



MANFORD MACHINERY, INC.

4230 E Airport Dr. Ste 105. Ontario, CA 91761
Tel: (909) 923-5520 Fax: (909) 923-5509

P.O.Box 7002 West Orange, NJ 07052
Tel: (201) 729-1100 Fax: (201) 729-1155

[URL:www.manford-usa.com](http://www.manford-usa.com) [e-mail:sales@manford-usa.com](mailto:sales@manford-usa.com)

Machining Center MODEL: VH-1100

MACHINE FEATURES

- **Mitsubishi M70-2A (8" LCD)**
- **SJ-V-11-01ZT 8000rpm 7.5/11Kw(15HP) Spindle Motor**
- **CAT40 Spindle Taper**
- **Belt drive 8,000 rpm spindle speed**
- **Armless Genoa type 20 tools ATC**
- Super grade Tucite-B On X/Y/Z Slide-ways
- Hardened & Ground X&Y&Z Slide-ways
- 40mm,C3 Double nut precision ballscrews
- Meehanite Casting with annealed & stress relieved
- 100% Laser tested for positioning accuracy & repeatability
- Ball Bar tested for circular interpolation accuracy
- High pressure water scour for chip removal
- Telescopic steel way cover on three axes
- Tool box & Tools
- Coolant System and air blast system
- Central lubrication system, auto power off
- Built-in Quartz work light and Alarm lamp
- 4 Solid box ways construction provides rigidity & accuracy
- Y travel 700mm provides superior rigidity and stability
- Rigid tapping
- Full enclosure
- Remote Hand Wheel



Specification:

Table:

Longitudinal travel (X axis):

Cross travel:

Vertical travel:

Spindle nose to table top (D):

Load capacity:

Spindle taper:

Spindle Speed (r. p.m.):

Transmission of spindle & motor:

Spindle center to column front surface:

25.6" x 51.2" (650 x 1300mm)

43.3" (1100mm)

27.5" (700mm)

24" (610mm)

5.1"-29.1" (130-740mm)

2205 lb (1000 Kg)

CAT40

(60Hz) 8,000 rpm

Belts

28.7" (730 mm)

Feed Rate:

Rapid feed rate:

Cutting feed rate:

X/Y: 945 ipm Z: 591 ipm

1-394 ipm

Motor:

Spindle motor:

Feed motors on XYZ:

Coolant pump:

Lubrication pump:

Power requirement:

15HP ,SJ-V-11-01ZT 8000rpm 7.5/11Kw

HF354

0.75Kw

80W

20 KVA

Automatic Tool Changer

No. of tools:

Max. tool diameter:

20

Full:3.9" (100 mm) Next empty:5.9"(150mm)



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Max. tool length: 11.8" (300 mm)
 Max. tool weight: 15.4 lb (7 Kg)
 Length X Width X Height (LXWXH): 118" x 112.2" x 122"
 (3000mm x 2825mm x 3100mm)
 Net Weight: 15,400 lbs. (7000 Kgs)

**CNC VERTICAL MACHINEING CENTER
 (BOX WAY)**

MODEL	SPINDLE	Travel X/Y/Z 43.3"/27.5"/24"		ATC Arm Type	CNC SYSTEM	SPINDLE MOTOR	AXES MOTOR	FOB Ontario,CA
VH-1100	CAT40	8000 RPM	BELT	Genoa 20	M70-2A	SJ-V-11-01ZT 8000rpm 7.5/11Kw	HF354	\$71,000
VH-1100	CAT50	6000 RPM	BELT	Genoa 20	M70-2A	SJ-V-11-01ZT 8000rpm 7.5/11Kw	HF354	\$78,000
VHG-1104	CAT40	8000 RPM	GEAR HEAD	Genoa 20	M70-2A	SJ-V-11-01ZT 8000rpm 7.5/11Kw	HF354	\$78,000
VHG-1105	CAT50	6000 RPM	GEAR HEAD	Arm 24	M70-2A	SJ-V-15-01ZT 8000rpm 11/15Kw	HF354	\$97,000

CNC SYSTEM OPTION:

ITEM	SCREEN	SPINDLE MOTOR	AXIS MOTORS	SUIT FOR MODEL	Extra US\$
Fanuc 0i-MD Package A	10.4" LCD	A8i/8000 (7.5/11Kw) 15HP	A12/3000ix3 (3Kw)	VH-1100 VHG-1104 VHG-1105	\$9,400

STANDARD ACCESSORIES:

