

Chesapeake CNC

Swiss Screw Machining for Aerospace, Defense & Firearms | Eastern Shore, MD

Chesapeake CNC is an AS9100D certified Swiss screw machining house based on the eastern shore of Maryland, serving aerospace, defense, firearms, medical, and industrial programs from a 45,000 sq ft facility. The shop runs multiple 5 to 7-axis Citizen SR-series Swiss lathes with in-house bar straightening, centerless grinding, vibratory tumbling, and ultrasonic cleaning — from prototype through production.



Aerospace / Defense	Firearms / Military	Medical / Hydraulics	Industrial / Other
<ul style="list-style-type: none"> Avionics, connectors, jet-engine AS9100D w/ FAI & full traceability Zero-defect, burr-free delivery Deep/cross drilling, thread whirl NADCAP-approved finishing 	<ul style="list-style-type: none"> ITAR-compliant domestic sourcing Tight-tolerance barrel & receiver Heat treat, black nitride, nickel Featured: LWRC International Prototype through production 	<ul style="list-style-type: none"> Implant-grade & valve components Tight concentricity & finish ctrl SS, titanium, brass, aluminum Cross holes, grooves, threads Cert of conformance per order 	<ul style="list-style-type: none"> Electronics, telecom, automotive Marine & commercial hardware Consolidated sourcing programs In-house grinding & tumbling Quick-turn prototyping

SPECIFICATIONS

Bar Diameters	0.015" – 2.625" (0.38 – 66.7 mm) typical
Tolerances	As tight as ± 0.0001 ". Surface finish Ra 16–32 μm typical; finer on request.
Equipment	Multiple 5–7 axis Citizen SR-series Swiss lathes. In-house bar straightening & centerless grinding.
Materials	Stainless steel, titanium, brass, aluminum, nickel alloys, Mil-Spec & carbon/alloy steels, copper
Volumes	Prototype through production. Consolidated programs supported.
Lead Times	Typically 3–6 weeks depending on complexity and outside processes.
Inspection	QVI Starlite RAM, Deltronic DH216, Mitutoyo MeasurLink QMS, AQL sampling, FAI
Finishing	Heat treat, plating (Ni/Au/smoke black), anodize, black nitride, chem film, laser marking — NADCAP sources

KEY EQUIPMENT

- Citizen SB-20 (5-axis Swiss Lathes)
- Citizen SR-10J (6-axis Swiss Lathes)
- Citizen SR-20J/JII/RII/RIV (7-axis)
- Citizen SR-32J/JII, SR-38 (7-axis)
- Brother R450XI Mill, Centerless Grinder

INDUSTRIES SERVED

- Aerospace & Defense
- Firearms & Military
- Medical & Hydraulics
- Electronics & Telecom
- Automotive, Marine & Industrial

IN-HOUSE & OUTSIDE CAPABILITIES

- Bar Straightening
- Centerless Grinding
- Vibratory Tumbling
- Ultrasonic Cleaning
- Light Assembly
- Heat Treat*
- Plating*
- Anodize*
- Black Nitride*
- Laser Marking*
- Chem Film*

* Outside processes coordinated through NADCAP-approved sources

