Chanute, KS 66720 Ph. 620-431-0284 Fx. 620-431-0284

validmachinery@hotmail.com http://www.validmachinery.com

# NEW VALID VT-1000 VERTICAL LATHE



The Valid VT-1000 CNC Vertical Lathe is the result of several years of collaboration between Valid Machinery of the United States and Precursor Tech Co. LTD. of Taiwan. The VT-1000's ram-type fixed-rail design is inspired by the strength and durability of vertical turret lathes and boring mills from around the world with a special focus on the U.S. models. The latest manufacturing methods are utilized in building Valid machines and we believe them to be among the most advanced and rugged in the world, as well as affordable.



Chanute, KS 66720 Ph. 620-431-0284 538 Fx. 620-431-0284 validmachinery@hotmail.com

http://www.validmachinery.com

## **MACHINE CONSTRUCTION:**

The Valid VT-1000's cross-ribbed castings are stress relieved meehanite. The cross rail box-type ways are hardened and ground and tapered gibs are utilized. Composite is applied to the mating surfaces in order to reduce friction and increase longevity.







Chanute, KS 66720 Ph. 620-431-0284 Fx. 620-431-0284 otmail.com

validmachinery@hotmail.com http://www.validmachinery.com

The table spindle has an A2-15 spindle nose and the spindle bearings are NN-type precision. Surrounding the spindle nose is the excellent NSK model 610TMP 7102A thrust bearing that provides tremendous stability for the 39.3" chuck and 19,800 lb. table load capacity.



The unique multi-faceted ram is designed for rigidity and precision. The massive ram saddle is lined with composite to insure smooth operation of the Z-axis and the dual gib arrangement provides additional strength.





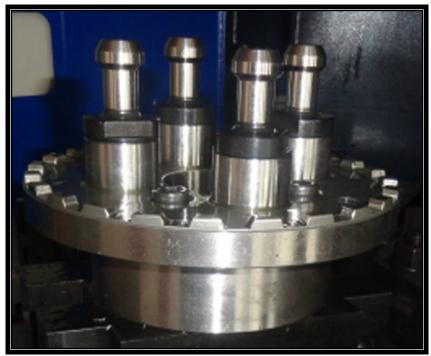
Leoti, KS 67861 Ph. 620-375-2513

Chanute, KS 66720 Ph. 620-431-0284 Fx. 620-375-4538 Fx. 620-431-0284 validmachinery@hotmail.com

http://www.validmachinery.com

Many thousands of pounds of retention force are generated by the quad-pin tool retention system and interlocking teeth between the ram and tool holder plate.



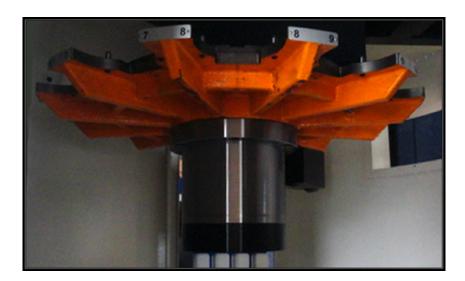




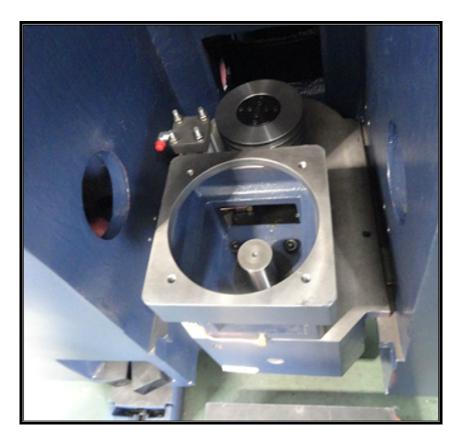
Chanute, KS 66720 Ph. 620-431-0284 Fx. 620-431-0284 tmail.com

validmachinery@hotmail.com http://www.validmachinery.com

The Automatic Tool Changer System has 12 stations and is attached to the cross-rail. Tool changes are fast and vibration-free.



The table spindle-drive transmission has a 1:2 ratio for high and a 1:6 ratio for low. Torque output is increased three and nine times respectively. Timing belts are used to transmit power to the table on the standard model. A ring-gear and pinion drive is available as an option. Transmission oil temperature is stabilized by a chiller unit.





Chanute, KS 66720 Ph. 620-431-0284 Fx. 620-431-0284

validmachinery@hotmail.com http://www.validmachinery.com

## **SPECIFICATIONS:**

### **CAPACITY**

 Max. swing diameter
 47.24" (1200 mm)

 Max. turning diameter
 47.24" (1200 mm)

 Max. turning height
 39.37(1000 mm)

 Table diameter
 Ø39.37(Ø1000mm)

 Max. table load
 19,800 lbs (9,000 KGS)

### **SPINDLE**

Spindle motor type FANUC α30i/6000 Motor output (30 min.) FANUC α30i/6000 183.9 ft-lb(249.1 NM)

Horsepower 50 HP Gear ranges 2

Spindle speed range 1-250; 2-750 rpm Thrust Bearing NSK 610TMP7102A

#### X & Z AXIS

 Max. X-axis travel
 45.28" (1,150 mm)

 Max. Z-axis travel
 39.7" (1,000 mm)

 X axis rapid
 393 IPM(10 m/min)

