Nidec
All for dreams

Double Column Machining Center

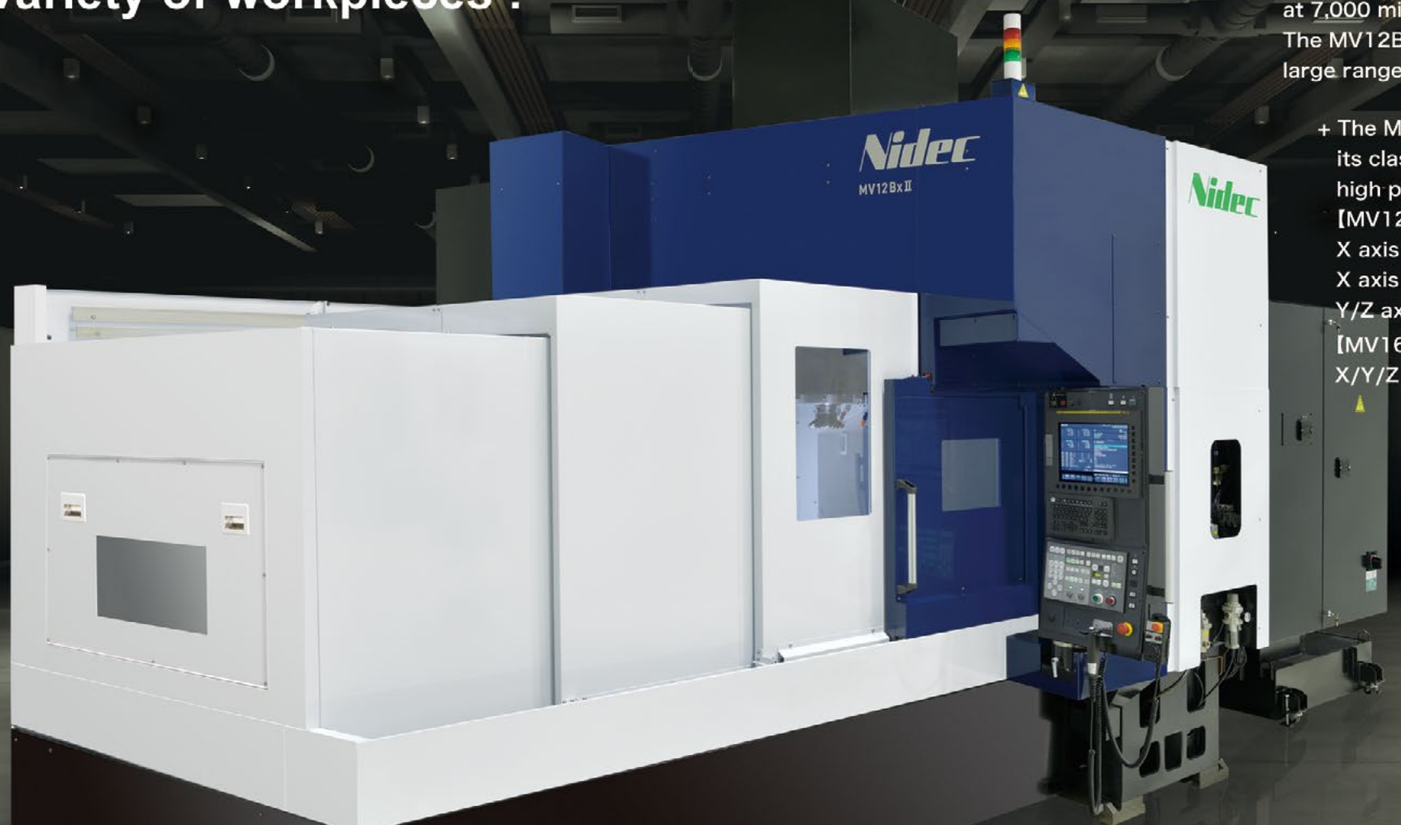
MV-BxII

SERIES

NIDEC MACHINE TOOL CORPORATION

www.nidec.com/en/nidec-machinetool/

Highly-productive low maintenance machine capable of a wide variety of workpieces !



High Productivity

High Productivity

+ Powerful and high speed cutting can be achieved with the MV12BxII 50 taper spindle and high speed cutting at 7,000 min^{-1}.
The MV12BxII can offer a wide variety of cutting for a large range of materials,which will expand your work.

+ The MV12BxII has the fastest rapid feed rates in its class, which can shorten non-cutting time for high productivity.
【MV12BxⅡ】
X axis : 48m/min (1,889.76ipm) Table size 1.6m x 1.3m (62.99 x 51.18 inch)
X axis : 32m/min (1,259.85ipm) Table size 3.0m x 1.3m (118.11 x 51.18 inch)
Y/Z axis : 32m/min (1,259.85ipm)
【MV16BxⅡ】
X/Y/Z axis : 32m/min(1259.85ipm)

+ The large machine working area in its class is provided even with its small footprint.

