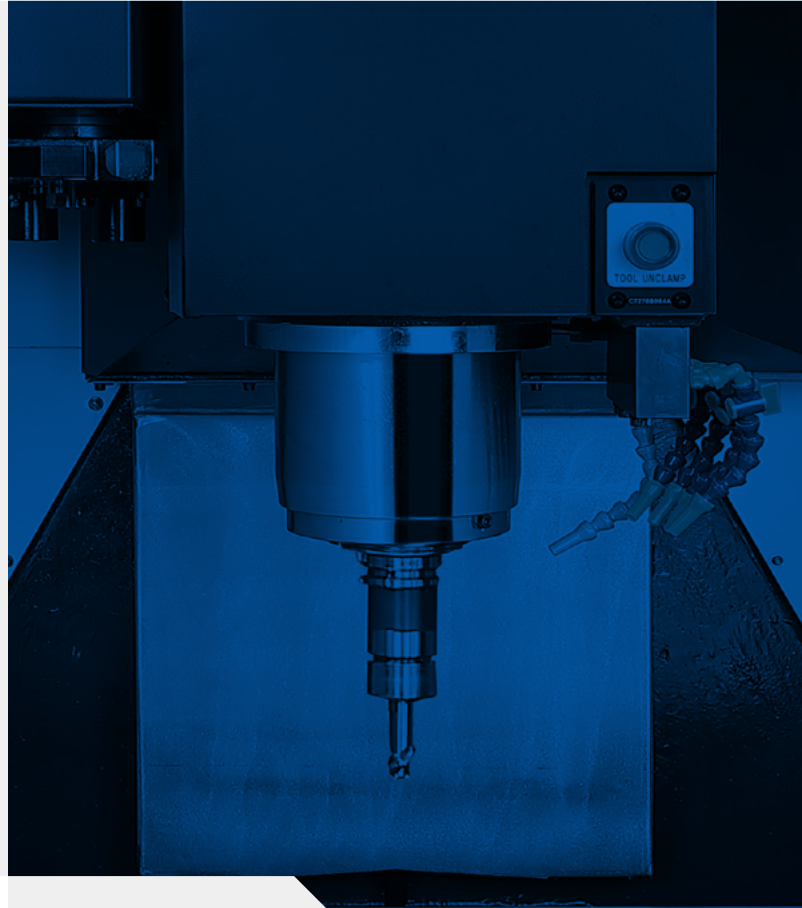


HIGH PERFORMANCE VERTICAL
MACHINING CENTER FOR DIE / MOLD MACHINE

VM 5400·6500

VM 5400

VM 6500



VM 5400·6500

The efficiency and competitiveness achieved by the user is optimised by the core features which are standard on the machine. These include face / taper contact spindle nose (BT40), effective spindle cooling system and air blower for chip removal when dry cutting. These features contribute to the machine's capability to produce high quality dies and moulds.

CONTENTS

Product Overview

Basic Information

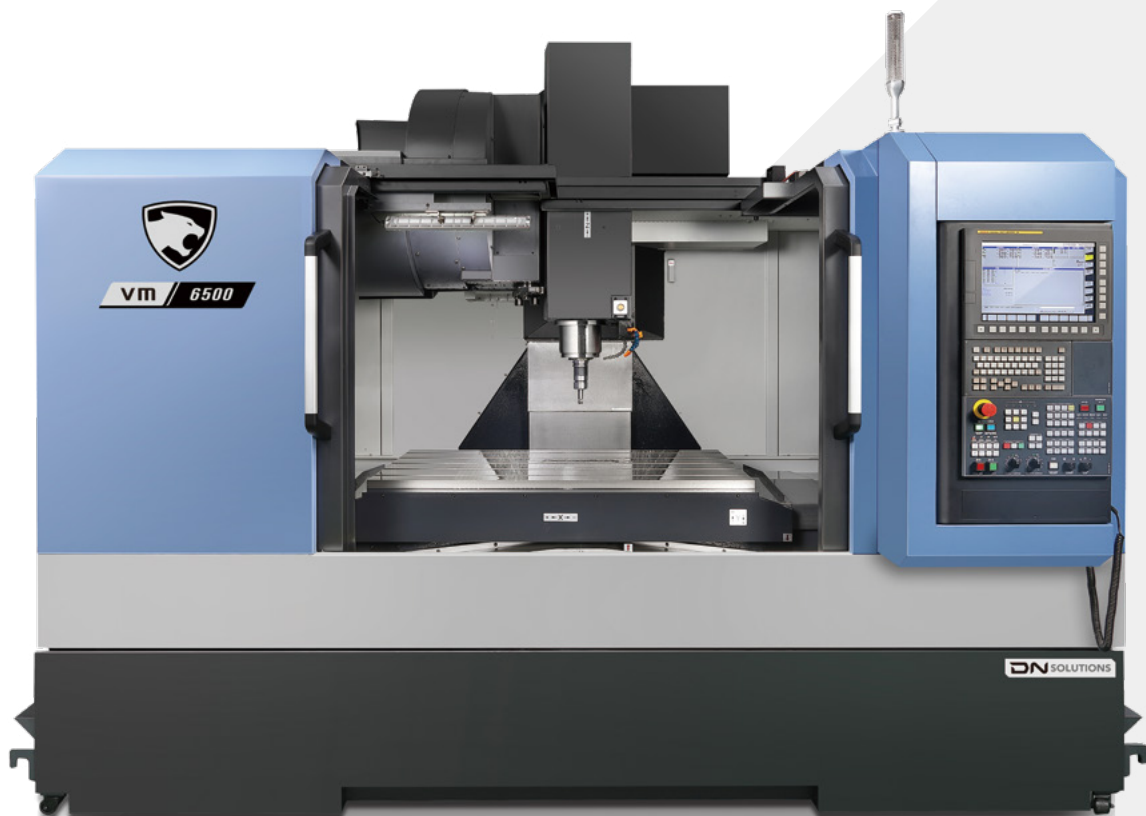
- 04** Basic Structure
- 05** Spindle
- 06** Optimized Tool Processing Solution
- 07** Die & Mold Solution

