

Think Small.

Tire manufacturers are building smaller more flexible plants. Our "Think Small" R&D program is developing tire component machines to lead the way:

- Faster.
- More flexible.
- More efficient.
- Highly automated.
- Smaller footprint.

Steelastic is enabling modern tire makers to "go small."

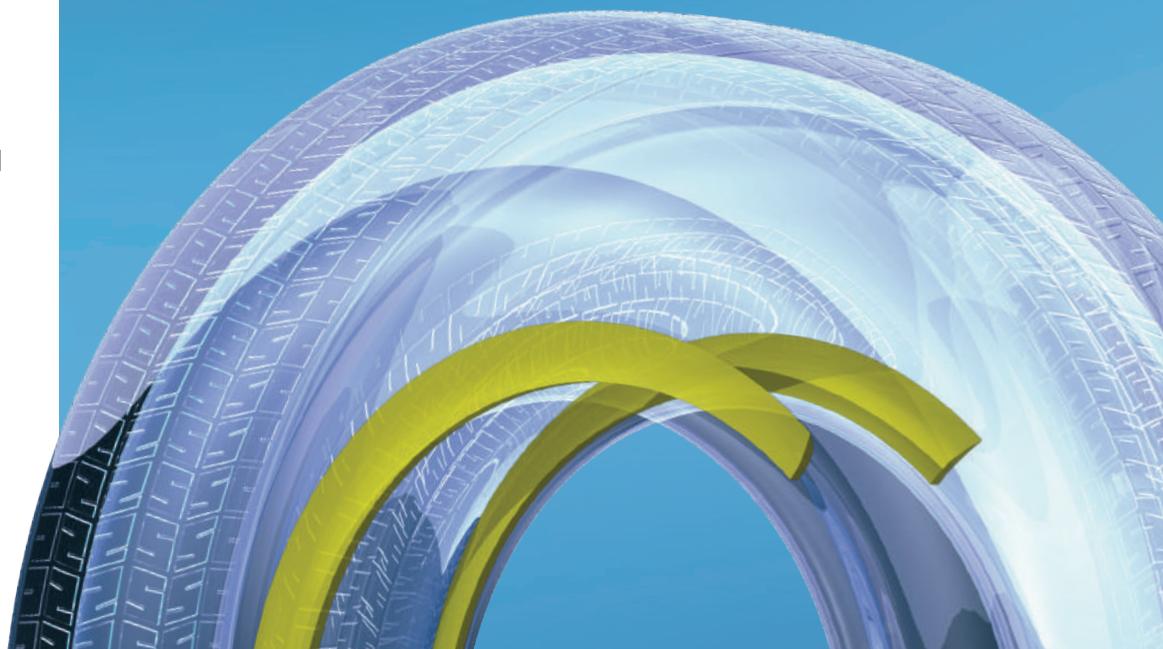
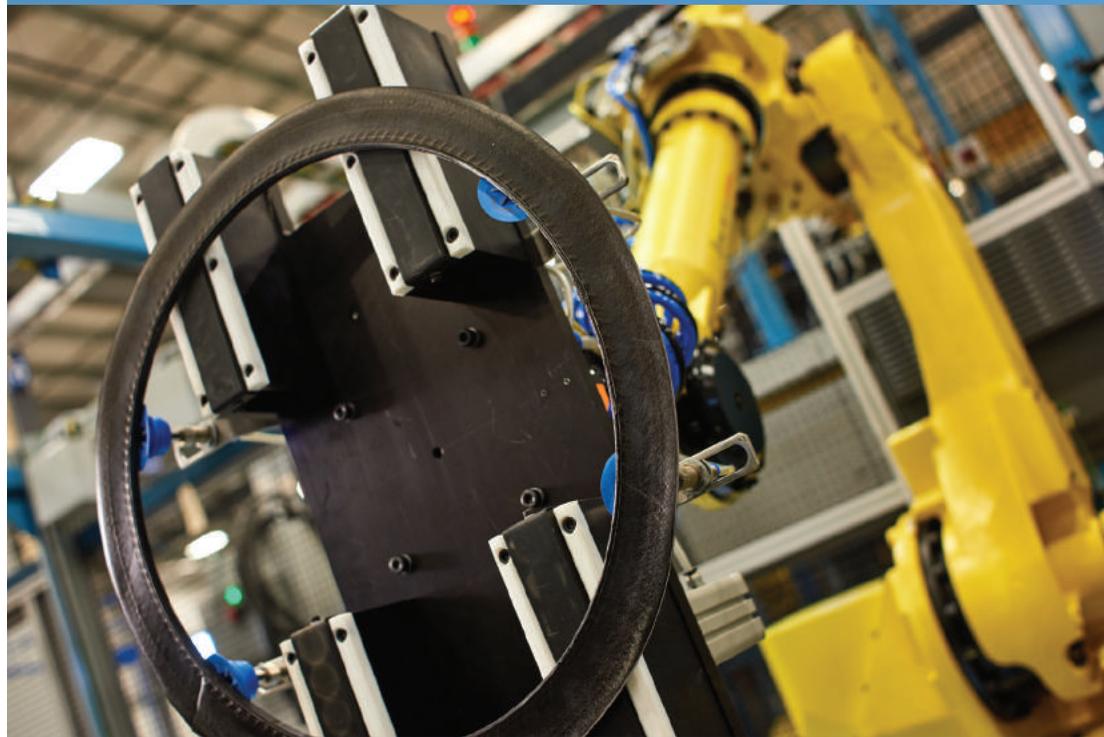
The fastest and most efficient method to apex tire beads also allows the highest degree of flexibility and customization to match your tire building process. As the pioneer of automated apexing systems Steelastic remains committed to delivering quality machinery to meet your most demanding production requirements.

