

A close-up photograph of a CNC lathe machine in operation. A polished, cylindrical metal workpiece is mounted on the lathe's rotating table. A cutting tool is positioned to machine the end of the workpiece. The machine's complex metal structure, including the tool holder and various adjustment screws, is visible. The background is a blurred industrial setting. The text "CNC MACHINING" is overlaid in white, bold, sans-serif font on the left side of the image.

CNC MACHINING

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General process information

	3-AXIS MILLING	5-AXIS MILLING	TURNING
MAX. PART SIZE	<ul style="list-style-type: none">• 1800 x 1000 x 500 mm• 70.9 x 39.4 x 19.7 in	<ul style="list-style-type: none">• 1000 x 900 x 600 mm• 39.4 x 35.4 x 23.6 in	<ul style="list-style-type: none">• Ø 350 x 600 mm• Ø 13.8 x 23.6 in
MIN. PART SIZE	<ul style="list-style-type: none">• 12.7 x 12.7 x 12.7 mm• 0.5 x 0.5 x 0.5 in	<ul style="list-style-type: none">• 12.7 x 12.7 x 12.7 mm• 0.5 x 0.5 x 0.5 in	<ul style="list-style-type: none">• 6.4 x 6.4 x 6.4 mm• 0.25 x 0.25 x 0.25 in
MIN. FEATURE SIZE	<ul style="list-style-type: none">• Ø 1 mm• Ø 0.039 in	<ul style="list-style-type: none">• Ø 1 mm• Ø 0.039 in	<ul style="list-style-type: none">• Ø 1 mm• Ø 0.039 in
STANDARD TOLERANCE	<ul style="list-style-type: none">• Metals: +/-0.13 mm (0.005 in)• Plastics: +/-0.20 mm (0.008 in)		
LEAD TIME	<ul style="list-style-type: none">• As low as 8 days for less than 50 parts	<ul style="list-style-type: none">• As low as 10 days for less than 50 parts	<ul style="list-style-type: none">• As low as 8 days for less than 50 parts

CNC MACHINING

Materials

PLASTIC

- ABS
- Acrylic (PMMA)
- HDPE
- Nylatron
- Nylon 30GF
- Nylon 6/6
- PC (Polycarbonate)
- PEEK
- POM (Delrin, Acetal)
- POM Acetal
- PP (Polypropylene)
- PTFE (Teflon)
- PVC (Polyvinyl chloride)

ALUMINUM

- AL-2014
- Aluminum, Stock, 2024 T3
- Aluminum, Stock, 2024 T351
- Aluminum, Stock, 2024 T4
- Aluminum, Stock, 5052 H32
- Aluminum, Stock, 5052 O
- Aluminum, Stock, 6061 T6
- Aluminum, Stock, 6061 T6511
- Aluminum, Stock, 7050 T7451
- Aluminum, Stock, 7050 T7651
- Aluminum, Stock, 7075 T6
- Aluminum, Stock, 7075 T651
- Aluminum, Stock, MIC6

STAINLESS STEEL

- Stainless Steel, Stock, 15-5 PH
- Stainless Steel, Stock, 17-4 PH
- Stainless Steel, Stock, 303
- Stainless Steel, Stock, 304
- Stainless Steel, Stock, 316
- Stainless Steel, Stock, 416
- Stainless Steel, Stock, 420
- Stainless Steel, Stock, 440C

OTHER STEEL

- Steel, Cold Worked, 1010
- Steel, Cold Worked, 1018
- Steel, Cold Worked, 1020
- Steel, Cold Worked, 4340
- Steel, Hot Worked, A2
- Steel, Hot Worked, 1045
- Steel, Hot Worked, 4140
- Steel, Hot Worked, A36
- Steel, Hot Worked, D2
- Steel, Hot Worked, O1
- Steel, Hot Worked, S2
- Steel, Hot Worked, S7

OTHER METAL

- Brass
- Brass 330
- Brass 360
- Bronze
- Bronze 642
- Bronze 655
- Copper
- Copper 101
- Copper 110
- Copper 182
- Titanium Grade 2
- Titanium Grade 5

Finishing / post-processing options

- As machined (standard)
- Anodizing
- Powder coating
- Bead blasting
- Brushing
- Painting
- Polishing
- Screen printing
- Engraving
- Heat treating
- Passivating
- Plating
- Black oxide (steel)