Detailed Information

- 08** Standard / Optional Specifications
- 09** Peripheral Equipment
- 10** FANUC 32iB PLUS
- 11** EZ WORK
- 13** HEIDENHAIN TNC620
- 14** Power | Torque
- 15** Dimensions
- 17** Machine Specifications

Customer Support Service

- 19** Customer Support and Services
- 19** Global Network



HIGH RIGIDITY STRUCTURE



- The arch style minimizes deformation during heavy duty cutting and maintains stable precision levels.

HI-SPEED, HI-PRECISION SPINDLE



- High torque 15.6 kW serial spindle motor ensures stable precision levels in machining metal molds.

CONVENIENCE IMPROVEMENTS FOR OPERATOR



- Various chip handling devices are provided for enhanced user convenience.



BASIC STRUCTURE

In addition to higher durability and an excellent vibration absorption feature, the static stiffness and dynamic stiffness have been improved by 30%, thanks to the Finite Element Method (EFM).

High Rigidity

The highly-rigid body found on the VM series enables exceptionally heavy-duty machining.

High Rigidity Design

High Rigidity construction is achieved by 3D computer simulation.

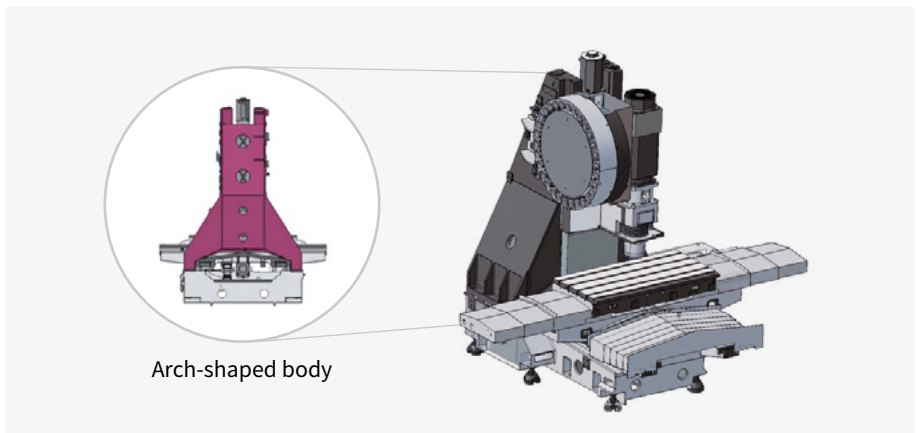
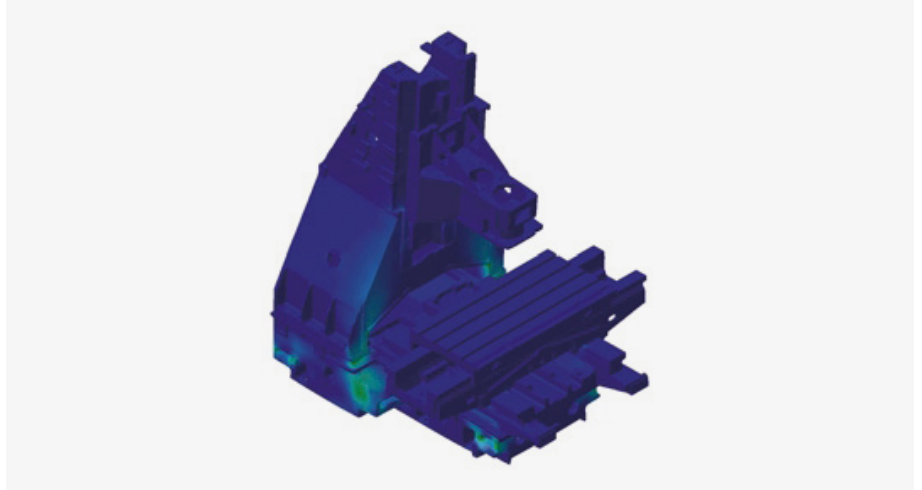
Static rigidity

The high rigidity structure of VM series has raised the static rigidity up by 30% more than previous model with no weak point through FEM analysis.