【MV12BxⅡ】
Table size 1.6m x 1.3m (62.99 x 51.18 inch)
Footprint : 5.8m x 3.46m (228.35 x 136.22 inch)

Table size 3.0m x 1.3m (118.11 x 51.18 inch)
Footprint : 8.6m x 3.46m (338.58 x 136.22 inch)

【MV16BxⅡ】
tablesize:2.2m×1.8m(86.11×70.87inch)
footprint:7.5m×4.0m(295.28×157.48inch)

Low Maintenance

Low Maintenance

+ The axis linear roller guides used on the MV12BxII helps maintain the machine accuracy for a longer period of time.

+ Lubrication is easily maintained by just exchanging a dedicated cartridge every six months*.

*Note that the lubrication cartridge replacement period may vary depending on the hours of operation.

Eco Operation

Eco Operation

+ Oil usage and air compressor power are reduced by 75% and 60% respectively, so it is environmental friendly as well as cost effective.

+ With the newly incorporated power unit, low noise and reduced energy use are possible.

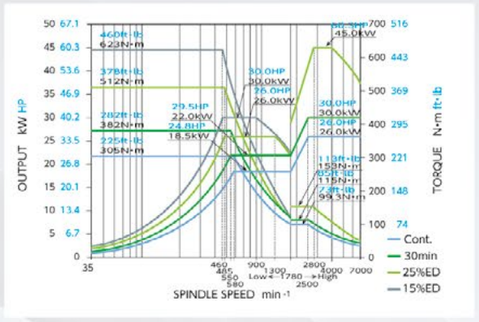
High Productivity

Rigid machine body leads to a more stable machine process

The MV12BxII body uses a box shaped structure with all axis being equipped with linear roller guides giving it high machine rigidity. This allows the MV12BxII to provide heavy duty cutting and high speed axis feed for heavy loads while maintaining machine accuracy for a long period with low maintenance.

High Efficient Processing

MV12BxII adopts the No 50 tapered spindle that can provide high torque at low speed ranges and enables large diameter milling of 160mm. This makes it possible to perform heavy duty cutting and good for processing seating surface.
The MV12BxII can provide high speed cutting up to 7,000 min^{-1}.
This high speed cutting enables aluminum processing or smaller diameter tool cutting. Making the MV12BxII useful for a wide range of workpieces from cast iron to aluminum.



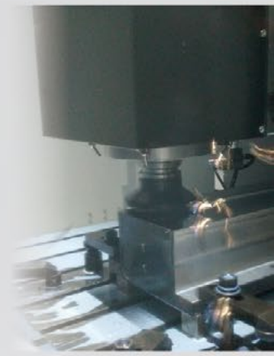
Fast Rapid Feed

The ball screws feature core cooling and double anchor method of support, so that MV12BxII achieves the fastest rapid feed speed in its class.

Machining Example

Material	Cutting tools	Spindle speed min^{-1}	Cutting Speed m/min ipm	Cutting width mm in	Cutting depth mm in	Feed speed mm/min in/min	Amount of cutting tips cc/min cu.in/mm	Spindle power kW HP	Max. extended overhang of Z axis mm in
S45C	ϕ160mm face milling with 8 blades	420	211 8,307	130 5.12	4 0.16	1,000 39.4	520 31.73	16.2 22	550 21.7
	ϕ125mm face milling with 6 blades	550	216 8,504	100 3.94	6 0.24	1,000 39.4	600 36.61	18.7 25	550 21.7
	ϕ60mm drilling	150	24 945	- -	- -	300 11.8	600 36.61	Torque 317Nm	400 15.7
	M36 tapping	70	10 394	- -	- -	280 11.0	- -	Torque 173Nm	400 15.7
A5052	ϕ125mm face milling with 6 blades	3,000	1,178 46,378	100 3.94	5.5 0.22	5,400 212.6	2,970 181.21	30.9 42	400 15.7

※These cutting conditions are subject to change depending on the work piece material, shape, type of holding device for the work pieces, cutting tools, depleted cutting tips and so on. Because of these variants the cutting conditions are not guaranteed.



Eco Operation

All grease lubrication and electric power units are ecology friendly leading to reduction of oil usage and energy consumption.

Reduced air consumption requires less compressor output.

Air consumption* 200Nℓ/min ▶ **80**Nℓ/min **60%less**

Air compressor output 3.7kW ▶ **1.5**kW **60%less**

* Air volume for normal use (excluding air coolant, ATC shutter, etc.)

The electric power units that takes advantage of hydraulic and electric power is adopted.

Hydraulic tank capacity 8L ▶ **1.9**L **75%less**

Hydraulic pump output 1.6kW ▶ **1.2**kW **25%less**

Operating only when machine power is required → Low energy consumption and noise

Low Maintenance

Exchanging the dedicated cartridge

Lubricant is maintained just with exchanging the dedicated cartridge.

Replacement every 6 months.*

Exchanging only takes 5 minutes.

* Replacement frequency may vary based on usage conditions.

