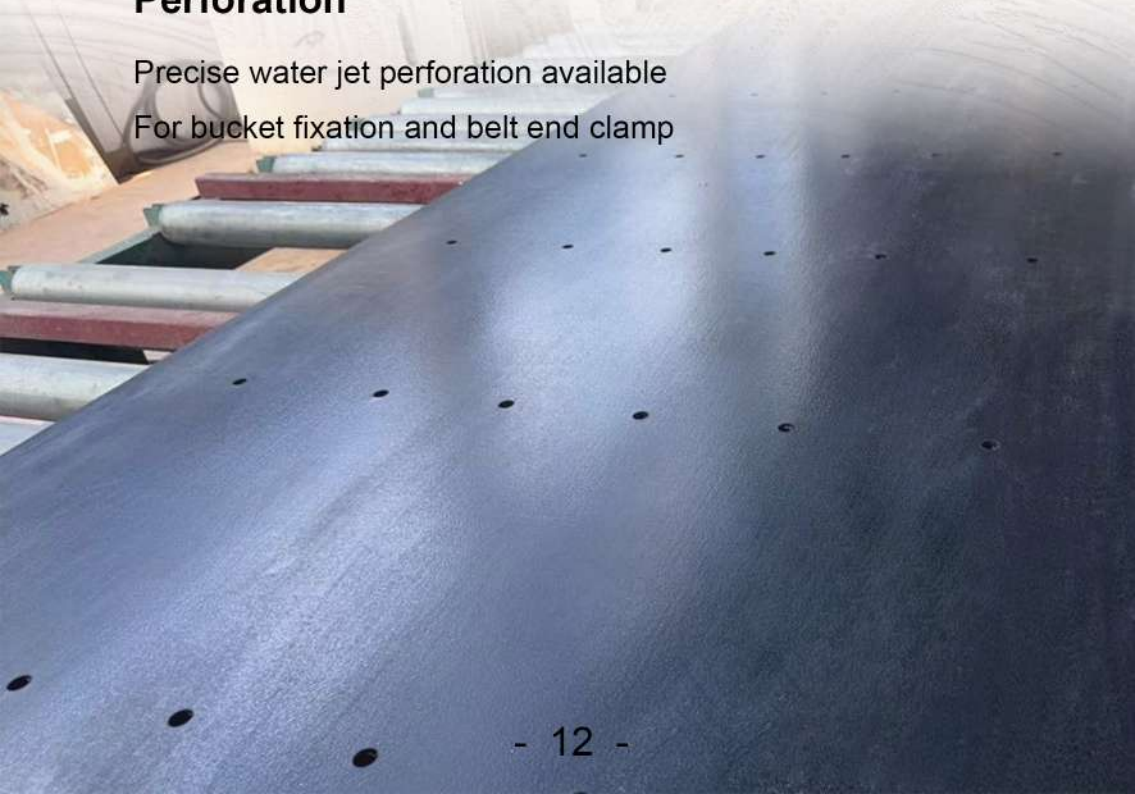
SW Structure

Optional steel web carcass-ideal for heavy duty elevator belt. Two layers of transversal steel cords on top and bottom of longitudinal steel cords, formed an integral structure by binder yarn.



Perforation

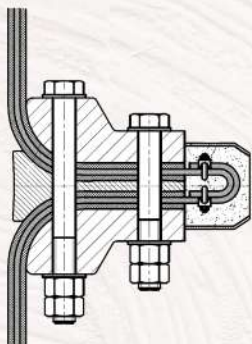
Precise water jet perforation available
For bucket fixation and belt end clamp



Elevator Belt

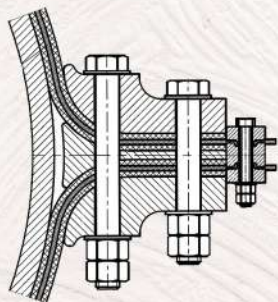
Belt Clamp

- With casting compound box to join the belt ends together



***Casting compound includes glue and hardener*

- Aluminium clamp



Elevator Belt

Elevator Bolt



***Domed washer available*



Elevator Bucket



HDPE/Steel

Rubber Strip



Sidewall Belt



- Lateral Stiff
- Longitudinal Flex
- Steep Convey
- High Strength
- Less Spill
- Versatil Application

Sidewall Belt

Heavy Duty

- Cross Stabilized Layer can be added on top or bottom cover or both to increase lateral stiffness, so belt runs flat and centered, no cupping or bowing on edges or sagging in the middle.
- Hot vulcanized sidewall and cleat, to ensure high adhesion.

