



ENGINEERING-FIRST MANUFACTURING

CNC MACHINING

Precision milling and turning for OEMs, production lines, and contract manufacturing.



Contract CNC machining for one-offs, short runs, repair/rework, and repeat production.

AT A GLANCE

- Precision CNC milling and turning
- Short runs and one-off parts (no high minimums)
- Prototype, short-run, and repeat production programs
- Custom fixturing and workholding to support accuracy and repeatability
- All commonly machined industrial materials

CNC MILLING

- Plates, brackets, housings, fixtures, and tooling components
- Profiles, pockets, patterns, and tapped/reamed features
- Multi-part setups using repeatable workholding

CNC TURNING

- Shafts, spacers, bushings, sleeves, and threaded components
- Shoulders, grooves, and close-tolerance diameters
- Support for longer parts as required

CUSTOM FIXTURING & WORKHOLDING

- Fixture design/build to hold parts securely and repeatably
- Production workholding setups for efficient short-run machining
- Repeat setups for recurring orders and revision-controlled programs



MATERIALS

- Aluminum alloys
- Carbon steel, stainless steel, and tool steels
- Plastics (Delrin, UHMW, and other common industrial plastics) — other materials by request

VOLUME & SUPPORT

- One-off and emergency parts
- Short-run production (low minimums)
- Prototype development
- Medium production (100-5,000+) and ongoing contract programs



CNC MACHINING | DETAILS

Short runs • One-offs • Fixturing • Production programs

HOW IT WORKS

- 1 Review & quote — Send drawings/CAD, material, quantity, and due date. We confirm questions up front.
- 2 Program & fixture — CAM programming, tooling selection, and custom fixturing/workholding as required for consistent parts.
- 3 Machine — CNC milling/turning completed to print requirements.
- 4 Inspect & deliver — Parts are checked and packaged for delivery. Inspection reports are available when required.

WHY SSI MACHINING

- Short-run friendly: supports one-offs and low-quantity work without overcomplicating the process
- Fixturing capability: custom workholding that improves repeatability and reduces variation
- Clear communication: fast feedback when a drawing needs clarification
- Production mindset: repeatability, revision control, and on-time delivery for ongoing programs

Quality & Consistency

- Drawing review up front to confirm critical features and tolerances
- Process planning and in-process checks (as required)
- Repeat-run consistency + documented verification when needed

TYPICAL PARTS

- Tooling plates, fixtures, and fixture components
- Mounts, brackets, machine components, and custom hardware
- Housings and structural components
- Turned shafts, spacers, bushings, and threaded parts
- Replacement parts, repair components, and rework support

PROJECT INPUTS

- CAD model or drawing (STEP/IGES/SolidWorks/PDF)
- Material specification (or request a recommendation)
- Quantity and expected repeat frequency
- Critical tolerances/features
- Finish/coating requirements (if any)
- Delivery date and shipping method

Next step: Send drawings + quantity + timeline • Request a Quote

sales@ssi-co.com | 815.315.0863