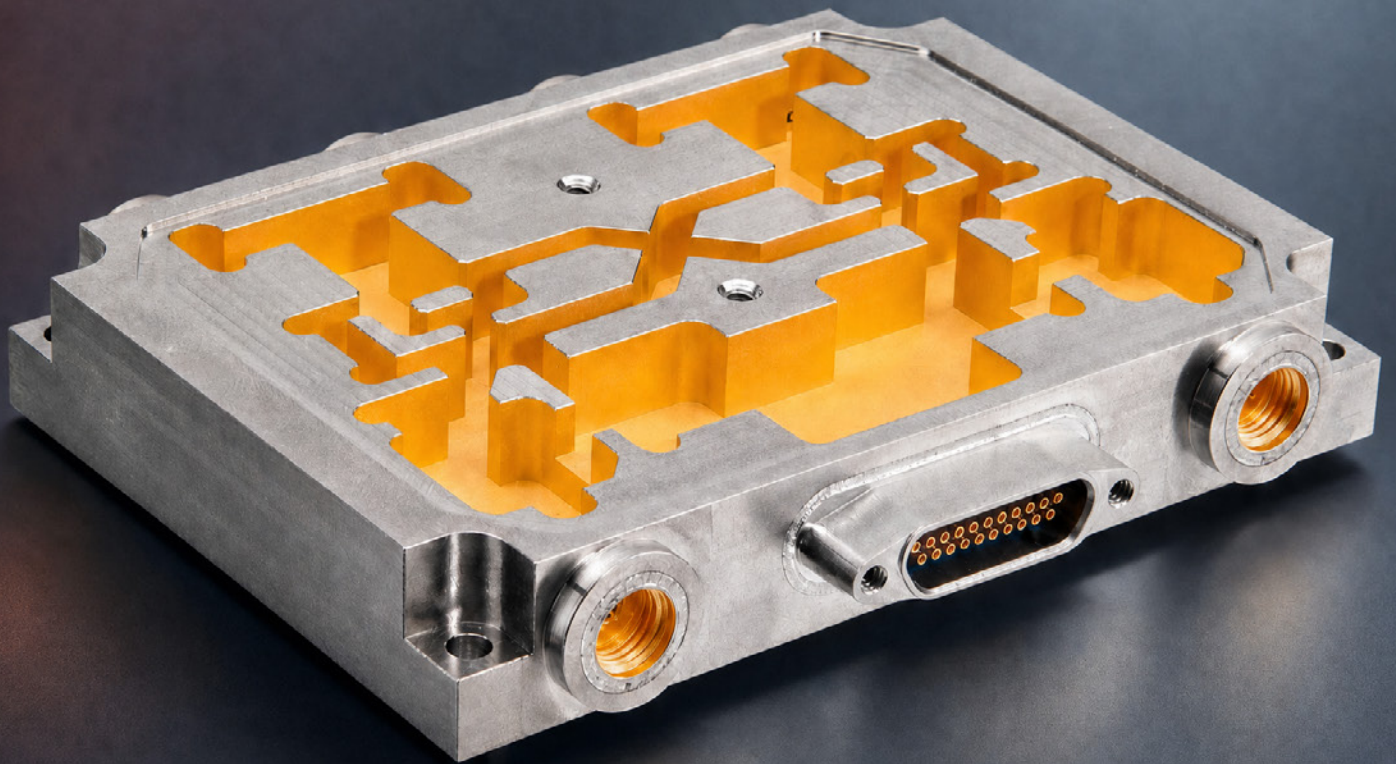


• APTIV •

MACHINING CAPABILITIES FOR HERMETICS



Vertical Mill

HAAS VF-1

- 3 Axis
- 10000 RPM, 20" x16" x20" travels

HAAS VF-2

- 3 Axis
- 1000 RPM, 30' x16" x20" travels

HAAS VF-4

- 3 Axis
- 12000 RPM, 50' x 20" x 25" travels

HAAS OFFICE MILL

- 3 Axis
- 50000 RPM, 12" x 10" x 14" travels

HAAS DM-1

- 3 Axis
- 15000 RPM, 20" x 16" x 15.5" travels
- 300 PSI HP coolant

HAAS TOOLROOM MILL

- 3 Axis
- 4000 RPM

HAAS VF-2SSYT (5 axis machines)

- 3+2 Axis with Nikken Rotary
- 15000 RPM, 30" x 20" x 20" travels
- 300 PSI HP coolant