Machine Specifications

Item			Unit	MV12Bx Ⅱ Table 1.6m specification	MV12Bx Ⅱ Table 3.0m specification	MV16Bx Ⅱ
Width between columns			mm in	1,460 57.48		2,000 78.74
Distance from the table top surface to the vertical spindle end			mm in	200~860 7.87~33.86		
Capacity	X-axis travel (Table left and right)		mm in	1,600 62.99	3,000 118.11	2,200 86.61
	Y-axis travel (Back and forth of the saddle)		mm in	1,300 51.18		1,700 66.92
	Z-axis travel (Up/Down)		mm in	660 25.98		
Table	Work surface (X-axis × Y-axis)		mm in	1,600×1,300 62.99×51.18	3,000×1,300 118.11×51.18	2,200×1,800 86.61×70.87
	Loading Capacity		kg lb	3,000 6,613.9	5,000 11,023.0	8,000 17637.0
	Work surface shape (T-slot size × interval × number)		mm in × number	22×140×9 0.87×5.51×9		22×140×13 0.87×5.51×13
	Height from floor to table work surface		mm in	900 35.43	1,000 39.37	900 35.43
Spindle	Spindle speed		min-1	35~7,000		
	Number of shift steps		Step	2 steps (winding switching type)		
	Taper		-	7/24 Taper No.50		
	Spindle diameter		mm in	Φ100 3.94		
Feed rate	Rapid traverse		mm/min ipm	X: 48,000 1,889.76 Y/Z: 32,000 1,259.84	X/Y/Z : 32,000 1259.84	
	Cutting feed rate		mm/min ipm	1~10,000 0.04-393.7	1~32,000 0.04-1,259.84 : Note 1	
ATC	Tool shank		-	JIS B6101 No. 50 Two-sided contact BIG-PLUS compatible spindle		
	Pull-stud		-	MAS- II		
	Tool Number (including spindle)		Number	30		
	Maximum Tool Diameter[No Adjacent Tool]		mm in	Φ125 4.92 [Φ224 8.82] : Note 2		
	Maximum tool length (From gauge line)		mm in	400 15.75		
	Maximum tool mass		kg lb	20 44.09 : Note 3		
	Tool selection method		—	Random memory		
	Tool change time (T to T/C to C)		sec	43(T to T)		
Required power source	Power source	Note 4	kVA	61		
	Power supply voltage /power supply frequency		V·Hz	AC200V±10% 50Hz±1Hz AC220V±10% 60Hz±1Hz		
	Air source pressure	Note 5	Mpa psi	0.4-0.7 58.02-101.53		
	Air pressure source flow	Note 5	NL/min	400		
Tank capacity	For coolant	Note 6	l	500 (water-soluble only)	550(water-soluble only)	
	For oil cooler		l	70		
	For electric power unit		l	1.9		
Machine height (from floor)			mm in	3,460 136.22	3,560 140.16	3,460 136.22
Required floor size: machine body (left and right × depth)		Note 6	mm in	5,800×3,460 228.35×136.22	8,940×3,460 351.97×136.22	7,500×4,020 295.28×158.27
Required floor space: Maintenance area		Note 6	mm in	6,300×4,090 248.03×161.02	9,440×4,090 371.65×161.02	8,000×6,170 314.96×242.91
Mechanical mass			kg lb	19,000 41,887.83	24,000 52910.9	25,000 55115.6
Control device			—	FANUC 32iB-Plus		

Note 1: HQ control (AICC1) only

Note 2: Maximum tool diameter
○ Normal size is Φ125mm.
If it is under Φ125 mm, there is no necessary to consider the interference during magazine rotation or ATC operation.
○ If it is over Φ125mm, Φ224mm is under the following conditions.
Make the adjacent tool an empty pot and register it as a large diameter tool.
Please check the standard specifications for tool holder calculation.

Note 3: The total mass of magazine storage tools is within 300kg (661.39 lb). In addition, tools cannot be storage unbalanced.

Note 4: Values for standard specifications are listed. These may change depending on the options added.

Note 5: Air quality suppied to the machine should be equivalent to or higher than grade 3.5.4 in ISO8573-1/JISB8392-1. If the machine is supplied with air containing impurities such as moisture, dust, and ozone have not been sufficiently removed, the parts inside the machine may be damaged. High concentrations of ozone in the supplied air can damage hoses and packings. If the compressor type is turbo or positive displacement (rotary oil-free type), (not oil-lubricated reciprocating compressors) the rate of ozone decomposition (attenuation) in the air is small, and relatively high concentrations of ozone are produced. Highly ozone contained air may flow into the path, so please check the specifications with the compressor manufacturer.

Note 6: Values for standard specifications are shown. These values will change if an external conveyor is added. Does not include tool magazine access dimensions. When installing the magazine side against the wall, install the machine about 1500mm (59.06 inch) away from the wall. Please also check the 5. FLOOR SPACE DRAWING.

