



SMYTH COUNTY MACHINE
AMERICAN MADE BY AMERICAN CRAFTSMEN

YOUR COMPLETE,
ACCURATE, RELIABLE
SOLUTION.

SMYTHCOUNTYMACHINE.COM

✓ WELDING & FABRICATION

Excellence In Durability.

Welding to exacting specifications makes the difference in both appearance and performance of end products created by SCM's welding department. Regardless of the size and complexity of your project, we have the capability to fabricate anything from simple weldments to large structures in-house.

Our highly skilled welders are trained and certified in a variety of techniques to ensure speed, uniformity and penetration of welds, and our quality inspection process guarantees you receive the precision welding you'd expect from an ISO 9001:2008 registered manufacturing facility.



✓ QUALITY CONTROL

Excellence In Everything.

Consistent quality is SCM's main focus and is emphasized throughout the entire manufacturing process, from RFQ to part completion. At SCM, we have developed leading-edge quality control and inspection processes that ensure the highest level of quality in finish, fit, and function and accuracy to within 0.0001 of an inch. Our quality system is certified to be compliant with the requirements called out in the ISO-9001:2015 and MIL-I-45208 standards.

Our quality control department and inspection equipment is housed in a clean, 500 square foot, temperature-controlled room and all gages and measuring devices are maintained and calibrated to National Bureau of Standards procedures. The end result is quality product that is second to none.



✓ OUR SUCCESS

Smyth County Machine's success can be attributed to the contributions of dedicated employees, commitment to quality and outstanding customer service. However, these blessings are given by our Lord and Savior, Jesus Christ, and we give all glory and honor to Him.

"Trust in the Lord with all thine heart, and lean not unto thine own understanding. In all thy ways acknowledge Him, and He shall direct thy paths." Proverbs 3:5-6



✓ CNC MACHINING

Excellence In Technology.

SCM is committed to utilizing the most up-to-date CNC machining technology available. New equipment and upgrades are continually added to ensure the highest efficiency in production and custom manufacturing. Whether your requirements call for heavy or light vertical milling, horizontal milling or turning operations, SCM is your source for all CNC requirements.

Our machining centers are equipped with fourth and fifth axis turntables, providing the ability to handle complex parabolic operations in a single setup. Live tooling capabilities allow us the additional flexibility of milling and tapping operations on turning centers. What does all this mean to our customers? Fewer setups and operations, which translate into faster turnaround and reduced cost.

Our highly skilled operators, ISO compliant quality system, and facility-wide assessment protocol requiring first article, in-process and last piece inspection give us the edge in providing accurate, precision parts.



✓ PRECISION MACHINING

Excellence In Craftsmanship.

SCM has the in-house talent and machinery to handle all of your general machining needs. No matter how large or complex the project, we'll provide you with fast, accurate service every time.

Our highly skilled craftsmen together have more than a century of experience and are committed to providing superior service with unparalleled quality. State-of-the-art technology, including computerized digital readouts on all equipment, allow us to excel at machining parts that other facilities claim "impossible."

Our precision machining department also provides a full range of grinding services to deliver exacting tolerance on precision parts. We offer surface grinding of parts up to 40" long and I.D./O.D. grinding up to 10" in diameter.



WELDING & FABRICATION EQUIPMENT

- Challenger Series CNC plasma cutting system with Burny 5 control - 6' x 10' water table
- Miller SRH-222 stick welder
- Lincoln Idealarc heliarc welder
- Linde VI-253 hand MIG welder
- Everett 460mm cutoff saw
- Emmegi 5-axis CNC cut-off saw – 10" x 240
- Kalamazoo H9AW horizontal band saw - 9" x 15"
- Makita 355mm portable cut-off saw
- Johnson V-36 vertical band saw
- Hyd-Mech Model S-20A horizontal band saw – 10" x 14"
- Marvel V10A automatic vertical band saw – 10" x 14"
- Hand spot welders
- TRUMPF TruLaser 3040
- Trumpf TruBend 5230 Break Press
- Eutectic Terodyn metal spray welder
- Linde VI400 wire feed welder
- Miller Syncrowave 350 Heliarc welder
- L-Tec 650 wire feed welder
- (6) 600 Miller wire feed welders
- Standard AB325-12 325 ton x 12' long press brake with CNC back-gauge
- Standard AS500-10 10-1/2 x 10' shear with CNC back-gauge
- 200-ton H-frame hydraulic press
- Dake 75-ton press with 1-1/2 ton side mounted arbor press
- Piranha hydraulic iron worker

