

CAPABILITIES

Precision turned parts, complete in one setup

Domestic workmanship. Foreign pricing.

PrimeCraft is a CNC turning shop in Bloomfield, Connecticut. Small, complex components, including parts most shops would put on a mill, come off our multi-axis lathes finished: turned, milled, drilled and threaded in a single setup.



0.118 to 2.5 in
(3 to 63.5 mm)
part diameter



100 to 1,000,000+
pieces per program



Plastics to Inconel
metals and plastics



Turned and milled
complete in one setup

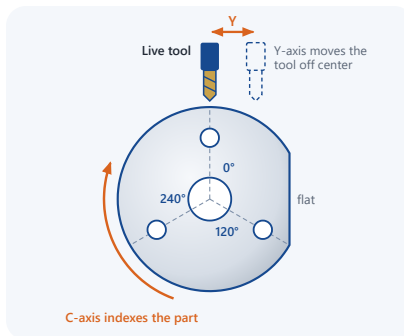
MILLED PARTS ON A LATHE

Parts that look like mill work, made complete on a lathe

Live tools with C-axis and Y-axis, plus B-axis and full 5-axis on our Swiss, cut flats, slots, cross holes, angled and off-center features in the same setup that turns the part.



Turned and milled complete on a lathe



C-axis indexing

The spindle holds the part at the angle on the print, positioned in 0.001° steps



Y-axis and live tools

Off-center holes, slots, flats and pockets without moving to a mill



One setup, one datum

Every feature cut from the same chucking, so position and concentricity hold



Less handling, lower cost

No second operation, no extra fixtures, fewer setups

HOW WE WORK

One setup, from bar stock to finished part



Bar stock in
Bar fed, unattended



Turn
ODs, bores and forms



Mill and drill
Live tools and Y-axis



Thread
Internal and external



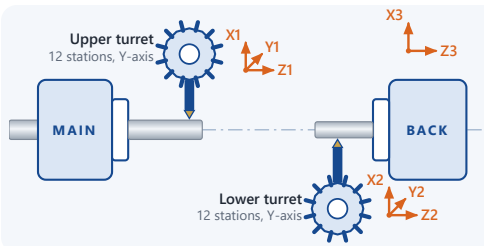
Back-work
Second spindle



Finished part
Free of burrs

EQUIPMENT

Three multi-axis lathes, bar fed



Miyano BNE-65MYT

Fixed-headstock turning center, twin spindle, 10 axes

BAR CAPACITY
2.56 in (65 mm)

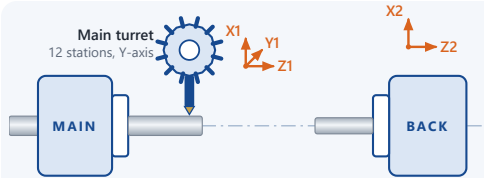
MAX LENGTH
7.8 in (198 mm)

TURRETS
2 × 12 stations

Y-AXIS
Both turrets

LIVE TOOLS
Up to 24

SPINDLES
Main and back



Miyano BNJ-51SY6

Fixed-headstock turning center, twin spindle

BAR CAPACITY
2.0 in (51 mm)

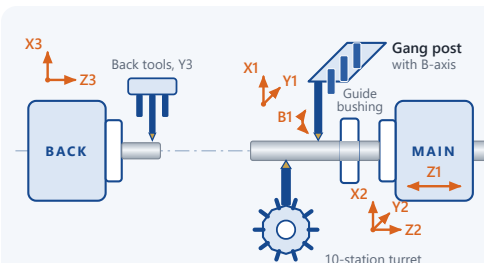
MAX LENGTH
3.9 in (100 mm)

MAIN TURRET
12 stations

Y-AXIS
Main turret

LIVE TOOLS
Main turret

SPINDLES
Main and back



Citizen Cincom M32

Swiss-type sliding-headstock lathe with B-axis, full 5-axis

BAR CAPACITY
1.26 in (32 mm)

MAX LENGTH
12.6 in (320 mm) per chucking

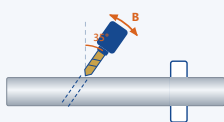
B-AXIS
Tilts through 150°

5-AXIS
Simultaneous

TOOL POSTS
Gang, turret, back

SPINDLES
Main and back

Guide bushing support for long, slender and small-diameter parts.



Work at an angle

The B-axis tilts live tools through 150° for angled holes, flats and slots.

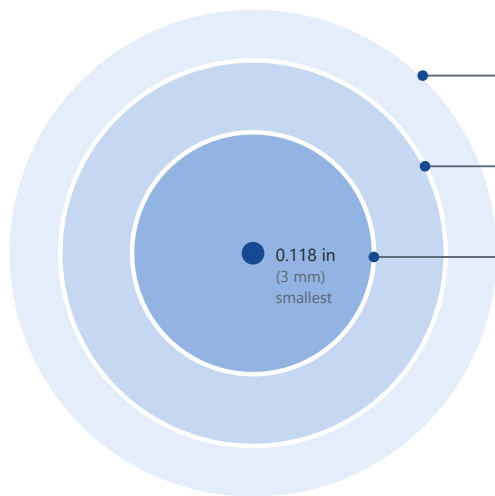


X Y Z B C
move together

Full 5-axis

X, Y, Z, B and C move together, for turbines, impellers and helical forms.

Bar capacity, actual size

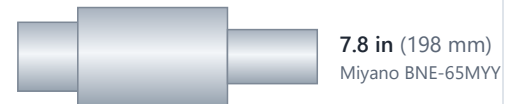


Circles print at actual size at 100% scale.

