



## CNC Vertical Machining Centers

### **HAAS VF-4SS, S/N 1172685 (2020)**

**5-Axis**

Table Size 50" x 20" x 25"; Through Spindle Coolant, 300 psi 21 bar; 5th Axis Drive and Wiring; Wireless Intuitive Probing System; Chip Auger; Programmable Coolant Nozzle; Automatic Air Gun; High Speed Machining 160 mm [6.3"] Tilting 2-Axis Trunnion Rotary Table

### **DMG DMU50 (2018)**

**5-Axis**

Table Size 19.7" x 17.7" x 15.7"; 5-Axis Simultaneous Machining with Rigid Swivel Rotary Table Swivel range of the B-axis -5/ +110°; 60 Pocket Tool Carousel, 20,000 RPM Spindle, 1,000 PSI Through Spindle Coolant

### **HAAS VF-4SS (2024)**

**4-Axis**

Table Size 50" x 20" x 25"; Through Spindle Coolant, 300 psi 21 bar; 4th Axis Drive and Wiring; Wireless Intuitive Probing System; Chip Auger; Programmable Coolant Nozzle; Automatic Air Gun; High Speed Machining 210 mm Rotary Table; 8" Top Reversible; 3 Jaw Chuck; Manual Tail Stock 6"

### **HAAS VF-4SS (2022)**

**4-Axis**

Table Size 50" x 20" x 25"; Through Spindle Coolant, 300 psi 21 bar; 4th Axis Drive and Wiring; Wireless Intuitive Probing System; Chip Auger; Programmable Coolant Nozzle; Automatic Air Gun; High Speed Machining 210 mm Rotary Table; 8" Top Reversible; 3 Jaw Chuck; Manual Tail Stock 6"

### **HAAS DM-2, S/N 1162302 (2019)**

**4-Axis**

Table Size 28" x 16" x 15.5"; 4th Axis Drive and Wiring; Wireless Intuitive Probing System, Renis; Automatic Air Gun; Chip Auger; High Speed Machining; 210 mm Rotary Table; 8" Top Reversible; 3 Jaw Chuck; Manual Tail Stock 6"

### **HAAS VF-3SS, S/N 1152118 (2019)**

**4-Axis**

Table Size 40" x 20" x 25"; Through Spindle Coolant, 300 psi 21 bar; 4th Axis Drive and Wiring; Wireless Intuitive Probing System; Chip Auger; Programmable Coolant Nozzle; Automatic Air Gun; High Speed Machining 210 mm Rotary Table; 8" Top Reversible; 3 Jaw Chuck; Manual Tail Stock 6"

### **HAAS VF-3SS, S/N 1162224 (2018)**

**4-Axis**

Table Size 40" x 20" x 25"; Through Spindle Coolant, 300 psi 21 bar; 4th Axis Drive and Wiring; Wireless Intuitive Probing System; Chip Auger; Programmable Coolant Nozzle; Automatic Air Gun; High Speed Machining 210 mm Rotary Table; 8" Top Reversible; 3 Jaw Chuck; Manual Tail Stock 6"

### **HURCO VM2, S/N VM2-06006073AEA**

**3-Axis**

Table Size 18" x 46", Hurco CNC Control w 12" LED Display; 16 Position Automatic Tool Changer; Spindle Speed 6000 rpm, Spindle Type CAT 40; 4th Axis Capability

## Vertical Milling Machines

### **REPUBLIC LAGUN FTV-2**

Table Size 10" x 50"; Variable Spindle Speed (Two Steps); One Shot Lubrication; Work Light; Spindle Type R-8; 16 R-8 Collets; Main Motor 2.2 kW Approximately 3 hp; Acu-Rite 3 Axis Digital Read Out; Servo Longitudinal Power Feed

### **BRIDEPORTE Series 1, S/N E5276**

Table Size 9" x 42"; Step Pulley Variable Speed Head 67 to 2720 (8 Steps ); One Shot Lubrication; Work Light; Spindle Type R-8; 16 R-8 Collets; Main Motor 2 HP; Acu-Rite 2 Axis Digital Read Out; Bridgeport Longitudinal Power Feed; Bridgeport Slotting Attachment w Slotting; Rates 70 to 420 (6 Steps) spm



**OKUMA GENOS L25011-e S/N SKND1191 S/N: 179811**

8" Chuck, 5C Collet Okuma OSP CNC Controls  
12 Position Turret; Hydraulic Chuck; Chip Conveyor, 1.75" Thru Spindle

**OKUMA Genos L3000-e**

10" Chuck, Maximum Swing Approximately 13" D x 20.5" C  
12 Position Turret; Hydraulic Chuck; Chip Conveyor, 2.75" Thru Spindle

**OKUMA Genos L3000-e**

10" Chuck, Maximum Swing Approximately 13" D x 20.5" C  
12 Position Turret; Hydraulic Chuck; Chip Conveyor, 2.75" Thru Spindle

**OKUMA Space Turn LB4000EXII-M S/N: 179811**

15" Chuck, Maximum Swing Approximately 25" D x 30" C; Okuma OSP CNC Controls  
12 Position Turret; Live Tooling, Hydraulic Chuck; Chip Conveyor, 4" Thru Spindle

**OKUMA Space Turn LB4000EXII-M S/N: 181784**

15" Chuck, Maximum Swing Approximately 25" D x 30" C; Okuma OSP CNC Controls  
12 Position Turret; Live Tooling, Hydraulic Chuck; Chip Conveyor, 4" Thru Spindle

