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# **VM1150S**

# High Precision Vertical Machining Center



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# **SPECIFICATIONS:**

#### **CAPACITY**

X axis travel 1000mm(39.4") Y axis travel 520mm(20.5") 560mm

Z axis travel

**GUIDE WAY** 

X guide way span 350mm( 13.8")/ 35roller Y guide way span 620mm(24.4" )/ 45 ball Z guide way span 420mm( 16.5")/45 ball

**BALL SCREW** 

X ball screw 40x16mm Y ball screw 40x12mm Z ball screw 40x10mm

Ball screw class C3

**DRIVING MOTOR** 

X motor 1.8Kw/11NM Y motor 1.8Kw/11NM Z motor 3.0Kw/21NM

**MOTION** 

X axis rapid travel 30m/min (36) Y axis rapid travel 30m/min (36) Z axis rapid travel 24m/min(30) Cutting speed 10000 Positioning accuracy (Full stroke) XYZ 0.008mm Repeatability XYZ 0.005

**WORK TABLE** 

Table length 1100mm (43.3") Tale width 520mm( 20.5") Table surface to floor: 960mm(37.8")

Table Max loading weight 750kg T slot 18mm

**MAIN SPINDLE** 

Spindle nose to table 150-710mm (5.9"-27.95")

Spindle center to Z axis 590mm (23.2")

Spindle type **BT40** 

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QUOTE NO.: NWCNC17EXXX MACHINE MODEL: VM1150



Spindle speed 8000rpm

Spindle motor 7.5/11kw (10.1/14.8hp)

Spindle torque 35.8/47.7nm

AUTOMATIC TOOL MAGAZINE

Number of tools 24
Tool shank BT40

Max tool Dia/length /weight dia78/300/8

Tools change time

1.55 sec

GENERAL

Foot print (LxWxH): 4040x2650x3120mm

Machine weight: 7000kg

• UTILITY:

Power required 25 kVA/40A

Voltage required – Fanuc 380 Volts /50Hz / 3 Phase

Compressed air pressure 0.6~0.8 Mpa Compressed air consumption 280 L/min

HYDRAULIC SYSTEM:

Tank capacity 60L (232.5 gal)
Pump motor power 1.5Kw (2Hp)

Discharge pressure 5MPa

• LUBRICATION SYSTEM:

Tank capacity 4L
Pump motor power 0.035Kw

Discharge pressure 2.5MPa
Distributor type Metering

FLOOD COOLANT SYSTEM:

Tank capacity 430L
Pump motor power 0.55kw

Filtration 20 mesh
Max. Pressure 0.15 MPa
Max. Flow rate 33 L/min

Pump type Immersion type

PACKING SIZE

Packing type steel plate

Packing size 3920X2300X2530mm

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# Standard configuration

- FANUC 0i MF 5 Plus CNC system, 2MB system memory, 7.5/11KW spindle motor
- 3 axis linear guide way
- 8000rpm belt drive spindle ,BT40
- 24 tools arm type tools magazine
- Air conditioner of electrical cabinet
- Auto chip conveyer & one chip chart
- Machine body washing system
- Auto oil lubrication system
- Tri-color light
- Air gun + water gun
- Door lock switch
- Lighting lamp
- · Full enclosure splash guard
- Telescopic covers (3 axis)
- Standard accessories (refer to packing list)
- Technical documents (refer to packing list)
- Basal installation kit (refer to packing list)
- Sea-worthy package



#### • BED, COLUMN AND SADDLE:

The bed is a rigid, one piece casting made from fine grain Meehanite cast iron with heavy ribbing to help prevent vibration and deformation during heavy cutting. Extra wide spacing of the roller guide ways provide for excellent support of the saddle, regardless of the load distribution on the table. The table is fully supported by the saddle in all positions with no overhang. The rigid box type column casting is heavily ribbed to help prevent twisting or distortion as well as helping to dampen vibration during high speed or heavy machining.





#### Inverse-Y column

it has an Inverse-Y column structure, large rectangular section design, unique internal reinforcement structure, better deflection resistance, torsion resistance, and ultra-high rigidity, all connected with a strong bed to meet the rigidity requirements of strong cutting.