Longest part per chucking, drawn at 1:5



12.6 in (320 mm) per chucking
Citizen Cincom M32, Swiss-type



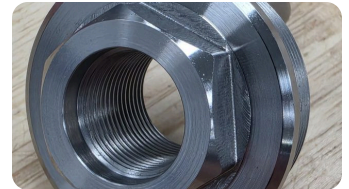
WHAT WE MACHINE

Turning first, with the features a lathe can add

- | | |
|--|--|
| <p> Multi-axis turning
Front and back of the part in one setup</p> <p> Threading
Internal and external, fine pitch and blunt-start threads</p> <p> Boring, grooving and forms
Undercuts, profiles and form tools</p> <p> Surface finish
32 microinch (0.8 µm) and better, straight off the machine</p> | <p> Live-tool milling
C-axis and Y-axis: flats, slots, hexes, cross holes, off-center features</p> <p> Small-hole drilling
Sharp-edge, burr-free holes produced in process</p> <p> Swiss-type turning
Long, slender parts, with B-axis and full 5-axis work</p> <p> Tolerances
±0.0005 in (±0.013 mm) routine, tighter by review</p> |
|--|--|



Live-tool milling on a turned part



Threads, hex and bores in one setup

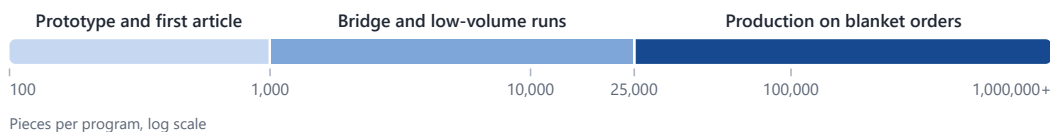
MATERIALS

Plastics to Inconel

- | | | | |
|---|--|--|--|
| <p> Aluminum
6061-T6 and other alloys</p> <p> Carbon and alloy steel
Shafts, pins and fittings</p> | <p> Brass and bronze
360 brass, leaded bronze</p> <p> Titanium
Strong and light</p> | <p> Copper alloys
Phosphor bronze, beryllium copper</p> <p> Nickel alloys
Including Inconel</p> | <p> Stainless steel
Including 316L and DFARS material</p> <p> Engineering plastics
Including PEEK</p> |
|---|--|--|--|

VOLUMES

From first article to full production



Production quantities, part after part

QUALITY

Measured, documented, traceable

-  **Print review**
Features, tolerances and notes reviewed before we quote
-  **First article on our Zeiss CMM**
Every print dimension measured, with capability data on toleranced features
-  **In-process gauging**
Mitutoyo digital micrometers and indicators, bore, pin, plug and thread gauges, optical comparator
-  **Lot inspection**
Sampling plan by lot; 100% visual where edges and burrs are critical
-  **Certs and traceability**
Mill certs with every lot, traceable through our ERP; formal Zeiss reports available



Mitutoyo QuantuMike digital micrometer at the bench

ALSO IN THE SHOP  Zeiss CMM  Horizontal band saw  Parts washing  In-house 3D printing

ENGINEERING AND SERVICE

Support from print to packed carton



Design for Manufacturability
Charged only when we make model or drawing changes, and only once you agree. Every hour is credited back against your production order.



Programming and process development
Multi-axis programs built and proven in house



Prototype through production
Blanket orders with scheduled releases



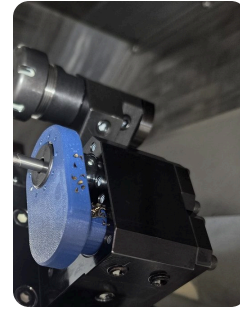
Outside processing
Heat treat, plating, passivation, anodize and tumbling through qualified vendors



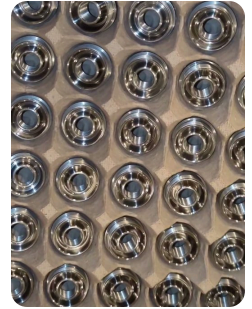
Washing and light assembly
Clean parts, assembled when the job needs it



Packaging
One part per cavity, so parts never touch in transit



3D-printed coolant nozzle, made in house



Packed one part per cavity

UNDER THE SAME ROOF

Extended capabilities through Burteck

PrimeCraft shares its Bloomfield facility with Burteck and has direct access to its equipment and specialists.

ONE BUILDING · 55 GRIFFIN RD S, BLOOMFIELD, CT



PrimeCraft

CNC turning, your point of contact

- Twin-spindle turning centers
- Swiss-type turning
- Zeiss CMM inspection
- Quoting, scheduling and shipping

Burteck LLC



Wire and sinker EDM
Keyways, splines, sharp corners, fine slots



Hard machining
Critical features after heat treat



5-axis machining
Features beyond live tooling



Advanced metrology
Tight-tolerance verification

Class 101 mold builder
ISO 9001:2015 certified
ITAR registered



Mold design and build
Production tooling, Class 101



Injection molding

EXAMPLE: A TURNED SHAFT THAT NEEDS AN INTERNAL KEYWAY, WITHOUT LEAVING THE BUILDING



Turned complete at PrimeCraft



Keyway cut by wire EDM at Burteck



Inspected and shipped by PrimeCraft

INDUSTRIES

Who we make parts for



Aerospace, sporting and defense



Connectors and electronics



Industrial controls and instrumentation



Energy and power



Optics and photonics



Contract support for manufacturers

Send us a print.

We will tell you how we would make it.

Request a quote: pcmachining.com/contact

✉ info@pcmachining.com

☎ 413-320-5802

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