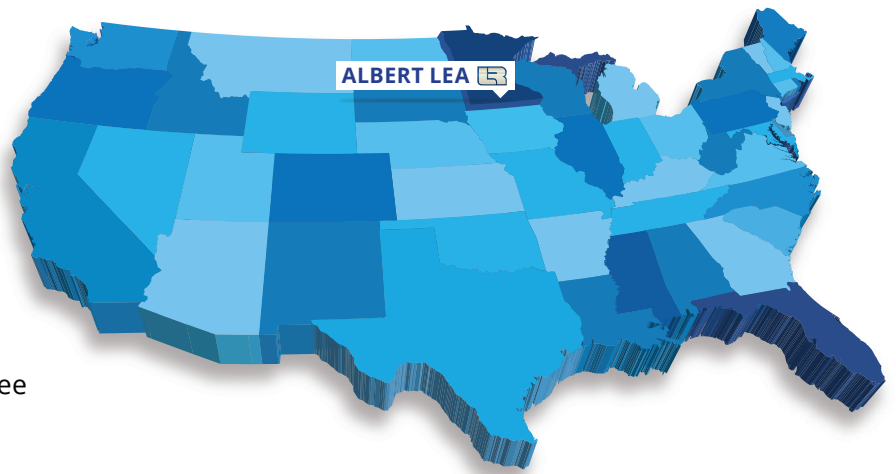


At Lou-Rich, we believe that when employees are owners, that makes everything in the customer experience better. A strong emphasis on design for manufacturability, active cost reduction efforts for on-going projects, overall lean process improvements, performance testing, inventory management agreements 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 \$50M
- Headquartered in Albert Lea, MN
- Part of the Innovance group of companies, with over \$70M in revenue and 400+ employees
- Manufacturing square feet of 300,000 in three facilities with available capacity
- ISO 9001:2008 Certified and ITAR Certified
- 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



ENGINEERING

- Robust engineering staff specializing in design for manufacturability
- Lou-Rich 3D printing capabilities 10" x 10" x 12"
- Lou-Rich uses Solidworks and ProE Software for design
- Drawing types include: TIF, PDF, etc.
- CAD Model types include: Prt, Sldprt, IGES, DXF, STEP, etc.

PROJECT MANAGEMENT

- Dedicated project and account management teams
- Experienced engineers and customer service professionals
- Clear and consistent communication to ensure expectations are met

MAJOR MANUFACTURING EQUIPMENT

- CNC 400MM to 1250MM Horizontal Mill (9)
- CNC 3 FMS systems, 400mm, 500mm, 630mm. # of pallets from 20 pallets to 34 pallets. (7 total machines)
- 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 (1) – 6" square 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 Welders (4)
- Manual Welders (10+)
- Finishing booths, Aluminum & Steel
- Paint Line – Continuous (Liquid and Powder)
- Laser Etch/ Engraving
- Turret Punch
- Auto Form Brakes (3) – 6 axis with back gage
- Precision Extrusion Press (2) – Aluminum Alloys
- Media Tumbler (5)
- Stamping Equipment (300 Ton, 110 Ton) (5)
- Complete in house tool room – build tooling, fixtures, gages, dies, etc.
- Assembly Cells and assembly lines – based on customer demand
- Testing – pressure testing, life cycle testing, cleanliness testing, etc.

QUALITY

- Lou-Rich is ISO 9001:2008 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)