- High corrugated sidewall and cleat can be fabric reinforced to increase strength.



- Cleat can be bolted to increase the “pocket” strength. It includes 2 bases hot vulcanized to base belt, and 1 cleat screwed between the bases.



Sidewall Belt

Heavy Duty

PU Cleat available



Sidewall Belt

Light Duty

- TPU Material - Uniform TPU throughout the belt
No layer, coating or mixing with other material, make sure consistent strength and properties across the belt.
- Durable & Strong: Single solid piece of belt, no joint or seam.
- Anti-Bacteria & Easy Clean - Ideal for food processing application.
- Aramid Cord - Low stretch, straight and centered conveying
- High Frequency Welded Sidewall and Cleat

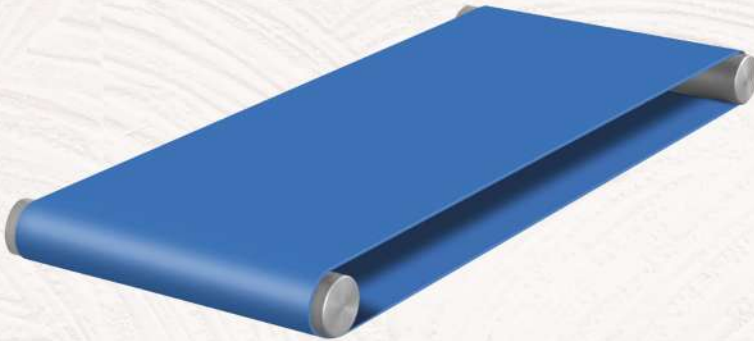


Aramid Cord



Sidewall Belt

Light Duty - Two Drive Method



Friction Drive - Power transmitted by friction between pulley and belt.



Sprocket Drive - Power transmitted by positive engagement between teeth/drive bar profile and sprocket, less tension required by this mechanical interlock.

Light Duty Belt

- Light Weight
- PVC/PU/TPU Coating
- One or Multi-ply Fabric Carcass
- Durable
- Versatile Application
- Customizable Color and Profile



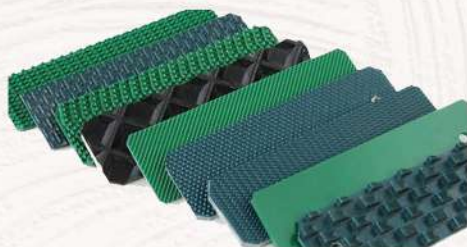
Light Duty Belt

PVC (Polyvinyl Chloride)

PVC is thermal plastic material, meaning it can be melted and reshaped multiple time when gets heated.

Fabric layer one or several plies are optional to increase tensile strength and durability.

PVC material is evenly coated on fabric carcass and closely boned by lamination process.



Color and surface profile can be customized



Latitudinal Fishbone



Lattice



Shallow Diamond



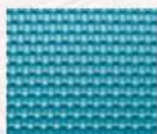
Lowgrip



Fishbone



Big Square



Small Golf



H Tooth Profile



Round Nipple



Staggered Herringbone



Coarse Texture



Crescent



Rough Fabric



Long Stud



Rough Top



Wavy Super Grip



Matt



Saw Tooth



Diamond



Golf

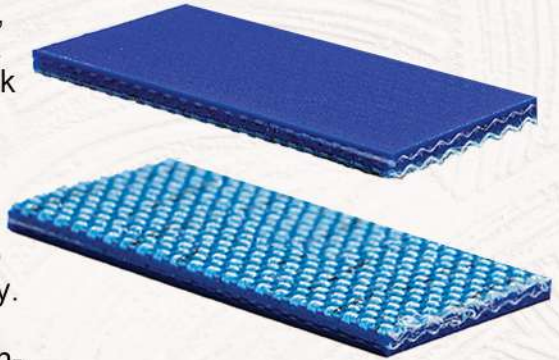
Light Duty Belt

PU (Polyurethane)

PU is thermosetting material, meaning it's one-time curing. Once shaped, it can't go back to be melted and reshaped again.

Fabric layer one or several plies are optional to increase tensile strength and durability.

Fabric be impregnated to enhance overall performance.



TPU (Thermoplastic Polyurethane)



Just like PVC, TPU is also thermoplastic, it can be reshaped after cured.

The extruding manufacturing makes belt with uniformed property.

TPU material has superior wear, oil and bacteria resistance over PU or PVC.