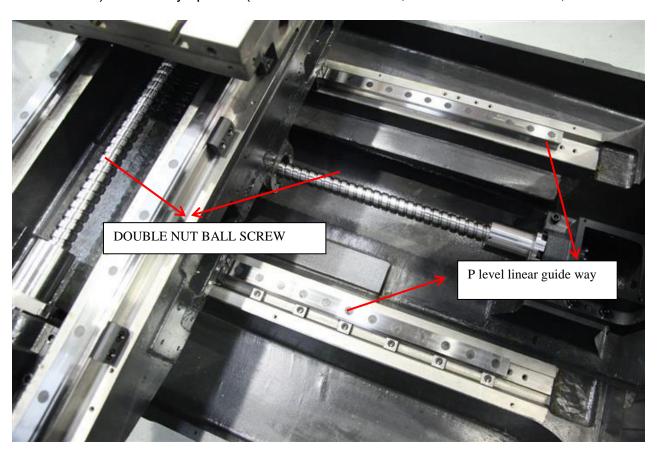
The bed has high rigidity and suitable for heavy-cutting bases. It adopts high-strength gray cast iron with shock-absorbing capacity, and finite element analysis to ensure stability and reliability.

#### BALL SCREW AND GUIDEWAYS:

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All axes are of Linear Guide type for higher stiffness, accuracy, and surface finish than more common Ball Bearing Guide types. They are both heavy duty (X - 35 mm \ 1.378"Y - 45 mm \ 1.772", Z - 45 mm \ 1.772") and widely spaced (X - 384 mm \ 15.118", Y - 760 mm \ 29.921", Z - 410 mm \ 16.141").



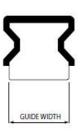
C3 V300=0.008mm



C3 level high speed silence ball screw with heat inhibiting function feature. Screw diameter\* pitch: 40\*16/40\*12/40\*10, Double nut ball screw.



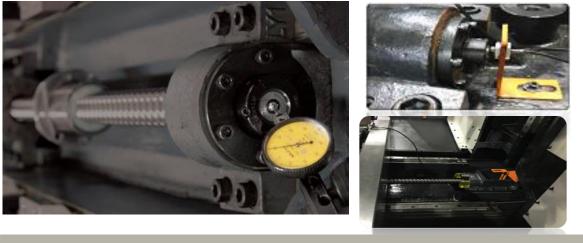


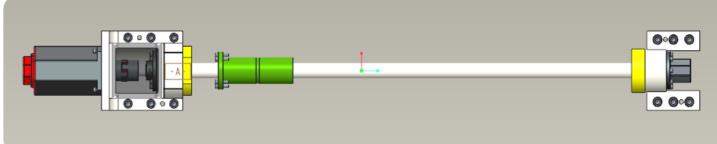


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The ball screw adopts the pre-load process, which effectively reduces the back lash in the ball screw and helps reduce the heat transfer and friction. This improves the accuracy and strengthens the rigidity and heat deformation resistance.



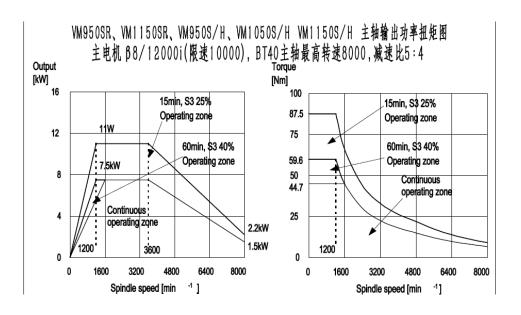


# SPINDLE and spindle Motor

The spindle is a true cartridge type unit supported by high precision ceramic ball bearings that offers minimized noise, vibration and thermal growth. The powerful 8000 rpm, 7.5/11Kw .can extend to 15/11KW.

BT40 , belt drive spindle is standard . BT40 10,000 rpm and direct spindle 12000 is possible on the machine.

