

centerline®

centered on solutions



## Centered on Solutions

In today's business environment it is imperative that you thrive and remain as competitive as possible. As a leading provider of advanced production technologies and processes, CenterLine is ideally suited to helping you maintain your competitive advantage so you can grow and strengthen your business.

CenterLine has been in existence since 1957. Through its years of experience it is intimately familiar with metal joining and coating processes and provides unfailing service and technical support. From day-to-day consumables to fully automated advanced automation equipment, CenterLine can satisfy your requirements.

## CenterLine is:

- ▶ a modern, vertically integrated company that supplies an extensive range of products and services to OEMs and Tier suppliers operating in the automotive, mass transit, aerospace and defense industries.
- ▶ a leader in welding and metal processing solutions with particular expertise in resistance welding, arc welding and cold spray metal coating applications.
- ▶ an established, international organization with the experience and capabilities needed to satisfy virtually any metal based part production and assembly requirement.

Collectively, CenterLine's operations provide a single source of supply for "tips to turnkey" products and services ranging from cold-formed cap electrodes all the way to complete production systems. For many leading OEMs, Tier part suppliers and system integrators, CenterLine is a recognized valued partner that is truly CENTERED ON SOLUTIONS.



## Quick Facts

- ▶ Privately held corporation headquartered in Windsor, Ontario, Canada.
- ▶ Eight (8) manufacturing sites and four (4) sales and technical support offices.
- ▶ Operations located in Canada, USA, Mexico, Brazil, Germany, India, China and Romania.
- ▶ Over 380,000 sq ft. (35,300 m<sup>2</sup>) of manufacturing space.
- ▶ Financially stable with a strong level of re-investment in plants and equipment to maintain modern and competitive production facilities.
- ▶ Highly skilled and experienced engineering, sales, project management, process development and technical support staff.
- ▶ Active product development and numerous patented products and processes enable CenterLine to remain at the forefront of welding and coating technologies.
- ▶ ISO 9001:2008 certified.



## Primary Technical Competencies

<b>Resistance Welding</b>	spot, projection, and seam welding; hot upsetting.
<b>Arc Welding and Cutting</b>	GMAW, FCAW, GTAW, plasma welding and cutting.
<b>Cold Spray Coatings</b>	corrosion protection, surface restoration, electrically conductive layers and wear abatement.
<b>Piercing, Forming &amp; Joining</b>	staking, fastener installation, hole piercing and shearing, custom tube forming and end preparation, swaging.
<b>Mechanical Assembly</b>	riveting, threaded fastener installation and bushing insertion.
<b>Laser Welding and Cutting</b>	turnkey systems for tube and hot stamped parts.
<b>Sealing Systems</b>	adhesives and foam-in-place gasket installation.





## CenterLine Group of Companies



### Manufacturing Locations

Name	Location	Products	Facility Size Sq. Ft. (m <sup>2</sup> )
Machinery Division	Windsor, Ontario, Canada	Custom automated assembly systems (resistance, GMAW & laser welding, metal forming) and related machinery integration components (tooling, fixtures, end effectors, rotary tables, gauging).	230,000 (21,370)
Electrodes Division		Standard and custom electrodes, caps, nut & stud welding systems and related welding consumables.	35,000 (3,250)
Automation Components Division		Resistance welding guns, actuators, metalworking press and cylinder packages, nut detection systems.	54,000 (5,020)
Supersonic Spray Technologies Inc.		Cold Spray metal coating equipment and supplies.	(located within Automation Components Division)
CenterLine De Mexico	Queretaro, Qro, Mexico	Stationary welders, welding guns, consumable electrodes, tooling and fixtures.	21,800 (2,025)
CenterLine-Seubert GmbH	Breidenbach, Germany	Stationary welders, welding guns, actuators.	16,000 (1,490)
CenterLine Brazil Solda e Automação Ltda.	Guaramirim, SC Brazil	Stationary welders, welding guns, consumable electrodes, tooling and fixtures.	18,500 (1,720)
CenterLine India PVT Ltd.	New Delhi, India	Welding guns/spare parts, stationary welding machines & electrode consumables.	8,800 (820)
CenterLine Welding Technologies (Guangzhou) Co., Ltd.	Guangzhou, China	Welding guns and spare parts.	53,820 (5,000)

### Sales and Service Offices

Name	Location	Description
CenterLine Welding Products	Troy, Michigan, USA	US sales office for CenterLine Products and services, Commodity Management.
CenterLine SE USA Office	Hoover, Alabama, USA	Southern US sales and service office for CenterLine standard products.
CenterLine (Romania) Limited	Brasov, Romania	Engineering support centre.
CenterLine De Mexico	Hermosillo, Mexico	Western Mexico sales office for CenterLine Products and services, Commodity Management.

