



*Optimal Solutions for the Future*

# VC 3600



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**High productivity  
machining center  
equipped with  
dual pallet**

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**VC 3600**

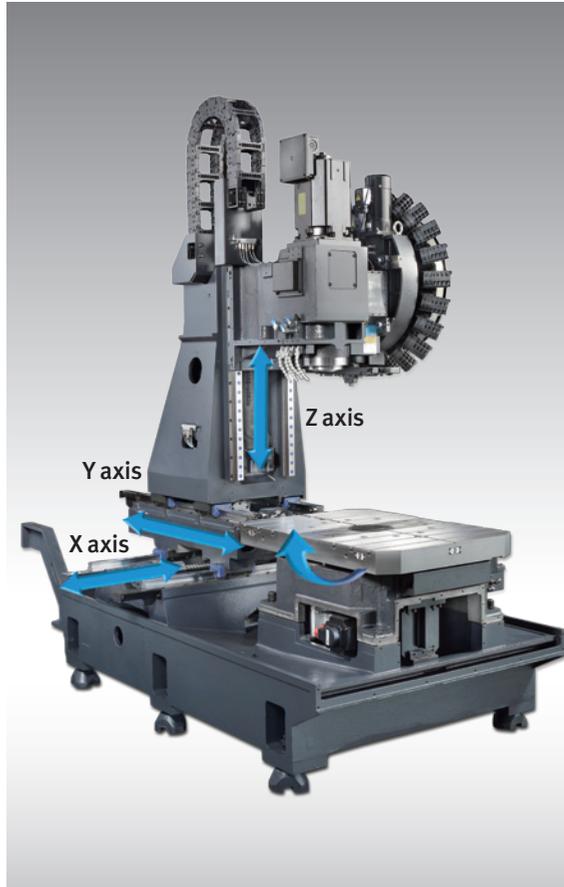
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ver. EN 160817 SU



### Basic structure

The VC 3600 vertical machining center is designed to maximize productivity, and is equipped with a new frame and servo unit, all of which enhance durability and performance.



Travel distance

**X axis 520 mm**  
(20.5 inch)

**Y axis 360 mm**  
(14.2 inch)

**Z axis 465 mm**  
(18.3 inch)

CNC system

**DOOSAN FANUC i**

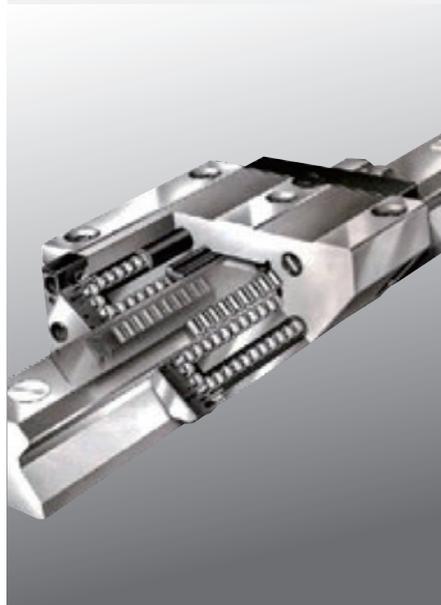


### Axis system

Environmentally friendly grease lubrication is adopted as standard for all of the axis feed system, and roller-type LM guides are provided to enhance the rigidity.

Rapid traverse rate

**X axis 48 m/min**   **Y axis 48 m/min**   **Z axis 48 m/min**  
(1890 ipm)                      (1890 ipm)                      (1890 ipm)



Roller-type LM guides are provided as a standard feature

Grease lubrication system

The standard grease lubrication system eliminates the need for an oil skimmer and reduces lubrication costs by about 60% compared to oil lubrication.

Yearly maintenance cost

Max. **60%** ↓



Grease lubrication for all axes is a standard feature

## Spindle

To enhance precision and powerful machining capability, direct coupled and dual contact spindle are provided as standard features. Also, spindle maximum power and torque characteristic is upgraded compare to previous model.



Max. spindle speed

**12000 r/min**

Max. spindle motor power

**18.5 kW (24.8 Hp)**

Max. spindle motor torque

**95 N·m (70.1 lbf·ft)**

## Auto pallet change system (APC)

A servo driven APC has been adopted as a standard feature to further reduce pallet change time while maximizing productivity and reliability.