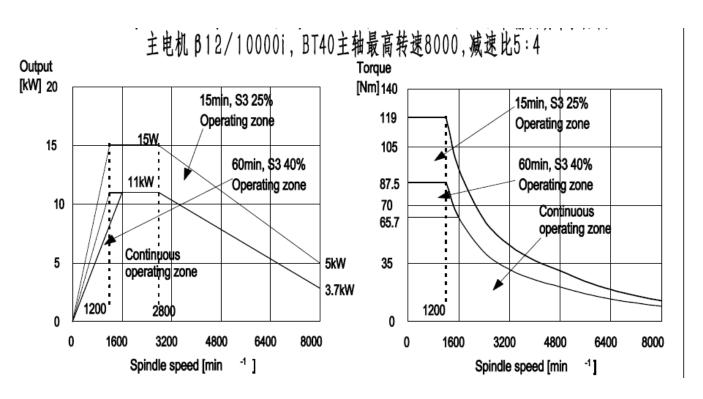
ZF gear box and BT50 spindle are possible also .



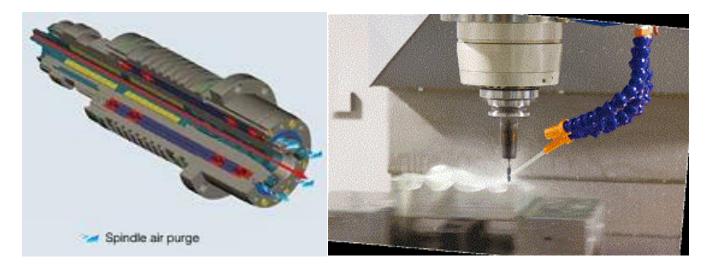
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15/11kw spindle motor:



Spindle air blow and air curtain design constantly protect spindle.
 2 coolant tube and 1 air tube are standard on the machine.



#### • FULLY ENCLOSED GUARDING:

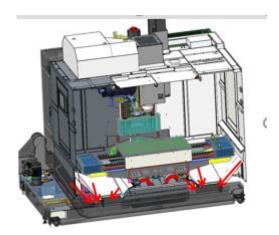
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The fully enclosed guarding is made of heavy gauge sheet metal designed to contain both chips and coolant. The dual, large sliding doors open to 1,260 mm (49") and provide unrestricted overhead access to the table for ease of lifting heavy fixtures or work pieces.

#### CHIP DISPOSAL AND FLOOD COOLANT SYSTEM:

Automatic chain type conveyor with high pressure water gun to clean chips and reduce machine temperature rising. This System reduce much more heat distortion and increase machine accuracy life.



#### • LUBRICATION:

Automatic oil pump provides lubrication to the guide ways and ball screws which precisely controls the volume of oil to these critical components. A low-level alarm reminds operator before machine stop. The grease type lubrication is an optional, which is thought by some to be more environmentally friendly.





#### TOOL MAGAZINE







24 tools B140 arm type tools magazine, rigidity to holder heavy tools, cam system to change tools. Stable quality. The machine has undergone thousands of tool change tests before leaving the factory to ensure smooth and reliable tool change. 48 hours trouble free test to guarantee stoppage rate below 0.5%. Manufacturer design 'one panel recover function" to solve 97% tools magazine common problems,

#### Other details

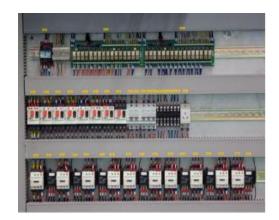
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Well-organized and easy maintenance of electrical cabinet

Organized pneumatic system and lubrication system, 4<sup>th</sup> axis connection for easy repairing and maintenance.









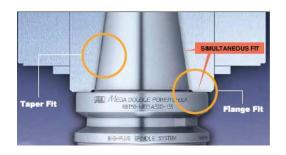
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### **OPTIONS DETAILS:**

# Big Plus Spindle System by Big Daishowa LTD:

The Big Plus spindle system and tooling surpasses all other spindle concepts due to simultaneous taper and flange contact between the machine spindle and tool holder as well as complete interchangeability with existing machines and tools. Upon mounting the tool holder into the machine spindle, contact occurs prior to clamping. Due to the retention force, the taper of the tool holder expands the machine spindle in its elastic range. The tool is pulled further in until the tool flange touches the spindle face for maximum rigidity.





