

Assembly and Manufacturing

Assembly

Kitco Defense provides structural aircraft assemblies for OEMs including Northrop Grumman and Boeing. A variety of services that the OEMs can no longer afford to provide or desire to support are offered including supply chain and program management.

Kitco Defense currently supports the Boeing A-10 WRP with both machining and assembly. Kitco Defense machines the trailing ribs for the center wing box, these are then assembled with other components and shipped to the Kitco Defense facility in Georgia for point of use kit delivery to Boeing. Kitco Defense also assembles the trailing edge flap track and the pitot tube for the A-10 program.

A-10C

- Center Wing Flap Tracks
- Trailing Edge Ribs
- Intercostal Ribs
- Pitot Tube

T-38/F-5

- 66% Spar
- 62% Spar
- Vertical Stabilizer

F-16

- Lever and Link Assembly

Manufacturing

We have successfully manufactured and assembled both A-10 and T-38 wing subassemblies and components, F-5 vertical stabilizers and various mechanical assemblies and ground support components.

Our small size allows us to be flexible and nimble. Our customers include Boeing DSS, Northrop Grumman, Lockheed Martin, Sikorsky Aircraft Corp. and the US. Government.

Kitco Defense's manufacturing facility provides machining, finishing and assembly services for customers. Onsite engineering and quality assurance teams support ranging from precision machine components to riveted assemblies. Machined components can be held to tolerances of 0.0001 inches, 8 RMS micro finishing. We work with qualified aerospace partners for heat treat, plating, NDT and other processes as required. Certification documents are included with product shipments in conformance with US military requirements.

Resources: **Software**

- CAD/CAM systems –Siemens NX 8.5; SolidWorks 2013; GibbsCAM Virtual Gibbs
- JobBOSS by Exact Holding NA, Inc.

Turning

- Mori Seiki Lathe – model SL-2500Y Lathe with live tooling
- Mori Seiki Lathe – model NL-2500SY with dual spindle, full y-axis with live tooling
- Mori Seiki Mill/Turn Lathe – model NT4250SZ with dual spindle, lower turret, full milling head

Milling

- Okuma NC Mill – model # MC-40-VA, 3 1/2 Axis
- Mori Seiki Horizontal Mill – model NH4000DCG with high speed spindle

Manual Equipment

- Supermax Manual Mill – model # YC-1 1/2 VS
- Goodway Manual Lathe – model # GW-1640G
- Sharp Manual Lathe – model # 1440V
- AMW Surface Grinder – model # CC-150
- Enerpac Hydraulic Press
- W.F. Wells and Sons Stock and Part Saw

Metrology Equipment

- Deltronic Optical Comparator MSA 665
- Mitutoyo Coordinate Measuring Machines (2) – Model # BRT-A-504, Tool # A504, A50

Brown & Sharpe CMM – Model # 555 Global Image, Tool # E5380

- OGP Smartscope – Model # Flash 500, Tool # SS001
- Leco Hardness Tester R-60d0
- 6" Opt. Flat Visual Comparator
- Fellows Gear Involute 12M

Other Equipment

- Mass Finishing Controlled Velocity Finishing
- Polishing – model HZ160
- Richwood Controlled Velocity Finishing – model CV-600
- TOCCO Induction heater with Controller – model TOCCOtron 400 Series
- Miller welders – models 251 (MIG), 250DX (TIG)
- MacBlast blast cabinet – model TrinMac
- Clemco blast cabinet – model Pulsar II

Kitco Defense prides itself in meeting or exceeding the customer's requirements.