



Rotational Machining

XLI Corporation offers both conventional and Computer Numerically Controlled (CNC) turning capabilities for precision manufacturing of rotational components.

CNC Turning

High speed CNC control of all operations often allows components to be made completely in a single pass for maximum productivity. The CNC controls also make it economically possible to run quantities of parts more frequently for Just-In-Time (JIT), short run, or lean manufacturing based production. When off-line secondary operations are required, XLI has the equipment and personnel needed to provide you with completely finished components.

CNC Swiss Type Turning

With CNC Swiss type turning, stock is fed through a high precision rotating guide bushing only slightly larger than the material itself. This allows processing of ground stock without damage to the outside surface. Cutting is done directly at the guide bushing allowing for single pass profile generation and improved stability and accuracy during machining. The through feed capability also enables manufacturing of long, high tolerance, components.

For faster production at lower cost, our Swiss type turning machines are equipped with:

- Automatic hydraulic bar feeders
- Indexing spindles
- Live cross working tools for milling, drilling, and tapping
- Subspindles for simultaneous operations

Production Automation

Our CNC Lathes are equipped with automatic bar feeders, through spindle coolant, live tooling, and robotic load/unload systems for 24 hour operation. These systems make it possible to machine larger diameter parts that are unsuitable for CNC Swiss type turning and to provide specialized services such as deep hole drilling.

Material Selection

XLI Corporation has extensive experience with both CNC Swiss type and conventional turning in many types of materials including:

- Aluminum
- Brass
- Plastics
- Steel
- Stainless Steel

On-Site Tooling

XLI has the personnel and equipment needed to design, build, and maintain specialized form tools for rotational machining. This helps us to reduce lead times, improve quality, and reduce costs for your components.

Finishing Operations

XLI provides deburring, tumbling, bead blasting, broaching, cleaning, and other types of finishing operations needed to make rotational components ready for assembly.

Choose XLI as your source for precision rotational machining services. Call us today to experience the XLI advantage on your projects.



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