# 20 bar (230 psi) THROUGH SPINDLE COOLANT SYSTEM (TSC):

A dedicated positive displacement pump delivers the coolant directly to the tool tip. The immediate benefit is more aggressive feeds and speeds can be maintained throughout the cutting process. There is also no need to stop and adjust coolant nozzles which increases both in cut time and operator safety. Protecting the spindle and the vital rotary union from contamination is a Cyclone filter with a 10 micron filter element that does not require the use of bags helping to reduce maintenance cost. The 380 liter (100 gallon) tank stores an ample supply of coolant and is isolated from the machine bed to help prevent heat transfer.

Coolant through spindle is optional on this machine. 20 bar and 30 bar are popular options. high pressure 50 bar and 70 bar are possible also.

# Renishaw work piece measure devices and Renishaw Tool -setter





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Linear scales

# Rotary table



• Spindle oil cooler (included)



Angle milling head:



Spindle oil cooler

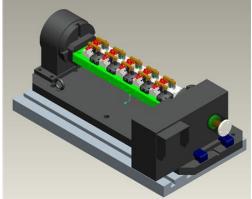


Angle head

#### SPECIAL FIXTURE DESIGN

Professional team to provide turnkey solution, many experience on fixture design for different product.







# • SYSTEM CONTROLLER:

#### 1. FANUC

1.	FANUC		• Stand	ard ○ Optic	nal X N/A
No.		0I-MF Plus			
		Item	Spec.	Type 1	Type 5
1		Controlled axes		5	5
2		Additional controlled axes		7	6
3	Controlled axis	Least command increment	0.001 mm / 0.0001"	•	•
4		Least input increment	0.001 mm / 0.0001"	•	•
5		Interpolation type pitch error compensation		•	•
6		2nd reference point return	G30	•	•
7		3rd / 4th reference return		•	•
8		Inverse time feed		•	Х
9		Cylinderical interpolation	G07.1	•	0
10		Bell-type acceleration/deceleration before look ahead interpolation		•	•
11		Automatic corner override	G62	•	•
12		Automatic corner deceleration		•	•
13	Interpolation &	Manual handle feed	Max. 3unit	•	•
14	Feed Function	Handle interruption		•	•
15		Manual handle retrace		•	•
16		Nano smoothing	Al contour control II is required.	0	Х
17		AICC I	40 BLOCK	Х	•
18		AICC II	200 BLOCK	•	Х
19		AICC II(Preview block number increase)	400 BLOCK(Special hardware and Al contour control II)	0	Х
20	Spindle & M	M- code function		•	•
21	code Function	Retraction for rigid tapping		•	•
22		Rigid tapping	G84, G74	•	•
23	Tool Function	Number of tool offsets	400	400 ea	400 ea
24		Tool nose radius compensation	G40, G41, G42	•	•
25		Tool length compensation	G43, G44, G49	•	•
26		Tool life management		•	•
27		Tool offset	G45 - G48	•	•
28	Programming &	Custom macro		•	•

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QUOTE NO.: NWCNC <u>17</u> EXXX MACHINE MODEL: VM	11150	LVIAI
29 Editing Function Macro executor	•	•
30 Extended part program editi	ng •	•
31 Part program storage	2MB(5120m) •	•
32 Inch/metric conversion	G20 / G21 •	•
Number of Registerable pro	grams 400 ea 400	ea 400 ea
Number of Registerable pro	grams 1000 ea o	0
35 Optional block skip	9 BLOCK •	0
36 Optional stop	M01 •	•
37 Program file name	32 characters •	•
38 Sequence number	N 8-digit N8 d	igit N8 digit
39 Playback function	•	•
Addition of workpiece coord	inate system G54.1 P1 - 48 (48 48 pa	airs 48 pairs
Addition of workpiece coord		0
42 Embeded Ethernet	•	•
43 Graphic display	Tool path drawing	•
Loadmeter display	•	•
45 Memory card interface	•	•
USB memory interface	Only Data Read & Write	•
47 Operation history display	•	•
DNC operation with memory	/ card •	•
49 Optional angle chamfering /	corner R •	•
Run hour and part number of	display	•
51 High speed skip function	•	•
52 OTHER Polar coordinate command	G15 / G16 •	•
53 (Operation, Programmable mirror image	G50.1 / G51.1 •	•
54 setting & Scaling Display, etc)	G50, G51 •	•
55 Single direction positioning	G60 •	•
56 Pattern data input	•	0
57 Jerk control	Al contour control o	Х
58 Fast Data server with1 GB F	PCMCIA card o	0
59 Fast Ethernet	0	0
60 3-dimensional coordinate co	nversion	X
61 Figure copying	G72.1, G72.2 o	0
62 Machining time stamp functi	on	0
63 Manual Guide I with 10.4" C	color TFT °	0
64 Dynamic graphic display (wi	th 10.4" screen)	_

