



*Optimal Solutions for the Future*

# **DNM 500 / 50 II**

# **DNM 650 / 50 II**



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**ISO #50, High  
Productivity Vertical  
Machining Center**

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**DNM 500 / 50 II**  
**DNM 650 / 50 II**

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ver. EN 160530 SU

## Basic structure

LM guide way is adopted as standard for all the axis feed system to easy maintenance, and High rigidity column is adopted for heavy duty machining performance .

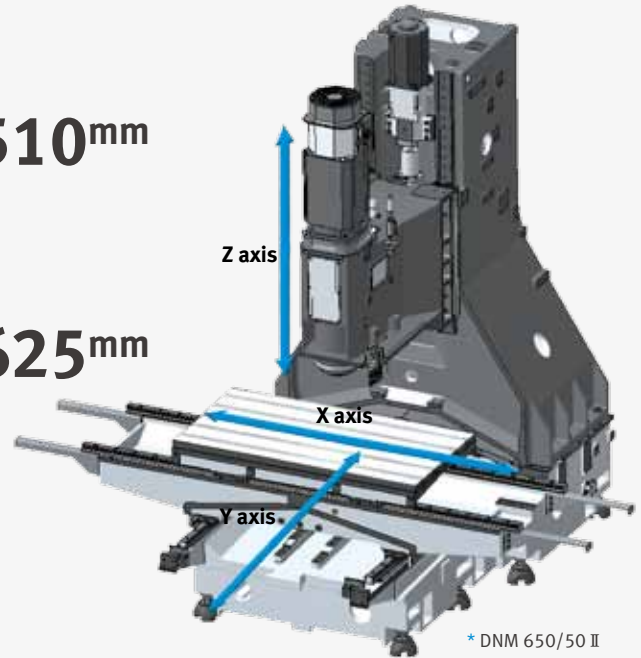
Travel distance (X x Y x Z axis)

**DNM 500/50 II**

**1020 x 540 x 510mm**  
(40.2 / 21.3 / 20.1 inch)

**DNM 650/50 II**

**1270 x 670 x 625mm**  
(50.0 / 26.4 / 24.6 inch)



## Axis system

Roller-type LM Guides are provided to enhance the rigidity.

Rapid traverse rate (X / Y / Z axis)

**36 / 36 / 30m/min**  
(1417.3 / 1417.3 / 1181.1 ipm)

Roller LM guideway life is longer about twice than Ball LM guideway



## Table

This machining center offers workpiece capacity from 400 to 670 mm in the Y axis, enabling the user to handle a wider range of workpieces.

Table size (A x B)

**DNM 500/50 II**

**1200 x 540 mm**  
(47.2 / 21.3 inch)

**DNM 650/50 II**

**1300 x 670 mm**  
(51.2 / 26.4 inch)

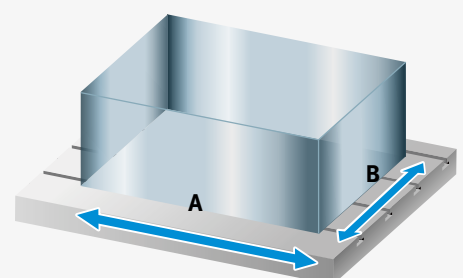
Max weight on Table

**DNM 500/50 II**

**800kg**  
(1763.7 lb)

**DNM 650/50 II**

**1000kg**  
(2204.6 lb)



## Spindle

Direct-coupled type spindles have been adopted as a standard feature to further reduce vibration and noise while enhancing productivity, work environment and machining accuracy.

Max. spindle speed

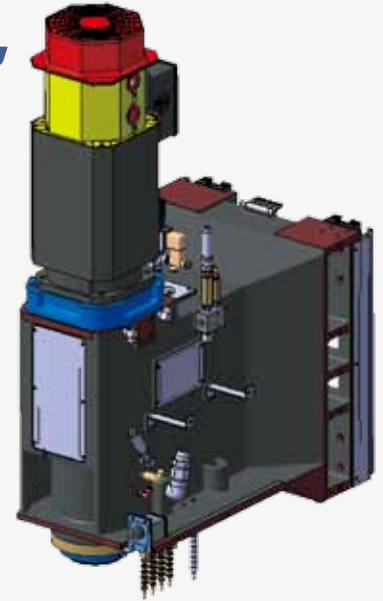
**8000 r/min**    **10000 r/min** option

Max. spindle motor power

**22 / 11 kW**    **26 / 22 kW** option  
 (29.5 / 14.8 Hp)    (38.9 / 29.5 Hp)

Max. spindle motor torque

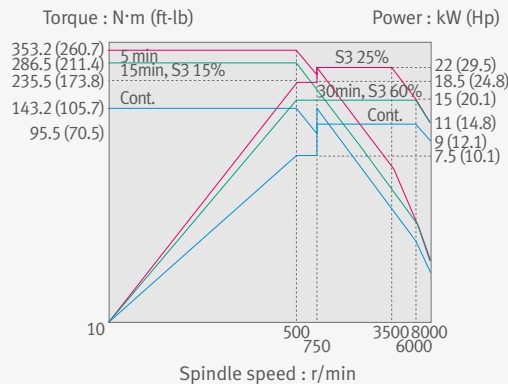
**353.2 N·m**    **165.5 N·m** option  
 (260.7 ft-lb)    (122.1 ft-lb)



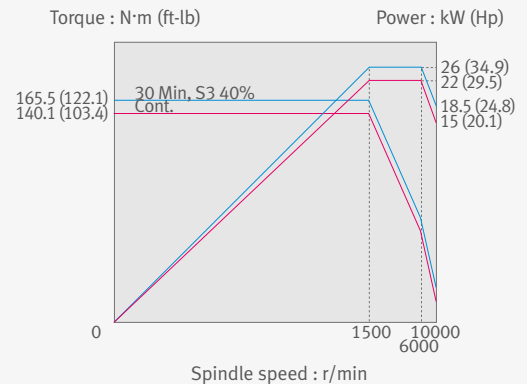
\* Direct coupled spindle of DNM 650/50 II

### Spindle Power – Torque Diagram

**8000r/min**



**10000r/min** option



## Tool change system

Higher productivity can be achieved with the CAM-type tool changer that supports faster tool changing.

Tool to Tool **2.5s**

Chip to Chip\* **5.5s**

Tool storage capacity **24ea**

**30ea** (DNM 650 / 50 II option)



\* 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

### DNM 500 / 50 II DNM 650 / 50 II



Description	UNIT	DNM 500 / 50 II	DNM 650 / 50 II
Max. spindle speed	r/min	8000 {10000}*	
Max. spindle power	kW (Hp)	22 / 11 {26 / 22}* (29.5 / 14.8 {38.9 / 29.5}*)	
Max. spindle torque	N·m (lbf·ft)	353.2 {165.5}* (260.7 {122.1}*)	
Taper	-	ISO #50	
Travel distance (X / Y / Z)	mm (inch)	1020 / 540 / 510 (40.2 / 21.3 / 20.1)	1270 / 670 / 625 (50.0 / 26.4 / 24.6)
Tool storage capa.	ea	24	24 {30}*
Table size	mm (inch)	1200 x 540 (47.2 x 21.3)	1300 x 670 (51.2 x 26.4)
NC system	-	DOOSAN FANUC i	

{ } Option



## 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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