Manufacturing Capabilities

See what's possible with a proponent on your side.
Adding Value Through Manufacturing

Proponent has earned a remarkable reputation based on decades of on-time delivery, a wide range of high-quality aerospace parts and customer-centered service. As a value-added distributor, we pride ourselves on being able to provide manufacturing services to meet our customers’ needs. Our state-of-the-art systems and equipment enhance more than a half-century of direct experience in developing innovative solutions for complex customer needs.

**Manufacturing Capabilities**
- CNC multi-axis machining, horizontal and vertical
- High-speed machining software
- Interactive CAD/CMM systems
- Build-to-print machined & assemblies complete
- Hydraulic hose build – inclusive of industry standards – Nadcap & Titeflex proprietary TSO (medium & high pressure)
- Flat pattern & mild-steel extrusion seals – cutting & bonding
- Turnkey design, fabrication, finishing, assembly
- Traceability/certification

**Preferred Supplier Status**
- Boeing inspection delegations
- Boeing-approved fabrication – high-strength, low-alloy steel
- Honeywell-approved – fabrication & inspection delegation

**Quality/Certifications**
- AS9100 / ISO9001
- Boeing-approved QMS as defined by D1-4426
- SpaceK
- Nadcap – fluid distribution systems as listed on QML
- FAA-TSO authorization
- FAA AC 00-56B

**Processing Convenience**
Added value is enhanced by our proximity to all processing facilities located in Southern California. We provide value-added manufacturing and distribution for OEM Titeflex medium & high pressure hoses (build on demand).

**Technology**
We consistently invest in the latest technology and equipment to ensure the most advanced capabilities needed to meet the evolving demands of the aerospace industry.

**Project Management**
- State-of-the-art ERP system
- Real-time tracking
- Design/materials assessment
- Turnkey processing
- Assembly/finishing to final

**CNC Milling Centers**
- Three Haas VF-4SS, (20’ x 50’ travel)
  4 axis 10,000 rpm spindle 30 HP 40 taper
- One Haas VF-6, (64’ x 32’ travel)
  5 axis 10,000 rpm spindle 30 HP 40 taper
- One Haas EC-1600YVT, (64’ x 50’ travel)
  4 axis 6,000 rpm spindle 35 HP 50 taper
- One Haas VF-10, (120’ x 32’ travel)
  10,000 rpm spindle, 45 HP, 50 taper

**Mills**
- Two BRIDGEPORT (12’ x 42’ travel), 2 HP

**Water Jet**
- One OMAX waterjet
  55’ x 100’ bed with 50 HP pump, 60,000 PSI NOZZLE, tilt-a-jet head

**Special Concentration**
- Large-part precision machining to 120”
- Complex configuration inspection
- Exotic alloy machining
- Internet link to customer part database
- Ship to stock

**CNC Turning Centers**
- One Haas ST-10, 14” turning diameter with 12-position tool holder, (with Haas Bar Feeder) 15 HP
- One Haas ST-20, 15” turning diameter with 12-position tool holder, (with Haas Bar Feeder) 20 HP
- One Haas SL-30TL, 21” turning diameter with 12-position tool holder, (with Haas Bar Feeder) 30 HP, with live tooling
- One Haas ST-30, 21” turning diameter with 12-position tool holder, (with Haas Bar Feeder) 30 HP with LNS steady rest
- One Haas ST-40LB, 25” turning diameter with 13-position tool holder, 80” length of cut, big bore 55 HP with LNS steady rest

**CAD/CAM Software**
- Mastercam X7 CAD/CAM thru full 5 axis – always latest version

**CNC Knife**
- One ATOM 3015, cutting area (120” x 61”)

**Die Presses**
- One ATOM 22 ton

**ERP**
- Shoptech E2 job-tracking software

**Building Specs**
- 33,000 sq. ft. concrete tilt up
- 10,000 sq. ft. of air conditioned office space
- 23,000 sq. ft. of manufacturing space
- Two covered truck wells

**Manufacturing Staff**
- 21 full time employees (including management)

**Inspection Equipment**
- One MITUTOYO model B-231 coordinate measuring machine (X=28”, Y=24”, Z=18”) – IK 5000 software
- One MITUTOYO model BN15 coordinate measuring machine (X=24”, Y=60”, Z=28”) – CMM manager software
- One ROMER ARM, 4 ft. arm, mobile inspection – PolyWorks software
- One WILSON hardness machine “Rockwell” – A, B and C Scales
- Three precision surface plates from 36” to 60”
- One 14” STI optical comparator using M2 vertical software
- One TESA 28” electronic height gauge