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#### 2. Siemens

	. Siemens			● Stan	dard o Opti	onal X N/A
No.	Item		Spec.	S828D		
				SW24x	SW26x	SW28x
1		Controlled axes	3 axes	X, Y, Z	X, Y, Z	X, Y, Z
2		Additional controlled axes		5	6+2	8+2
3	Controlled	Least command increment	0.001mm (0.0001 inch)	•	•	•
4	axis	Least input increment	0.001mm (0.0001 inch)	•	•	•
5		Travel to fixed stop with Force Control		0	0	0
6		Reference point return	G75 FP=1	•	•	•
7		2nd reference point return	G75 FP=2	•	•	•
8		Inverse time feedrate	G93	•	•	•
9		Helical interpolation		•	•	•
10		Polynomial interpolation		Х	Х	Х
11		Spline interpolation (A, B and C splines)		0	0	0
12		Separate path feed for corners and chamfers		•	•	•
13		Acceleration with Jerk limitation		•	•	•
14		Compressor for 3-axis machining		•	•	•
15	Interpolation	Temperature compensation		•	•	•
16	& Feed Function	Look Ahead, recorded part program blocks:	Milling with MDynamics Advanced Surface	150	300	450
17			Milling with MDynamics Top Surface	600	600	600
18		Look Ahead, IPO blocks, buffered:	Milling with MDynamics Advanced Surface	50	100	150
19			Milling with MDynamics Top Surface	200	200	200
20		Cartesian point-to-point (PTP) travel		•	•	•
21		TRANSMIT/cylinder surface transformation		0	0	0
22	Spindle Function	Tapping with compensating chuck/rigid tapping		•	•	•
23		Tool radius compensations in plane		•	•	•
24		Number of tools/cutting edges in tool list		128/256	256/512	768/1536
25	Tool Function	Tool length compensation		•	•	•
26	TOOLFUNCTION	Operation with tool management		0	0	0
27		Tool list		•	•	•
28		Replacement tools for tool management		0	0	0

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QUOTE NO.: NWCNC <u>17</u> E <u>XXX</u> MACHINE MODEL: VM1150					IA E AA	AI
29		Monitoring of tool life and workpiece count		•	•	•
30		Manual measurement of tool offset		•	•	•
31		Magazine list		•	•	•
32		Number of levels for skip blocks 2		•	•	•
33		Number of levels for skip blocks 10		0	0	0
34		Program/workpiece management	On additional plug-in CF card	•	•	•
35			On USB storage medium (e.g. disk drive, USB stick)	•	•	•
36			On network drive	0	0	0
37			Programming support for cycles program(Program Guide)	•	•	•
38	Programming	Duo suose a dita s	CNC editor with editing functions: select, copy, delete	•	•	•
39	& Editing Function	Program editor	Programming graphics/free contour input (contour calculator)	•	•	•
40			ShopMill Machining step programming	0	0	0
41		Technology cycles for drilling/milling		•	•	•
42		Pocket milling free contour and islands stock removal cycle		0	•	•
43		Residual material detection		0	0	0
44		Access protection for cycles		0	0	0
45		Programming support can be extended, e.g. customer cycles		•	•	•
46		2D simulation		•	•	•
47		3D simulation, finished part		0	0	0
48		Switchover: inch/metric		•	•	•
49		Manual measurement of zero/work offset		•	•	•
50		Automatic tool/workpiece measurement		•	•	•
51	OTHERS FUNCTIONS	Reference point approach, automatic/via CNC program		•	•	•
52	(Operation, setting &	Execution from USB or CF card interface on operator panel front		•	•	•
53	Display, etc)	Execution from network drive		0	0	0
54		10.4" color display		•	•	•
55		15.0" color display		0	0	0
56		Alarms and messages		•	•	•
57		Automatic measuring cycles		0	0	0