Tools & box	Full guarding	Heat Exchange for electrical cabinet
Leveling bolts & plate	Rigid tapping	Auto Lubrication (Box way type)
RS-232 Interface	Auto Power off	Halogen work light
Operation manual	End of program light	Remote Hand wheel

OPTIONAL FOR CNC FUNCTION:

BRAND	MODEL	SPECIFICATION	Extra US\$
Fanuc	0iMD(A/B)	DATA SERVER	\$1,500
	0iMD(A/B)	ETHERNET	\$1,500
	0iMD(A)	AICC (look ahead 40 blocks)+ Bell-shaped acceleration./deceleration before cutting feed interpolation +Bell-shaped acceleration./deceleration after cutting feed interpolation	\$1,500
	0iMD(A)	AICC I (look ahead 200 blocks)+ Bell-shaped acceleration./deceleration before cutting feed interpolation +Bell-shaped acceleration./deceleration after cutting feed interpolation	\$3,200
	0iMD(A)	FANUC spindle motor A12i/7000(20HP) I.O. A8i/8000(15HP)	\$2,100



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	0iMD(A)	FANUC spindle motor A15i/7000(25HP) I.O. A12i/7000(20HP)	\$1,400
	0iMD(A)	FANUC spindle motor A18i/7000(30HP) I.O. A12i/7000(20HP)	\$3,400
	0iMD(B)	4th axis servo motor B8/3000is with driver (for CNC-170R~250R)	\$2,500
	0iMD(B)	4th axis servo motor B12/3000is with driver (for CNC-170R~250R)	\$3,800
	0iMD(B)	4th axis servo motor A4/3000is with driver (for CNC-170R~250R)	\$5,500
	0iMD(B)	4th axis servo motor A8/3000is with driver (for CNC-170R~250R)	\$6,000
	0iMD(B)	4th axis servo motor A12/3000is with driver (for CNC-320R)	\$6,500
	0iMD(B)	4th axis servo motor A22/3000is with driver (for CNC-400R~500R)	\$7,600
	ALL	2GMB CF card with PCMCIA interface	\$170
Mitsubishi	M70	Spindle motor 7.5/11KW(15HP) I.O. 5.5/7.5Kw(10HP)	\$1,200
	M70	Spindle motor 11/15KW(20HP) I.O. 7.5/11Kw(15HP)	\$1,400
	M70	4th axis servo motor HF-54T with driver (for CNC-170R/CNC-200R)	\$1,400
	M70	4th axis servo motor HF-104T with driver (for CNC-250R)	\$1,600
	M70	4th axis servo motor HF-204S with driver (for CNC-320R)	\$2,000
	ALL	2GMB CF card with PCMCIA interface	\$170

STANDARD ACCESSORIES:

Tools & box	Full guarding	Heat Exchange for electrical cabinet
Leveling bolts & plate	Rigid tapping	Auto Lubrication (Box way type)
RS-232 Interface	Auto Power off	Halogen work light
Operation manual	End of program light	Remote Hand wheel

OPTIONAL ACCESSORIES (EXTRA CHARGE THAN STANDARD)

SPECIFICATION	SUITABLE FOR MODEL	PRICE
BT40/10000rpm belt type spindle with spindle oil cooler	VH-1100/1300	\$3,500
BT40/12000rpm belt type spindle with spindle oil cooler	VH-1100/1300	\$4,600
BT50/8000rpm belt type spindle	VH-1100/1300(BT50)	\$700
BT40/12000rpm Direct type spindle (no CTS) with spindle oil cooler (M70)	VH-1100/1300(15HP)	\$6,200
BT40/15000rpm Direct type spindle (no CTS) with spindle oil cooler (M70)	VH-1100/1300 (15HP)	\$12,100
BT40/12000rpm Direct type spindle (no CTS) with spindle oil cooler (0iMD A)	VH-1100/1300(A8/12000rpm)	\$10,300
BT40/15000rpm Direct type spindle (no CTS) with spindle oil cooler (0iMD A)	VH-1100/1300(AT8/15000rpm)	\$15,500
Spindle oil cooler (4000BTU)		\$1,400
Spindle oil cooler (6000BTU)		\$2,100
BT40 Arm type 24 tool ATC extra	VL/VH-610~VH-1300	\$4,600