Standard Equipment

- ●Work light : 1 set ,1 LED light
- ●Coolant Tank (Separate coolant tank) : 1 set
  ,Tank capacity 500ℓ(132.09 gal) (water-soluble only)
- ●Flood coolant : 1 set
  ,0.5MPa (72.52 psi) 20ℓ/min (5.28gal)(water-soluble)
- ●Coolant guard : 1 set ,Without ceiling cover
- ●X/Y-axis sliding surface protection cover : 1 set
- ●Spindle head cooling device : 1 set
- ●Automatic grease provider : 1 set
- ●Parallel coil conveyor : 1 set ,Front and back of the table
- ●Air blow device : 1 set
- ●Indicator light (3 LEDs) : 1 set ,Buzzer equipped
  Alarm Red
  Machining completed Yellow
  Automatic operation Green
- ●Fixing leveling block : 1 set
- ●Parts for the Foundation : 1 set ,Includes HILTI bond
- ●Earth leakage breaker : 1 set
- ●Automatic power off device : 1 set
- ●Operating instructions
  Safety instructions : 1 copy
  Instruction manual (specifications/maintenance, foundation installation) : 1 copy for each
  Programming manual, operation manual : 1 copy for each
  Electrical instruction manual (including electrical drawings) : 1 set
  Control unit (NC) manual : 1 copy ,DVD

Optional Equipment

- ●Pull stud MAS-I
- ●ATC 60 tools
- ●Magazine operation panel (+magazine interrupt)
- ●Ceiling coolant guard (2 in-machine lighting lights) + machine lower skirt cover
- ●Adding 1 work light in the machine (3 in-lights as total) *Note 1
- ●External chip conveyor , Bucket height 1000mm
  Discharged direction □Magazine side only
  □Hinged
  □Scraper type
  □Floor magnetic scraper
  □Backwashing type for aluminum
  □Backwashing type for aluminum/cast iron
- ●Chip box
  □Fixed type
  (700X1000mm (27.56 x 39.37 in)
  , Height 1000mm (39.37 in))
  □Tilting type
  (645x1300mm (25.39 x 51.18)
  , Height 896mm (35.28 in) 60 degree tilting)
- ●Oil skimmer
- ●Coolant through the spindle *Note 1 *Note 2
  Method □Coolant
  □Coolant + air through
  □2MPa (290.08 psi) high pressure unit
  □7MPa (1015.26psi)high pressure unit
  □2MPa (290.08 psi) high pressure unit + coolant cooler
  □7MPa (1015.26psi) high pressure unit + coolant cooler
  □Simultaneous selection possible:
  Spare thickener bag filter
- ●Coolant shower under the column
- ●Part cleaning gun (coolant)
- ●Stopper block
  □For oil holes (including medium pressure pumps and piping)
  □For speed-increasing attachment
  □For angle attachment
  □Oil hole + angle attachment combined use (Including medium pressure pump and piping)
- ●Mist collector (separately placed) *Note 1
- ●X/Y/Z axis linear scale (MP scale) feedback device
- ●Touch sensor system T1
  □Workpiece measurement system(RMP60)
  □Contact type tool length measurement/tool breakage detection *Note 3
- ●Laser measuring system Renishaw tool length/diameter
- ●Standard maintenance tool set (with tool box)

Note 1: Ceiling coolant guard only

Note 2: Please use the no-hole type for the tool holder pull stud that does not use the spindle through.

Note 3: Measurable tool length: 0 to 400mm

NC Specifications

■ Standard Specifications

Item	Specifications & Note
Control axis	
Number of control axes	3 axes (X,Y,Z)
Simultaneously controlled axes	3 axes
Input command	
Least input increment B	0.001mm/0.0001inch
Max. programmable dimension	±999999.999mm/±39370.0787inch
Inch/metric conversion	G20/G21 or setting parameter switching
Decimal point input/calculator type decimal point input	
Absolute/Incremental programming	G90/G91
Program code	ISO/EIA automatic discrimination
Program format for FS10/11	
Interpolation function	
Nano interpolation (internal)	
Positioning	G00
Linear interpolation	G01
Circular interpolation	G02/G03, including radius designation
Helical interpolation	
Feed function	
Cutting feed rate	Direct designation of 6.3-digit F-code
Rapid traverse override	0/1/10/25/50/100%
Cutting feed override	0 to 200% (every 10%)
Feed rate override cancel	M49, M48: Cancel
Manual handle feed	Least input increment X1X10X100/graduation
Dwell	G04
Inverse time feed	G93
Program storage / Edit	
Program storage capacity	10,240m [4Mbyte]
Number of registered programs	1,000
Part program editing	
Background editing	Wile a program is being executed, another program can be edited.
Extended part program editing	
Operation / display	
15 color LCD/QWERTY key MDI	
Clock function	
MDI(manual data input) operation	
Run our and parts count display	
Input/output function	
Memory card interface	
USB memory interface	
Spindle, tool Auxiliary function	
Spindle function	S5 digit
Spindle speed override	50 to150% (every 5%)
Tool function	T4 digit
ATC tool registration	
Miscellaneous function	Designation of miscellaneous function with 3-digit M-code
Multiple M-codes in 1 block	3 codes can be designated simultaneously in one block(Max 20)
Tool compensation function	
Tool length compensation	G43, G44, G49: Cancel
Tool diameter/cutting edge R compensation	G41, G42, G40: Cancel