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#### 3. Heidenahin

3. Heidenahin  ■ Standard ○ Optional X N/A					
NO.	Item		Spec.	TNC 620	
1	ILEITI	Controlled axes	3 axes	X, Y, Z	
2		Additional Controlled axes	Max. 5 axes in total	○ (Max. 5axes)	
3		Least command increment		○ (IVIAX. JAXES)	
4			0.0001 mm (0.0001 inch), 0.0001°	•	
5	۸۷۵۵	Least input increment	0.0001 mm (0.0001 inch), 0.0001°	•	
	Axes	MDI / DISPLAY unit	19 "color flat-panel display, vertical, touch screen (for MC 8410)	•	
6		Program memory for NC programs		1.8GB	
7		CFR CF memory card		8GB	
8	Commissioning	Data interfaces	Ethernet interface	•	
9	and diagnostics	Data interfaces	USB interface (USB 2.0)	•	
10	Machine functions	Look-ahead (Intelligent path control by calculating the path speed ahead of time)	Max. 5000 blocks.	•	
11			Basic version: 3 axes plus spindle	•	
12		Brief description	One or two additional NC axes	0	
13		blief description	Digital current and spindle speed control	•	
14		Program entry	HEIDENHAIN conversational and DIN/ ISO formats	•	
15			Nominal positions for lines and arcs		
		Position data coordinates	in Cartesian coordinates or polar coordinates	•	
16					
16			Incremental or absolute dimensions	•	
17			Display and input in mm or inches	•	
18			Tool radius in the working plane and tool length	•	
19		T	Radius-compensated contour look- ahead for up to 99 blocks (M120)	0	
20	User functions	Tool compensation	Three-dimensional tool-radius compensation for changing tool data without having to recalculate an existing program	0	
21		Tool tables	Multiple tool tables with any number of tools	•	
22		Constant contour speed	Relative to the path of the tool center	•	
23		Constant contour speed	Relative to the tool's cutting edge	•	
24		Parallel operation	Creating a program with graphical support while another program is being run	•	
25			Motion control with minimum jerk	0	
26			3-D tool compensation through surface normal vectors	0	
27		3-D machining	Keeping the tool normal to the contour	0	
28			Tool radius compensation normal to the tool direction	0	
29			Straight line	•	
30		Contour elements	Chamfer	•	
31		Contour elements	Circular path	•	
32			Circle center point	•	

