

The logo icon for CenterPoint features a blue cloud shape containing two interlocking gears and a bar chart with three vertical bars of increasing height. A curved arrow originates from the left side of the cloud and points towards the right, ending at a small blue dot above the letter 't' in 'Point'.

CenterPoint™

Operational Intelligence to empower your business decisions

centerline®
CENTERED ON SOLUTIONS

MANUFACTURING PAIN POINTS

Still managing your operations with **paper reports**? Production managers **walking the floor** searching for issues, relying on operators to know how your equipment is operating? When planning production, **are you confident** in your subassembly part counts? **Struggling** to target and measure the effects of your continuous improvement initiatives?

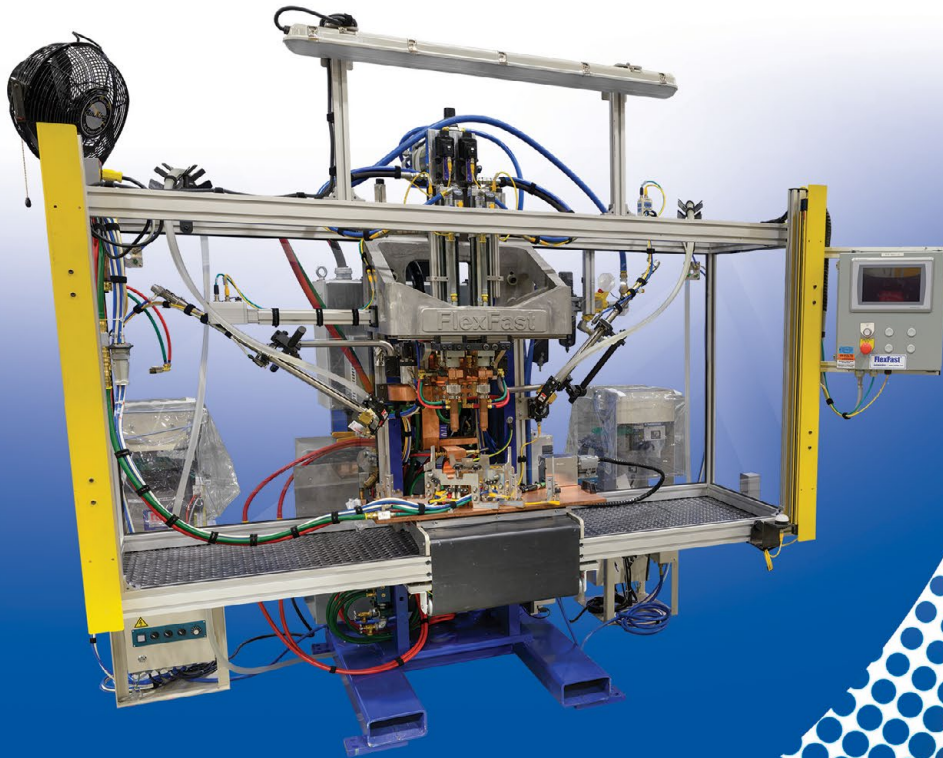
Dreaming of having an affordable, real-time production monitoring system with detailed monthly reports?

Value

- CenterPoint™ provides real-time machine status through intuitive, customizable dashboards, notifications, and reports supporting paper-free solutions.
- Your machine will notify you when there is a problem. CenterPoint™ sends alerts to your team members when negative trends begin, which will aid in minimizing the impact of production and process issues.
- CenterPoint™ tracks your part counts from your machine. Production reports include part counts, scrap counts and downtime summaries to use as stand-alone, or can supplement your legacy systems to maintain accurate inventory levels.
- Historical production data is available to measure continuous improvement activities and make informed business decisions.
- CenterPoint™ is an IIOT solution ready to report your machine performance out of the box. There is no server required, no IT or controls support, and no ongoing maintenance cost.

CenterPoint™ will provide you with the data you need to drive efficiency in your processes. Many production and maintenance systems are not successful due to the effort required by team members. **CenterPoint™ is different.** It uses alerts to point out the problems so you can put your effort where it matters.