## Key Services

To effectively support operations and ensure our customers remain successful, CenterLine supplies a number of key services, including:

- ▶ Full Project Management Assistance
- ▶ Process, Prototype and Part Development (full metallurgical and welding lab facility)
- ▶ Welding Process Development/Verification
- ▶ Design and Engineering Support (all major CAD platforms)
- ▶ Installation and Start-up Assistance
- ▶ Machinery and Process Control Programming Support
- ▶ Preventative and Emergency Maintenance Support
- ▶ Equipment Wellness Audits
- ▶ Weld and Process Training (in-house and onsite)
- ▶ Rebuild and/or Re-use Assistance (to refurbish and redeploy existing equipment)
- ▶ Sales and Commodity Management Support



## Connecting Needs With Capabilities

With numerous patented products and proven material joining and coating expertise, CenterLine offers an extensive range of standard products as well as custom solutions.

<b>Consumable Welding Products</b>	Caps, Adapters, Nut Weld Electrodes, Multiple Bent Holders, Cold-formed Electrodes, Shunts.
<b>Nut Weld Detection Systems</b>	Smart Electrode™, VeriFast™, CenterLine Pin Return (PR) Unit.
<b>Cylinders/Actuators</b>	OHMA® Weld Cylinders, STAAC® Air Cylinders, CenterLine Servo Actuators, OHMA® Piercing Cylinders, and OHMA® Presses.
<b>Resistance Welding Guns</b>	FlexGun™ Standard, FlexGun™ RA Series, VOLTZA® Transguns, Customer Specified Welding Guns, Weld Gun Accessories.
<b>Standard Turnkey Products</b>	FlexFast™ and FlexFast™ Lite Pedestal Welders, RevTec™ Servo Index Table, SeamTec™ seam welders, CenterLine Quick-Change Tooling.
<b>Cold Spray Systems</b>	SST™ Series P, SST™ Series EP, UltiLife™ and UltiFlow™ nozzles, SST™ Feedstock Powders.
<b>Custom Turnkey Products</b>	End Effectors, Tooling Carts, Box Frame Tooling, Clamp and Geo Fixtures.



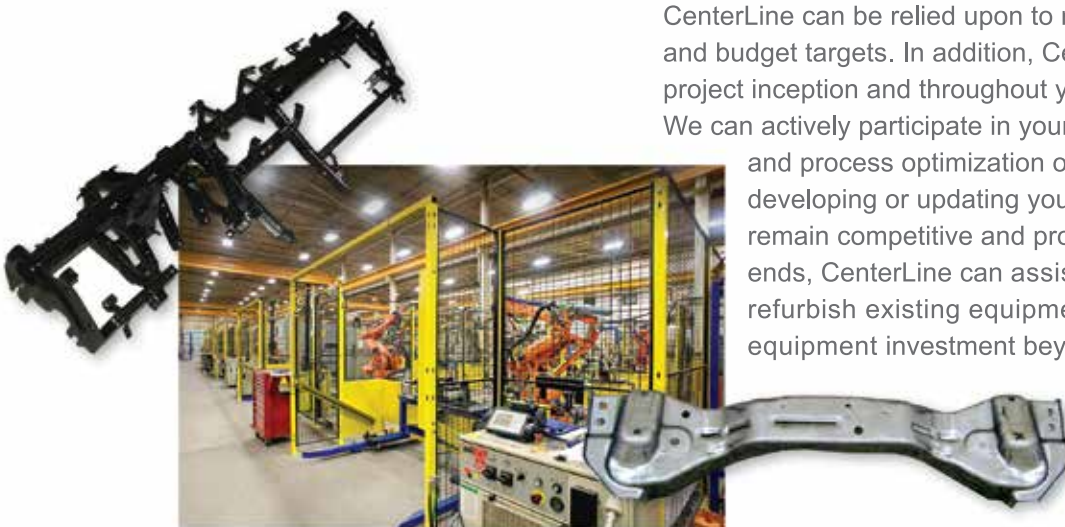
## Machinery Integration

Utilizing its many brand products, custom build capabilities and strong relationships with leading industry suppliers, CenterLine designs and builds highly efficient and robust custom machinery systems that satisfy the most stringent quality and production requirements. We have extensive experience with components such as:

- ▶ Automotive Underbody Components (e.g., rails, wheel housings, floorpans, crossmembers)
- ▶ Instrument Panel Reinforcements
- ▶ Seats: backs, tracks, risers, floor latches, drive components
- ▶ Door Components (e.g., inner reinforcements, window guides, hinges, intrusion beams)
- ▶ Fuel Filler Assemblies
- ▶ Tow Hitch Assemblies
- ▶ Suspension Components (e.g., control arms, torsion bars, vibration dampers)
- ▶ Bumper Reinforcements / Mounts
- ▶ Trim and Body Components
- ▶ Engine Cradles

From single-station manual load machinery to fully automated turnkey assembly systems, CenterLine has the organizational depth and experience to satisfy any established standard and project need. With its unique ability to leverage the design and build capacities of its entire organization, CenterLine can be relied upon to meet your project timeline and budget targets. In addition, CenterLine supports you from project inception and throughout your production life cycle.

We can actively participate in your continuous improvement and process optimization objectives, as well as assist in developing or updating your standards to ensure you remain competitive and profitable. Once your program ends, CenterLine can assist you to recycle and refurbish existing equipment in order to extend your equipment investment beyond a single program lifecycle.





## The CenterLine Commitment - Uncompromised Standards

Today's leading OEMs and Tier 1 companies understand that they need to be where their markets are. More importantly, they recognize that establishing reliable and consistent manufacturing practices across all of their operations allows them to effectively control costs. These same practices also provide the operational agility to take full advantage of emerging business opportunities inherent to rapidly changing market demands.

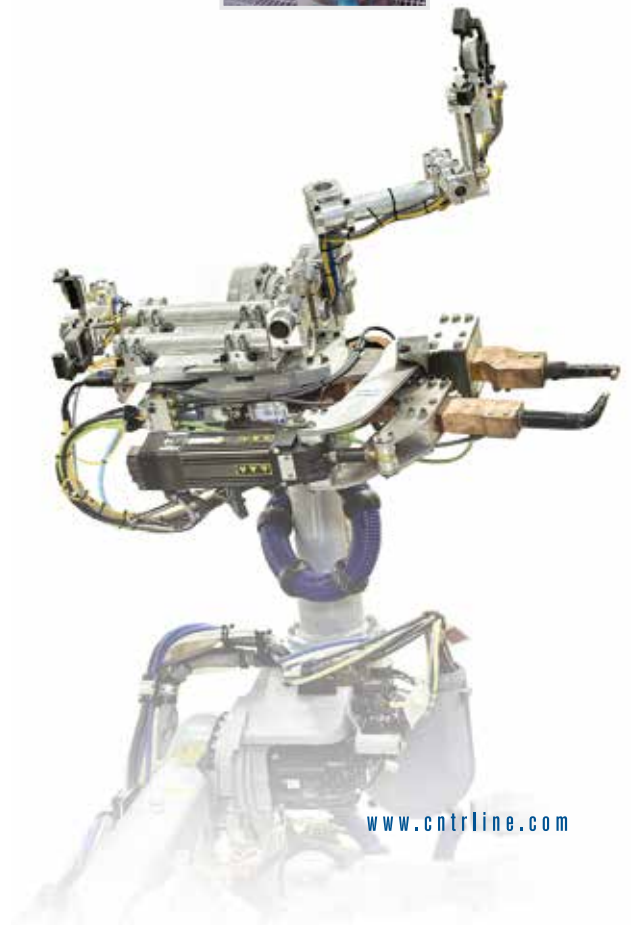
A critical factor to a company's ongoing success is partnering with suppliers that can satisfy uncompromising equipment and process standards and also support multiple operations. With CenterLine you have a partner that does just that, from start to finish every time. Through its various international locations you can rely on CenterLine, wherever you may need to be. No other resistance welding based company offers the depth of product, engineering and service support.

CenterLine's culture and processes are heavily focused on continuous improvement; it's an environment where both successes and failures continually drive offerings. Understanding what customers need to succeed, along with years of practical experience, provides CenterLine with the know-how to effectively deal with universal industry challenges that are encountered every day. Since a segment of its business involves integrating and servicing directly manufactured components, CenterLine has a unique perspective that other suppliers may not. As well, through its strong affiliations with key industry associations, CenterLine remains active in the development and implementation of industry standards and best practices so it can provide the highest value to our customers.

Contact CenterLine today to discuss your upcoming projects or current challenges and to learn how you can attain the success you demand and deserve.

Go online to find out more about CenterLine's products, services and organization at [www.cntrline.com](http://www.cntrline.com).

Also visit [www.supersonicspray.com](http://www.supersonicspray.com) to discover how Cold Spray metal coating technology can benefit your operations.





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