BUCKET ELEVATOR BELT

Forech's steel cord bucket elevator belts are built for high-lift, heavy-duty applications in industries like cement, mining, and power. Designed for strength, stability, and durability, they handle abrasive, high-capacity materials at great heights. Steel cord reinforcement ensures high tensile strength, low elongation, and reliable performance in demanding vertical material handling environments with minimal maintenance.

PRODUCT RANGE

BELT WIDTH

300mm to 2000mm

BELT STRENGTH

Up to 4000 kN/m

CARCASS CONSTRUCTION

Steel Cord with high bonding rubber

BUCKET HOLE PUNCHING

Customised to your individual requirement

PRODUCT FEATURES

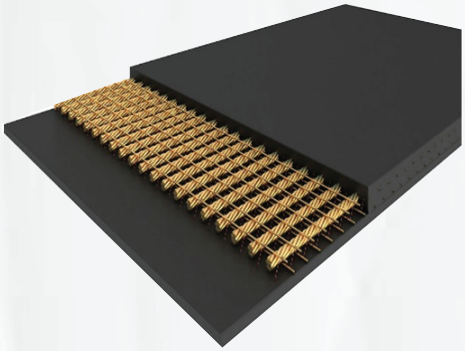
- High Tensile Strength
- Excellent Dimensional Stability
- Superior Bonding Strength
- Abrasion & Impact Resistance
- Custom Bucket Hole Design
- High Temperature Tolerance
- Low Maintenance & Long Service Life
- Anti-static & Fire-resistant Options

APPLICATIONS

- Cement Plants
- Power Plants
- Fertilizer Industry
- Steel Plants
- Chemical Industry
- Grain and Feed Mills

CARCASS CONSTRUCTION

SW TYPE



SW-type Bucket Elevator Belts use woven E-cords—straight warp steel cords with built-in elasticity for shock absorption and dynamic load handling. The warp cords offer tensile strength, while rigid weft cords, precisely tied through specialized weaving, ensure dimensional stability. This construction delivers high impact resistance and load capacity, making SW belts ideal for high-lift vertical conveying in demanding industrial environments like cement, mining, and bulk material handling.

Strength	Belt Construction	Working Temperature
SW630 RE	3+3 mm	Up to 200°C
SW800 RE	4+4 mm	
SW1000 RE	4+4 mm	
SW1250 RE	4+4 mm	
SW1400 RE	4+4 mm	
SW1600 RE	4+4 mm	
SW1800 RE	4+4 mm	
SW2000 RE	4+4 mm	
SW2500 RE	4+4 mm	

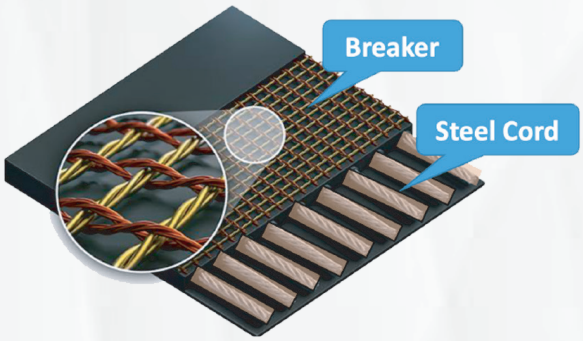
ADVANTAGES OF SW TYPE CONSTRUCTIONS:

- Exceptional Flexibility
- Low Permanent Elongation
- Enhanced Impact Resistance
- Maximum Rubber Penetration
- Corrosion Protection

ST TYPE

The ST Type Bucket Elevator Belt is a premium solution designed for high-capacity vertical conveying of bulk materials under demanding industrial conditions. Reinforced with steel cord (ST) carcass construction, this belt delivers superior tensile strength, enhanced dimensional stability, and extended service life.

This belt is purpose-built to meet the unique mechanical and dynamic requirements of bucket elevator systems, where low elongation, exceptional impact resistance, and precise bucket attachment strength are critical to system performance and safety.



