

Precision Machining for Aerospace & Defense

Unrivaled Capability.
Uncompromising Quality.
Unflinching Integrity.



Machining critical parts for extreme mission environments.

Aerospace / Energy / Marine / Space

Hunting's Dearborn division is a premier manufacturer of high-precision CNC machined hardware for a wide range of defense & military equipment, for use in extremely harsh environments.

Hunting's special expertise is in highly-engineered tubular components, hollow rotating shafts, and parts that require very accurate deep hole drilling, plus complex turned or milled profiles.

Our ISO 9001:2015 and AS9100D certified manufacturing centers provide the most sophisticated bore-making and CNC machining capabilities available in the industry.

Size range: Diameters from 0,02mm – 762mm; Lengths from 450mm up to 12m.

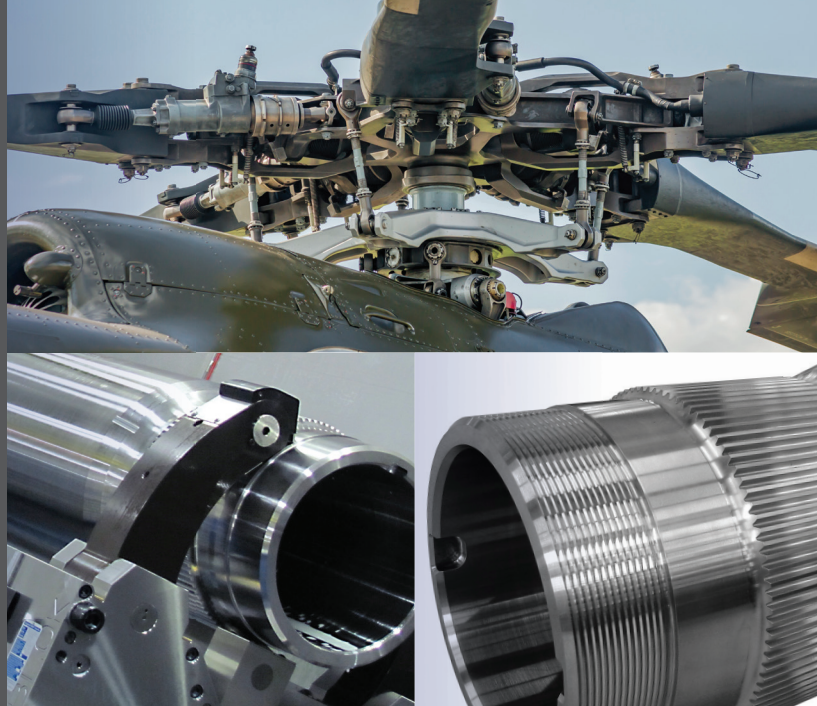
State-of-the-art machine tools and innovative manufacturing techniques enable our products to deliver the highest reliability possible for mission critical systems and for harsh operating environments.

Carefully controlled processes — and a world-class Quality Management System — ensure uncompromising product integrity. This makes Hunting the ideal supplier for mission critical systems and equipment.

To Learn more.

Phone: 1.207.935.2171

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Aerospace

- Turbine LPT & HPT Shafts
- Gearbox Drive Shafts
- Landing Gear Cylinders
- Aerial Refueling Booms & Probes
- TEA-TEB Canisters
- Helicopter Rotor Shafts
- Actuator Cylinders & Pistons
- Thrust Struts & Links
- Rocket Booster Separators
- Payload Handling Systems

Hunting delivers excellence in aerospace.

Critical engine and structural components for aero engines, fixed wing aircraft, helicopters, space craft, and rockets

Exceptionally tight tolerances on diameter, straightness, and concentricity

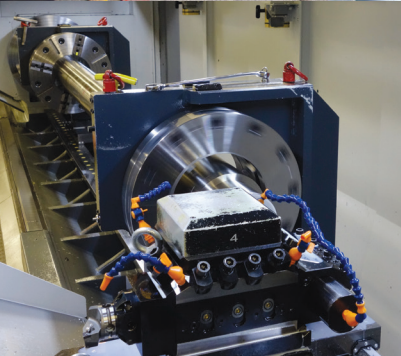
Turbine LPT & HPT shafts up to 3m long. Our dynamically balanced turbine and rotor shafts deliver superior performance with increased service life.

Complex deep internal profiles allow for weight reduction while maintaining strength:

- Bottle-bores
- Offset bores
- Deep multi-diameter stepped bores

Hunting's dedication to quality and precision has earned certifications from leading global aerospace manufacturers.

NADCAP and AS9100/D Certification
(EN 9100/JISQ 9100).



Maritime Defense

- Periscope Tubes
- Radar Masts
- Photonics Masts
- Control Rod Drives
- Pump Housings
- Jet Blast Deflectors
- Water Break Spears
- Steam Turbines Valve
- Bonnets
- Actuator Cylinders

Precision machined components for naval systems — submarine, surface, air.

