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Heritage Aviation, Ltd. provides integrated precision avionics and custom fabrication services that are suitable for a broad base of industries, including Aviation, Military, Defense, and Space.

As an AS9100 registered organization, we offer Assembly and Manufacturing Services that include:

- ◆ Precision Machining for Metals and Plastics
 - ◆ Sheet Metal Fabrication
- ◆ Component and Wiring Harness Assembly
- ◆ Special processing capabilities for Spot Welding, Painting, and Chem Film

Built from legacy organizations specializing in aerospace manufacturing, assembly and repair, Heritage Aviation, Ltd emerged as a provider of complete components and assemblies to support primary aircraft manufacturers. As an AS9100 registered organization with over 40,000 square feet of floor space located in the heart of the Dallas/Fort Worth (DFW) Metroplex, Heritage Aviation provides services and support to the vast number of local commercial and military aerospace organizations with the ability to service international clients in the same manner. Our FAA 145 Repair Station Certification allows us the authority to inspect, repair and overhaul components.

PRECISION MACHINING

At Heritage Aviation, we specialize in Metal Fabrication where cutting-edge custom CNC machining is one of our strengths. With complete machining capabilities., we have developed the machining expertise and experience to handle all your CNC machining needs. Utilizing Mastercam, Solidworks, and Esprit maximum capability, also Catia translation for transferability to our CAD/CAM software.

DMG DMU75 Simultaneous 5 Axis

- 29.5" X 25.6" X 22" X, Y, Z travel
- Maximum Table Load is 1,323 lbs.
- 25.6" Table Diameter
- Machine large parts with high precision
- 25000 RPM
- Designed for various metals



DMG DuraTurn 2050 Lathe

- MAPPS IV High Performance Operating System
- Built-In Motor Turret
- 13.3" Turning Diameter
- 8000 RPM Maximum Speed
- Diverse Machining Options
- 8" Chuck
- Bar Capacity 2.5"



DMG DMU50 3+2 Positional 5 Axis

- 500 / 450 / 400 x, y, z Axis
- 0.020 / 0.008 Measuring
- Primary Machine for complex parts
- 8000 RPM
- Designed for light steel & aluminum



Agie Charmiles Cut 20P Wire EDM

- Wire Diameters From 0.15 To 0.30 Mm (0.006 to 0.012 in)
- Max 9.84" Submerged Cutting
- Max 13" X 9.8" Working Surface
- Wire Spool of 25 Kg Extends Running Hours and Allows Continuous Production
- Surfaces Roughness of Less Than Ra 0.25 μm (10 μin) Can Be Achieved



Bridgeport GX480 3 Axis

- 23.6" X 15.75" Table
- 661 lb. Maximum Material Capacity
- 10,000 RPM
- Workhorse Small Parts Manufacturing



DMG DuraVertical 5100 4 Axis

- 53.100" X 23.600" Material Capacity
- 2200 lb. Material Capacity
- Primary Machine for Instrument Panel Face Plates
- 10000 RPM
- Designed for steel, aluminum & titanium materials



Fadal VCM 2216 3 Axis

- 39" X 16" Table
- 2,006 lb. Maximum Material Capacity
- 10,000 RPM
- Workhorse Small to Medium Part Manufacturing



SHEET METAL FABRICATION

The Sheet metal fabrication department of Heritage is committed to making your sheet metal fabrication designs a reality. From conception to completion, we specialize in the precision manufacture of your components. We combine over 50 years of expertise with High Tech machinery and software to take on the most complex of parts.

Trumpf TruMatic 2020R Punch

Combined with the intergraded MetaCAM software, allows for fast and precise punching ability allowing it to hold tight tolerance up to .002"

- 100" X 50" Sheet Capacity
- Up to 1/4" Sheet Thickness
- 20 tons Maximum Force
- Holds up to 19 tools



LVD PPS 80/25 Press Brake

- 90 Tons Pressing Force
- 98" Working Length
- 7.8" Stroke Length
- Automatic Tilt Control



Trumpf TrumaBend V130

- 144 Tons Pressing Force
- 120" Working Length
- 8.46" Stroke Length
- 6 Axis Graphic CNC Control
- 4 Axis Back Gauge



Cincinnati Mechanical Shear

- Full Sheet Capacity (48" X 144")
- Cut sheet Thickness up to 3/16"



PHP 140 Hydraulic Press

- 1000 psi Forming Pressure
- 14" X 28" Forming Envelope
- 5" Maximum Form Block Height
- 12" Diameter Cylinder (2 Each)



Baileigh Roll Former

- 3 Roll Hydraulic Plate Roll Former
- 60" Bending Length
- Maximum 10 Gauge Mild Steel



Davi Roll Former

- Hydraulic 4 Roll Plate Bending Machine
- Plate Width 2600 mm



WIRE HARNESS & CABLE ASSEMBLY

- Highly trained and experienced workers capable of building any type of wire harness bundle
- Braiding machine allows expanded wire harness capabilities



SURFACE FINISHING

Paint Booth

- Working area of 10' X 15' X 8'
- Air Makeup Unit Allows for Temperature Controlled Application and Heated Dry/Cure Cycles
- Access Doors and Wheeled Racks Allow for Rapid Changeover Between Jobs

Alodine Tank System

- 3 Treatment Tanks (Clean, Deoxidize, and Alodine) + 4 Rinse Tanks
- Treatment Tanks Have Temperature Control and Recirculation
- Control System is Programmable to Start-Up and Shut Down Automatically to Maximize Usable Process Time

REPAIR STATION

Our FAA 145 Repair Station Certification allows us the authority to inspect, repair and overhaul components.

QUALITY

Hexagone CMM 7.10.7 SF

- Working surface of 28" X 40" X 27"

Keyence Wide Area CMM

- Import design values after measurement to automatically judge the tolerances (determine the OK/NG result).
- Minimum display unit: Distance 0.001 mm 0.000039", Angle 0.001°
- Triple camera tracking allows for high accuracy measurement over a large area with a repeatability of $\pm 10 \mu\text{m}$
- Measure dimensions can be exported to create a 3D model.