Item	Specifications & Note
Tool compensation function	
Tool offset pairs	Total 400
Tool offset memory C	
Tool offset	G45~G48
Coordinate system	
Automatic reference position return	G28,G29
2nd reference position return	G30, manual operation possible
Machine coordinate system	G53
Coordinate system setting	G92
Automatic coordination system setting	Coordinate system established after power-on
Workpiece coordinate system	G54~G59 G54.1P1~G54.1P48
Local coordinate system	G52
Polar coordinate command	G15: cancel, G16 start
Manual reference position return	1st origin return by manual operation
Reference position return check	G27
Operation support function	
Optional block skip	
Single block	
Dry run	
Machine lock	
Z-axis command cancel	
Auxiliary function lock	
Graphic display	
Program number search	
Sequence number search	
Sequence number comparison stop	
Program restart	
Cycle start	
Feed hold	
Manual absolute	ON/OFF (setting with PMC parameter)
Auto restart	Automatically restart at M02, M30
Program stop	M00
Optional stop	M01
Manual handle interruption	
Programming Support function	
Subprogram control	M98, M99: Can be called up to 10 layers
Canned cycle	G73, G74, G76, G81~G89, G80: Cancel
Mirror image	
Custom macro / common valuables 100	G65~G67: Common variables #100~#149, #500~#549
Programmable data input	G10L2: Work coordinates, G10L10-13: Tool compensation amount. G10L50: Pitch error, G10L52: Parameter can be set. G11: Cancel
Manual guide i	Basic
Exact stop mode	G09: Deceleration stop at end of block and check in position. Start next block G61: Exact stop mode
Optional chamfering / Corner R	
Playback	
Machine precision compensation	
Interpolation type pitch error correction	
Backlash compensation for each rapid/cutting feed	
Smooth backlash compensation	
Automation Support function	
Skip function	G31: Interrupt movement with skip signal and execute next block

Item	Specifications & Note
Automation Support function	
Tool life management	256 pairs
Manual tool length measurement	
Safety / Maintenance	
Emergency stop	
Data protection key	
NC alarm display / alarm history display	
Machine alarm display	
Stored stroke check 1,2	
Load monitor	
Self diagnosis function	
Driven	
Absolute position detection	

■ Optional Specifications

Item	Specifications & Note
Input command	
Minimum setting unit C	0.0001 mm / 0.00001 inch
Interpolation function	
Spiral/conical interpolation	In addition to circular interpolation, command the number of rotations or increase/decrease amount of radius per rotation, spiral interpolation + 1/2 axis command for conical interpolation
Cylindrical interpolation	G07.1: Effective for machining cylindrical grooves and cylindrical cams
Virtual axis interpolation	G07: Sine interpolation is possible by distributing pulses with one of the circular interpolation axes of helical interpolation as a virtual axis.
Involute interpolation	G02.2, G03.2: Machining of involute curves is possible
Feed function	
Rigid tapping	
F1 forward	The feed speed set corresponding to F1 to F9 is the command speed, and the speed is increased or decreased by turning the manual handle (F0=G00)
ProgramStorage / Edit	
Program storage capacity	Total 20,480m [8Mbyte] (Total number of registered programs: 1000)
Operation / display	
Processing time stamp	Display the machining time of the main program when running the program
Input/output function	
Fast data server	ATA card 1GB (including Ethernet interface) ATA card 4GB (including Ethernet interface)
RS232C interface	RS232C-1CH
Spindle / tool auxiliary function	
Spindle contour control (Cs contour control)	Position the spindle
Tool compensation	
3D tool compensation	G41: Function to correct the tool radius amount in 3D space according to the commanded 3D vector. G40: Cancel
Tool offset sets	499 pairs in total 999 pairs in total
Coordinate system	
Addition of Work coordinate system	Total 300 pairs G54.1P1~G54.1 P300
Operation support function	
Optional block skip	9 in total

Item	Specifications & Note
Operation support function	
Tool retract & return	After stopping the feed hold during machining, retract the tool manually, and restart the machine by approaching the breakpoint when automatic start is applied again.
Programming Support function	
Figure copying	G72.1: Rotation copy, G72.2: Parallel copy
Interruption type custom macro	M96P, M97: Inputting a macro interrupt signal interrupts the block being executed and activates the specified custom macro.
Addition of custom macro common variables 1000 pairs	#150~#199,#550~#999,#98000~#98499
Inclined surface indexing command	A function that defines the coordinate system of a surface that is tilted with respect to the reference surface of the workpiece, and easily creates a machining program for the tilted surface.
Chopping	G200: While the contour program is running, the chopping axis (PMC axis control) can be constantly raised and lowered independently of the program operation for side grinding.
Manual guide i (Milling cycle, animation)	Realistic machining simulation that can express drilling, island leaving, plane machining, contour machining, pocket machining, grooving and also the state of the machined surface due to the shape of the tip of the tool
Programmable mirror image	G51.1: Programmable for each axis, G50.1: Cancel
Automatic corner override	G62: Automatically overrides the feed rate when cutting inside corners
Scaling	G51: Command program can be reduced or expanded G50: Cancel
Coordinate rotation	G68: Function to rotate the machining shape itself with respect to the machine coordinates G69: Cancel
Automation Support function	
Added number of tool life management groups	1024 pairs in total
High-speed skip	Detection delay of normal skip signal is small, enabling more accurate measurement

