DOOSAN

DVF 6500/8000

High Precision Vertical
5-axis Machining Center of
Rotary Table Ø650/800mm Class

MACHINE GREATNESS™

Basic Structure

Provides high rigidity and stable structure by direct axis connection.

DVF 6500 / 8000 Travel distance

X-axis **750/1000** mm
(29.5 / 39.4 inch)

Y-axis **785/900** mm
(30.9 / 35.4 inch)

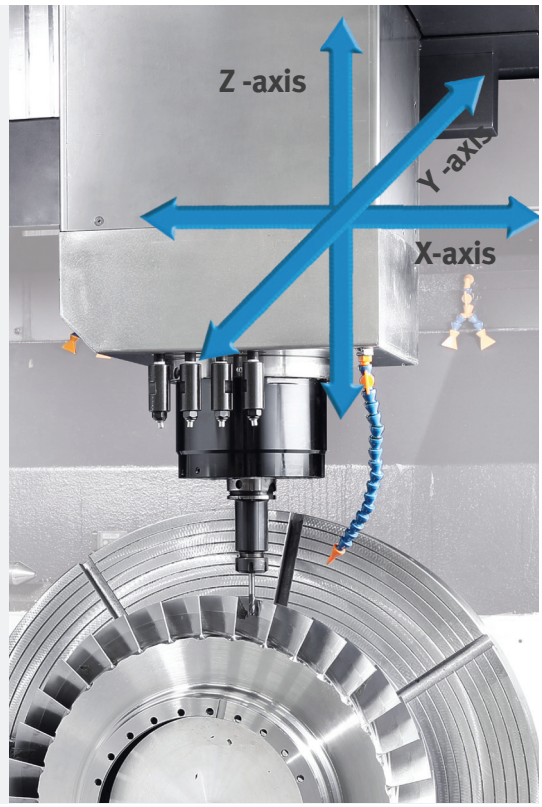
Z-axis **600/685** mm
(23.6 / 27.0 inch)

Rapid traverse

X-axis **45** m/min
(1771.7 ipm)

Y-axis **45** m/min
(1771.7 ipm)

Z-axis **45** m/min
(1771.7 ipm)



Spindle

We provide stable machining performance with high speed direct and built-in spindle.

Max. Spindle speed

12000/18000 r/min option

Max. Spindle motor power

HEIDENHAIN

30/30 kW option
(40.2/40.2 Hp)

FANUC

22/22 kW option
(29.5/29.5 Hp)

Max. Spindle torque

HEIDENHAIN

155/155 N·m option
(114.4/114.4 ft-lbs)

FANUC

204/118 N·m option
(150.6/87.1 ft-lbs)

Magazine

Servo magazine as standard for high productivity and accuracy.

