

Chattanooga nuclear service center – Nuclear material upgrade program

Products

The Chattanooga nuclear service center supplies a full range of nuclear safety related and ASME code metallic materials. Customers will benefit from our extensive approved vendors list of audited and surveyed suppliers and with our supply of ferrous and non-ferrous materials compliant to virtually any specification and grade, we can deliver the materials you need when you need them.

Our supply covers a wide range of alloys in the following product forms:

- Bar (including PSQ)
- Plate
- Pipe
- Sheet
- Tubing
- Shapes

Processing services

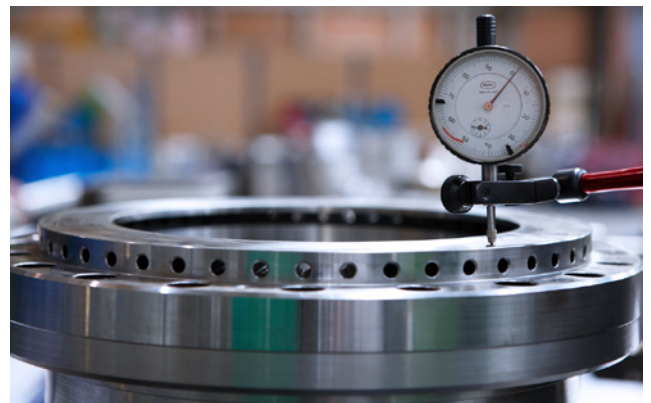
Customer will also benefit from our well-equipped machine shop that offers a range of value-added processing services including:

- Finish machining
- Fabrications
- ASME section IX welding program
- CNC plasma arc (5-axis) and oxy fuel torch cutting of plate and pipe
- NDE including hydrostatic testing, UT, PT, MT, and RT

Quality assurance

The Sulzer quality assurance team provides fully compliant documentation tailored to our customer's needs. Sulzer nuclear service center operations comply with the following industry standards:

- ASME boiler and pressure vessel code section III
- ASME NPT (N-2615) and as a material organization supplying ferrous and non-ferrous material
- ASME N (N-2614)
- NQA-1
- 10 CFR part 50, appendix B
- 10 CFR part 21
- ANSI N45.2
- Audited by NUPIC and NIAC



- Extensive product range
- Value-added processing services
- Quality assurance



Machine description	Capabilities; machining size
MILLING: 5 Axis Toshiba BTD-13F.R22 Horizontal Boring Mill 5 Axis HAAS UMC 750 Fryar MB15	90" Width x 118" Length x 78" Height (22,000 lbs) Max, ±.0002 Tolerance 24" Width x 24" Length x 20" Height Max, ±.0002 Tolerance 25" Width x 50" Length x 20" Height Max, ±.001 Tolerance
VERTICAL TURRET LATHES: Mighty Viper 20/25 Shibaura TX 16 Morando KL 12	Ø94" x 56" Height Max, ±.0002 Tolerance Ø60" x 56" Height Max, ±.001 Tolerance Ø40" x 39" Height Max, ±.001 Tolerance
ENGINE LATHES: Acra CHD-560-3000 Engine Lathe Acra CHD-560-2300 Engine Lathe SMTCL CW6280C Engine Lathe SMTCL CW6280C Engine Lathe Summit AW-32 Engine Lathe Summit AW-68 Engine Lathe	Ø22" x 115" Length Max, ±.0005 Tolerance Ø22" x 74" Length Max, ±.0005 Tolerance Ø32" x 152" Length Max, ±.0005 Tolerance Ø32" x 152" Length Max, ±.0005 Tolerance Ø38" x 240" Length Max, ±.001 Tolerance Ø38" x 240" Length Max, ±.001 Tolerance
CNC TURNING: 8 Axis Mazak Quick Turn Nexus 550-11MY Mazak Quick Turn Nexus 300-11	Ø33" x 114" Length Max, ±.0002 Tolerance Ø13-1/2" x 24" Length Max, ±.0002 Tolerance
CNC PLATE & PIPE BURNING: AJAN CNC Plasma/Oxy Fuel Cutting Machine	10' x 20' Bed - Burn Plate up to 8" Thick CNC Plasma cutting of Pipe 2"-24" OD X 20" Length
SAWING: Do-All Bandsaw Do-All C-916S	±.125 Tolerance Saws up to Ø12", ±.0625 Tolerance
GRINDING: Richards ID Grinder	Ø14" x 12" Length Max, ±.0005 Tolerance
EDM: DK7763F- 865W EDM w/ XKG-2005 Controller	Table Travel: 630mm X 800mm, Max Thickness: 500mm
DRILLING: SMTCL Radial Drill	R.8' x 70" Height Max, ±.015 Tolerance
PUMP SEALS: Lapmaster 48 Lapping Machine (carbide) Lapmaster 48 Lapping Machine (carbon) Lapmaster MLS-16 Light Band Inspection Table Lapmaster Light Band Inspection Table Amscope Stereo Microscope w/ Camera	Flattens Surface to ±.000001" Flattens Surface to ±.000001" Measures Surface Flatness to ±.000001" Measures Surface Flatness to ±.000001" Measures Surface Defects
HEAT TREATMENT: Thermcraft Vertical Stress Relief Oven Grieve AA-650 Heat Treat Oven	Ø5" x 144" Length (1,700°F) Max 22" Width x 24" Length x 24" Height (650°F) Max
QUALITY ASSURANCE: Keyence XM-series CMM Probe FARO Arm Portable CMM	24" x 24" x 6" Max, Tolerance ±.0001" 800mm Radial Swing, ±.026mm Single Point, ±.037mm Volumetric
NDE: GE USN50 Ultrasonic Testing Hydrostatic Testing up to 2,700 PSI Hardness Testing	XRF Positive Material Identification Liquid Penetrant and Magnetic Particle Examination
DYNAMIC BALANCING: Schenck H40B Dynamic Balancing Machine Schenck CAB 720H Dynamic Balancing Machine	Ø32" x 96" Length (5,000lbs) Max, Balances to .132 oz-in. @120-389 RPM Ø32" x 96" Length (5,000lbs) Max, Balances to .019 oz-in. @ 820-1799 RPM
MATERIAL HANDLING: Bridge crane coverage of entire facility. Bridge crane capacity up to 40 TONS.	



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