FlexFast™ Welder



Access on the CenterLine Portal

- CenterPoint™ Access
 - Dashboards
 - Connected machine interface
 - Historical graphical data representation
 - Production reports
 - Equipment documentation



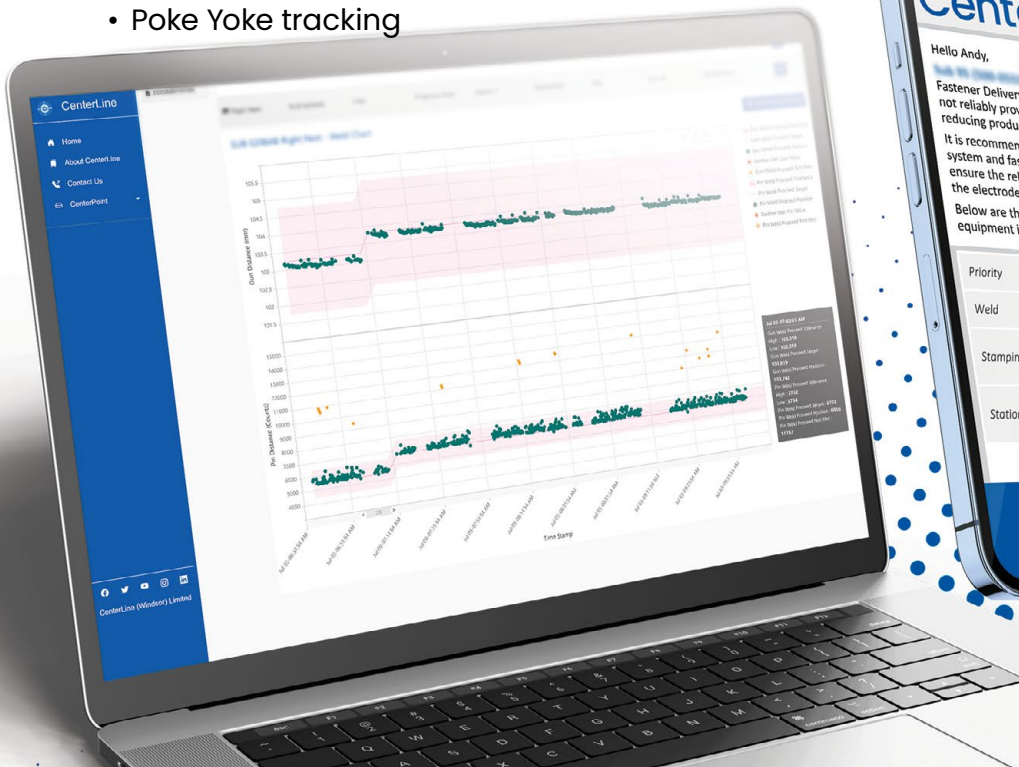
Operations Monitoring

- Manage by exception
 - KPI dashboards
 - production alerting
- Reporting
 - replace manual shift reports
 - provide historical comparisons of operating data
- Operator/Machine differentiation
 - downtime categorization and reporting
 - scrap reporting
 - cycle time analysis
- Total machine utilization statistics



Process Monitoring

- Graphical representation of process data
- Predictive Maintenance recommendations reducing disruptions
- Diagnostics alerting reducing troubleshooting time
- Wear monitoring of consumable components
- Poke Yoke tracking

