



ESCO Syracuse

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ESCO Turbine Technologies has the strength and agility to exceed customers' shifting expectations in a continuously changing business environment. With facilities in North America, Mexico and Europe, ESCO specializes in challenging production that requires exotic alloys and complex geometries.

Markets

Industrial Gas Turbines

- Small, medium and large vanes and nozzles
- Small, medium, and large equiaxed blades
- Shrouds and combustion hardware
- Inlet guide vanes

Aerospace

- Shrouds, duct segments, tip shoes
- Small structural castings
- Mid-size structural castings

Defense

- Missile system components

Capabilities

Wax Injection

- MPI and Tempcraft wax injection presses, up to 100 ton, provide repeatable process parameters

Robotic Shelling

- Kawasaki Robot with VA-Tech producer unit provides repeatable mold consistency
- 40" x 40" x 40" Maximum Shell Envelope

Casting

- Air and vacuum cast up to 500 lbs. (227 kg)

Dimensional Inspection

- Four Coordinate Measuring Machines with Valisys inspection software

X-Ray

- (6) 320 KV and 450 KV units
- 4 MEV linear accelerator

Vacuum Heat Treat

- Contracted

Destructive testing

- Chemical Analysis-ARL Optical emission spectrometer, all Fe, Ni, & Co materials, including gas analysis
- Metallurgical testing for porosity, IGA, IGO, ICO, alloy depletion, carbide studies, nitride layer, metal/mold reaction, weld evaluation, etc.



Customers

ESCO Syracuse is an approved source for such customers as:

- GE Energy
- Siemens
- Solar
- Power Systems Manufacturing
- Wood Group APM
- Pratt Whitney Power Systems
- Elliot Energy Systems
- GE Aviation
- Pratt & Whitney
- Smiths Aerospace
- Volvo Aero
- GKN
- Barnes Aerospace
- Lockheed Martin

Quality Standards

Certifications

- ISO 9001 / SAE AS9100
- NADCAP
 - AS7110 - Welding / Brazing
 - AS7108 - Chemical Processing
 - AS7101 - Materials Testing
 - AS7114 - Non-Destructive Testing
- ISO/IEC 17025 - General requirements for the competencies of testing and calibration laboratories

GE Aviation

- Special Process Certification
- Casting: S-301, S-331, S-333, S-501
- Gas Shielded Arc Welding:
- Captive Metallic Materials Lab: S-400; codes A, F, L, XL
- Macro Etching
- Fluorescent Penetrant Inspection: P3TF2, NAS 410
- Radiographic Inspection
- Designated Supplier Quality Representative (DSQR) - Self-Release Program

Pratt & Whitney

- Laboratory Control at Source (LCS)
Approved: MCL Manual, PWA 300; sections F-17 & F-22
- Designated Quality Control Representative (DQCR) - Self-Release Program