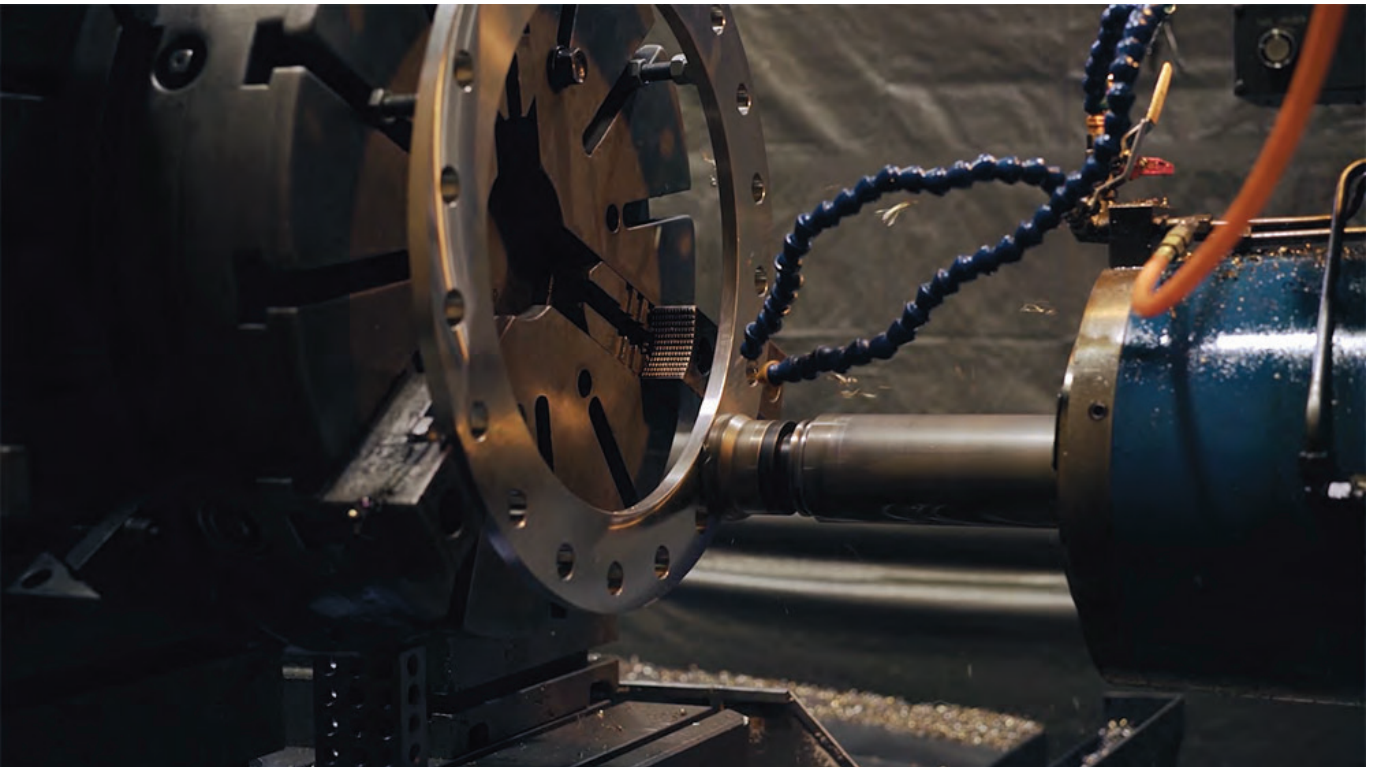


Machining Services



Machining Services - Features & Capabilities

Our machine shop enables API International to manufacture product that meets a wide variety of specifications utilizing Buy America, AIS or Import materials. We also support fast turn modifications to our stock items in order to meet customer needs. Whether you have a CAD drawing or sample that needs to be reverse engineered, we can work with you on prototyping, production quantity manufacturing and even warehousing product.

MILLING

- Variety of 3-axis vertical mills allows efficient machining of your part
- Open work envelope of 4-axis horizontal Boring Mill allows machining of parts up to 59"(X) x 39"(Y) x 29"(Z) in size, with the ability to work with larger parts by repositioning

TURNING

- Versatile array of lathes can handle your small to medium size parts
- Two CNC lathes with the ability to turn parts with diameters from 3" to 43"
- Selection of manual lathes supports a turning range of 3" to 108" (120" when ID $\geq$ 24")

OUR ADVANTAGE

Range of Capabilities:

Experience with a wide variety of products, sizes, materials and specifications.

