

## From one-off parts to high-volume production, with high-mix and repeat-run CNC capability.

All linear capacities are shown in inches. CNC mill travel is listed as X x Y x Z. Turning capacities are shown as maximum diameter x length/centers.

### LARGE-FORMAT MILLING

**236 in. X-axis travel**

Largest listed milling travel

### VERTICAL TURNING

**70.9 in. dia. x 47.2 in. height**

VTL with live tooling

### HORIZONTAL TURNING

**23 in. dia. x 120 in. centers**

Y-axis live tooling + steady rest

### PRODUCTION MACHINING

**Multi-pallet CNC capacity**

4-pallet 5-axis + twin-pallet HMCs

### MATERIAL HANDLING

**Four 22,000-lb overhead cranes**

6,600-lb overhead crane + 2 jib cranes

## CNC MILLING - LARGE FORMAT, 5-AXIS & HORIZONTAL / MULTI-PALLET

Qty	Equipment	Capacity / Details	Notes
1	Nicolas Correa Multi-Axis Machining Center	236 x 44 x 62 in.	Large-format multi-axis milling platform
1	Johnford DMC-3100SH Double-Column Bridge Mill	122 x 70 x 31.5 in.	Large-format bridge milling
1	Matsuura MX-520 PC4 5-Axis VMC	24.80 x 22.04 x 20.07 in.	4-pallet 5-axis automation
1	Matsuura H.Plus-630 HMC	41.33 x 36.22 x 34.25 in.	Twin-pallet horizontal machining; rotary table
1	Mazak Nexus 4000-II HMC	22.05 x 24.80 x 25.20 in.	Twin-pallet horizontal machining; rotary table
1	Haas EC1600-ZT HMC	64 x 50 x 40 in.	Large horizontal capacity; rotary table

## CNC VERTICAL MACHINING CENTERS & ROTARY ACCESSORIES

Qty	Equipment	Capacity / Details	Notes
1	Haas VF-11	120 x 40 x 30 in.	Large-travel CNC vertical milling
1	Haas VF-6	64 x 32 x 25 in.	CNC vertical milling
1	STM S9 3-Axis VMC	63 x 31.5 x 29.5 in.	Large 3-axis CNC milling
1	STM S7 3-Axis VMC	51.2 x 27.5 x 27.5 in.	3-axis CNC milling
1	Haas VF-5SS	50 x 26 x 25 in.	High-speed vertical milling
1	Haas VF-3SS	40 x 20 x 25 in.	High-speed vertical milling
2	Haas VF-3	40 x 20 x 25 in.	Additional CNC milling capacity
2	STM S5 3-Axis VMC	39.37 x 20 x 20 in.	Additional 3-axis CNC milling capacity
2	Haas VF-2	30 x 16 x 20 in.	Additional CNC milling capacity
1	Haas VF-2SS	30 x 16 x 20 in.	High-speed vertical milling
2	Haas Super Mini Mill	16 x 12 x 10 in.	Compact CNC milling
2	Haas Programmable Rotary Tables	4th-axis capability	Rotary machining support
1	Trunnion-Style Rotary	Full 5-axis capability	Trunnion workholding support

**CNC turning, VTL, Wire EDM, inspection, lifting, and CAD/CAM support from one-off to high-volume production.**

## CNC TURNING CENTERS & VERTICAL TURNING LATHE

Qty	Equipment	Capacity / Details	Notes
1	You Ji YV-1600ATC+C VTL	70.9 in. max turning dia. x 47.2 in. height	C-axis; 20 HP live tooling; 1,000 PSI through-spindle coolant
1	SMEC Turning Center with Y-Axis Live Tooling	23 in. turn dia. x 120 in. centers	Long-bed turning; Y-axis live tooling; programmable steady rest
1	Haas SL-40	30 in. turn dia. x 44 in. centers	CNC turning
1	Haas ST-45	28 in. turn dia. x 44 in. centers	6.50 in. through-bore
1	Haas HL-6	25 in. turn dia. x 44 in. centers	CNC turning
1	Haas SL-30	17 in. cutting dia. x 34 in. turning length	48 in. bar feeder
1	Nakamura-Tome WT-150	Twin-spindle / twin-turret	Live tooling; 48 in. bar feeder
1	Haas SL-20	10.25 in. turn dia. x 24 in. centers	CNC turning
1	Haas SL-10	10 in. turn dia. x 14 in. centers	CNC turning

## WIRE EDM, GRINDING & SAWS

Qty	Equipment	Capacity / Details
1	AgieCharmilles CUT E 600 Wire EDM	Machine travel: 23.62 x 15.75 x 13.78 in.; work area: 40.55 x 31.50 x 13.58 in.
1	Chevalier FSG1640ADII Surface Grinder	16 x 40 in. table; precision surface grinding
1	HYD-MECH S-20A Horizontal Band Saw	Fully automatic horizontal band saw
1	KASTOTWIN A2 Horizontal Band Saw	Fully automatic horizontal band saw

## CONVENTIONAL & MANUAL EQUIPMENT

Qty	Equipment	Capacity / Details
3	Manual Vertical Mills	Up to 31 x 16.5 x 16.5 in.; quill up to 5 in. First LC-20VSG, First LC-20VHS, Forward 1050KV.
1	Tarnow TUJ-50M Engine Lathe	22 in. swing x 160 in. centers; conventional turning
1	Microweily TY-1630S Engine Lathe	16 in. swing x 30 in. centers; conventional turning
1	Sunnen Honing Machine	Honing capability; secondary machining support
Var.	Drill Presses	Manual drilling support

## INSPECTION & QUALITY ASSURANCE

Qty	Equipment	Capacity / Details
1	Zeiss Contura G2 CMM	39.3 x 63 x 23.6 in. measuring range; dimensional verification
1	Starrett Optical Measuring Projector	Optical inspection; fiber-optic capability
1	Electronic Surface Finish Gauge	Surface finish verification
1	Mitutoyo Pneumatic Height Gauge	Height measurement
1	Manual Hardness Tester	Hardness verification
1	Portable Hardness Tester	Portable hardness verification for in-process / large-part checks

## MATERIAL HANDLING & LIFTING

Qty	Equipment	Use / Details
4	22,000-lb Overhead Cranes	Primary overhead lifting for large workpieces, fixtures, and machine loading
1	6,600-lb Overhead Crane	Supplemental overhead lifting and staging
2	Jib Cranes	Machine-side setup, positioning, and load-assist support

## CAD/CAM & PROGRAMMING SUPPORT

Software / Capability	Details
Mastercam CAD/CAM	Multi-axis milling and live-tool turning programming support
SolidWorks	CAD model review, design support, and fixture support