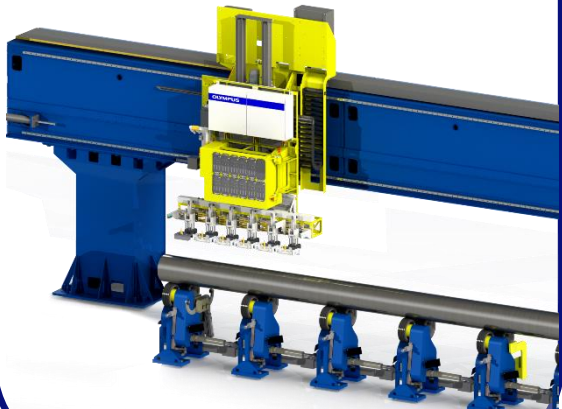


# Automated Systems

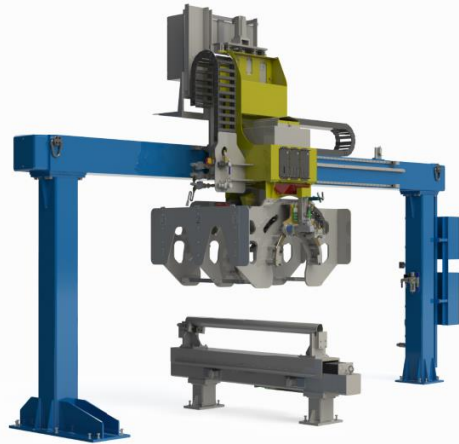
**Rotating Tube Inspection System**



**Electric Resistance Welded or Seamless Pipes (PA)**

Full Body  
Volume  
Subsurface  
End of tube

**Tube Inspection System In-Line**



**Electric Resistance Welded Pipes (PA)**

Weld  
Heat Affected Zone (HAZ)

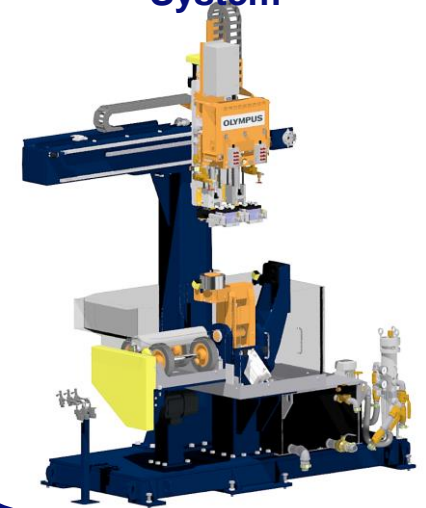
**Tube Inspection System Off-Line**



**Electric Resistance Welded Pipes (PA)**

Weld  
Heat Affected Zone (HAZ)

**End-of-Tube Inspection System**

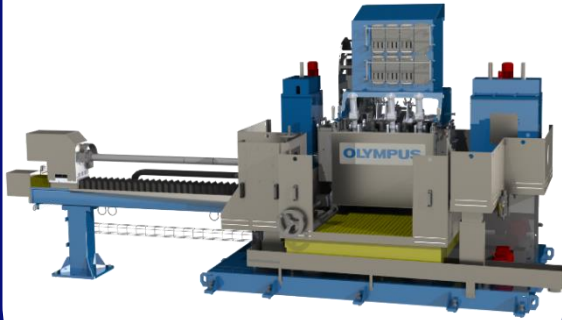


**Electric Resistance Welded or Seamless Pipes (PA)**

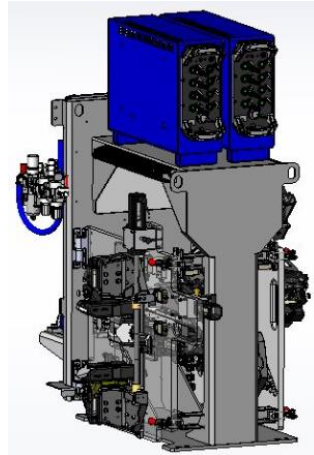
Volume  
Subsurface  
End of Tube (volume)