 Z axis rapid
 590 IPM(15 m/min)

X-axis servo motor FANUCα40i; 6 KW (8 HP) Z-axis servo motor FANUCα40i; 6 KW (8 HP)

### **TOOL MAGAZINE**

Magazine capacity 12

Tool holder coupling

Driven type Servo motor indexing

Maximum tool length 19.7" (500 mm)
Maximum tool weight 88 lbs (40 kgs)

Tool change time pocket to pocket 1 Sec

#### **GENERAL**

Coolant tank capacity 50 gallons

Power requirement 208/3/60 + or - 10%; 60 KVA Machine weight 33,000 lbs (15,000 KGS)

Dimension L x W x H 98"x138"x177" (2500x3,500x4500 mm)



Chanute, KS 66720 Ph. 620-431-0284 Fx. 620-431-0284

validmachinery@hotmail.com http://www.validmachinery.com

## **STANDARD EQUIPMENT:**

#### **ACCESSORIES**

Auto lubrication with pressure detection sensor C3 class ball screws with pretension on all axes

145 PSI Coolant pump (Walrus)

(2) Additional coolant pumps for chip wash down and removal

Coolant through ram

Chip conveyor

Door interlock

Enclosed splash guards

Air conditioner for electrical cabinet

Precision leveling kit

High intensity work light

Hydraulic system

M code controlled air blower

M code automatic power off

Maintenance tool kit

Water spread gun

Way covers for all axes

Operation & maintenance manuals

Gear box & Oil chiller

Oil coolant separator

3 color cycle lights

4 Boring mill jaws

39.3" 4-Jaw chuck

### **TOOL HOLDER PACKAGE**

Tool Type	Dimension	Quantity
OD tool holder	32 mm (V1081104)	4
ID tool holder	Ø3" (V1085012)	1
ID tool holder	Ø2.5" (V1085020)	2
ID tool holder	Ø2" (V1085021)	1

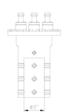
V1081104

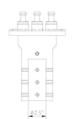
V1085012

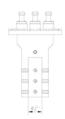
V1085020

V1085021











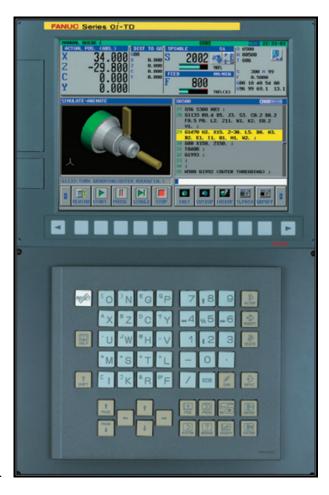
861 Chanute, KS 66720 2513 Ph. 620-431-0284 2538 Fx. 620-431-0284 validmachinery@hotmail.com

validmachinery@hotmail.com http://www.validmachinery.com

## **CONTROL:**

### **FANUC OI-TD CONTROL FEATURES**

Fanuc AC α servo drive & motors Front memory card slot 10.4" color LCD monitor 640 M (256 KB) Part program memory 400 set register program no. 64 sets tool offset Auto power off Custom Macro B Canned cycle Run hour and parts counter Rigid tapping RS-232 interface Skip signal G31 Tool life management Multiple language support Servo HRV3 control



<sup>\*</sup>Representative photo. Actual control may appear differently.



Chanute, KS 66720 Ph. 620-431-0284 Fx. 620-431-0284

validmachinery@hotmail.com http://www.validmachinery.com

## **PRICING:**

**VALID VT-1000 VERTICAL LATHE:** \$339,900.00

### **AVAILABLE OPTIONS:**

CNC side head	P.O.R.
Live Spindle, C axis and Coolant through the spindle <sup>2</sup>	P.O.R.
Geared Table Drive	P.O.R.
39.3" 3- Jaw Power Chuck	P.O.R.
Double Z-axis <sup>3</sup>	P.O.R.

#### **WARRANTY:**

1 Year limited warranty on machine

2 Years limited warranty on Fanuc control & components

### **TERMS:**

30% down; 60% prior to shipment; 10% upon completion of installation

THANK YOU. SINCERELY,

#### STEVE KRENZEL

Price and specifications are subject to change without prior notice.

Valid Machinery USA, subsidiary of D & S Equipment, is the exclusive North American importer for the Valid Machinery line. Valid Machinery USA warehouse is located in Oklahoma City, OK.

<sup>&</sup>lt;sup>1</sup> The optional CNC Side Head has a horizontal ram travel of 21.6" and its saddle has a vertical stroke of 31.4". The square tool post is 7.5" x 7.5".

<sup>&</sup>lt;sup>2</sup> The optional CT-50 Live Spindle for the ram has sufficient power for drilling a 2.5" hole in mild steel. The c-axis and 2-piece braking system provide accurate indexing of the work-piece and coolant through the spindle is available.

<sup>&</sup>lt;sup>3</sup> The optional Double Z-axis allows up to 57" ram height & boring bar clearance.

Leoti, KS 67861 Ph. 620-375-2513

Chanute, KS 66720 Ph. 620-431-0284 Fx. 620-375-4538 Fx. 620-431-0284 validmachinery@hotmail.com

http://www.validmachinery.com

# **MACHINE FOOTPRINT:**