Ideal for food-processing lines.

Light Duty Belt

Comparison - PVC, PU and TPU Belt

Function

Feature	PVC Belt	PU Belt	TPU Belt
Flexibility	Moderate	Good	Excellent
Abrasion Resistance	Moderate	Good	Excellent
Oil & Fat Resistance	Poor to Moderate	Good	Excellent
Temperature Resistance	-10°C to +80°C	-20°C to +80°C	-30°C to +100°C (higher with special grades)
Chemical Resistance	Moderate	Good	Excellent
Moisture Resistance	Good	Excellent	Excellent
Recyclability	Yes	No	Yes
Surface Hygiene	Moderate	Good	Excellent – smooth and easy to clean

Material

Feature	PVC (Polyvinyl Chloride)	PU (Polyurethane)	TPU (Thermoplastic Polyurethane)
Material Type	Thermoplastic	Thermosetting polymer	Thermoplastic
Structure	Multi-layer with fabric reinforcement	Multi-layer, often with fabric reinforcement	Monolithic or fabric-reinforced
Manufacturing Process	Coating or lamination	Casting or coating	Extrusion

Solid Woven Belt

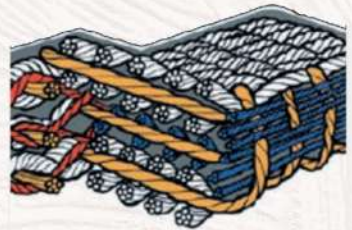
- Solid Single Ply Structure
- PVC/PVG Coating
- Superb Tear & Impact Resistance

Solid Woven Belt

Inner Structure

Interlocked polyester and nylon fiber in multiple directions, formed a dense single layer. No worries for delamination.

This solid structure is highly resistant to moisture and chemical, tear and impact. Ideal for tough



PVC/PVG Coating

The single piece solid woven fiber is fully impregnated with PVC to enhance strength and performance, then be coated with PVC or PVG (nitrile rubber) cover by hot vulcanization.

**Anti-static and fire resistant property can be done for underground mining.*

Crescent Profile

Crescent profile for enhanced grip and inclined transport.



Transmission Belt



- Automotive
- Agriculture
- HAVC Systems
- Domestic Appliances
- Robotic & Automation
- Industrial Manufacturing
- Mining & Construction

Transmission Belt

Classic V Belt

In smoothly wrapped or cogged style. Cogged design improves flexibility, heat dissipation and power transmission.



Poly V Belt

Multiple longitudinal ribs along the inner side of belt is a tighter fit with pulley groove, with less slippage and more efficient power transmission.

Timing Belt (Synchronized Belt)

Tooth profile interlocks with matching groove on pulley. This positive engagement leads to synchronized motion, no slippage and precision high power transmission.



Commonly used in robotics and automation

Transmission Belt

Comparison - Classic V, Poly V, Timing Belt

Basic Characteristics

Aspect	Classic V-Belt	Poly V-Belt (Ribbed Belt)	Timing Belt (Toothed Belt)
Shape	Trapezoidal cross-section	Flat with multiple ribs	Flat with teeth along its length
Material	Rubber with fabric cover	Rubber or polyurethane with ribs	Rubber or polyurethane with embedded cords
Cord	Polyester, aramid, or steel cords	Polyester, aramid, or steel cords	Fiberglass, steel, or aramid cords
Function	Friction-based power transmission	Friction-based but with better grip	Positive engagement with pulleys (sprockets)

Performance

Aspect	Classic V-Belt	Poly V-Belt (Ribbed Belt)	Timing Belt (Toothed Belt)
Transmission Power	Moderate	Higher than classic V-belt	Very high, with precise timing control
Efficiency	Around 93%-95%	Around 95%-97%	Up to 98%
Durability	Good, but may slip over time	Better grip, longer lifespan	Excellent, no slippage, wear depends on tension
Cost	Low to moderate	Moderate to high	High due to precision requirements
Noise Level	Low, but can increase with wear	Lower due to ribbed contact	Very low, silent operation
Maintenance	Requires tension adjustment	Less maintenance due to better grip	Minimal maintenance but sensitive to misalignment
Best Used For	General industrial, automotive, and agricultural applications	High-speed applications, automotive serpentine belts	Precision applications like camshaft drives, robotics, conveyors

