NC Milling Machine

2 types of standard NC milling machines are available, both of which are universal models depending on volume and purpose of machining.

NC milling machine with general-purpose properties

Simply adding an NC system to a common general-purpose machine will not create a well-balanced NC milling machine that fully utilizes the features of the NC system and the machine. Our NC milling machines make full utilization possible. NC milling machines maintain general-purpose properties with carefully positioned handles and levers for each axis, but are also ideal in responding to both repeated machining with the NC program as well as small quantity machining with the guidance function.

2 types of machines with different speed control systems

General-purpose motor type NCR Series

16 different speed levels are available with controls located on the side of the spindle head.
Equipped with sufficient low rpm torque for a large-diameter tool.

Servo motor type SG Series

A knob on the operation panel for switch-overs allows easy speed changes during general operation.
The override can be set between 50% and 120%.

Advantages of an NC machine are arranged for easier use

Hand-rigid tapping function SG Series

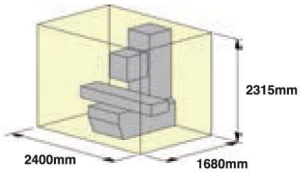
This function enables tapping with the handle feed. Under the 'Boring'menu of machining guidance, the 'Tapping'option enables tapping to be processed by the amount that the handle is turned, and allows the tapping to be stopped. The operator has the ability to stop the process manually in case of problems.
An operator can easily conduct tapping during the final procedure where no mistakes are permittable. The tapping function is a special function available from our company that shows our emphasis on general operation.

NCR Series-Features

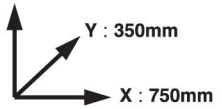
YZ-352NCR Spindle taper No.40 Spindle rotation speed 4000min^{-1}

Manual | Guidance | NC program

Required space



Z : 500mm (min115mm ~ 615mm)



Cutting capacity S50C

Face mill φ100mm 8 blades	
Cutting depth	4mm
S	500min^{-1}
F	375mm/min
End mill φ35mm 6 blades	
Cutting depth	30mm
S	180min^{-1}
F	65mm/min
Drill φ37mm	
S	230min^{-1}
F	57mm/min
Tap M30	
S	100min^{-1}
F	350mm/min

Machine specifications

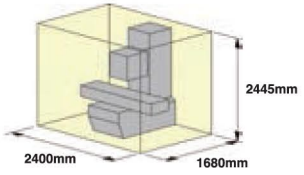
Working surface	1,400×350mm
X & Y axes travel	750×350mm
Z axis travel	500mm
Spindle speed	80~4000 [6000]min^{-1}
Spindle taper bore	7/24 taper ISO No.40
Tooling bolt shape	[MAS-I]
Tool shank shape	NT40 [BT40]
Rapid feed speed	6,000mm/min
Cutting feed rate (automatic)	0~6,000mm/min
Cutting feed rate (manual)	2~4,000mm/min
Motor power for spindle	3.7 kW
Required power	10 KVA
Weight (approx)	2600kg

※ [ ] indicates customized specifications.

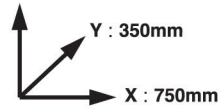
YZ-350NCR Spindle taper No.50 Spindle rotation speed 2000min^{-1}

Manual | Guidance | NC program

Required space



Z : 500mm (min130mm ~ 630mm)



Cutting capacity S50C

Face mill φ160mm 8 blades	
Cutting depth	1.5mm
S	315min^{-1}
F	384mm/min
End mill φ50mm 6 blades	
Cutting depth	33mm
S	120min^{-1}
F	44mm/min
Drill φ50mm	
S	120min^{-1}
F	24mm/min
Tap M39	
S	95min^{-1}
F	380mm/min

Machine specifications

Working surface	1,400×350mm
X & Y axes travel	750×350mm
Z axis travel	500mm
Spindle speed	55~2000 [3000][4000][45~1600]min^{-1}
Spindle taper bore	7/24 taper ISO No.50
Tooling bolt shape	[MAS-I / II]
Tool shank shape	NT50 [BT50]
Rapid feed speed	6,000mm/min
Cutting feed rate (automatic)	0~6,000mm/min
Cutting feed rate (manual)	2~4,000mm/min
Motor power for spindle	3.7 [5.5] kW
Required power	10 [14] KVA
Weight (approx)	2800kg

※ [ ] indicates customized specifications.