ADVANTAGES OF ST TYPE CONSTRUCTION

- High Tensile Strength
- Extremely Low Elongation
- High Load-Carrying Capacity
- Customizable Design

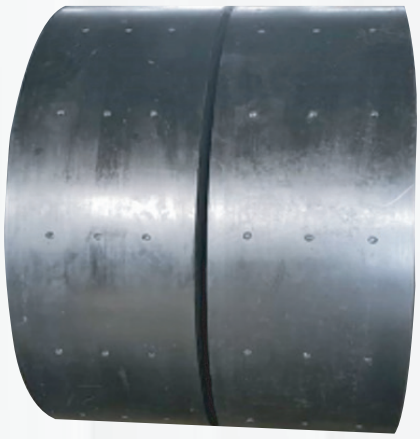
Belt Width	Strength Range	Working Temperature
450~2500mm	ST 500	Up to 200°C
450~2500mm	ST 630	
450~2500mm	ST 710	
450~2500mm	ST 800	
450~2500mm	ST 900	
450~2500mm	ST 1000	
450~2500mm	ST 1120	
450~2500mm	ST 1250	
450~2500mm	ST 1400	
450~2500mm	ST 1600	
450~2500mm	ST 1800	
450~2500mm	ST 2000	
450~2500mm	ST 2240	
450~2500mm	ST 2500	
450~2500mm	ST 2800	
450~2500mm	ST 3150	
450~2500mm	ST 3550	
450~2500mm	ST 4000	

HOLE PUNCHING

We offer an in-house, automated water jet machining system for accurate hole punching in steel cord bucket elevator belts. This process ensures:

- Precise, burr-free holes with no damage to steel cords
- Hole pattern will be customised to exactly match the client or OEM's bucket design
- Non-contact cutting preserves belt integrity and strength
- Faster turnaround with in-house processing
- Improved bucket mounting and longer belt life

Ideal for high-performance and reliable bucket elevator applications.

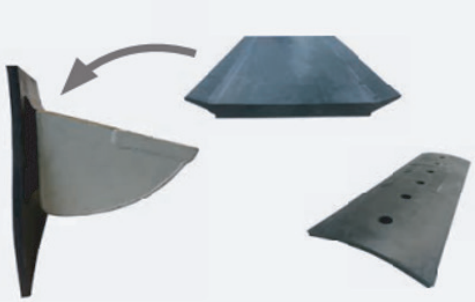


RUBBER INSULATION PADS

During operation, heavy elevator buckets exert continuous abrasive forces on the belt surface, leading to potential wear and tear. To mitigate this grinding effect and extend belt life, rubber insulation pads are installed between the elevator belt and the buckets.
These pads are:

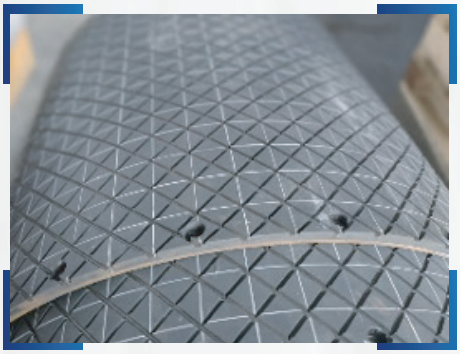
- Custom-designed to match the belt dimensions
- Factory-fitted with pre-punched holes, precisely aligned with the belt's bolt pattern
- Manufactured from high-durability rubber to absorb impact and reduce surface abrasion

This added layer of protection ensures enhanced performance and long-term reliability in demanding vertical conveying applications.



CROWNING OF PULLEYS (FRICTION LINERS)

In steel cord bucket elevator systems, maintaining effective traction between the belt and drive pulley is critical for reliable performance, especially under heavy loads and vertical lifting conditions.
To ensure consistent grip and efficient power transmission, the drive pulley is:



- **Crowned -** A slightly convex shape that helps center the belt and improve contact pressure along the pulley surface.
- **Lined with high-friction material -** Enhancing grip between the pulley and the belt, reducing slippage even under high tension.

BELT FASTENERS FOR STEEL CORD REINFORCED ELEVATOR BELTS

Steel cord reinforced elevator belts are engineered for high-performance applications involving vertical lifting of bulk materials under significant mechanical stress. To complement the strength and durability of such belts, equally robust and precise fastening systems are critical.

Our steel cord belt fasteners are specially designed to deliver reliable, high-tension splicing without compromising belt integrity. These fasteners ensure:

- **High Clamping Strength**
- **Load Distribution**
- **Corrosion Resistance**
- **Easy Installation & Maintenance**
- **Bucket Compatibility**

These fasteners are a critical component in ensuring the long-term performance, safety, and service life of steel cord bucket elevator belts operating in demanding material handling systems such as in cement, mining, steel, and power industries.