Accessories

Roller

Steel or HDPE Roller

Drive/carrying/return/im-
pact/trough type



Impact Bar



UHMWPE Top: low friction & wear resistance

Rubber Core Layer: shock absorb

Aluminum Base: secure installation & stability

Height: 55/75/100mm; Color customizable

With T Bolt to secure the system, standard size: M16x50
Special size M12x40 available



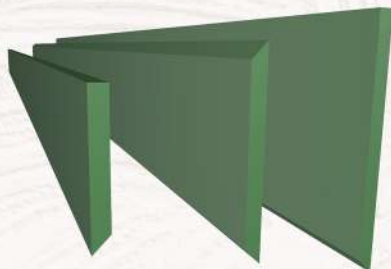
Accessories

Poly Skirt - Standard

Made of high wear resistant polyurethane, the standard skirt can effectively contain material spillage and dust.

**Thickness: 4/10/12/16/19/25mm*

Hardness: 70±5 Shore A



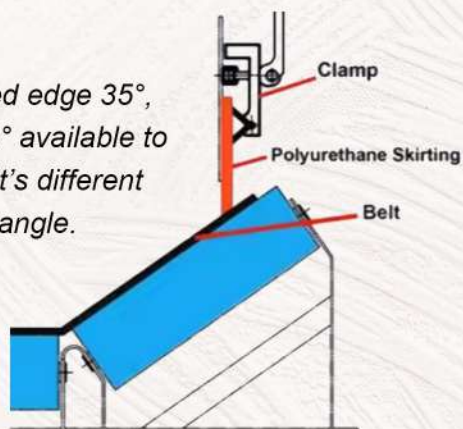
Standard

35°

45°

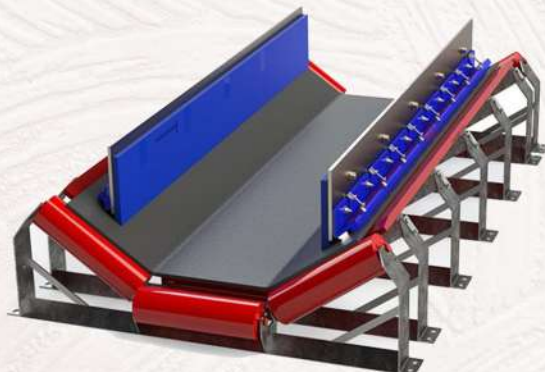
60°

*Bevelled edge 35°,
45°, 60° available to
suit belt's different
trough angle.*



Packed in rolls: standard 15m/roll

**Color customizable*



Accessories

Poly Skirt - Dual Seal

The double seal design provides an extra layer of protection against spillage and dust.

Material: 100% Polyurethane

Hardness: 65±5 Shore A

Height: 120/150/190/250mm



Skirt - Dual Seal

Bevelled edge 35°, 45° available to suit belt's different trough angle.



Rubber+Polyurethane



All Rubber



Easy Install

Optimized Sealing Performance

Ideal for High Abrasive Environment



Accessories

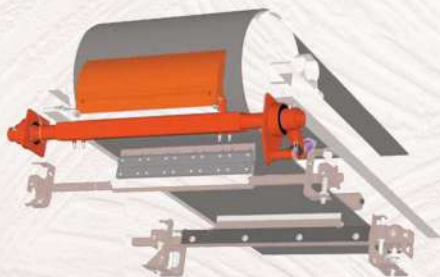
Belt Cleaner Blade

Belt cleaner blade comes in different shapes and sizes to effectively remove residual material on belt return side during primary and secondary cleaning.

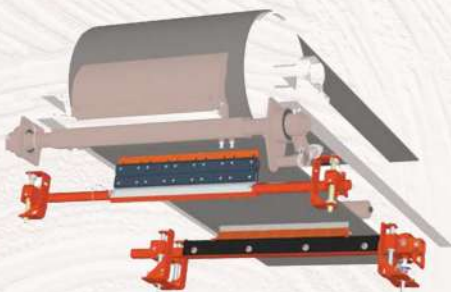


Blade can be non-segmented, a single continuous piece.

Or segmented as multiple independent ones, fixed together through a pole to make a full blade. Easy to replace worn out ones, flexible to whatever length required.



