

# Machining Center

Change the general perception that 'machining center= mass production'!  
These machines enable mass and singular machining quickly and easily.

Similar general-purpose properties to NC milling machines

## Specialized handles and levers for manual operation

For easy operation close to the work piece, our machining center is equipped with handles and levers that are unusual for a machining center, designed so that the machine can flexibly handle easy setup before machining as well as machining during general operation.



Design with consideration of easy work piece setting

## Minimum-size covering and wide opening for easy access

Most models of common machining centers have limitations in the positioning of the work piece, but our machining center reduces the stressful work of positioning the work piece with a minimum-sized covering and wide opening. Our machining center has advantages that machining centers from other manufacturers do not have such as the ability to set up a long work piece. Even with our full-cover types, our machines have a wide opening and removable side covers in order to provide flexible usability as NC milling machines.



Tool changes possible either manually or automatically with easy operation

## Auto or manual selection for tool changes

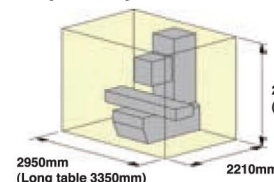
By enabling tool changes using the guidance function as well as the MDI operation, speedy and easy tool changes are now possible. You can change tools by selecting either tool numbers or pot numbers. The tool storage capacity is 24.



# Open type-Features

**YZ-400SGATC**  
Spindle taper No.50  
Spindle rotation speed 3000min<sup>-1</sup>  
ATC tool storage capacity : 24

## Required space



2546mm  
(High column 2746mm)

Manual

Guidance

NC program

Rigid tap

ATC 24

## Cutting capacity S45C

Face mill $\phi 160$ mm 8 blades	
Cutting depth	6mm
S	320min <sup>-1</sup>
F	250mm/min
End mill $\phi 50$ mm 6 blades	
Cutting depth	50mm
S	120min <sup>-1</sup>
F	40mm/min
End mill $\phi 50$ mm 2 blades	
S	120min <sup>-1</sup>
F	25mm/min
Tap M48 $\approx$ S50C	
S	40min <sup>-1</sup>
P	5

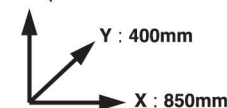
## Machine specifications

Working surface	1,400×400[1600×400]mm
X & Y axes travel	850×400 [1050×400]mm
Z axis travel	550[750]mm
Spindle speed	40~3000[4000][6000]min <sup>-1</sup>
Spindle taper bore	7/24 taper ISO No.50
Tooling bolt shape	MAS-II
Tool shank shape	BT50
Rapid feed speed	XY:10000 Z:8000 mm/min
Cutting feed rate (automatic)	0~6,000mm/min
Cutting feed rate (manual)	0~4,000mm/min
Motor power for spindle	7.5/11kW
Required power	21 KVA
Weight (approx)	5550kg

※ [ ] indicates customized specifications.

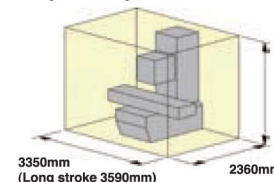


Z : 550mm (min150mm ~ 700mm)



**YZ-500SGATC**  
Spindle taper No.50  
Spindle rotation speed 3000min<sup>-1</sup>  
ATC tool storage capacity : 24

## Required space



2546mm  
(High column 2746mm)

Manual

Guidance

NC program

Rigid tap

ATC 24

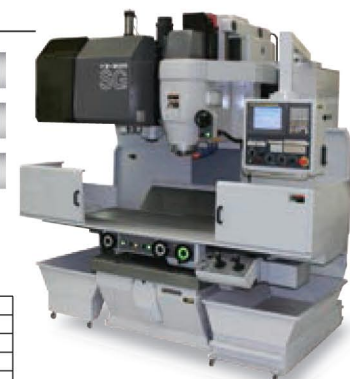
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Face mill $\phi 160$ mm 8 blades	
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Cutting depth	50mm
S	120min <sup>-1</sup>
F	40mm/min
End mill $\phi 50$ mm 2 blades	
S	120min <sup>-1</sup>
F	25mm/min
Tap M48 $\approx$ S50C	
S	40min <sup>-1</sup>
P	5

## Machine specifications

Working surface	1,600×500mm
X & Y axes travel	1050×550[1250×550]mm
Z axis travel	500[750]mm
Spindle speed	40~3000[4000][6000]min <sup>-1</sup>
Spindle taper bore	7/24 taper ISO No.50
Tooling bolt shape	MAS-II
Tool shank shape	BT50
Rapid feed speed	XY:10000 Z:8000 mm/min
Cutting feed rate (automatic)	0~6,000mm/min
Cutting feed rate (manual)	0~4,000mm/min
Motor power for spindle	7.5/11kW
Required power	21 KVA
Weight (approx)	6200kg

※ [ ] indicates customized specifications.



Z : 550mm (min150mm ~ 700mm)