CNC Turning

OKUMA GENOS 2000

- 3 Axis
- 5000 RPM, 3 Axis Live Center w/ Bar Feed

OMNIITURN LATHE

- 3 Axis
- GT-75 gang tool lathe, max stock size 1.0

CITIZEN R04

- 7 Axis
- Screw machine, 4 mm max size
- Main and sub spindle w/ live tools

CITIZEN K16

- 7 Axis
- Screw machine, 16mm max size
- Main and sub spindle w/ live tools

CITIZEN A32

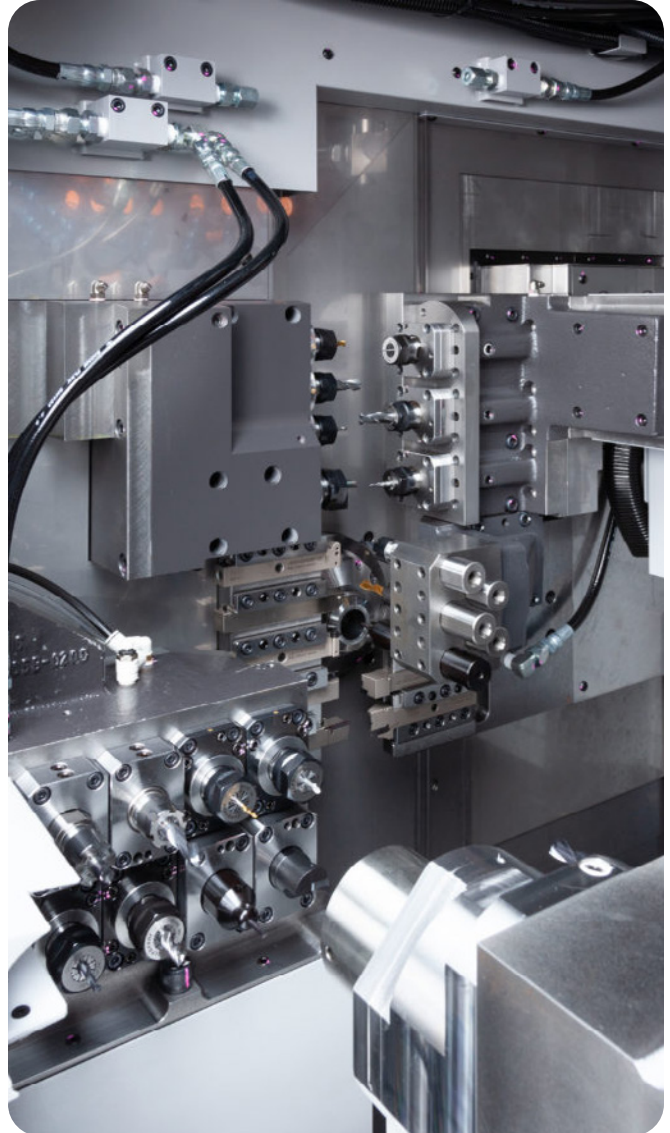
- 7 Axis
- Screw machine, 32mm max size
- Main and sub spindle w/ live tools

HAAS TOOLROOM LATHE

- 3 Axis
- 3000 RPM, 16" x 30" max capacity

TSUGAMI B32

- 7 Axis
- Screw machine, 16mm max size
- Main and sub spindle w/ live tools



Horizontal Mill

HASS EC-400

- 4 Axis
- 12000 RPM
- 70 tools
- 24" x 20" x 20" travels
- 1000 PSI HP coolant

HAAS EC-400PP

- 4 Axis
- 12000 RPM
- 70 tools
- 6 pallets each
24" X 20" x 20" travels
- 1000 PSI HP coolant

OKUMA MB4000

- 4 Axis
- 15000 RPM, 218 - 326 tools, 6 pallets each
- 1000 PSI HP coolant

Waterjet

OMAX 5555 WATERJET

- 3 Axis
- 60 ksi, 40 HP, max material size 48 inch x 48 inch

CNC Programming

CAMWORKS

- Camworks plugin inside of Solidworks

Automated Part Loader

ROBOT LOADER

- AWR VBX 160 Fanuc robot machine loaders, 5 axis machines



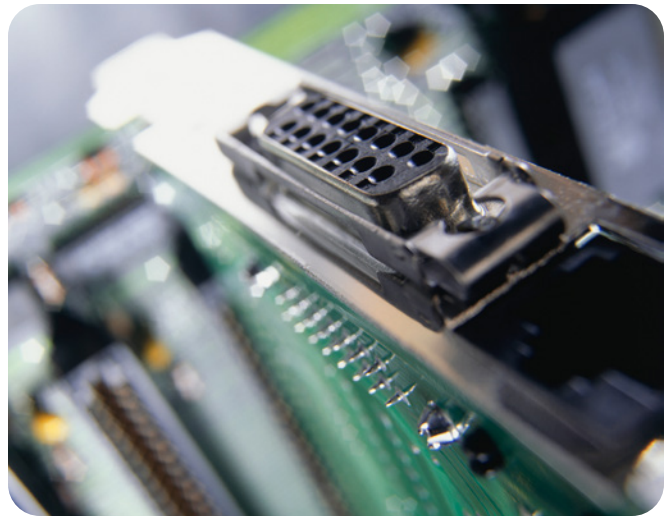
Common Materials and Specialty Material

- Aluminum 6061
- Aluminum 4032
- Stainless Steel 304L
- Stainless Steel 316L
- Titanium Grade 2
- Titanium Grade 5
- Stainless Steel 17-4
- Kovar
- Nitronic
- X Bond Materials
- Copper Moly
- Copper Tungsten
- Beryllium copper
- PEEK



Common Machined Products

- Connector Shells (Micro Nano, SubD and Custom)
- Connector Insets (Micro, Nano, SubD and Custom)
- RF Feedthrough Shells and Ferrules
- Connector Pins (Micro, Nano, SubD and Custom)
- Integrated Microwave Packaging
- 38999 Series Shells
- Thermal Battery Head
- Dewars
- Vacuum Flanges
- Imaging Enclosures
- Custom Assemblies



Market Solutions



Aerospace &
Defense



Automotive
& CV



Industrial &
Robotics



Marine
Subsea



Medical



Oil & Gas



Power & Data
Infrastructure



Rail Mass
Transit



Space

ABOUT APTIV:

Aptiv PLC (NYSE: APTV) is a global industrial technology leader delivering advanced solutions people trust when it matters most across automotive, commercial vehicle, aerospace and defense, telecom and datacom, and other diversified industrial end markets. Our differentiated portfolio enables devices and systems to sense, think, act, and continuously optimize performance. Building on decades of innovation, Aptiv brings global scale and a resilient, localized value chain to customers across the globe.

Learn more at www.aptiv.com.