Primary Cleaner



Secondary Cleaner

Accessories

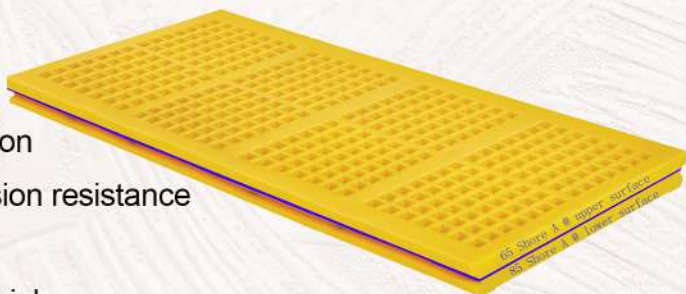


Steel Mesh

- Rigid and strong
- High impact resistance
- High temperature resistance
- Long life span
- Various weave pattern
- Carbon steel or stainless steel
- Corse and sharp material separation

PU Mesh

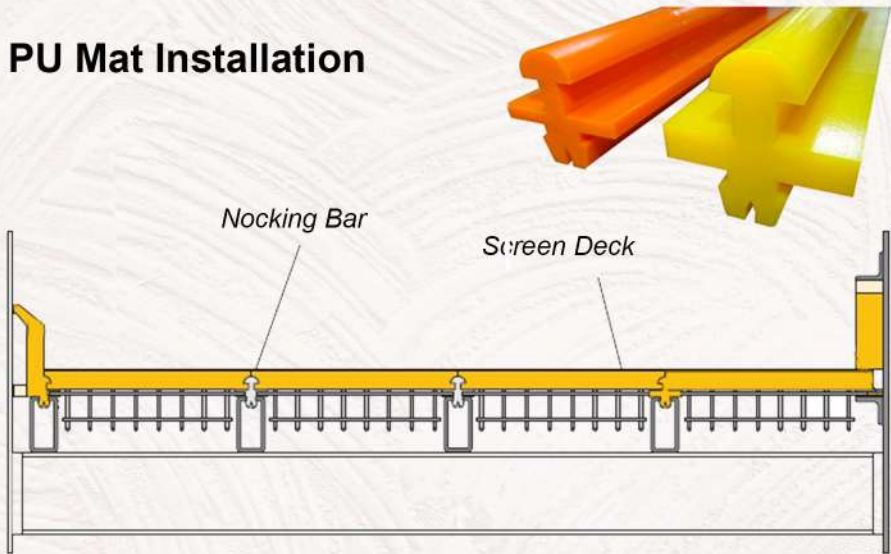
- Light weight
- Easy assembly
- Low noise & vibration
- High wear & corrosion resistance
- Chemical stability
- Polyurethane material
- Ideal for dewatering and separating fine or sticky material



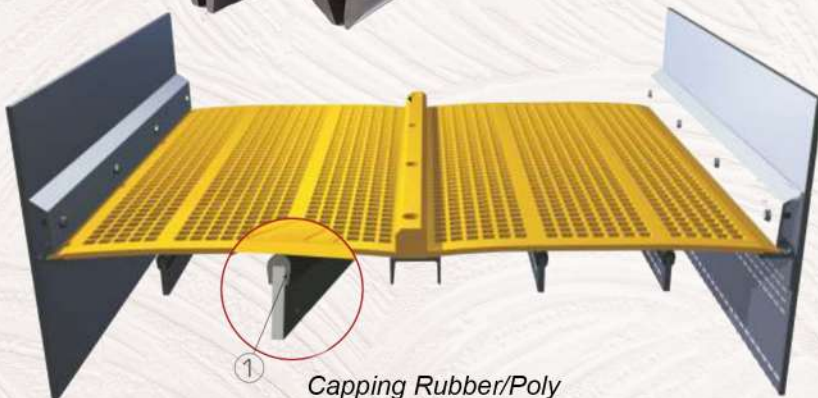
**Single or dual hardness available*

Accessories

PU Mat Installation



EPDM rubber or polyurethane capping to support the mat, absorb shock and impact



Accessories

Pulley Lagging

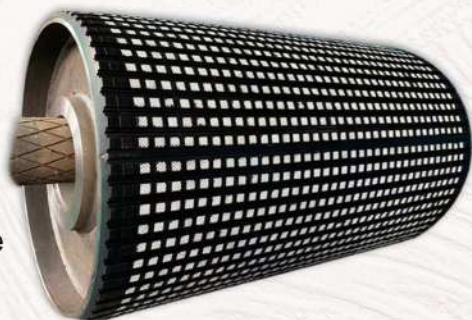


Diamond groove

- Increased grip
- Better water shedding
- Reduce material buildup

Ceramic lagging

- Ceramic tiles
- Superb abrasion resistance
- High temperature resistance



Replaceable lagging

- Easy install & replace
- Bonded to steel plate

Accessories

Natural Rubber Sheet

Application

- Chute Lining
- Pipe Lining
- Hose Lining
- Seal & Gasket



Advantage

- Excellent flexibility
- High resilience
- Protection against tear, abrasion and corrosion
- Biodegradable & eco-friendly

