

EQUIPMENT LIST

5 Axis CNC Machining Centers

DMU 85 monoBLOCK® 5-Axis Machining Center : with a 60 station ATC using HSK 63 **Tool holders**,
Blum LMT laser tool probe, 15,000 rpm Spindle, and with Heidenhain iTNC 640HSCI control
41" (1040 mm) Diameter x 23" (590 mm) High Rotary Table / Swivel range $\pm 120^\circ$
Travel: X, 47" (1200 mm) Y, 41" (1040 mm) Z, 25" (650 mm)

DMU 65 monoBLOCK® 5-Axis Machining Center : with a 60 station ATC using HSK 63 **Tool holders**,
Blum LMT laser tool probe, 18,000 rpm Spindle, and with Heidenhain Control
33" (840 mm) Diameter x 20" (500 mm) High Rotary Table / Swivel range $\pm 120^\circ$
Travel: X, 29" (735 mm) Y, 26" (660 mm) Z, 22" (560 mm)

CNC Turning

[Hankook VTC 200E](#): Vertical Boring Mill with live milling
100" \emptyset Swing x 60" high; 24 tool ATC

Hankook VTC 160E: Vertical Boring Mill with live milling
80" \emptyset Swing x 54" high; 24 tool ATC

Hankook VTC 140: Vertical Boring Mill with live milling
63" \emptyset Swing x 36" high; 24 tool ATC

Hankook VTB 140: Vertical Boring Mill
63" \emptyset Swing x 36" high

[Hankook VTC 100](#): Vertical Boring Mill with live milling
50" \emptyset Swing x 32" high; 24 tool ATC

[Doosan/Daewoo Puma 700 Lathe](#):
32" \emptyset Swing x 63"

(3) [Doosan/Daewoo Puma 400 Lathe](#):
Two turning center work-cell / one stand alone
22" \emptyset Swing x 38"

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Doosan/Daewoo 12LB Lathe:

20"Ø Swing x 42"

Hankook 7NB Lathe:

Equipped with steady-rests and 24" 4-jaw chuck and 18" 3-jaw chuck
24"/19"Ø Swing x 112"

(2) Doosan/Daewoo Puma 300B Lathe:

Two turning center work-cell
16"Ø Swing x 25"

Doosan/Puma 4100B Lathe:

22"Ø Swing x 42"

Doosan/Daewoo Puma 300MC Lathe:

Turning Center with live tooling
14"Ø Swing x 23"

Doosan /Puma TT 2500SY Lathe:

Twin spindles, twin turrets with live tooling, 10" chuck, 3" diameter bar feeder and parts catcher
13"Ø Swing x 20"

Doosan/Daewoo Puma 240C Lathe:

3" diameter bar feeder and parts catcher
10"Ø Swing x 17"

(2) Doosan/Daewoo Puma 200C Lathe:

Two turning center work-cell
10"Ø Swing x 17"

Doosan QL30H Lathe:

Twin spindles and robotic gantry loading
10"Ø Swing x 12"

Ansco Machine Company

60 Cuyahoga Falls Industrial Parkway • Cuyahoga Falls, OH 44264
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CNC Horizontal Machining Centers

Toyoda FH-450S HMC: with a 120 station ATC; **12 Pallet Flexible Manufacturing System**; 15,000 RPM CAT-40 spindle; full 4th axis ;

Part probing; Tool Breakage Detection System

Travel X, 23.62" (600 mm) Y, 23.62" (600 mm) Z, 23.62" (600 mm)

Makino A-92 HMC: with 92 station CAT-50 ATC; pallet changer; 10,000 RPM spindle; full 4th axis; part probing.

Travel X, 60" (1520 mm) Y, 50" (1250 mm) Z, 53" (1350 mm)

Makino A-82M HMC: with a 60 ATC; pallet changer; high-torque CAT-50 spindle; full 4th axis; part probing.

Travel X, 43" (1100 mm) Y, 33" (840 mm) Z, 40" (1020 mm)

Makino A-82 HMC: with a 60 ATC; pallet changer; 10,000 RPM CAT-50 spindle; full 4th axis; part probing.

Travel X, 43" (1100 mm) Y, 33" (840 mm) Z, 40" (1020 mm)

Makino A-81 HMC: with a 60 station ATC; pallet changer; 10,000 RPM CAT-50 spindle; full 4th axis; part probing.

Travel X, 35" (900 mm) Y, 33" (840 mm) Z, 40" (1020 mm)

(2) Makino A-51 HMC: with a 60 station ATC; pallet changer; 14,000 RPM CAT-40 spindle; full 4th axis; part probing.

Travel X, 22" (560 mm) Y, 22" (560 mm) Z, 23" (600 mm)

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CNC Vertical Machining Centers

[DMG-MORI NVX-5100 with CELOS control](#): with a 30 station ATC

Travel X, 41" (1050 mm) Y, 21" (530 mm) Z, 20" (510 mm)

[Toyoda BM 1600 VMC](#): with a 30 station ATC

Travel X, 26" (660 mm) Y, 52" (1320 mm) Z, 26" (660 mm)

[Hurco VM2 VMC](#): with a 20 station ATC

Travel X, 18" (460 mm) Y, 32" (810 mm) Z, 18" (460 mm)

[Doosan VC 510](#): with a 30 station ATC and pallet changer

Travel X, 30" (762 mm) Y, 20" (516 mm) Z, 22" (1259 mm)

[Brother TC324 Drill and Tap Center](#): with a 12 station ATC and pallet changer

Travel X, 16" (410 mm) Y, 24" (610 mm) Z, 12" (300 mm)

Quality

Mitutoyo Bright Apex 710 Coordinate Measuring Machine (CMM): 28" x 40" x 24" with motorized head. Fully programmable from solid models.

Romer Arm: a portable CMM with 9 foot reach. Works with solid models and provides automated data collection.

Faro Arm; a portable CMM with 4 foot reach. Works with solid models and provides automated data collection.

Mitutoyo 201J Profilometer

Krautkramer MIC-10 ultrasonic contact impedance hardness tester

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