# Automated Systems

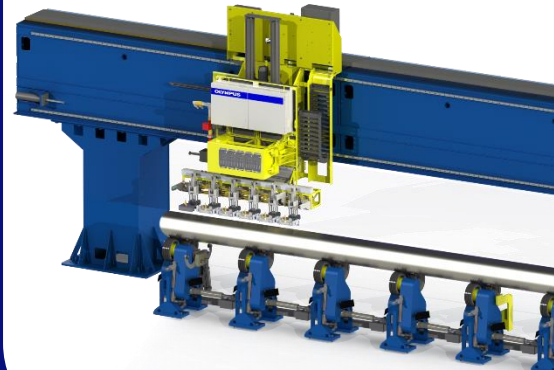
**Bar Inspection System**



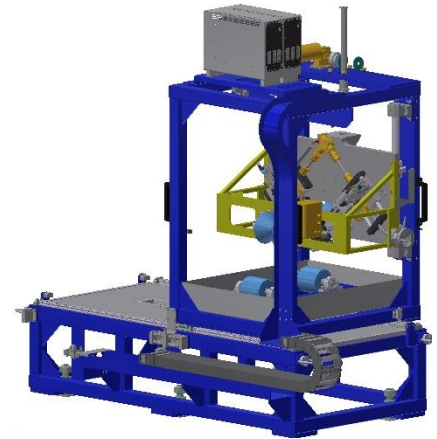
**Bar Inspection System**



**Rotating Billet Inspection System**



**Billet (cast) Inspection System**



**Round or Square bars (PA)**

Volume  
Subsurface

**Round or Square bars (ECA)**

Surface  
Corner

**Round Billets (PA)**

Volume  
Subsurface  
Surface

**Square Billet (PA)**

Volume

# Automated Systems

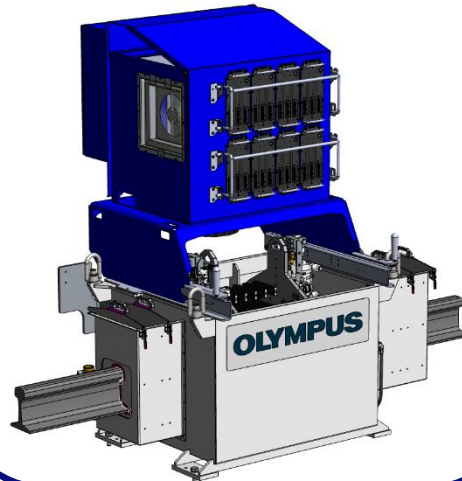
Rectangular bar  
Inspection System



Rectangular Bar (PA)

Volume  
Subsurface

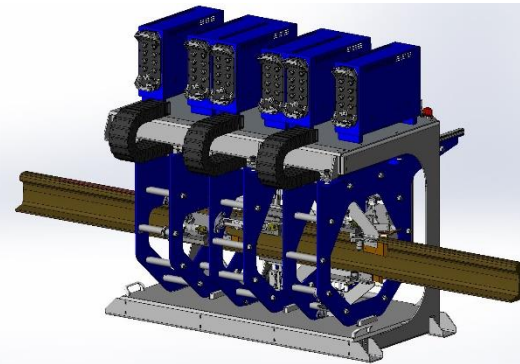
Rail Inspection  
System



Railway Rail (PA)

Volume

Rail Inspection  
System



Railway Rail (ECA)

