

ABOUT

ISO CERTIFICATIONS

STONE Medical is your CNC machining specialist, producing quality Swiss screw machine products.

For orders large and small, we manufacture the parts you need with the speed and efficiency you want, and the quality and precision you demand. We offer friendly service, reliable workmanship, and quick turnarounds in most cases.

STONE Medical & Swiss Technologies of New England are proud to be an ISO 13485:2016 and 9001:2015 certified by NQA company. ISO helps ensure our customers receive exceptional quality, superior customer service, and on-time delivery. Our compliance backs our commitment to continual improvement and quality.



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SERVICES

● CNC MACHINING

Our vast range of CNC Swiss screw machines runs the gamut from short runs of 1-1000 parts to long runs of 10,000 or more, so we are more than prepared to deliver any quantity you should desire. From small diameter parts of .010" all the way to large diameter parts of 1.25", we are your convenient and complete source for high-volume custom machine parts.

How do our Swiss-type screw machines produce such quality CNC machining?

The Swiss-type screw machines we use are automatic lathes that feature sliding headstock and guide bushing. The bar stock, most commonly 12-foot metal or plastic bars, are held and rotated by the sliding headstock. This is the part of the machine that holds and rotates the bar stock at speeds ranging from 1000 RPM all the way to 10,000 RPM. The RPM for each project is determined by the diameter and type of material used.

Why are our Swiss-type screw machines superior to conventional lathes?

A conventional lathe simply can't produce the parts a Swiss-type screw machine of the kind used by Swiss Technologies can. Here's why: In a Swiss-type screw machine, the headstock contains a component that clamps the material, called the collet. The material is then fed through a guide bushing, which in most cases is made of carbide.

This guide bushing is what separates Swiss-Type screw machines from conventional lathes. It allows Swiss-type machines to maintain very tight tolerances in relation to part diameter-even over long lengths.

We're talking about plus or minus .0001" kind of precision. For example, if you needed to turn a .100" diameter over a 3" length, a Swiss-type screw machine is truly your only option. The material would bend away from the cutting tool on a conventional lathe, but a Swiss-type screw machine handles this job easily. That's why Swiss-type machines are vital to creating the kinds of parts required by the many complex jobs of today.

● EQUIPMENT

At Swiss Technologies of New England, we use the number one best-selling Swiss screw machines in the world.

Our comprehensive array of machines:

Swiss-Type CNC Machines

- (1) Citizens L520 with Auto Bar Loader and High-Pressure Coolant Pumps
- (4) Citizens L720 with Auto Bar Loaders and High-Pressure Coolant Pumps
- (1) Citizens A32 with Auto Bar Loader and High-Pressure Coolant Pump
- (2) Citizens L20E TYPE VIII with Auto Bar Loaders and High-Pressure Coolant Pumps
- (4) Citizens A20 with Auto Bar Loaders and High-Pressure Coolant Pumps
- (2) Brown and Sharp 00 G Cam Screw Machines
- (3) L20 TYPE X
- (2) L32 TYPE X

Inspection Machines

- (2) Mitutoyo PH-3500 Visual Comparator with Quadra-Check 200
- Sherr-Tumico Optical Comparator
- Mitutoyo SJ201 Surface Finish Tester

All Materials Machined

- Cold Rolled Steels: 12L14, 1215, 1018, 12L15
- Stainless Steel: 303, 304, 316, 416, 440, 465, 17-4
- Aluminum: 6061, 2011, 2024, 7075
- Brass and Copper: 360 Brass, Trillium Copper, 110 Copper
- Beryllium Copper
- Plastic
- Titanium

Secondary Operations

- Graymills Aqueous Solution Parts Washer
- Belair CMF1200 Centrifugal Magnetic Finisher
- 1 Barrett Versa Spin Fuge
- 1 Mikro Ultrasonic Cleaning System

Secondary Services

Swiss Technologies of New England offers a wide variety of secondary services for their customers. We pride ourselves on providing precision quality parts along with additional services for our customers. These are some of the services we provide:

- Centerless Grinding
- Cleaning
- Deburring
- Plating
- Heat Treat
- Passivate
- Anodize

● FACILITIES

The CNC machining difference

What makes the CNC Swiss-type screw machines we operate so superior to conventional lathes? Older, conventional machines were cam operated, meaning that each different part required a new set of cams and a human operator to stand by to replace those cams, driving up costs and labor. With CNC, or Computer Numerical Controlled machining, operators can usually switch parts easily by simply pushing a few buttons. Furthermore, CNC machines feature automatic bar loaders. This means that when they finish a bar of material, they remove the remaining material and load a new bar without requiring manual reloading by a machine operator. This technology gives our shop the ability to continue processing jobs overnight and during weekends, while all of our employees have gone home. This means vastly increased efficiency and virtually 24/7 output. Swiss Technologies continues to run a few manual cam machines, but the vast majority of our output is produced by the new, advanced CNC Swiss screw machines.



We are eager to help you with your next project!