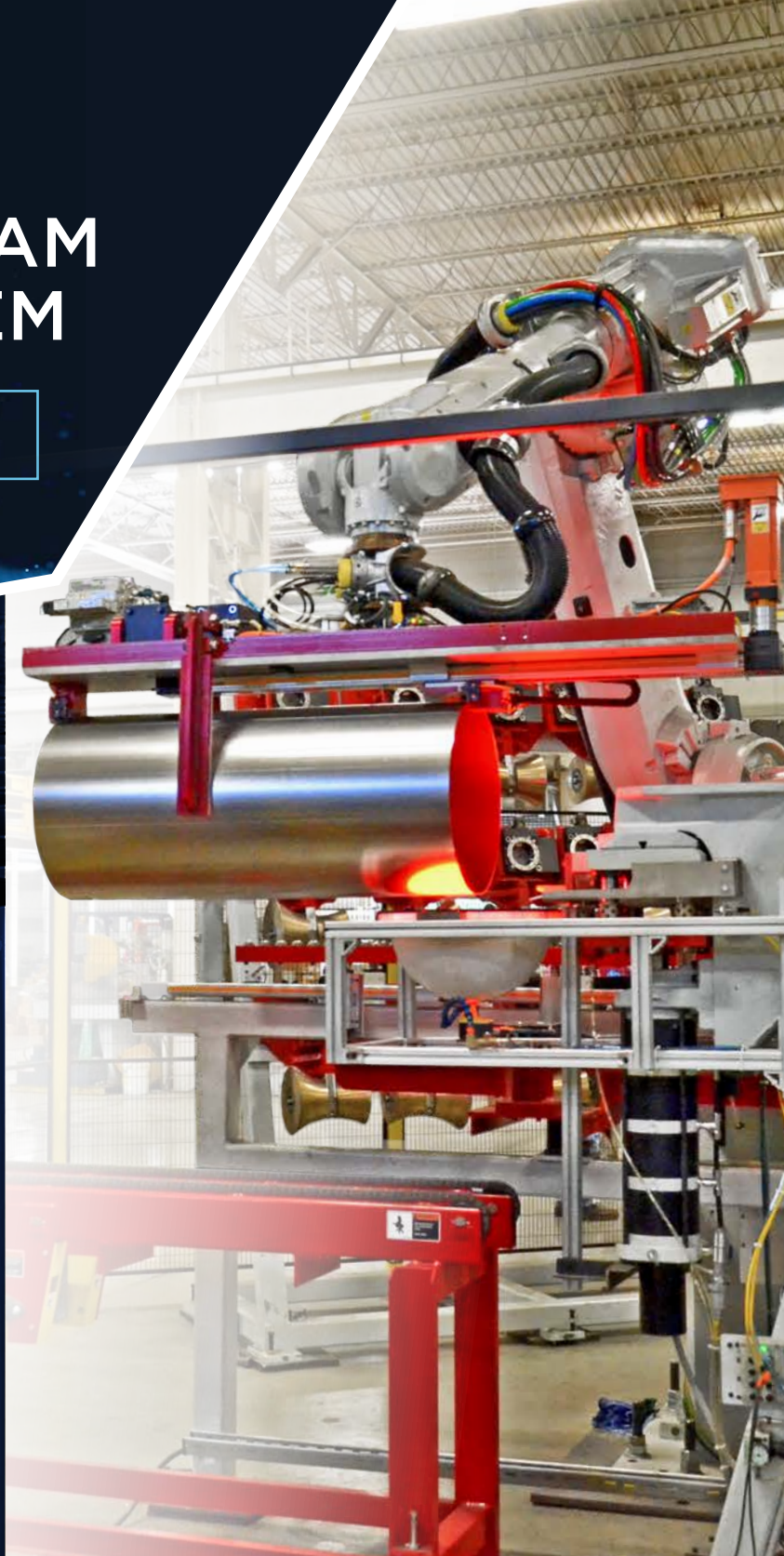




AUTOMATED CYLINDRICAL SEAM WELDING SYSTEM

FOR JOINING FERROUS AND
NONFERROUS MATERIALS

- CONTINUOUS PRODUCTION RESULTS IN ACCELERATED THROUGHPUT AND LESS DOWNTIME
- MINIMIZES PART-TO-PART CHANGEOVER TIME BY COMPLETELY AUTOMATING THE CHANGEOVER SEQUENCE
- ENSURES CONSISTENT, REPEATABLE WELD QUALITY REDUCING WASTE
- INDUSTRY 4.0 MACHINE CAPABILITIES WITH FEEDBACK MONITORING AND PART TRACKING
- DECREASES OPERATIONAL COSTS THROUGH MINIMAL OPERATOR INTERFACE
- POKA-YOKE FOR INCOMING PART VARIATION IN WIDTH / LENGTH