PAINT & SURFACE PREP EQUIPMENT

- Paint booth
- Heat treating ovens
- Blast-It-All glass bead machines

OUR QUALITY CONTROL EQUIPMENT

- Keyence CMM Model #XM-C1000
- Zeiss Eclipse 1000 CMM, CNC controlled, with ST3 dynamic probe and 5 station change rack
- Sherr-Tumico 2000 Optical Comparator
- GAGEtrak calibration management software
- Schlesinger Rockwell hardness tester
- 24 X 36-inch Inspection-grade granite surface plate
- 24 X 48-inch Inspection-grade air supported granite surface table
- 48 x 96 granite surface plate

Complete sets of calibrated:

- Go/No-go thread ring and plug gages
- Plug go/no-go gages to 1"
- Micrometers to 30"
- Calipers to 60"
- Height gages to 24"
- Precision bore gages to 6"
- Precision angle blocks

SMYTH COUNTY MACHINE HAS ALSO RECEIVED INDEPENDENT CUSTOMER CERTIFICATION TO THE FOLLOWING STANDARDS:

LOCKHEED MARTIN:

- Structural welding, steel, per AWS D1.1/D1.1M
- Structural welding, aluminum, per AWS D1.2/D1.2M
- Chemical conversion coating per MIL-DTL-5541
- Chemical agent resistant coating (CARC) system per MIL-DTL-53072
- Chemical conversion coatings & pretreatments for ferrous surfaces per TT-C-490

GDATP:

- Structural welding, sheet steel, per AWS D1.3/D1.3M
- Fusion welding for aerospace applications per AWS D17.1/D17.1M
- Fusion welding for aerospace applications per MIL-STD-2219



SMYTHCOUNTYMACHINE.COM



OUR PRECISION CNC MACHINING EQUIPMENT

Machining Centers:

- Mori-Seiki SH630 4 axis horizontal machining center with Fanuc 16M control, 120 tool ATC, (9)24" pallets, AGV-loaded linear pallet system, Renishaw automatic part gauging, MoricAC PC based cell controller – 33" x 30" x 33" x 1 degree
- Okuma MX45VAE vertical machining center with OSP700M control, 20 tool ATC, SMW Workswitcher manual pallet changer, HAAS 4th axis – 30" x 18" x 17" x .001 degree
- Okuma MX45VAE vertical machining center with OSP700M control, 20 tool ATC, SMW Workswitcher manual pallet changer, HAAS 4th axis – 30" x 18" x 17" x .001 degree
- MC60-VAE vertical machining center with OSP7000M control, 32 tool ATC, Tsudakoma automatic pallet changer, (2) 24" x 60" pallets – 60" x 24" x 24"
- Okuma MC-5VA vertical machining center with OSP5020M control, 20 tool ATC, HAAS 4th axis – 41" x 21" x 30" x .001 degree
- Okuma MC-3VA vertical machining center with OSP500M control, 16 tool ATC, HAAS 4th and 5th axis – 13" x 16" x 20" x .001 degree
- Okuma V4018 Crown vertical machining center with OSPU100M control, 20 tool ATC – 40" x 18" x 17"
- HAAS GR512 vertical machining center with HAAS control, 10 tool ATC, 4th axis – 144" x 60" x 12" x .001 degree
- Brother TC-324 drill/tap center with Brother CNC-830 control, 14 tool ATC, quick table pallet changer – 16" x 12" x 10"

Turning Centers:

- Mori Seiki SL-35B/1500 horizontal turning center with Fanuc 0T control, 15" Kitagawa chuck – 16" x 60" (23" swing)
- Mori Seiki SL-35A/750 horizontal turning center with Fanuc 10T control, 10" Kitagawa chuck – 13" x 30" (23" swing)
- Mori Seiki SL-35A/750 horizontal turning center with Fanuc 10T control, 10" Kitagawa chuck – 13" x 30" (23" swing)
- Okuma LC-40 horizontal turning center with OSP5000L control, 15" Kitagawa chuck – 21" x 40" (23" swing)
- Okuma LB-15 horizontal turning center with OSP5000L control, Hardinge S26 collet, part catcher, automatic gauging+printout, 12' LNS Hydrobar – 10" x 20" (18" swing)
- Okuma Captain L370 horizontal turning center with OSPE100L control, 3J collet, part catcher, 4' SMW 2104 bar feeder – 10" x 20" (18" swing)
- Okuma Captain L370MW horizontal turning center with OSPE100L control, twin spindle (3J collets), live tooling + full C axis, part catcher, SMW2100 bar feeder – 10" x 20" (18" swing) x .001 degree
- Okuma LB-25-II horizontal turning center with OSP7000L control, 15" chuck – 16" turn capacity, 24" swing (chucker)
- Diedesheim VF-40 vertical turning center with Siemens 810t control, 15" chuck – 17" x 12"
- Murata MW20 twin spindle chucker with Fanuc 16TT control, automatic gantry loader with load/unload conveyors, 10" chucks, 10 station turrets – 10" x 4"
- Hitachi-Seiki CS-30 inverted vertical turning center with Seicos 21L control, automatic carousel loader, straddle cut axis, 5" swing chuck – 18" x 10"
- Okuma LVT400M inverted vertical turning center with OSPU100L control, 12" SMW quick change chuck, twin pallet automatic loading, live tooling + full C axis – 17" x 12" (18" swing) x .001 degree
- Daewoo/Weisser Univertor II inverted vertical turning center with GE/Fanuc 16i control, thru conveyor, straddle cut axis, 15" swing chuck – 17" x 10"

PRECISION GENERAL MACHINING EQUIPMENT

Turning Centers:

- Sharp 1640C engine lathe with Newall DRO – 16" x 40"
- Kingston HR3000 engine lathe with Accu-Rite DRO – 34" x 120"
- Sharp 2060C engine lathe with Newall DRO – 20" x 60"
- Monarch Superturn engine lathe with Accu-Rite DRO – 34" x 144"
- Bullard vertical turret lathe, ram head with Newall DRO(x2) – 42" x 36"

Machining Centers:

- Giddings & Lewis horizontal boring machine, Newall DRO – 66" x 64" x 48"
- Sharp vertical milling machine with Accu-Rite DRO – 9" x 49"
- Sharp vertical milling machine with Newall DRO – 9" x 49"
- Milwaukee horizontal milling machine – 9" x 49"
- Asquith radial drill – 26" x 48"
- Edlund 4-spindle gang drill
- Carlton 5' radial drill
- (3) Burgmaster 5-spindle turret drills
- Davis #5 keyseater
- Mitts & Merrill #46 keyseater
- Kent automatic surface grinder – 16" x 40"
- K.O. Lee tool and cutter grinder
- Cincinnati 107-4 centerless grinder
- Sunnen MBC 1805-D hone
- TOS Hostivar BU28/1000 cylindrical universal OD/ID grinder model with Sony DRO – 11-1/2" x 40"
- 42" Blanchard grinder

At Smyth County Machine, we strive to be your choice based on our performance and value. Our diversified manufacturing processes and capabilities are recognized by many OEM companies.

Our combined goals include providing dependable services and products that fulfill technical specifications, as well as schedule requirements.

Within our company, we also offer a dedicated, responsive team that manufactures and supplies single or small lot, specialized, fabricated parts and hardware.

SCM holds an ISO 9001:2015 certification. Therefore, we aspire for excellence and to develop close ties with our customers, forming a mutually beneficial relationship for our combined future success.