With lives at stake, maritime operators worldwide trust Hunting components for numerous essential systems. We offer:

- the highest reliability for subsea pressure ratings, harsh saltwater service conditions, and acute mechanical forces;
- unrivaled deep bore machining, cutting edge manufacturing, and expert craftsmanship;
- close-tolerance tubes and shafts up to 600mm diameter, with lengths over 12 meters;
- intricate bore profiles: tapers, cones, radii, blind holes, undercut-grooves, etc;
- machining of all marine grade alloys, including CR-25 Super Duplex, 410 CRES, Monel, and BeCu;
- hydrostatic pressure testing to 13,000kPa (2,000 psi).

Hunting's manufacturing operations in Fryeburg are ISO 9001:2015 certified and SUBSAFE level 1 compliant.

Energy

- Nuclear
- Gas & Steam
- Directed Energy

World class machined parts to enable vital energy technologies.

Hunting's Dearborn division supplies the global energy sector with highly accurate, machined, drilled, and turned parts — manufactured to provide superior service and reliability for critical operations.

- High performance seamless tubing — custom drilled to exacting tolerances. Diameters up to 250mm and lengths up to 12m.
- World-class manufacturing — includes CNC milling & turning, EDM, gun-drilling up to 8000mm deep; bore machining up to 12m deep.
- Experience machining a wide array of specialty alloys: high nickel alloys, exotic, noble and pyrophoric alloys, such as, hafnium, zirconium, beryllium
- ISO 9001 and MIL spec compliant, with nuclear safe manufacturing standards

Here are some parts we make:

- Reactor Components
- Control Rod Drive Rods
- Turbine Spools & Shafts
- Fuel Rod Housings
- Microwave Guides
- Gyrotron Collector Sections
- In Core Monitor Housings
- MRI Magnet Chassis



Dearborn Division Services & Capabilities

With 70 years of innovation, our deep hole drilling capabilities are second to none.

- Proprietary drilling technologies and sophisticated techniques produce deeper holes, closer accuracy, better finishes.
- Highly-engineered, precision-bored, and balanced shafts and rotating components
- Precise, uniform-wall tubes and cylinders
- Unconventional bore configurations
- Experience with a wide range of specialty alloys
- Improved reliability, longer service life, ease of assembly
- Subcontract drilling services

Flexible Supply Chain Solutions:

Partially-machined blanks Ready-to-assemble kits
Fully-manufactured parts Mechanical assemblies

- **Partially-machined, precision blanks:** engineered to dovetail with the client's own in-house finishing operations
- **End-to-end manufacturing:** turn-key machining plus comprehensive contract manufacturing solutions — materials, machining, coatings, welding, surface treatment, NDT, mechanical, and electromechanical assemblies; from sourcing and certifying raw materials, all the way through to export compliance, Hunting can manage the entire manufacturing process, with most operations completed under one roof.

Machining & Inspection Services

Deep Hole Gun-drilling \varnothing 2,0mm – 50,0mm, depths 228,0mm – 7.200,0mm

Bore Machining \varnothing 38,0mm – 380,0mm, depths to 12800mm
Trepan, Rebore, Ream, STS/BTA, Hone

CNC Turning \varnothing 2,0mm – 1016 mm, lengths to 12800mm

Milling \varnothing up to 762mm, lengths exceed 9144mm
3/4/5 axis (horz & vert)

EDM Sinker Type Internal & external

Centerless Grinding \varnothing 25mm – 152mm, lengths to 7000mm

Cylindrical Grinding \varnothing 12,7mm – 609,6mm, lengths to 3048 mm
O.D. & I.D.

Spline & Gear Cutting **Shape:** ID/OD up to 254mm pitch \varnothing , lengths up to 152mm.
All profiles, I.D. & O.D. up to 762mm, spline lengths up to 3300mm, Accuracy to ISO/DIN 9, AGMA Class 8.

Hob: OD up to 406mm, lengths up to 1422mm.

CNC grinding: OD up to 762mm, lengths to up 3300mm.

CNC spline grinding: splines, modified splines and gears, \varnothing up to 482mm, lengths up to 2800mm.

Surface Enhancements Polishing, cladding, Flame-Spray, shot peening, black oxide, laser cladding, laser applied hard-facing, cold-rolling, burnishing, coatings, painting

Inspection Services full dimensional, profilometer, hardness, automated CMM with 3-D scanning, Faro arms, helium leak test, magnetic particle inspection, Ultrasonic, Metal Spectrometer Analysis

Precision Dynamic Shaft Balancing Shafts to lengths of 3048mm

Accreditations, Certifications and Associations

ISO 9001:2015 / AS9100D Certified	NADCAP Certification CMSP 17305	CAGE Code # 73953*
ITAR Registered DDTIC Licensed	DUNS # 099369944*	NAICS 332710, 332721, 333132, 333621
SUBSAFE Level 1 Compliant	ISO Nuclear Safe Compliant	ANSI, MIL, NAS, ISO Standards

*Hunting Dearborn is registered as Hunting Dearborn, Inc.. Fryeburg, Maine, USA., a division of Hunting PLC, London, England.

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