**OKUMA Space Turn L3000EXII-MYW S/N: MYW198**

15" Chuck, Maximum Swing Approximately 25" D x 30" C; Okuma OSP CNC Controls  
12 Position Turret; Live Tooling, Hydraulic Chuck; Chip Conveyor, 4" Thru Spindle, Sub Spindle

**OKUMA ES-L6, S/N D0186**

Maximum Swing Approximately 16" D x 12" C; Okuma OSP-U10L CNC Controls w 9" LCD Monochrome Display;  
12 Position Turret; Collet Hydraulic Chuck; Chip Conveyor

**OKUMA LB35II, S/N 613**

Maximum Swing Approximately 20" Okuma OSP CNC Control w 9" LCD Monochrome Display; 12 Position Turret;  
12" Chuck, 76" Between Centers, 3" Thru Spindle

**OKUMA CROWN 1420 S/N 0348**

Maximum Swing Approximately 16"D x 24" C; Okuma CNC Control w 9" CRT Display Monochrome; 12 Position Turret;  
15" Chuck, 30" Between Centers, 3.5" Thru Spindle

**OKUMA LNC8, S/N B838**

Maximum Swing Approximately 20" D x 30 C; Okuma OSP700L CNC Control w 9" LCD Monochrome Display;  
12 Position Turret; 10" Diameter Three Jaw Chuck; Hennig Chip Conveyor

**OKUMA LNC8, S/N B040**

Maximum Swing Approximately 20" D x 30 C; Okuma OSP700L CNC Control w 9" LCD Monochrome Display;  
12 Position Turret; 10" Diameter Three Jaw Chuck; Hennig Chip Conveyor

**OKUMA LNC8, S/N D687**

Maximum Swing Approximately 16"D x 24" C; Okuma CNC Control w 12" CRT Display Monochrome; 12 Position Turret;  
10" Diameter Kitagawa Three Jaw Chuck; Hennig Chip Conveyor

## **MAZAK Quick-Turn QT-N-20-UNIV, S/N 135674**

Maximum Swing Approximately 16" Diameter, Mazatrol CNC Control  
12 position Turret; 10" Diameter Three Jaw Chuck; Chip Conveyor; Collet Chuck



## **Manual Lathes**

### **HARDINGE Second Operation Lathe**

Maximum Swing Approximately 8" D x 16" C w Collett

### **HARDINGE Second Operation Lathe HC**

Maximum Swing Approximaately 12" D x 13" C; Eight Position Cross Feed; Manual Index

### **MONARCH 10EE**

Maximum Swing 12 1/2" D x 0" C; Spindle Variable Speed w Motor Generator DC Supply; Aloris BXA Tool Post w Two Tool Holders; Collet Chuck for 5C Collets; Trav-A-Dial; Work Light

### **VICTOR 1640**

Maximum Swing 16" x 40" C, Spindle Speed 60 to 1800 rpm (16 Steps); Aloris CX Tool Post w Six Tool Holders; Worklight; Collet Chuck w Approximately 100 5C Collets and 30 Special Collets, AcuRite 2 Digital Read Out

## **Quality Control**

**Climate Controlled Lab Separate From Shop**

**Zeiss Contura 7/10/6 CMM using Calypso Software and a Vast XXT Probing Head**

**Zeiss Duramax HTG CMM using Calypso Software and a Vast XXT Probing Head**

**Sherr Tumico 20-3500 Optical Comparator**

**Keyence IM 8010 Image Dimension Measurement System**

### **Complete Sets of Gages and Measuring Equipment**

Thread Gages, Ring Gages, Bore Gages, Measuring Instruments, Digital Height Gages, Multiple Precision Granite Measuring Surfaces, Round Reference Gages, Rectangular Reference Gages

**Mitutoyo Linear Digital Height Gauge Model 600 (0-24")**

**Tesa Linear Digital Height Gage Model 400 (0-16")**

**Mitutoyo Digimatic Digital Height Gauge (0-18")**

## **Miscellaneous**

### **AMADA Horizontal Bandsaw HA250 (1" BLADE)**

Maximum Capacity 10" D and 11 3/4" W; Fully Automatic w Parts Counter; 10" W x 10' Length in Feed Conveyor; Main Motor 2.2 kw Approximately 3 HP

### **AMADA Horizontal Bandsaw HA250W (1 1/4" BLADE)**

Maximum Capacity 13" D and 15" W; Fully Automatic w Parts Counter; 20" W x 10' L in Feed Conveyor; Main Motor 3.7 kw Approximately 5 HP



**DO ALL Vertical Bandsaw, S/N 148-66937**

Table Size 24" Square w 24" x 24" Extension, Throat Depth 16"

Blade Speed Variable; Blade Speed Indicator

**DRAKE 1 1/2" Arbor Press**

**DuraPress Hframe Press**

**MILLER Syncrowave 250 Amp Welder**

**THOMPSON Surface Grinder**

Table Size 8" x 32"; OS Walker Electro Magnetic Chuck 8" x 24"; Max Stone Size 1" x 10"

**TRINCO Blasting Cabinet 36/BP**

**ULTRA MATIC Deburring Machine**

**Yale GLC050 Forklift, S/N 546810**

**Laser Marking / Engraving**

MR65 5" Rotary (includes expansion box)and D65 Rotary Cable;