

• APTIV •

MACHINING CAPABILITIES

HOUSTON, TEXAS



Aptiv Ruggedized Machining Capabilities

Precision Machining for Demanding Applications

Aptiv's ISO 9001:2015 and AS9100D accredited machine shop delivers precision components for aerospace, medical, oil & gas, and electrical interconnect applications. Equipped with advanced CNC and Swiss-style machines, we specialize in small- to medium-sized parts—supporting everything from prototypes to high-volume production and build-to-stock programs.

We machine a wide range of materials, including aluminum, brass, bronze, stainless steel, titanium, nitronic alloys, Inconel, and PEEK. Plating, coating, and heat treating are performed by trusted, qualified vendors—ensuring every part meets Aptiv's uncompromising standards for quality and reliability.



CNC Turning

**DOOSAN MACHINES WITH TAILSTOCK AND LIVE TOOLING CAPABILITIES:
CAPABLE TOLERANCE: 0.0005.**

Doosan Puma 2600M

- 3500 RPM
- 3.2" bore
- 30" BTC
- 12 station turret
- With or without high pressure coolant

Doosan Puma 240M

- 3500 RPM
- 3.2" bore
- 30" BTC
- 12 station turret
- High pressure coolant

Doosan Puma 280M

- 3500 RPPM
- 3.3" bore
- 24" BTC
- 12 station turret

Doosan Puma 2100M

- 4500 RPM
- 2" bore
- 20" BTC
- 12 station turret

Doosan LYNX 220 LMA

- 6000 RPM
- 2" bore
- 17" BTC
- 12 station turret

**DMG-MORI TWIN SPINDLE MACHINES WITH
"Y" FUNCTIONALITY AND LIVE TOOLING
CAPABILITIES
CAPABLE TOLERANCE: 0.0002**

MORI/DMG NLX 2500/1250

- 6000 RPM
- 3.15" bore
- 49" BTC
- 12 station turret
- Y-axis capabilities
- Main & sub spindle
- High pressure coolant

MORI/DMG NLX 2500/700

- 6000 RPM
- 3.15" or 4" bore
- 12 station turret
- Y-axis capabilities
- Main & sub spindle
- High pressure coolant



Swiss Machining Capabilities

TSUGAMI MACHINES WITH LIVE TOOLING CAPABILITIES
CAPABLE TOLERANCE: 0.0002.

Tsugami 55327-III-5AX

- Capable of high-volume production up to 32 mm Dia
- 8000 RPM
- 1.25" bore
- Main & sub spindle
- High pressure coolant
- Bar feeder

We can machine smaller diameter parts to very close tolerances in large volumes. They are paired with a 12' Bar feeder for unattended operation with an HP coolant system.

Tsugami 5026-11

- Capable of high-volume production up to 20mm Dia
- 10000 RPM
- .78" bore
- Main & sub spindle
- High pressure coolant
- Bar feeder

We can machine smaller diameter parts to very close tolerances in large volumes. They are paired with a 12' Bar feeder for unattended operation with an HP coolant system.

MILL TURN
CAPABLE TOLERANCE: 0.0002

MORI/DMG NLX 2500/1250

- 6000 RPM
- 3.15" bore
- 49" BTC
- 12 station turret
- Y-axis capabilities
- Main & sub spindle
- High pressure coolant



Vertical Milling

CAPABLE TOLERANCE 0.0005

DMG/MO3I CMX1100

- 12000 RPM
- 43" x 22: x20" travels with 4th axis rotary

DOOSAN 5700

- 12000 RPM
- 41" x 22" x 20" travels with 4th axis rotary

DOOSAN 5700

- 12000 RPM
- 20" x 16" x 19" travels with 4th axis rotary

Manual Lathe

Equipped with Collet Chucks, 3 & Jaw Manual Chucks and Digital readouts

Manual Mills

Kent Knee Mills with Digital Readouts

Doosan CNC Saw

Cut various sizes of material, including up to 12" diameter.



Common Materials

COMMON MATERIALS

- 17-4
- Beryllium Copper (AT & HT)
- Aluminum 6061 7 7075
- 718 Inconel
- Titanium 6-4
- Monel Alloy K500
- 316/303/304 Stainless Steel
- Nitronic 50 & 60
- Toughmet 3
- 4140
- Virgin Peek & Peek with 30% Glass Filled
- Naval Brass

TYPICAL PRODUCTS

- Running Gear
- MWD Components
- Centralizers
- Build to print components
- WTIR

SOFTWARE

- Jobpack Scheduling System
- Predator Wireless DNC System
- Predator Wireless MDC (Machine Data Collection Programmers
- CNC Programming using Edgecam 2024 Software
- Solid Modeling Using Solidworks 2023
- Costimator for Machine Quoting



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.