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QUUI	L INO INVVOINO <u>17</u> 1	EXXX MACHINE MODEL: VM115		
33			Circle radius	•
34			Tangentially connecting circular arc	•
35			Corner rounding	•
36		Approaching and denoming the	Via straight line: tangential or	
		Approaching and departing the	perpendicular	•
37		contour	Via circular arc	•
38			Subroutines	•
39		Program jumps	Program section repeats	•
40			Calling any program as subroutine	•
41			Datum shift, rotation, mirror image,	
		Coordinate transformation	scaling factor (axis-specifi c)	•
42		Coordinate transformation	Tilting the working plane, PLANE	0
			function	Į
43		Actual position capture	Actual positions can be transferred	•
<u></u>		, ictal position aptaro	directly into the NC program	
44			In the Programming and Editing	
			mode, the contour of the NC blocks	
		Programming graphics	is drawn on screen while the	•
		graphing graphing	blocks are being entered (2-D pencil-	
			trace graphics), even while another	
45			program is running	
45			Calculation of machining time in the	
		Machining time	Test Run operating mode	
		Machining time	Display of the current machining time in the Program Run operating	•
			modes	
46			Mid-program startup in any block in	
40			the program, returning the tool to the	
			calculated nominal	•
		Returning to the contour	position to continue machining	
47			Program interruption, leaving and	
''			returning to the contour	•
48		5	One preset table for storing	
		Preset tables	reference points	•
49		Detune telelor	Several datum tables for storing	
		Datum tables	workpiece-related datums	•
50			Compensating movement in the	
			secondary axis U, V, W through the	•
			principal axis X, Y, Z	
51			Including movements of parallel	
			axes in the position display of the	
		Parallel secondary axes	associated principal axis (sum	
			display)	
52			Defi ning the principal and	
			secondary axes in the NC program	•
			makes it possible to run programs	
L			on different machine confi gurations	
53			English, Chinese (traditional, simplifi	
			ed), Czech, Danish, Dutch, Finnish,	
		Conversational languages	French, German,	•
		3.23.2	Hungarian, Italian, Polish,	
			Portuguese, Russian (Cyrillic),	
54		Drilling conventional and rigid	Spanish, Swedish	
34	Fixed cycles	Drilling, conventional and rigid tapping, rectangular and		
	I INGU CYCIGS	circular pockets		•
<u></u>		Unodial Pookers		

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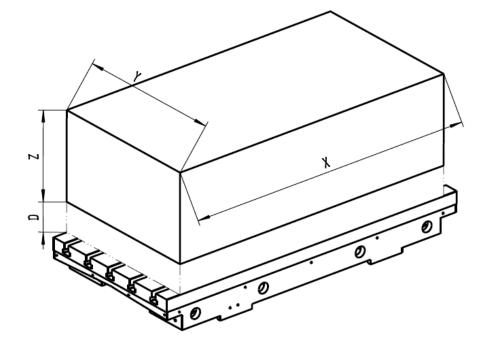


QUU I	L 110 1400 O110 117	LAAA WACIIINE WODEL. VWI 130	 
55		Peck drilling, reaming, boring, counterboring, (centering)	0
56		Milling internal and external threads	0
57		Clearing level and oblique surfaces	0
58		Multioperation machining of straight and circular slots	0
59		Multioperation machining of rectangular and circular pockets	0
60		Linear and circular point patterns	0
61		Contour train, contour pocket— also with contour-parallel machining	0
62		OEM cycles (special cycles developed by the machine tool builder) can be integrated	0
63		Touch probe calibration	0
64	Touch probe	Compensation of workpiece misalignment, manual or automatic	0
65	cycles	Datum setting, manual or automatic	0
66		Automatic tool and workpiece measurement	0

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### **WORK RANGE:**



	D	X	Y	Z
VM1150S	150	1000	520	560

# Packing size

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QUOTE NO.: NWCNC<u>17</u>EXXX MACHINE MODEL: VM1150



#### Note:

- Price and specifications are subject to change without prior notice.
- Pictures and graphics are representative and may not be from the actual machine
- All specified values age given at standard electric power conditions (380v/50Hz).
- Machine dimension and weight are changed according to optional specification.
- Please refer to lay-out and foundation drawing in relation to installation.
- All specified values of pressure, flow rate of coolant, lubrication and hydraulic pump are given at pump outlet.
- Refer to the separated spec.sheets in relation to specification, function and option on controller.
- Available environment temperature: 10  $^{\circ}$ C to 40  $^{\circ}$ C; best environment temperature 15  $^{\circ}$ C to 25  $^{\circ}$ C, temperature shall not exceed ± 2  $^{\circ}$ C / 24 h. When the environment temperature is 20  $^{\circ}$ C, humidity should be 40 ~ 75%.
- Coolant recommendation: water-soluble cutting fluid or oily cutting fluid is suitable for the cooling system. Note: the used cutting fluid cannot be dumped at will. It should be disposed to avoid environmental pollution.
- Read the mechanical and electric operation manual, and follow all the safety instructions before using the machine.
- One year control and spare part warranty for standard machine.
- Turn-key is available for all the inquires. Please inquire Neway application department for the turn-key proposal if needed
- For more details, please refer to the machine manual
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