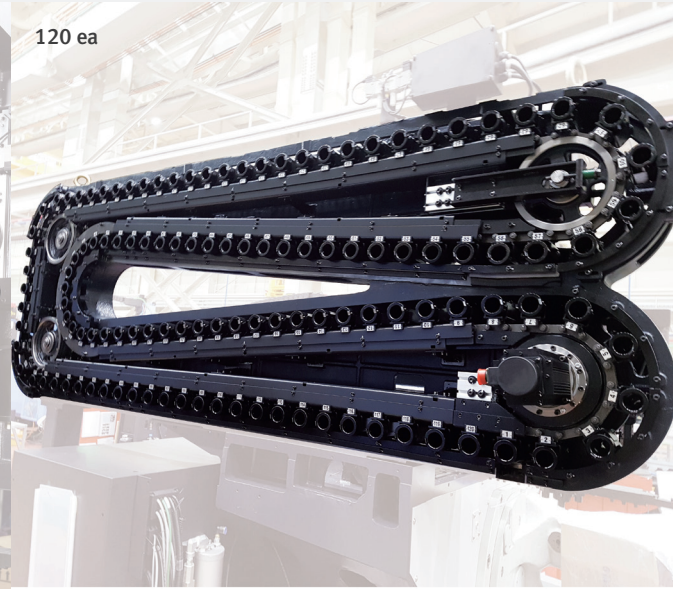
Servo magazine

40 ea

(60 / 90 / 120 ea) option

Tool to Tool

1.3 sec

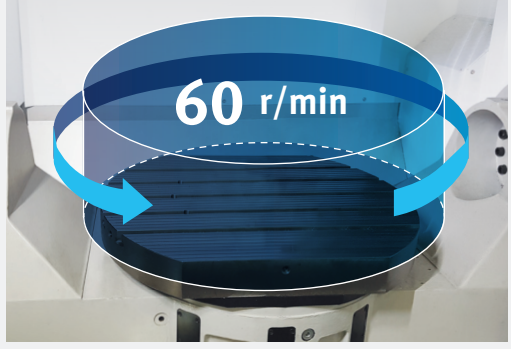


Table

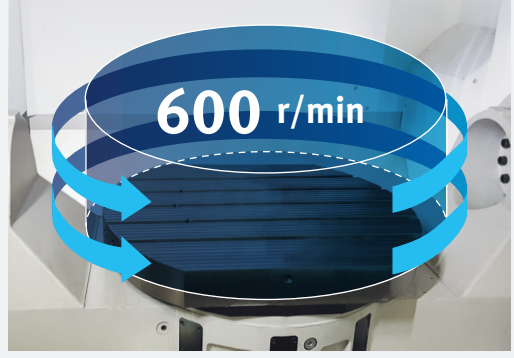
Various table specifications from standard specification to DD and turning function

		DVF6500		DVF8000		DVF8000T	
APC		W/O APC	W APC	W/O APC	W APC	W/O APC	W APC
Table		Mill	Mill	Mill	Mill	Mill(/w Turn)	Mill(/w Turn)
Table diameter	mm (inch)	Ø650 x 600 (Ø25.6 x 23.6)	500 x 500 (19.7 x 19.7)	Ø800 x 680 (Ø31.5 x 26.8)	630 x 630 (24.8 x 24.8)	Ø800 (Ø31.5)	-
Work piece dimension	mm (inch)	Ø840 x 500 (Ø33.1 x 23.6)	Ø630 x 430 (Ø24.8 x 16.9)	Ø1000 x 590 (Ø39.4 x 23.2)	Ø730 x 490 (28.7 x 19.3)	Ø1000 x 590 (Ø39.4 x 23.2)	Ø730 x 490 (28.7 x 19.3)
Speed table	rpm	50{80}	50{80}	60	60	600	600
Work load	kg(lb)	600 (1322.8)	500 (1102.3)	1400 (3086.5)	850 (1873.9)	700 (1543.2)	-

DVF 8000 DDM table



DVF 8000 DDM table /w Turning function option



* APC (Auto pallet changer)

Major Specifications

DVF 6500/8000

Description			Unit	DVF 6500	DVF 8000	DVF 8000T
Travel	Travel distance	X-axis	mm (inch)	750 (29.5)	1000 (39.4)	
		Y-axis	mm (inch)	785 (30.9)	900 (35.4)	
		Z-axis	mm (inch)	600 (23.6)	685 (27.0)	
		A-axis	deg	±120	±120	
		C-axis	deg	360	360	
Feedrate	Rapid traverse	X-axis	m/min (ipm)	45 (1771.7)		
		Y-axis	m/min (ipm)	45 (1771.7)		
		Z-axis	m/min (ipm)	45 (1771.7)		
		A-axis	r/min	25		
		C-axis	r/min	50{DD : 80}	60	600
Spindle	Max. Spindle speed		r/min	12000 {18000}*		18000
	Max. Spindle power		kW (Hp)	FANUC : 22 {22}* (29.5 {29.5}) H/H : 30 {30}* (40.2 {40.2})		H/H : 30 (40.2)
	Max. Spindle Torque		N·m (ft-lbs)	FANUC : 204 {118}* (150.6 {87.1}) H/H : 155 {155}* (114.4 {114.4})		H/H : 155 (114.4)
	Tool shank		-	ISO #40		HSK T63
Table	Table size		mm (inch)	Ø650 x 600 (Ø25.6 x 23.6)	Ø800 x 680 (Ø31.5 x 26.8)	Ø800 (Ø31.5)
	Max. Work size		mm (inch)	Ø840 x 500 (Ø33.1 x 23.6)	Ø1000 x 590 (Ø39.4 x 23.2)	
	Max. Work load		kg (lb)	600 (1322.8)	1400 (3086.5)	700 (1543.2)
ATC	Tool capacity		ea	40 {60, 90, 120}*		
Machine Dimensions	Length x Width		mm (inch)	3700 x 2450 (145.7 x 96.5)	4097 x 2950 (161.3 x 116.1)	

* { } : Option

Doosan Machine Tools

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* The specifications and information above-mentioned may be changed without prior notice.
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Fire Safety Precautions | There is a high risk or fire when using non-water-soluble cutting fluids, processing flammable materials, neglecting use coolants and modifying the machine without the consent of the manufacturer. Please check the SAFETY GUIDANCE carefully before using the machine.

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