

Machining Equipment List 9/20

CNC Swiss Type Machines

Citizen B-12, 3 axis, 1/2" max spindle capacity, magazine bar loaders

Citizen L-20 VII, live tools, 7 axis, 3/4" max spindle capacity, high pressure coolant, magazine bar loaders (2)

Citizen L-20 VIII, live tools, 7 axis, 3/4" max spindle capacity, high pressure coolant, magazine bar loader

Citizen A-20 2F7PL, live tools, 7 axis, 3/4" max spindle capacity, high pressure coolant, magazine bar loader (6)

Citizen A-32, live tools, 7 axis, 1-1/4" max spindle capacity, high pressure coolant, magazine bar loaders (5)

Citizen L-12, live tools, 7 axis, 1/2" max spindle capacity, high pressure coolant, magazine bar loaders (2)

Citizen L-20 X, live tools, 8 axis, 3/4" max spindle capacity, high pressure coolant, magazine bar loaders

Tsugami SS26, live tools, 8 axis, 1" max spindle capacity, high pressure coolant, magazine bar loader (also chucker)

CNC Multi-Axis Lathes

Nakamura WTS-150, 2 upper and one lower turret, live tools, 1 5/8" max spindle capacity, Y axis on upper turrets, sub-spindle, high pressure coolant, magazine bar loaders (2)

Nakamura NTY3, 2 upper and one lower turret, live tools, 1 5/8" max spindle capacity, Y axis on all three turrets, subspindle, high pressure coolant, magazine bar loaders (5)

Nakamura WT-150, live tools, 2" max spindle capacity, one upper and one lower turret, Y axis on upper turret, subspindle, high pressure coolant, magazine bar loader (2)

Nakamura NTM3Y

Mori Seiki SL2500Y turning center, 4 axis machining, Y axis control

Miyano BNX

Miyano BNE

Murata MT-200 Lathe 2.5" spindle, 3 turret

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CNC Lathes

Haas SL-10, 16C collet chuck, 6" 3 jaw chuck (2)

Hyundai HIT 8F, 16C collet chuck, 6" 3 jaw chuck, high pressure coolant

Okuma LB15-1SC CNC turning center

Haas TL-1 Manual/CNC 2 axis lathe

Prodigy 1" max spindle, bar feeder

Hwacheon lathe Hi Tech 200A

Rotary Transfer

Hydromat HW25-12 transfer machine, 25mm capacity 12 stations

Acme Gridley

7/16" RA-6 (7)

9/16" RA-6 (2)

9/16" RA-6 spindle stop

1" RAN-6 (5)

1" RA-6 spindle stop (3)

1 1/4" RA-6 (4)

1 1/4" RA-6 spindle stop (2)

1 1/4" Acme Chucker

2" RA-6 (2)

2 5/8" RA-6

Precision Vertical Machining Equipment

Okuma MC-4VA vertical machining center 6000 rpm spindle (16" x 34" table) 20 position tool magazine

Okuma MC-40VA vertical machining center 6000 rpm spindle (16" x 34" table) 20 position tool magazine (1) OKK MCV 520 vertical machining center 20" x 40" travel 30 position tool magazine

Mori Seiki 503/B40 10,000 rpm, 20" x 40", 30 tools.

Haas VF-OE, 7500rpm spindle, 20" X travel, 16" Y travel, 20" Z travel, thru spindle coolant, 4th axis rotary indexer

Fanuc Robo-Drill, 10,000 rpm spindle, 19.5" X travel, 15.75" Y travel, 13" Z travel, 4th axis rotary indexer, 10 tools

Fanuc Robo-Drill, 12,000 rpm spindle, 19.5" X travel, 15.75" Y travel, 13" Z travel, 4th axis rotary indexer, 14 tools

Milltronics VM 17, 8000 rpm spindle, 20" X travel, 16" Y travel, 20" Z travel, Haas 4th axis rotary indexer

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Fanuc Robo-Drill, 15,000 rpm spindle, 27.5" X travel, 14.5" Y travel, 12" Z travel (2)

Fanuc Robo-Drill, 8000 rpm spindle, 19.5" X travel, 15.75" Y travel, 13" Z travel, Haas 4th axis rotary indexer, thru the spindle coolant,

Kitamura Mycenter 1Xif, 15,000 rpm spindle, 20" X travel, 14" Y travel, 16" Z travel, spark changer pallet, thru the spindle coolant

Haas Mill Multi axis with Fanuc Robot and conveyor load/unload

Rotary Indexers

Haas HRT210

Haas HA5C (2)

Precision Horizontal Machining Equipment

Okuma MA600-HB 600 MM horizontal machining center

Okuma MX-40HA 400 MM horizontal machining center 12,000 rpm spindle, 40 position tool magazine

Tsugami MA-3 lightning horizontal four axis machining center 4000 rpm spindle, pallet loader with 10 pallet capacity

Makino A-51 horizontal machining center 12,000 rpm spindle w/through the spindle coolant, pallet changer, 60 position tool magazine