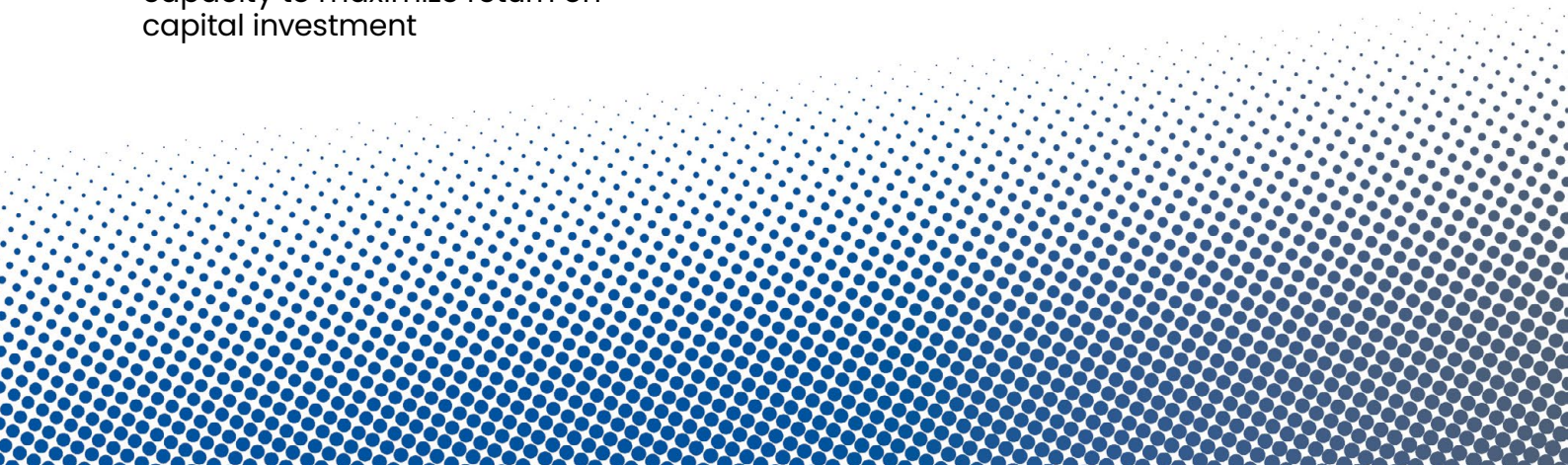


Operational Benefits

General Manager

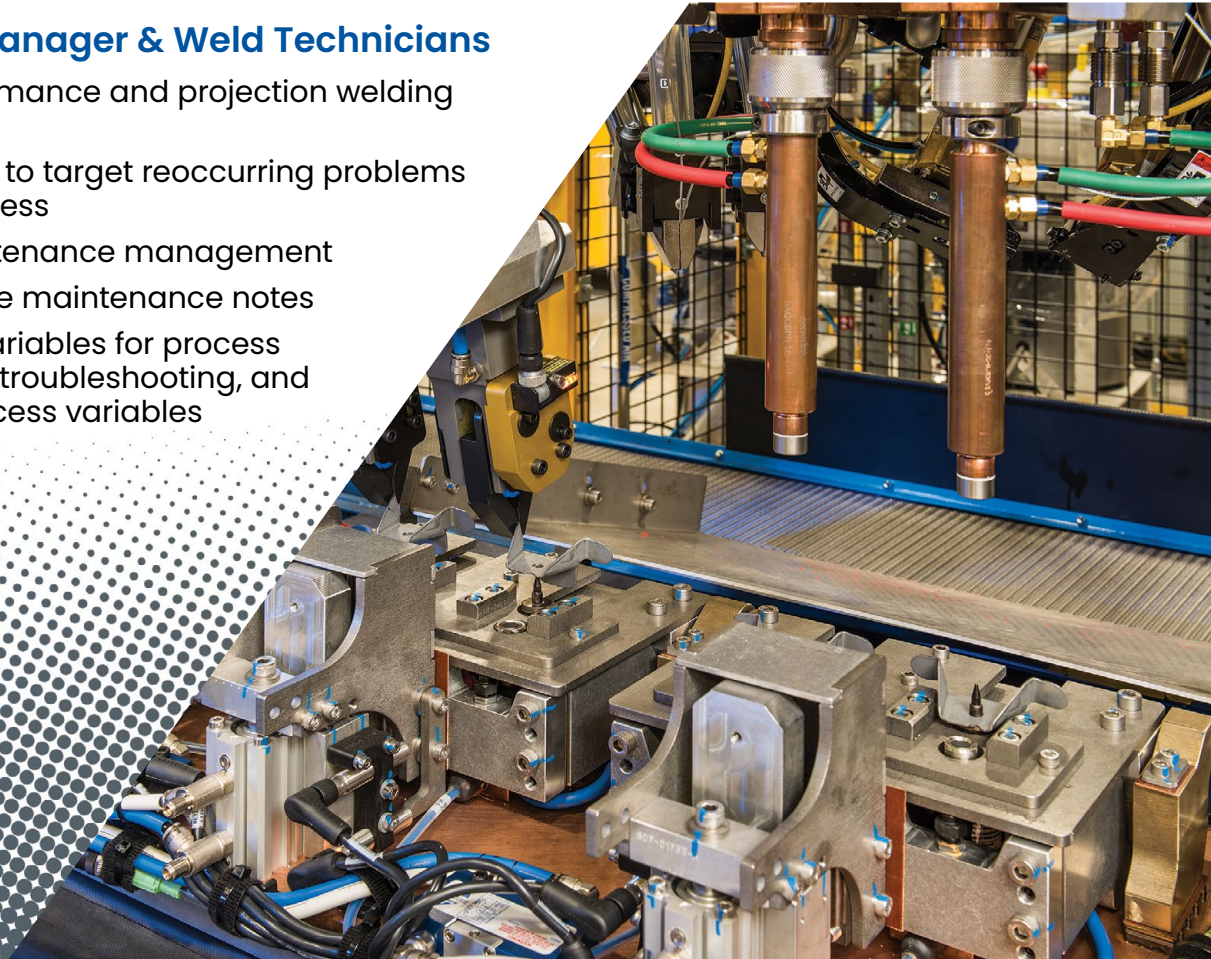
- Production dashboard to monitor machine and operator performance
- Alerts when machines are not meeting production targets
- Daily, weekly and monthly historical performance reporting to measure continuous improvements
- Provides the information you need to improve operator utilization
- Machine utilization, identifying available capacity to maximize return on capital investment