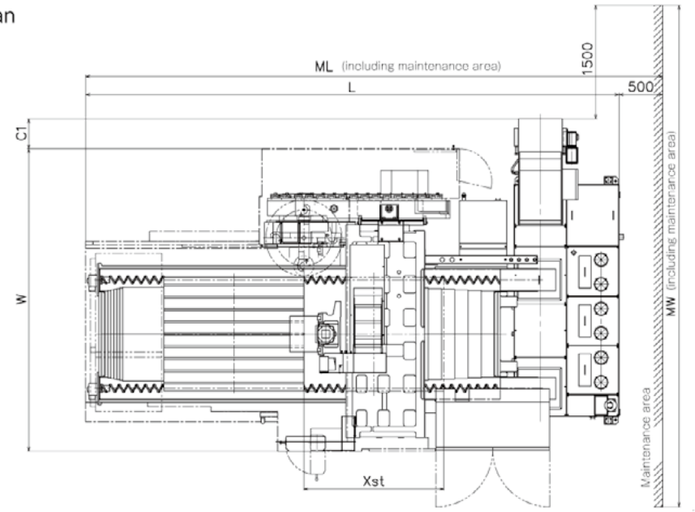
Nc Specifications (Dedicated Control Function)

■ Special Specifications

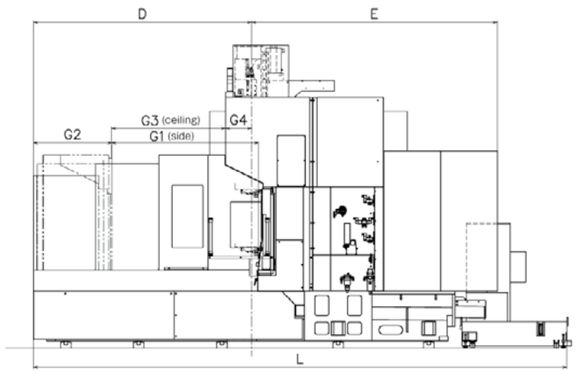
Item	Specifications & Note
High speed and high precision	
HQ control (AI contour control I)	G05.1Q1/Q0: (G8P1, P0 also possible) Linear acceleration/deceleration function before look-ahead interpolation (Maximum 40 blocks: 1 for G8 command) enables high-speed, high-precision machining
Programming support function	
Special fixed cycle	G12/G13: Round cutting , G34/G35/G36/G37: Special canned cycle G75: Circular canned cycle
Cycle mate F	Contour, pocket machining pattern cycle (6 types)
Automatic support function	
Automatic restart at the time of tool breakage	Function to continue machining of a new workpiece using a spare tool when an abnormality occurs in the tool in use (A separate tool abnormality detection device is required)

Overall View

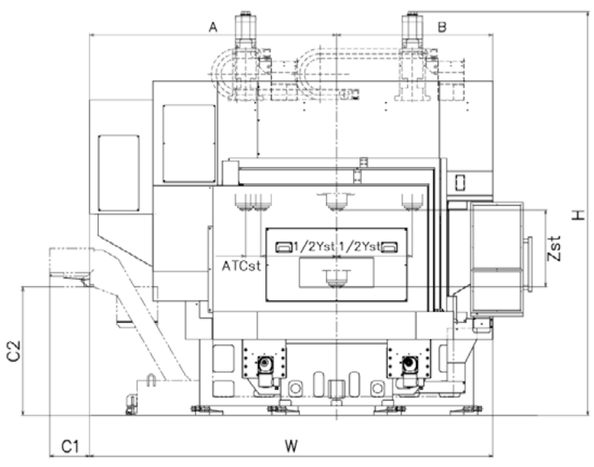
■ Floor Plan



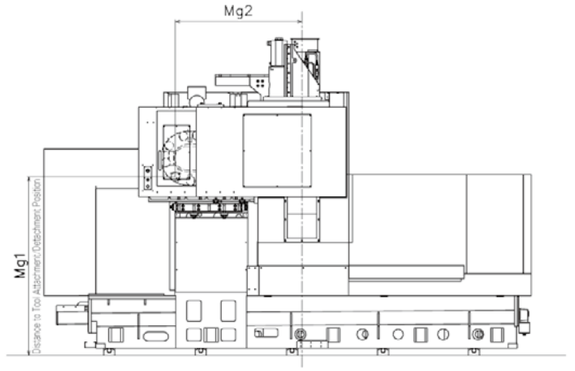
■ Front View



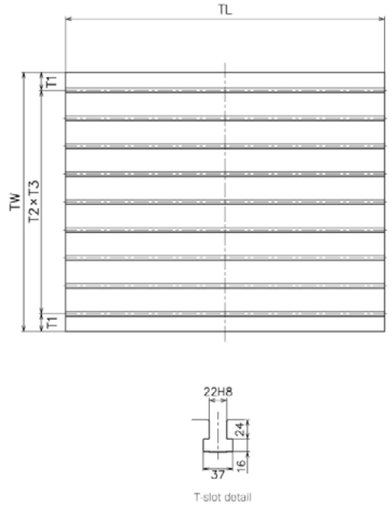
■ Side view



■ Rear View (30 Magazine Capacity)

