WHY CHOOSE APS?

Leverage APS Technology’s extensive experience, proven manufacturing methods and modern, versatile equipment to maximize your production efficiency without capital expense. APS is a premier source for these services not only for the oilfield industry, but also for other markets where precision, quality and on-time delivery are required.

Machine Shop Snapshot

- 60,000+ sq. ft. modern machine shop in Wallingford, CT
- Extensive fleet of equipment, from small model shop to large Integrex multi-axis machining centers
- A comprehensive array of capabilities available under one roof for superior process and quality control
- Diverse, highly qualified Quality Engineering and Inspection team; state-of-the-art testing equipment
- Fully equipped clean room and lab
- Extremely experienced, stable workforce
- Longstanding relationships with a diverse stable of suppliers

Specialties

- Milling large bar stock up to 30 ft. long and 18 in. OD with complex deep-hole drilling (wireways for hatch-mounted electronics, etc.)
- Manufacturing small, intricate parts and components – low and high volume
- Design engineering, product development, rapid prototyping, contract assembly, testing and other services are available

CNC & Conventional Machining Services

Milling and turning up to 6 axis, cutting, center boring, deep-hole drilling, gun drilling, rotary welding, straightening, honing, wire EDM

Secondary Operations

Hammer peening, roller burnishing, shot peening*, laser cladding*, heat treating*, grinding*, brazing*, ECM deburring, laser marking for traceability

Material Capabilities

Austenitic alloys; P-530, P-550 and others; Inconel, ToughMet®, 17-4 Stainless, Aluminum, Beryllium Copper, Nitronic®, Titanium and MP35N

* Handled by vendor partners

www.aps-tech.com/services
INSPECTION & QUALITY ASSURANCE

APS’s Quality Engineering and Inspection staff is highly experienced in the oilfield and commercial industries, with capabilities that extend across many other applications.

- Inspection instrumentation calibrated by an ISO 17025-registered calibration house
- Capable of inspecting products to ASME Y14.5-2009 Dimensioning & Tolerancing Standard and performing Fluorescent Particle Inspection (FPI)

Rapid Prototyping

**Direct Metal Laser Sintering**

APS’s DMLS rapid prototyping workflow enables quick-turn additive manufacturing of metal components based on a customer’s 3D CAD file. Parts up to 9.85 x 9.85 x 12.8 in. (250 x 250 x 325 mm) can be rendered from ultrafine powders into a variety of alloys including Stainless Steel GP1 (US 17-4; DIN 1.4542) and Inconel 718.

*Ideal for extremely complex geometries, including free-form surfaces, deep grooves and 3D cooling channels.*

ASSEMBLY & TESTING

**Contract Assembly**

Complex electro-mechanical assemblies, downhole sensor assemblies, etc.; fully equipped clean room and lab

**Testing Equipment & Capabilities**

Drilling test facility; flow loop; high-pressure testing; non-magnetic D&I sensor calibration facility and Helmholtz coil; electrodynamic shaker table/oven; HALT/HASS chambers; non-conductive oven; resistivity test tanks; strain gauge instrumentation; structural, shock, thermal and fatigue testing; and much more