

# 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



# 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 aes - 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