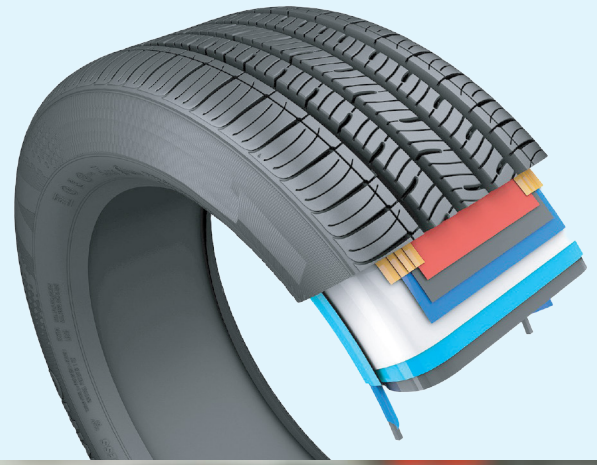


360° Bead Apex Inspection System



Small Investments. Big Paybacks.

Steelastic continues pushing tire component manufacturing technology forward! Our wide range of upgrade options enable your current in-service equipment to keep pace with advancing demands of quick turn, small scale manufacturing cells.

- **Improve Automation:** Cutting labor costs.
- **Speed Changeovers:** Adding manufacturing flexibility.
- **Improve Quality:** Document accuracy for OEMs during the build process.
- **Cut Costs:** Reduced scrap-out costs on Bead/Apex assemblies and finished tires saves money.
- **Build Productivity:** Run faster with less downtime.

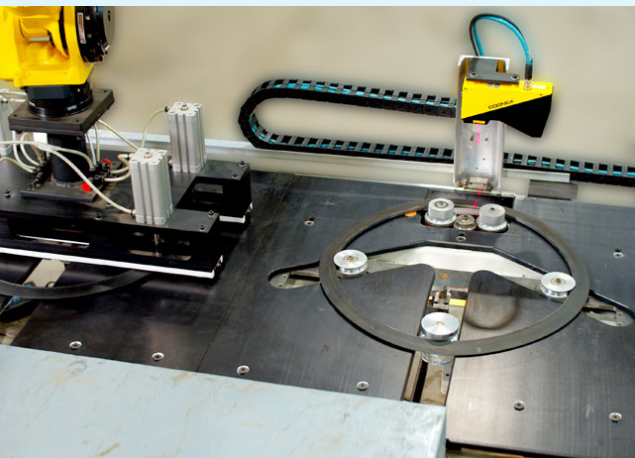


The 360 Bead Apex Inspection System uses dual-sided laser vision technology to identify and report defective apexed beads in real-time during production. This revolutionary system frees workers from visual inspections and assures that defective apexed beads never make it to the tire building process. Steelastic is committed to delivering the best quality system upgrades to meet the tire building industry and vehicle OEMs most demanding production and quality requirements.

- 100% product inspection
- Closed loop system available when used with automated bead apexing unit
- Used inline or stand-alone with new or existing bead apex machines
- Can be adapted to operate with any make of machinery
- SQLite data logging