Taylor-Winfield Technologies has developed a patented breakthrough design in long tank seam welding. This system is specifically designed for joining predetermined cylindrical shapes formed from flat sheet material. Technologies used to produce a seam weld can include:

- **Induction Forging**
- **Resistance Welding**
- **MIG**
- **TIG**



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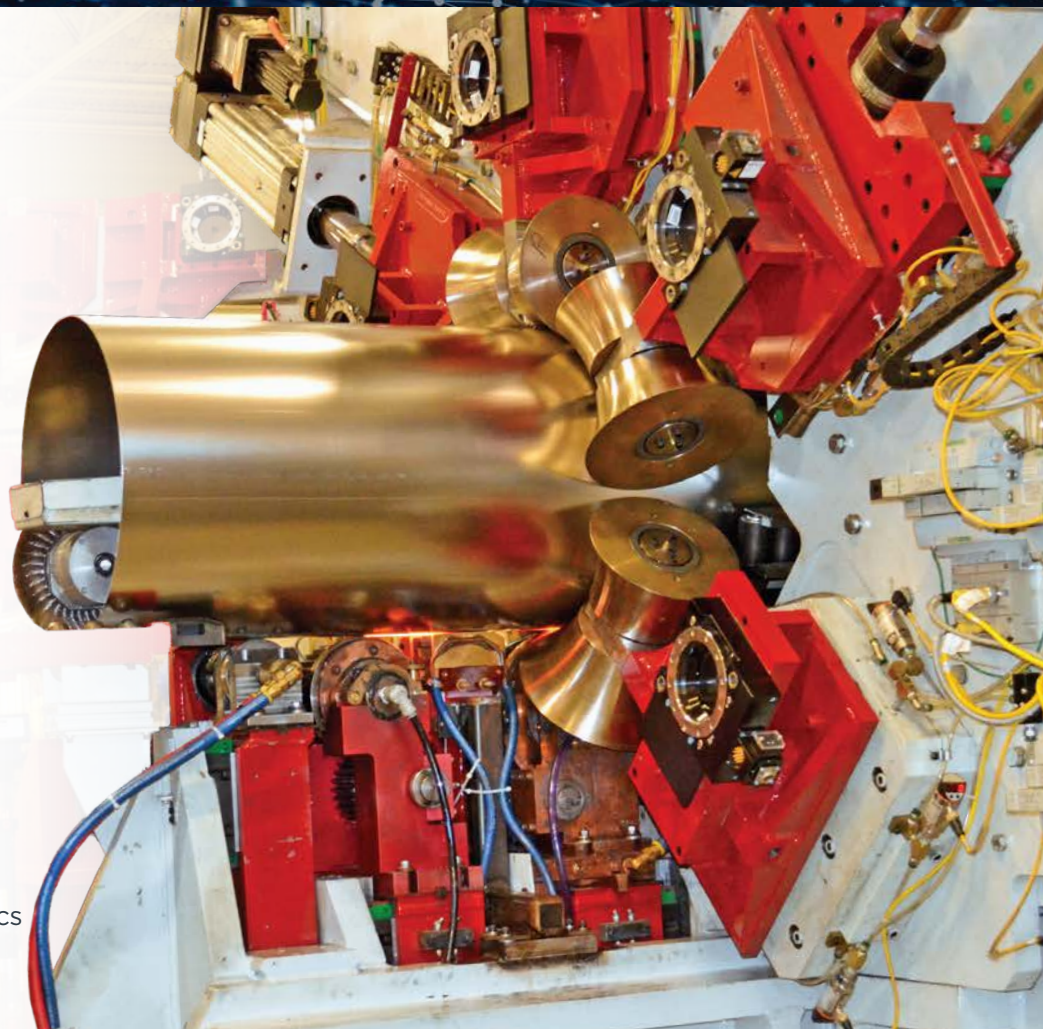
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Material Specifications:

- Part Diameter Welding Range: 16 - 20"
- Part Gauge Range: .052 - .077"
- Part Length Range: 20 - 80"

Automated Features:

- Part Diameter Change Over
- Part-to-Part Machine Set-Up and Adjustment
- Weld Parameter Storage & Retrieval
- Part Positioning and Sequencing Through System
- System Monitoring, Fault Identification & Feedback
- HMI Operator Interface & Process Sequence Control
- Servo Controlled Diameter Adjustment & Control
- Remote System Monitoring & Diagnostics
- Robotic Load & Unload (Optional)



Other Features:

- Welding Speeds in Excess of 325" Per Minute Capable
- 15-20 Second Part-to-Part Cycle Time Production Rate Capable
- ≤5 minute Part Diameter Change Over Time with Robotic Assistance
- 10 - 15% or Less Weld Overthickness
- Automatic Adjustment of Weld Seam Overlap (Patented Automatic "Z" Bar Overlap Control)
- Robust Frame With Minimal Deflection
- Integration with Can Diameter Rolling System
- Compliant with All ANSI B11 and ISO 12100 Safety Standards