Production Manager

- Production dashboard and alerts to manage production targets
 - Automated shift reporting with accurate part counts
 - Daily, weekly and monthly historical performance reporting to target continuous improvement initiatives
 - Historical alerts to target reoccurring problems and track progress
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Maintenance Manager & Weld Technicians

- Machine performance and projection welding process alerts
- Historical alerts to target reoccurring problems and track progress
- Electrode maintenance management
- Record machine maintenance notes
- User-defined variables for process improvements, troubleshooting, and monitoring process variables



System Architecture

- **Microsoft Azure Hosted:** Our services are hosted on the reliable and secure Microsoft Azure platform ensuring optimal performance and scalability for your business needs.
- **ISO 27001 Certification:** We are proud to announce that we are actively working towards obtaining ISO 27001 certification in 2024. This internationally recognized standard for information security management systems demonstrates our commitment to safeguarding your valuable data and ensuring the highest levels of security across our operations.
- **Isolated OT and IT Networks:** Our system maintains strict separation between operational technology (OT) and information technology (IT) networks, minimizing the risk of unauthorized access and ensuring the integrity and availability of your critical assets.
- **Uni-Directional Data Transfer (EDGE to Cloud only):** To enhance data security, we implement a uni-directional data transfer approach, allowing data to flow securely from the edge to the cloud environment. This ensures that your sensitive information remains protected and inaccessible from external threats.
- **Customized Metadata for Machine Applications:** We tailor the meta data within our system to the specific requirements of your machine applications, ensuring seamless integration and optimized performance for your unique needs.
- **Encoded Packaging of Data to the Cloud:** Your data is securely encoded during the packaging process, adding an extra layer of protection during transit and storage in the cloud. This ensures confidentiality and prevents unauthorized access to your sensitive information.
- **No IT Support Required:** Our user-friendly system is designed to minimize complexity and eliminate the need for dedicated IT support. You can focus on your core business activities while relying on our platform's ease of use and reliability.
- **Ethernet TCP Communication:** We employ Ethernet TCP communication protocols to facilitate seamless and efficient data exchange, eliminating the need for PLC licensing. This ensures smooth integration with your existing infrastructure and reduces costs associated with proprietary licenses.

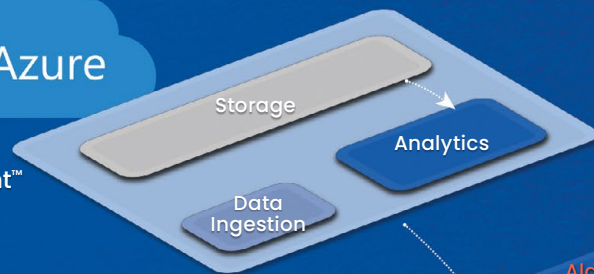


By transitioning our certification focus from SOC 2 to ISO 27001, we are committed to providing you with the highest level of security, reliability, and global recognition. Stay tuned for more updates as we progress on our journey towards ISO 27001 certification in 2024.