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BT40 Arm type 30 tools ATC extra	VL/VH-850~VH-1300	\$5,600
BT40 Chain type 32 tools ATC extra	VL/VH-850~VH-1300	\$9,000
BT50 Arm type 24 tools ATC I.O. BT 50 Genoa 20 tools	VH-1100/1300 (BT50)	\$7,400
BT50 Chain type 32 tools ATC I.O. BT 50 Genoa 20 tools	VH-1100/1300 (BT50)	\$9,800
Screw type chip conveyor with chip bucket	VH-1100/1300	\$1,000
Steel-belt type chip conveyor with chip bucket	VH-1100/1300	\$2,900
Scraper type chip conveyor with chip bucket	VH-1100/1300	\$3,800
Rear guarding	VH-1100/1300	\$1,000
Top cover	VH-1100/1300	\$600
Coolant through spindle center close loop 30BAR (simple, without tank, 2 filters)		\$4,700
Coolant through spindle center close loop 70BAR (Tank 300L, 1 filter)		\$6,200
Rear side coolant wash for chip removal		\$700
Left & Right side coolant wash for chip removal		\$700
Oil skimmer		\$600
Oil through tool holder		\$700
Air conditioner for electrical box (2000BTU)		\$1,400
CE/CSA electricity extra with interlock ready for front door		\$2,000
Heidenhain Linear Scale (3-axis) VH1100 (LC183/193F)		\$11,600
Tool length measurement TS-30 (Marposs)		\$1,500
Tool length measurement ML-75 (Marposs laser tool setter)		\$6,700
Tool length measurement ML-85 (Marposs laser tool setter)		\$7,000
Tool length measurement TS-27R (Renishaw)		\$2,700
Workpiece measurement RMP60 (Renishaw Radio system)		\$11,500
Workpiece measurement OMP40 (Renishaw infrared ray system)		\$9,200
Workpiece measurement OMP60 (Renishaw infrared ray system)		\$11,000
Workpiece measurement E-83WA(Marposs infrared ray system)		\$6,700
Workpiece measurement E-86N (Marposs Radio system)		\$7,800
Air gun		\$40
Coolant gun		\$40
Transformer 20 KVA		\$1,000
Transformer 25 KVA		\$1,400
Transformer 30 KVA		\$1,800
4th Axis wire ready only (No motor/drive/rotary)		\$1,200



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AR125R rotary table, manual scroll 6", manual tailstock TJ-125, and cable (w/o servo motor & driver)	\$5,900
AR170R rotary table, manual scroll 8", manual tailstock TJ-170, and cable (w/o servo motor & driver)	\$6,800
AR210R rotary table, manual scroll 8", manual tailstock TJ-210, and cable (w/o servo motor & driver)	\$7,700
AR250R rotary table, manual scroll 8", manual tailstock TJ-255, and cable (w/o servo motor & driver)	\$8,000
CNC-120R rotary table, manual scroll 4", manual tailstock, and cable (w/o servo motor & driver)	\$7,000
CNC-170R rotary table, manual scroll 6", manual tailstock, and cable (w/o servo motor & driver)	\$7,400
CNC-200R rotary table, manual scroll SC-7", manual tailstock TS-A160, and cable (w/o servo motor & driver)	\$8,100
CNC-250R rotary table, manual scroll SC-8", manual tailstock TS-A160, and cable (w/o servo motor & driver)	\$9,100
CNC-320R rotary table, manual scroll SC-10", manual tailstock TS-B210, and cable (w/o servo motor & driver)	\$10,900
CNC-400R rotary table, manual scroll SC-12", manual tailstock TS-B250, and cable (w/o servo motor & driver)	\$14,000
CNC-500R rotary table, manual scroll SC-16", manual tailstock TS-C310, and cable (w/o servo motor & driver)	\$24,000

F.O.B.: Ontario, CA

DELIVERY: 3 months after receiving your confirmed P/O with down payment

STANDARD TERMS OF PAYMENT:

A minimum down-payment of 30% of the purchase price at receipt of order. Balance before date of shipment.

TAXES: Federal, State, Local Taxes are the responsibility of Purchaser.

VALIDITY: This proposal is valid for 60 days.

INSTALLATION:

After the machine has been positioned, cleaned, leveled and the customer has provided electric power service, hydraulic, lubrication oil, cutting oil, cutting tools, etc. a service technician will be dispatched to the installation site. The technician will place the machine in service, verify proper operation and provide instructions to operating and maintenance personnel.

WARRANTY:

Two-year warranty for all Fanuc components. One-year warranty for any defects in material or workmanship of machine tool and factory installed components.