Quality Control:

Quality control technicians working with modern technology, including a Romer Arm CMM, that verifies all products meet customer requirements.

Quick Turnaround:

Short lead times that allow you to get products to customers when they need them.

Cost Reduction:

Our machine shop's vast knowledge of tooling and fixturing can help reduce your production cost, especially on your high volume products.

MATERIAL

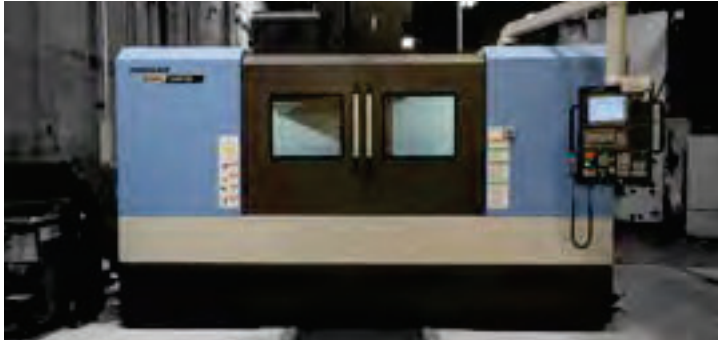
- Plastic:
 - Delrin, POM, Lexan, Nylon 66, Nylon 6, PEEK, PP, PE, Acetal
- Rubber:
 - EPDM, Neoprene, Buna-N, Viton
- Aluminum:
 - A2011, A2024, A2017, A5052, A5056, A6061, A6063, A6463, A6082, A7075
- Copper:
 - 3600, 3604, 3771
- Titanium:
 - 1-28
- Steel Series:
 - Ductile Iron:
 - ASTM A536
 - Carbon/Mild Steel:
 - A105, A36, A516-70, A572-50, etc.
 - Stainless Steel:
 - 300 Series- 303, 304, 304L, 316, 316L
 - 400 Series- 420J2, 430, 434, 442
- Special Metals:
 - Hastelloy, Inconel, Incoloy, Duplex 2205, Super Duplex 2507, Chrome Steel, alloys, or their equivalents

*Tooling can be added quickly in order to work with almost any material.

TOLERANCES

Part Size (max)	Tolerance
21"	$\pm .001$
42"	$\pm .010$
60"	$\pm 1/32$
120"	$\pm 1/16$

Machining Services - Machines



DOOSAN MYNX 7500/50

- CNC MILL

60" x 30" work envelope

Ideal for: Larger parts and exotic materials



DOOSAN DNM 5700

- CNC MILL

40" x 20" work envelope

Ideal for: High speed milling of material such as aluminum and plastic



HYUNDAI WIA LV1100R

- VERTICAL CNC LATHE (QTY. 2)

Maximum turning diameter: 39"

Ideal for: High volume turning of complex parts up to 39" diameters



DOOSAN DNM 5400/50

- CNC MILL

40" x 20" work envelope

Ideal for: Precision drilling & milling



BULLARD DYNATROL

- VERTICAL TURRET LATHE

Maximum turning diameter: 108" **Ideal for:** Turning rings and flanges with 42" to 108" outer diameters

Machining Services - Machines



MONARCH 96" VMC-RT
- CNC DRILLING MACHINE

Drill holes 0.25" - 3" diameter
Work piece: 20" - 108" diameter
Ideal for: Drilling bolt holes



QUICKDRILL GANTRY MACHINING CENTER -
HORIZONTAL CNC MILL

120" x 120" work envelope
Ideal for: Drilling and milling large
8" thick flanges up to 18ft in
diameter



DOOSAN PUMA 480/GT3100
- HORIZONTAL CNC LATHES (QTY. 2)

Maximum turning diameter: 5" x 21.5"
Maximum length of work: 39"
Ideal for: High volume turning of
complex parts



SENFENG SF1500HC
- FIBER LASER

Ideal for: Rust removal, paint removal,
grease removal, weld cleaning



FRYER VT-80
- VERTICAL TURRET LATHE

Max Cutting Length 32"
Cutting Diameter Range 30" - 76"
Ideal for: High volume turning of complex
parts up to 80" diameter