

since 1972

# LINCOLN MACHINE

## Quality

Product quality does not only depend on the quality of the machine tools used for manufacturing; it also depends on the accuracy and repeatability of measuring and inspection devices. We integrate ISO standards into our manufacturing processes to monitor performance and provide continual process improvement and validation of customer's requirements.



At the center of our quality system is an inspection area with a Brown & Sharp Chameleon CNC CMM, which combines single-point measurement and multi-point scanning technology, making it accurate and fast. The scanning CMM can be used to compare manufactured components to design specifications, examine components and tooling for wear, or generate computer-aided drawings from handmade prototypes.

It has a working area of 78"x47"x39", with a part weight capacity of 5,000 lbs., and graphically displays the measurements up to .00001". The CMM can produce any level of documentation required, along with the ability to reverse engineer parts. Reverse engineering involves scanning and digitizing surfaces to create thousands of points to define complex shapes and generate computer models.

This digitized information is then posted as IGES for CAD translation.

Our team approach to problem solving allows us to identify and define the problem and initiate and verify corrective action.

Our quality department can also provide first article inspection, first part approval, and provide formal inspection reports. We utilize Statistical Process Control, (SPC), as a monitoring method to assure that our processes are functioning in an acceptable manor.

In addition, we perform continuous calibration of critical equipment and tools via certified calibration laboratories. Our various instruments and gauges include:

- 14" Optical Comparator
- Inspection Microscope
- Hardness Tester
- Surface Finish Analyzer
- Gauge Pins, Balls and Blocks
- Bore Gauges and Ring, Plug and Thread Gages
- Precision Squares and Angle Plates

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