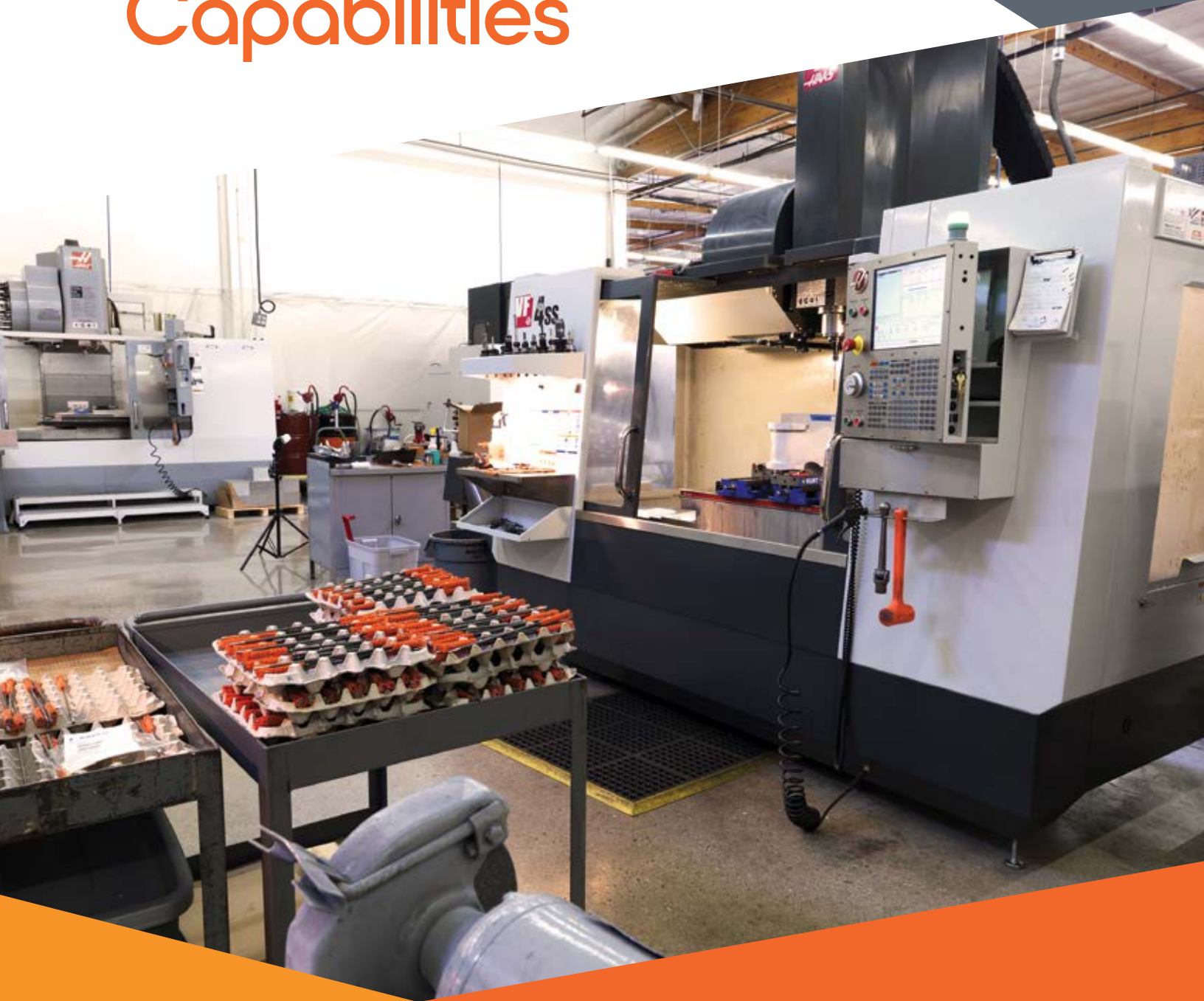


Manufacturing Capabilities



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 & mold 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
- SpaceX
- Nadcap – fluid distribution systems as listed on QML
- FAA-TSO authorization
- FAA AC 00-56B

Special Concentration

- Large-part precision machining to 120"
- Complex configuration inspection
- Exotic alloy machining
- Internet link to customer part database
- Ship to stock

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

Manufacturing Staff

- 21 full time employees (including management)

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

Equipment

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-1600YZT, (64" x 50" travel) 4 axis 6,000 rpm spindle 30 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

CAD/CAM Software

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

Inspection Equipment

- One MITUTOYO model B-231 coordinate measuring machine (X=28", Y=24", Z=18") – IK 5000 software
- One MITUTOYO model BN715 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

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-40LBB, 25" turning diameter with 12-position tool holder, 80" length of cut, big bore 55 HP, with LNS steady rest

CNC Knife

- One ATOM 3015, cutting area (120" x 61")

Die Presses

- One ATOM 22 ton

ERP

- Shoptech E2 job-tracking software





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