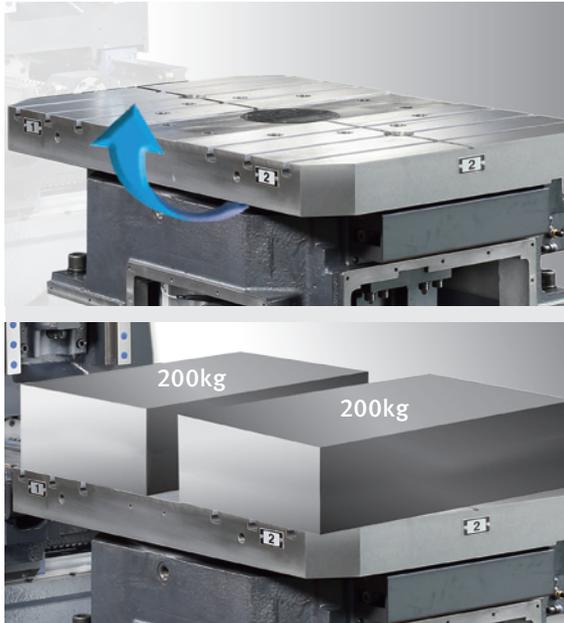


Table size

**2-650x375 mm**  
(2-25.6x14.8 inch)

Pallet change time

**2.9 s** (120 kg workpiece is loaded on one face)

Max. workpiece weight

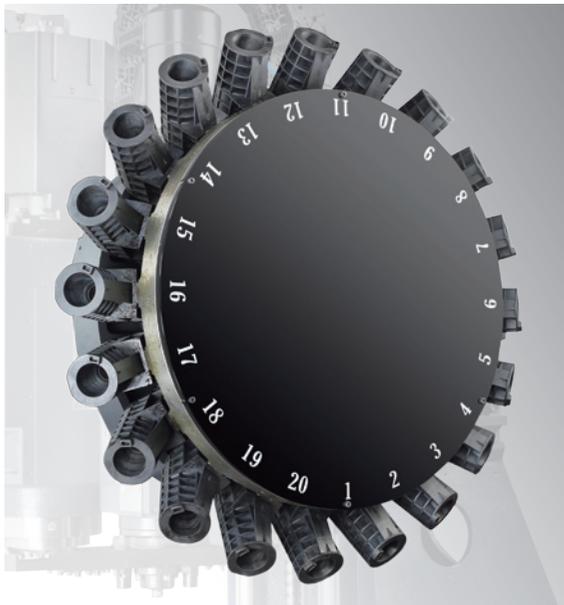
**2-200 kg (2-441 lb)**

Max. workpiece height

**300 mm (11.8 inch)**

## Auto tool change system (ATC)

Tool change time had been optimized to reduce non cutting time. The highly-reliable tool magazine can accommodate up to 20 tools as standard.



Tool storage capacity

**20 ea**

Tool to Tool time

**1.3 s**

Chip to Chip\* time

**2.6 s**

\* The chip to chip time has been tested in accordance with Doosan's strict testing conditions, but may vary depending on the user's operating conditions.

## Major specifications

### VC 3600



Description	Unit	VC 3600
Max. spindle speed	r/min	12000
Max. spindle power	kW (Hp)	18.5 (24.8)
Max. spindle torque	N·m (lbf·ft)	95 (70.1)
Taper	-	ISO #40
Travel distance (X / Y / Z)	mm (inch)	520 / 360 / 465 (20.5 / 14.2 / 18.3)
Tool storage capacity	ea	20
Table size	mm (inch)	2-650 x 375 (2-25.6 x 14.8)
Max. workpiece weight	kg (lb)	2-200 (2-441)
Machine size (Width x Length* x Height**)	mm (inch)	1900 x 3330 x 2657 (74.8 x 131.1 x 104.6)
CNC system	-	DOOSAN FANUC i

\* without chip conveyor \*\* with Top cover



## Doosan Machine Tools

<http://www.doosanmachinetools.com>

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\* For more details, please contact Doosan Machine Tools.

\* The specifications and information above-mentioned may be changed without prior notice.

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