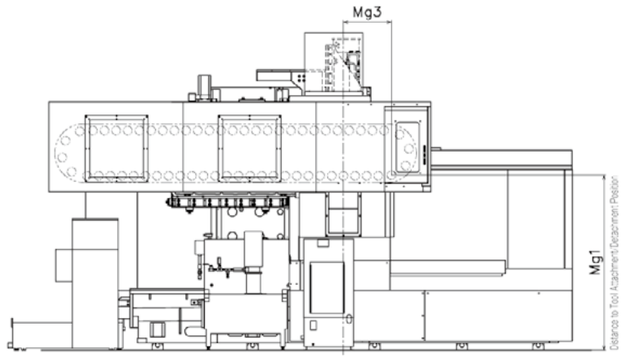


■ Table surface



T-slot detail

■ Rear View (60 Magazine Capacity)



		Machine Dimensions							Overall Dimensions including Maintenance Area		Stroke Length			
		L mm in	W mm in	H mm in	A mm in	B mm in	D mm in	E mm in	MW mm in	ML mm in	Xst. mm in	Yst. mm in	Zst. mm in	ATCst. mm in
MV12BxⅡ	Table 1.6m specification	5,800 228.4	3,460 136.2	3,460 136.2	2,120 83.5	1,340 52.8	2,500 98.4	2,810 110.6	5,595 220.3	6,300 248.0	1,600 63.0	1,300 51.2	660 26.0	130 5.1
	Table 1.6m specification + External chip conveyor	6,100 240.2	3,460 136.2	3,460 136.2	2,120 83.5	1,340 52.8	2,500 98.4	2,810 110.6	5,935 233.7	6,600 259.8	1,600 63.0	1,300 51.2	660 26.0	130 5.1
	Table 3.0m specification	8,640 340.2	3,460 136.2	3,560 140.2	2,120 83.5	1,340 52.8	4,080 160.6	3,810 150.0	5,760 226.8	9,140 359.8	3,000 118.1	1,300 51.2	660 26.0	130 5.1
	Table 3.0m specification + External chip conveyor	8,940 352.0	3,460 136.2	3,560 140.2	2,120 83.5	1,340 52.8	4,080 160.6	3,810 150.0	6,100 240.2	9,440 371.7	3,000 118.1	1,300 51.2	660 26.0	130 5.1
MV16BxⅡ		7,500 295.3	4,020 158.3	3,460 136.2	2,360 92.9	1,660 65.3	3,395 133.7	4,105 161.6	6,170 240.9	8,000 315.0	2,200 86.6	1,700 66.9	660 26.0	130 5.1
MV16BxⅡ+Orthogonal chip conveyor		7,790 306.7	4,020 158.3	3,460 136.2	2,360 92.9	1,660 65.3	3,395 133.7	4,105 161.6	6,495 255.7	8,290 326.4	2,200 86.6	1,700 66.9	660 26.0	130 5.1

		Table Dimension					Coolant Guard Dimension				Dimensions for Orthogonal Chip Conveyor	
		TL mm in	TW mm in	T1 mm in	T2 mm in	T3	G1 mm in	G2 mm in	G3*1 mm in	G4*1 mm in	C1*2 mm in	C2*2 mm in
MV12BxⅡ	Table 1.6m specification	1,600 63.0	1,300 51.2	90 3.5	140 5.5	8	1,675 65.9	900 35.4	1,305 51.4	300 11.8	- -	- -
	Table 1.6m specification + External chip conveyor	1,600 63.0	1,300 51.2	90 3.5	140 5.5	8	1,675 65.9	900 35.4	1,305 51.4	300 11.8	340 13.4	1,100 43.3
	Table 3.0m specification	3,000 118.1	1,300 51.2	90 3.5	140 5.5	8	3,020 118.9	1,130 44.5	2,610 102.8	300 11.8	- -	- -
	Table 3.0m specification + External chip conveyor	3,000 118.1	1,300 51.2	90 3.5	140 5.5	8	3,020 118.9	1,130 44.5	2,610 102.8	300 11.8	340 13.4	1,100 43.3
MV16BxⅡ		2,000 78.7	1,800 70.9	60 2.4	140 5.5	12	2,276 89.6	1,196 47.1	1,907 75.1	300 11.8	- -	- -
MV16BxⅡ+Orthogonal chip conveyor							2,276 89.6	1,196 47.1	1,907 75.1	300 11.8	325 12.8	1,100 43.3

MV12BxⅡ		Tool Replacement Position*3		
		Mg1 mm in	Mg2 mm in	Mg3 mm in
MV12BxⅡ MV16BxⅡ	30 Magazine Capacity (std.)	1,945 76.6	1,380 54.3	- -
	60 Magazine Capacity (opt.)	1,910 75.2	- -	525 20.7

*1 Dimensions when Ceiling-Mounted Coolant Guard is selected.
*2 Dimensions when choosing Orthogonal Chip Conveyor is selected.
*3 Please use a step stool with a height of approximately 600 mm to attach and detach tools to the magazine.