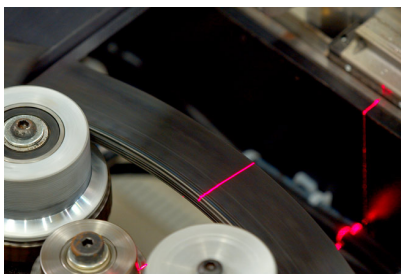
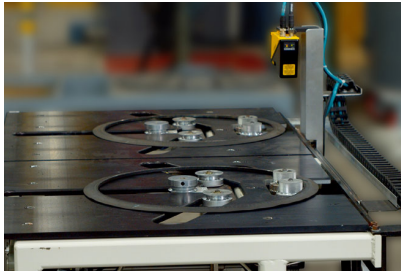
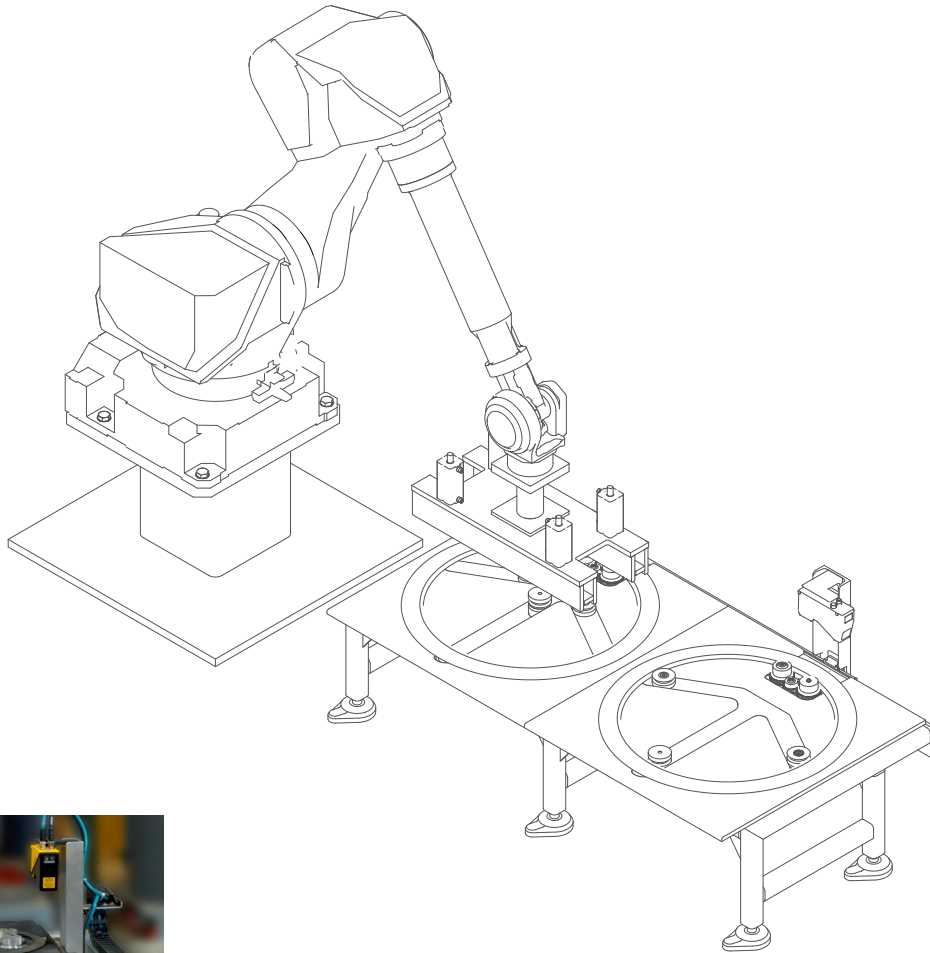
360° Bead Apex Inspection System Detects Inferior Quality:

- Bare Bead
- Splice Overlap
- Splice Bulge
- Bead Integrity
- Apex Height Variance
- Heavy Stitch
- Foreign Object
- Open Splice
- Open Stitch
- Dogear





360° Bead Apex Inspection System



Specifications:

Bead Diameter Range:	12-24"
Bead Width Range:	4-13mm
Bead Height Range:	4-13mm
Apex Height Range:	5-70mm
Apex Width Range:	4-13mm
Bead Scan Time:	8.0 seconds
Beads/Day (90% efficiency):	9500 beads

Camera Resolution:

Z-Axis:	0.025mm
X-Axis:	0.100mm
Y-Axis:	0.300mm

Measurement Accuracy:

Dogear:	± 0.200mm
Splice Height:	± 0.125mm
Thickness:	± 0.150mm
Splice Overlap:	± 0.200mm
Splice Angle Variation:	± 0.5°
Height Average:	± 0.200mm