CenterPoint™
Edge



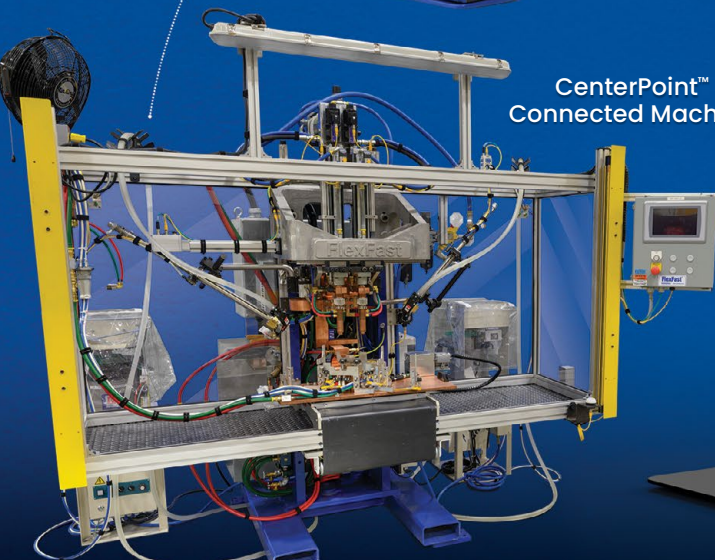
CenterPoint™
Cloud



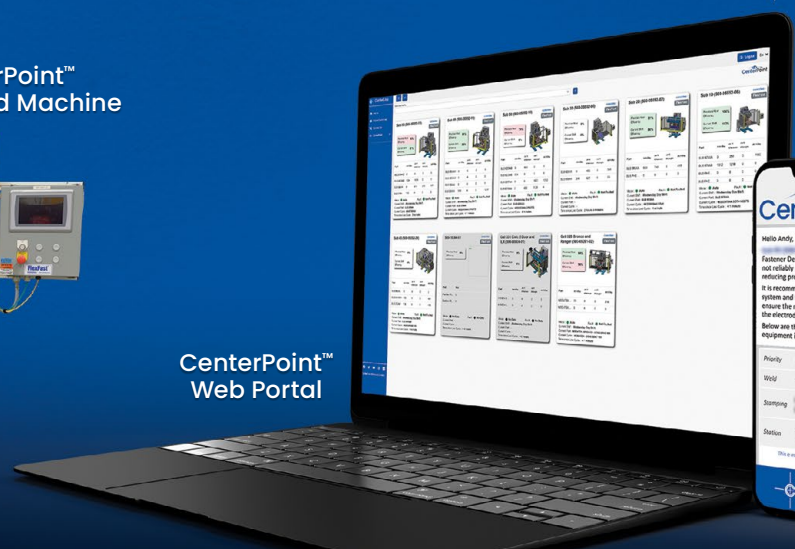
Alarm
Notification

Reporting &
Visualization

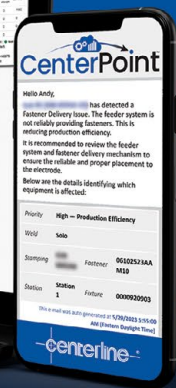
CenterPoint™
Connected Machine



CenterPoint™
Web Portal



Client
Email



Service Offerings

- Six-month historical process information available on demand to predict support requirements
- Long-term data storage/retrieval of historical process information available
- Periodic machine health assessment
- Machine operator & maintenance training
- Projection welding process support and training
- CenterLine's field service expertise for process knowledge
- Supplemental resources to support your team
 - Service Technician
 - PLC Programmers
 - Weld Engineers
 - Process Engineers
 - Tooling and Equipment Designers



