

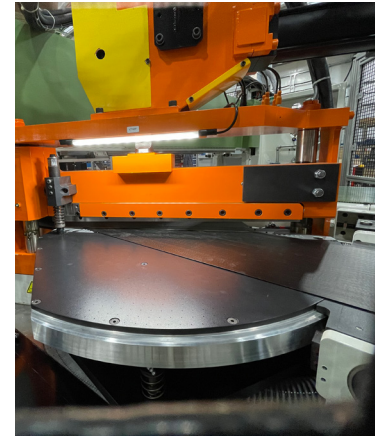
# Next Generation Extruded Steel Belt System



## A Proven Process for Producing Premium Quality Steel Belt/Breaker for PCR, LT & TBR Tires.

Steelastic continues pushing tire component manufacturing technology forward! Our wide range of machinery options enable tire manufacturers to keep pace with modern market demands for increased manufacturing flexibility, premium quality and lower capital outlay.

- **Highly Automated:** Closed loop control reduces operator dependence and maximizes quality.
- **Fast Changeovers:** Increased efficiency & multi-SKU capability.
- **Fully Traceable:** Advanced measurement systems & MES connectivity
- **Reduced Operating Costs:** Lower scrap, utility usage & labor costs.



The latest Steelastic extruded belt systems make it possible to produce passenger car radial, light truck, and truck bus radial tires without expensive and inflexible calendering and off-line processing equipment. Closed-loop automation minimizes operator involvement through the use of the very latest measurement technologies.

3D cameras, laser inspection and closed loop control algorithms automatically locate and rapidly correct imperfections to keep the steel belt / breaker in specification. The result is a reliable, quality product backed with full tracability. Changeovers take minutes versus the extended outages required with calendering equipment.

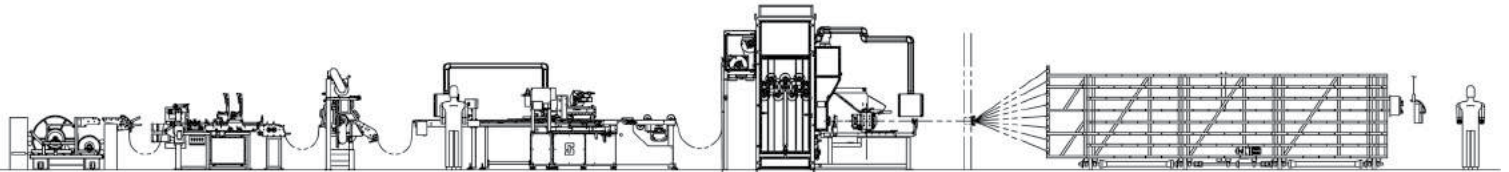
- Specifically designed for modern PCR, LT & TBR applications
- Minimizes capital investment, with high efficiency & quality
- Ultra-fast changeovers with automatic knife angle adjustment and quick change die tooling
- Single operator operation





## STEELASTIC® Next Generation Extruded Steel Belt System

- Reduced footprint with parallel flow design
- Closed-loop automation locates and corrects imperfections fast
- Capacity: up to 4,500 tires per day
- Extrusion-based process ensures no possibility of crossed wires
- Precise width, gauge and edge straightness
- Precision splice and belt angle
- Shortest compound heat history
- Precise cord placement
- Ideal for greenfield applications, factory expansions, increasing flexibility, and calender replacements



## Specifications

<b>Typical System Footprint:</b>	4 m x 28 m [13' x 90']
<b>Steel Cord Gauge:</b>	0.02"-0.078" (0.5mm-1.83mm)
<b>Extruded Strip Gauge:</b>	0.03"-0.079" (0.75mm-2.0mm)
<b>Extruded Strip Width:</b>	1-.0" (254mm)
<b>Angle Range:</b>	18 to 90 degrees
<b>Finished Belt Width:</b>	4"-20" (101.6mm-508.0mm)
<b>Extruder Size:</b>	4.5" (120mm) or 6.0" (150mm) pin or smooth barrel
<b>Line Speed Example:</b>	14" (355mm) belt @ 26 Degrees – 39,757 ft/day (12,118 m/day)

(\*Extruder size depends on strip width, belt gauge and overall production needs.)

## Customization and Options

- Creels with varying complexity of tension control
- Creel loaders
- Feed conveyors and metal detectors
- Gear pumps
- Smooth & pin barrel extruders
- Hydraulic E-dies
- Strip gauge inspection systems
- Extrusion thermal inspection systems
- Automatic brushing systems
- Slitting systems
- Hot and cold gum edging systems
- Wind-up systems
- Data acquisition systems

(\*Global Patent Apply)