- Single system capacity of up to 9,000 beads per day
- Double sided stitching gives the most effective apex to bead application available
- Industry best changeover times achieved by no tools approach
- Loading System: Carousel type, 60 to 80 beads per arm with automatic bead separation
- Product stacking configured to your TBM needs
 - Servo gantry
 - Single robot
 - Automated cart handling
 - Flat, conical, curved, or other complex geometry spacers
- Flexibility to any of your requirements
 - Single wire, ribbon, or wrapped beads of any geometry
 - Straight or angle apex
 - Soft to hard compounds
 - 8mm to 75mm apex heights
- 360 Degree Bead Apex Inspection
 - Splice Inspection (detection of all splice deviations specified by the industry)
 - Apex Inspection (detection of imperfections on both sides of the Apex)
 - Bead Inspection (detection of loose wires and badly stacked bead layers)
 - Bead/Apex adhesion quality and consistency
- Data acquisition and interface with plant's MRP system

STEELASTIC®

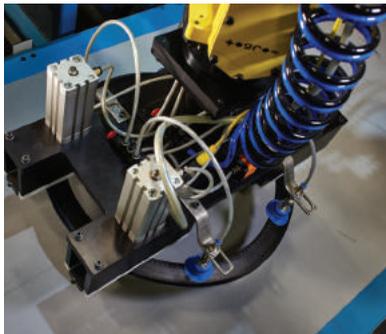
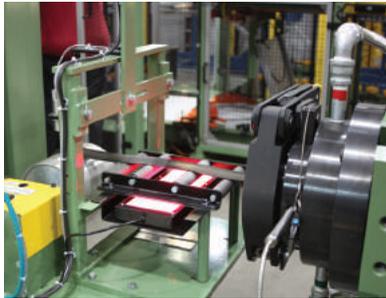
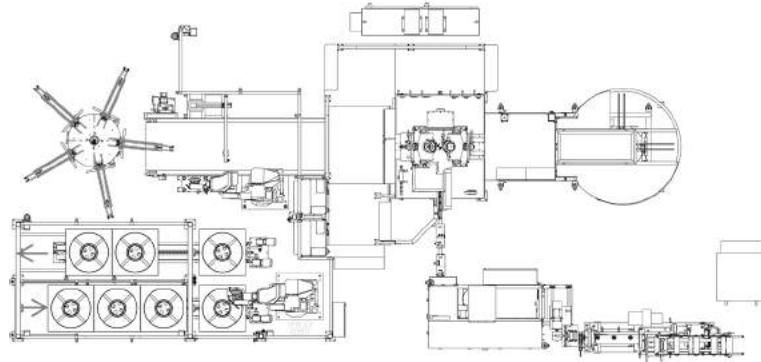
AUTOMATIC APEXING SYSTEM

Fast • Flexible • Efficient • Automated • Traceable





AUTOMATIC APEXING SYSTEM



SPECIFICATIONS

- Nominal Bead Range:** 12 inch to 24 inch
- Apex Base Width:** 4mm to 12mm
- Apex Height:** 8mm to 75mm
- Apex Shape:** Vertical or angled to 20°
- Extruder Size:** 3.5 inch (90mm) smooth barrel

Product Cycle Time (typical):

Seconds		Apex Height (mm)					
		≤50	55	60	65	70	75
Bead Diameter (in.)	≤15	8.0	8.0	8.5	9.0	9.5	10.0
	16	8.0	8.5	9.0	9.5	10.0	10.5
	17	8.5	9.0	9.5	10.0	10.5	11.0
	18	9.0	9.5	10.0	10.5	11.0	11.5
	19	9.5	10.0	10.5	11.0	11.5	12.0
	20	10.0	10.5	11.0	11.5	12.0	12.5
	21	10.5	11.0	11.5	12.0	12.5	13.0
	22	11.0	11.5	12.0	12.5	13.0	13.5
	23	11.5	12.0	12.5	13.0	13.5	14.0
	24	12.0	12.5	13.0	13.5	14.0	14.5

CUSTOMIZATIONS & OPTIONS

- Overall system layout is highly flexible and configurable
- Automatic splice and weight inspection systems
- Manual to fully automatic unloading systems
- Method and apparatus covered under U.S. Patents #5,989,374 and #5,735,995
- Other U.S. and foreign patents pending