Nidec

All for dreams

Inquiry

NIDEC MACHINE TOOL CORPORATION

www.nidec.com/en/nidec-machinetool/

Europe & Asia Sales Management Department
Phone：+81-75-280-3932 Facsimile：+81-75-280-3931

Sales and Service bases

Nidec Drive Technology (Shanghai) Co., Ltd., Machine Tool Division, Shanghai office
3507-3508, Tower B, 100 Zunyi Road, Chang Ning District, Shanghai, 200051 P.R.China
Phone: +86-21-63800318
E-mail: nscc-koki@nidec-shimpo.com.cn

Nidec Drive Technology (Shanghai) Co., Ltd., Machine Tool Division, Shenzhen office
Room 739, 7th Floor, Dongming Building, Minkang Road, Zhangkeng Community, Minzhi Street, Longhua District, Shenzhen, 518131 P.R.China
Phone: +86-755-23765091

NIDEC MACHINE TOOL CORPORATION TAIPEI BRANCH
Room 1001, 10F, No. 88, Sec. 2, Jhongsiao E. Road, Jhongjheng District, Taipei City 100, Taiwan
Phone: +886-2-2395-6210 Facsimile: +886-2-2395-6230

NIDEC MACHINE TOOL (THAILAND) CO. LTD.
777 WHA Tower, 16th Fl., Room No. 1602, Moo 13, Debaratna (Bangna-Trad) KM. 7 Road, Bangkaew, Bangplee, Samutprakarn, 10540 Thailand
Phone: +66-2-001-9050 Facsimile: +66-2-001-9370

NIDEC DRIVE TECHNOLOGY INDIA PRIVATE LIMITED, Machine Tool Division, Delhi office
No.435, Regus Level 4, Rectangle No.1, Commercial Complex, D4, Saket New Delhi, Delhi 110017, India
Phone: +91-11-6654-4030

NIDEC DRIVE TECHNOLOGY INDIA PRIVATE LIMITED, Machine Tool Division
BVR Lake Front, No. 40/32/50/1/2, Nagavara Village, Kasaba Hobli, Near Ring Road, Veerannapalya, Arabi College Post, Bangalore -560 045, India
Phone: +91-80-4953-6579

PT NIDEC MOBILITY INDONESIA, Machine Tool Division
M Gold Tower, 20th floor unit A & B, Jl. KH.Kalimalang, RT.001/RW.012, Pekayon Jaya, Kec. Bekasi Sel., Kota Bks, Jawa Barat, Indonesia
Phone: +62-21-2808-7288

NIDEC DRIVE TECHNOLOGY KOREA CORPORATION, Machine Tool Division
#317, Kolon sciencevally Ⅱ, 55, Digital-ro 34-gil, Guro-gu, SEOUL 08378 KOREA
Phone: +82-2-2038-3537 Facsimile: +82-2-2038-3538

Nidec Machine Tool America LLC
46992 Liberty Drive, Wixom, MI 48393 U.S.A.
Phone: +1-248-669-6136
https://www.nidec-machinetoolamerica.com

NIDEC DRIVE TECHNOLOGY DE MEXICO, S. de R.L. de C.V. Machine Tool Division
Parque Industrial NAVEX PARK, Callejón de la Evangelización #106, Cal. Santa Maria Magdalena, Querétaro, Qro. 76137, México
Phone: +52-442-428-0087

NIDEC DRIVE TECHNOLOGY DO BRASIL LTDA., Machine Tool Division
Estrada General Motors, 852 – Galpão 11 &12, Indaiatuba - SP 13347-500 Brazil
Phone: +55-11-5071-0015

Nidec Drive Technology Europe GmbH, Machine Tool Division
Ludwigstrasse 9, 80539 Munich, Germany
Phone: +49-89-125030-780 Facsimile: +49-89-125030-781

Manufacturing bases

Federal Broach & Machine Company, LLC
1961 Sullivan Drive, Harrison, MI 48625 U.S.A.
Phone: +1-989-539-7420 Facsimile: +1-989-539-7381
https://federalbroach.com/

Southeast Broach Company - South Carolina LLC
431 S Buncombe Rd Greer, SC 29650 U.S.A.
Phone: +1-864-879-7641 Facsimile: +1-864-879-7693
https://www.sebroach.com/index-2.html

Nidec India Precision Tools Ltd.
No.2 SIPCOT Industrial Complex, Ranipet, Tamil Nadu, India
Phone: +91-4172-244361

Nidec Machine Tool (Changshu) Corporation
181 Huangpujiang Road,
Changshu New & Hi-tech Industrial Development Zone,
Changshu City, Jiangsu Province 215500, P.R. China
Phone: +86-512-5230-3030

NIDEC MACHINE TOOL (ZHEJIANG) CORPORATION
Building 1,No.901,Xinming Road,
Pinghu Economic Development Zone, Pinghu City,
Jiaxing City, Zhejiang Province, 314200, P.R. China
Phone: +86-182-5735-2025

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