Documentation



Process Flows



User & Maintenance Manuals



Machine & Fixture Prints



Consumables & Spare Parts Lists

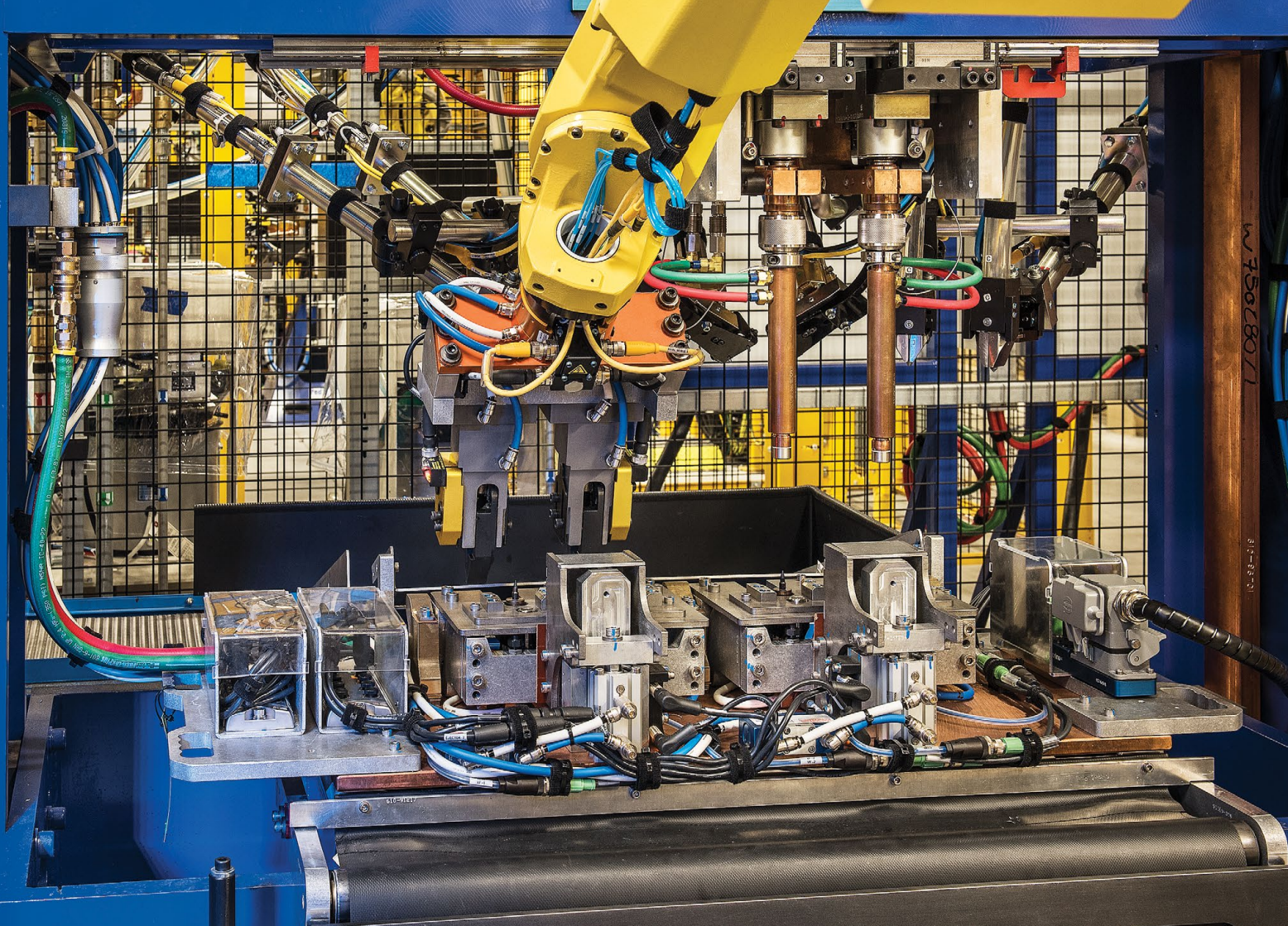
Customer Testimonial



When CenterPoint™ was installed on our FlexFast™ machines, we immediately received production and process information on the CenterPoint™ web page. Manual reporting and tracking of machine production rates and part counts were replaced and are now available on the portal with historical data we were missing to make process improvements and track the results. We receive alerts whenever the machine or process is not meeting our targets. In the last six months we have seen a 7% increase in operator utilization, and we save over \$500/week in labour, while recording and analyzing production information. CenterPoint™ implementation did not require a server, PLC programming or IT support.



Operations Manager
Automotive Tier 1 Supplier



CenterLine (Windsor) Limited

CENTERED ON SOLUTIONS

www.cntrline.com



Platinum member

Contact Us



415 Morton Dr.
Windsor, ON
N9J 3T8



Telephone
+1 519-734-8464



E-mail
info@cntrline.com