

# General-purpose Milling Machine

This machine can be operated as if it is a part of the body. The R Series is a general-purpose milling machine suitable for machining various of work pieces as well as small quantities.

Advantages of our design that allows manual operation on the Z axis and NC controlled operation on X and Y axes

## The advantage of manual operation on Z-axis

The most stressful process of machining is 'cutting into the work piece'. The ultimate advantage of manually operating on the Z-axis at this crucial stage is that it allows the most reliable tool to be used, that of the operator's hand. The operator can adjust the machining speed according to the feel. This 'live' feel provides both accuracy and speed, and is unmatched by machining with machine control.



## The advantage of NC controlled operation on X and Y axes

No matter how accurately and quickly an operator can operate manually, there is a limit. Overcoming limitations with the NC function will provide more effective machining.

For example, the positioning of arc and oblique cuts are not possible with a general-purpose machine.

The best possible capability is created by allocating work between the machine and its operator according to the strengths of each, and then combining their abilities. This combination is the most ideal relationship between a machine and a human..



# R Series-Features

## YZ-352R

Spindle taper No.40

Spindle rotation speed 4000min<sup>-1</sup>

Manual

Guidance

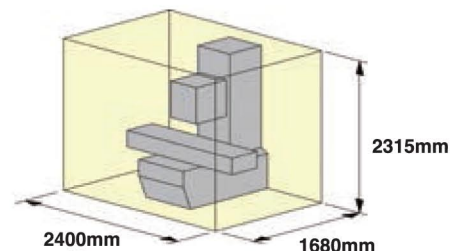
Z : 500mm (min115mm ~ 615mm)

Y : 350mm

X : 750mm



## Required space



## Cutting capacity

S50C

Face mill $\phi 100\text{mm}$ 5 blades	
Cutting depth	4mm
S	500min <sup>-1</sup>
F	375mm/min
End mill $\phi 35\text{mm}$ 6 blades	
Cutting depth	30mm
S	180min <sup>-1</sup>
F	65mm/min
Drill $\phi 37\text{mm}$	
S	230min <sup>-1</sup>
F	57mm/min
Tap M30	
S	100min <sup>-1</sup>
F	-

## Machine specifications

Working surface	1,400x350mm
Table T-slot width, number & pitch	18 <sup>#7</sup> mmx4 P=80mm
X & Y axes travel	750x350mm
Z axis travel	500mm
Spindle speed	80~4000min <sup>-1</sup>
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)	1~4,000mm/min
Motor power for spindle	3.7 kW
Required power	10 KVA
Weight (approx)	2500kg

※ [ ] indicates customized specifications.