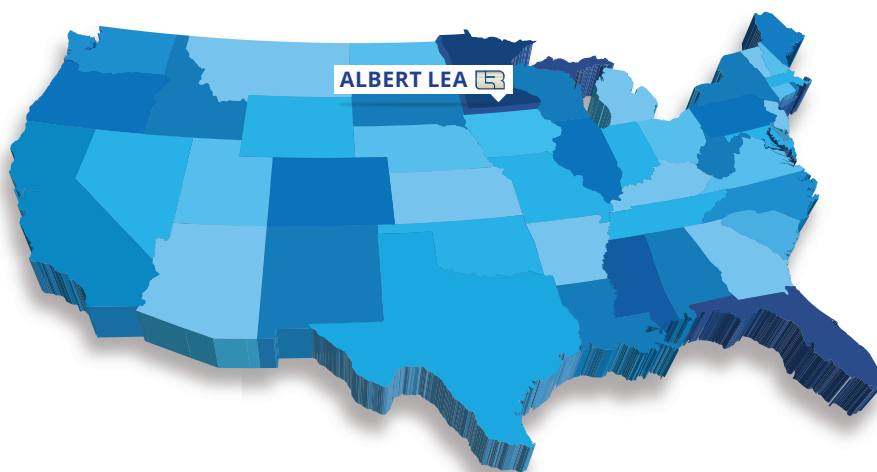


At Lou-Rich, we believe that when employees are owners, that makes everything in the customer experience better. A strong emphasis on design for manufacturability, active cost reduction efforts for on-going projects, overall lean process improvements, performance testing, inventory management agreements and outsourcing of castings and finishing services are just some of the ways we help our customers get the very best results on each and every project. While we are proud of the equipment and capabilities inside our facility, our greatest asset, and the reason our customers trust Lou-Rich, will always be our people.

GENERAL INFORMATION

- Lou-Rich was established in 1972
- Lou-Rich is 100% Employee Owned (ESOP)
- Annual sales revenue of \$55M+
- Headquartered in Albert Lea, MN
- Part of the Innovance group of companies, with over \$80M in revenue and 400+ employees
- Manufacturing square feet of 300,000 in three facilities with available capacity
- Contract manufacturing to customer supplied drawings, CAD models and project specifications
Core capabilities: complex machining, milling & turning, robotic and manual welding, forming, sheet and tube laser cutting, powder coat and liquid painting, high level assembly, and general assembly
- ISO 9001:2015, MN Sharp, and ITAR Certified



SAFETY • HEALTH • EXCELLENCE



OSHA • MANAGEMENT • LABOR



ENGINEERING

- Robust engineering staff specializing in design for manufacturability
- 3D printing capabilities 10" x 10" x 12"
- Solidworks and CREO Software for design
- Complete product engineering documentation
- CAD Model types include: Prt, Sldprt, IGES, DXF, STEP, ESPIRIT CAM Software

PROJECT MANAGEMENT

- Dedicated project and account management teams
- Experienced engineers and customer service professionals
- Clear and consistent communication to ensure expectations are met
- Design for Manufacturability as part of our ongoing project reviews

MAJOR MANUFACTURING EQUIPMENT

- CNC 400MM to 1250MM Horizontal Mill (9)
- CNC 3 FMC systems, 400mm, 500mm, 630mm. Size ranging from 20 to 34 pallets. (7)
- CNC 5 Axis with Robot Loading (2)
- CNC Vertical Mill (23)
- CNC 5 Axis Drill Tap Mill (1)
- CNC VTL 36.22" (1)
- Swiss Lathe (2)
- 4 Axis Lathe (3) with bar feed and live tooling
- 5 Axis Lathe (4)
- 3 Axis Lathe (8)
- Tube Laser (2) – Fiber/1oz up to 6" round capacity
- 6000 Watt Fiber Laser w/power cut 5' x 10': 25mm steel, 30mm SS, 30mm AL. 30 Tray Sheet Loader and Fully Automated Sheet Handling (1)
- CO2 5' x 10' Flat Laser (2)
- Robot Welding Cells (3)
- Manual Welders (10+)
- TIG Welders (10)
- Finishing booths, Aluminum & Steel
- Paint Line – Continuous (Liquid and Powder), 8 stage system, 4x6x10 maximum part size
- Laser Etch/ Engraving
- Auto Form Brakes (3) – 6 axis with back gage
- Media Tumbler (5)
- Complete in house tool room – design, CNC fixtures/ weld fixtures, gages, dies, etc.
- Flexible assembly cells to match customer project requirements.
- Testing – lean, single piece flow, pressure testing, life cycle testing, cleanliness testing, etc.
- Mazak Multiplex - dual main spindle lathe, with live tooling, Y-axis and gantry loader.

QUALITY

- Lou-Rich is ISO 9001:2015 Certified
- Copy of Quality Manual provided upon request
- AQP and PPAP performed at customer request
- Test equipment on-site:
 - Zeiss Accura II - AKTIV X-78", Y-118", Z-72"(1)
 - Zeiss Eclipse CMM X-40", Y-40", Z-20" (1)
 - Zeiss Eclipse CMM X-40", Y-64", Z-20" (1)
 - Zeiss C400 CMM X-15", Y-32", Z-13" (1)
 - Zeiss Duramax CMM X-19", Y-19", Z-19" (2)
 - Zeiss Accura RDS CMM X-47.2", Y-70.8", Z-31.4"
 - Farrow Arm (Gold Series) - 10' reach with articulating arm (0.003 accuracy) (1)
 - Mitsutoyo Optical Comparator 6"x 4" (10x and 20x Digital with SPC output) (1)
 - Econotherm Laboratory Oven X-18", Y-15", Z-15" (Cleanliness measurement) (1)
 - MicroVu (Qubix Series) 6" x 8", (20-250 mag) (1)
 - Virtek LaserQC 1200 (0.002 accuracy)