Surface

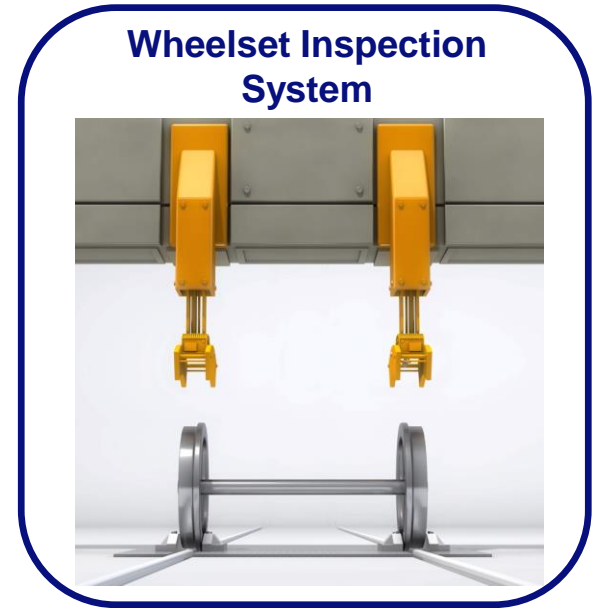
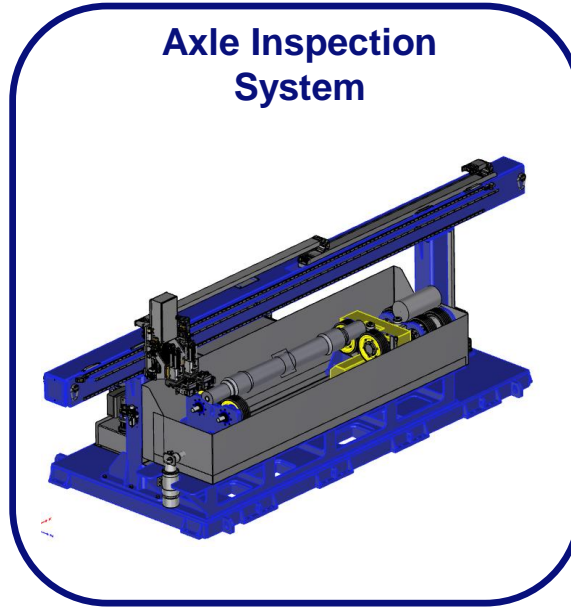
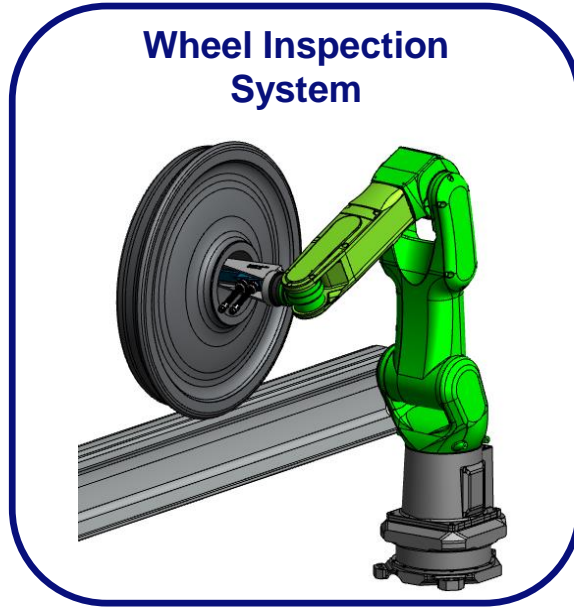
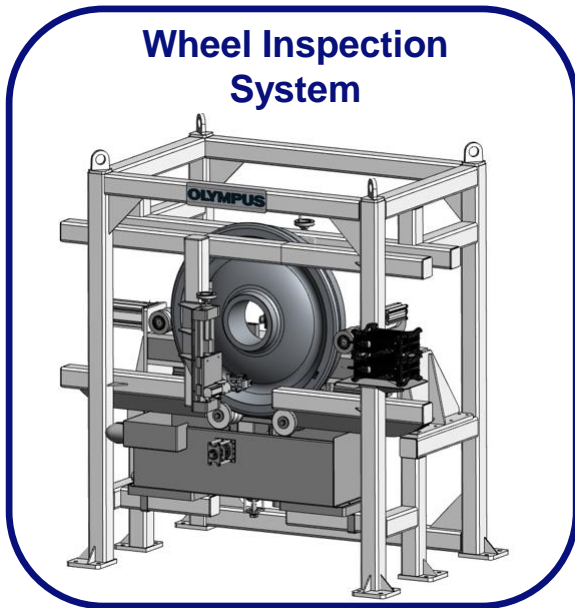
Wind Blade  
Inspection System



Wind Blade (PA)

Spar volume  
Gluing

# Automated Systems



**Railway Wheel (PA)**

Volume  
Rim and hub

**Railway Wheel (ECA)**

Surface  
Bore hole

**Railway Axle (PA-ECA)**

Volume  
Surface

**Railway Wheel (PA)**

Volume  
Thread, rim, hub, and flange