Key Characteristics

Material: Natural Rubber (NR)

Tensile Strength: 20MPa

Hardness: 35+/-5 Shore A

Elongation at Break: 650%

Tear Resistance: 40 N/mm

Abrasion Resistance at 5N: 60 mm³



**Color Customizable*

**Surface: Smooth/Fabric Impression*

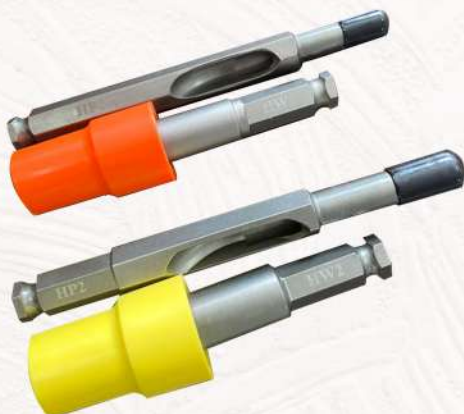


Accessories

Solid Bolt Fastener

Advantage

- Smooth pass over cleaner & pulley
- Strong & durable splice
- Matching power tool
- Quick & easy install



Low profile nuts not interfere with cleaner and pulley.

** Logo & Color: Customizable*

** Fasteners supplied as 25 pcs/box*

Product Size	Belt Thickness (mm)	Min. Pulley Dia. (mm)	KN/M Max.	Installation Tool
140	5-11	360	40	Power Wrench: HW1
190	8-14	460	65	Power Punch: HP1
1-1/2"	11-17	460	50	Power Wrench: HW2
2"	14-21	760	75	Power Punch: HP2

Accessories

Buffing Disk

Advantages

- Excellent rubber surface roughening
- Superior heat dissipation with copper binder
- Easy install on grinder
- Durable



Structure

1. **Grit Layer (Top)**
Tungsten carbide grits perform buffing
2. **Bonding Layer (Middle)**
Copper binder holds the grit firmly
3. **Base Layer (Bottom)**
Steel structural frame supports the whole disk

Sizes



Ø175/22



Ø125/22



Ø125/22

Common Grit Size from coarse to fine: 14-18-23

** Curved design gives more uniform buffing and reduce belt damage risk*

Accessories

Silicone Coated Fiberglass Fabric

Key Characteristics

Material: Fiberglass, Silicone Rubber
Working Temperature: 200°C continuous
Silicone Coating: One Side or Two Sides
Thickness: 1.0 - 4.0mm
Width: 1000-1250mm
Length: 30M/Roll



Application

- Heat insulation protection layer
- Fire proof blanket
- Expansion Joint
- Noise reduction layer



Advantage

- High heat resistant
- Non-inflammability
- Heat & electrical insulation
- Resistant to ozone and UV light
- High flexibility & durability

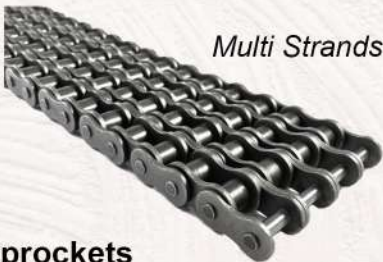


Accessories

Roller Chain and Sprocket

Advantage

- High wear resistant
- High strength for heavy duty application
- Excellent shock & vibration absorption
- Efficient power transmission
- Longer distance conveying
- No Slippage



Multi Strands



*Single Strand
Roller Chain*

Sprockets



A-Plate



B-One Hub



C-Two Hubs



Taper Bushed



QD Bushed

* Stock bore / Finished bore

* Carbon Steel/ Stainless Steel

Accessories

Air Cannon



Functions

- Eliminate material buildup
- Prevent downtime caused by blockage
- Reduce manual cleaning & safety risks
- Improved productivity

Blockage away with blast of air

Capacity: 50L/70L/100L/150L

Cannon tank: Carbon Steel

Internal Piston Type



External Piston Type



Nozzle Temperature: Max. 1250°C

Material: 310S for high temperature

Carbon steel for normal temperature



Nozzle shape: Fan or Flat

Straight or with degree available



An Endless Symphony
To Be Continued

AVANVITA LIMITED

sales@avanvita.com

www.avanvita.com