Dynamic rigidity

Improving the frequency response and the damping ability of vibration makes it possible to increase the high eigenfrequency 30% up on the previous model.

The highly-rigid body structure is obtained by using the latest FEM analysis method, which optimizes the static and dynamic stiffness characteristics of the VM series. The resulting arch-shaped body structure provides an unrivalled level of rigidity, enabling an unsurpassed performance in heavy-duty machining.

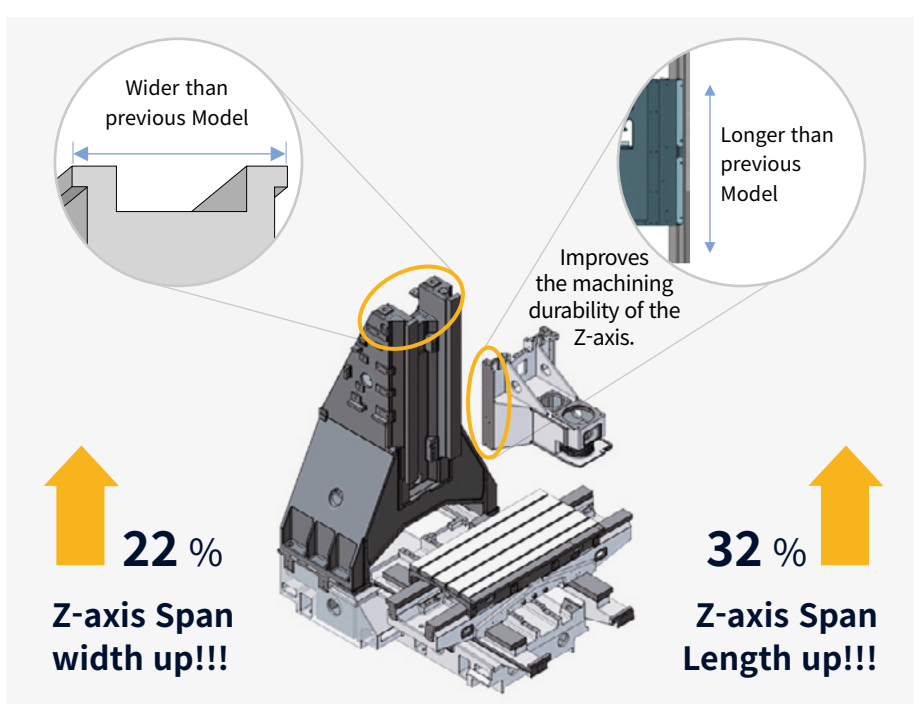


Broader Box Guideways

Compared to the previous models, the broader box guideways greatly improve the machine's dynamic characteristics.

Scraping of surface

The sliding surface of each guideway is bonded with Rulon® 142 to reduce friction, then hand scraped for a perfect fit.



SPINDLE

The unsurpassed quality and accuracy of the VM series achieves world-class performance in the machining of die & mold products.

Spindle motor power

15.6 kW (20.9 Hp)

Max. spindle speed

12000 r/min

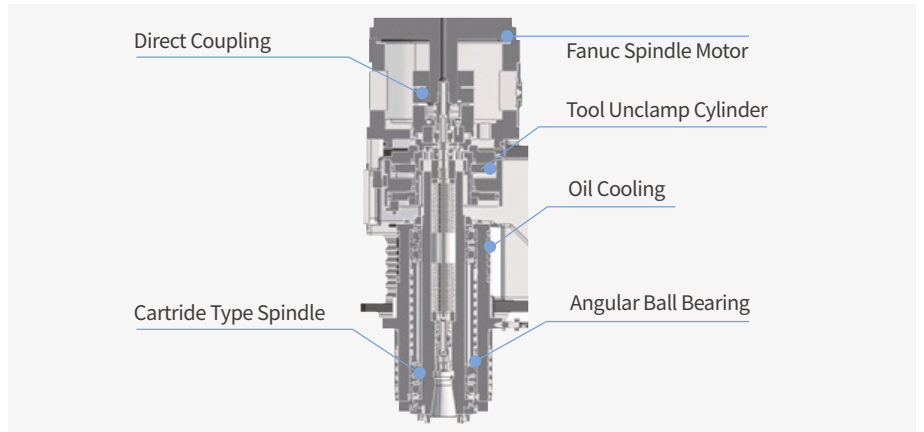


High Speed / Precision Built-in Spindle

Since the main spindle is supported by 4 rows of P4 level high precision bearings, it maintains stable precision under high speed cutting operation for long periods. Moreover, the high torque 15.6 kW (20.9 Hp) direct connection type main spindle motor is equipped for high speed mold processing.

Direct-coupled Spindle

Minimization of direct-connection type main spindle thermal deformation



Low friction and heat generation of main spindle

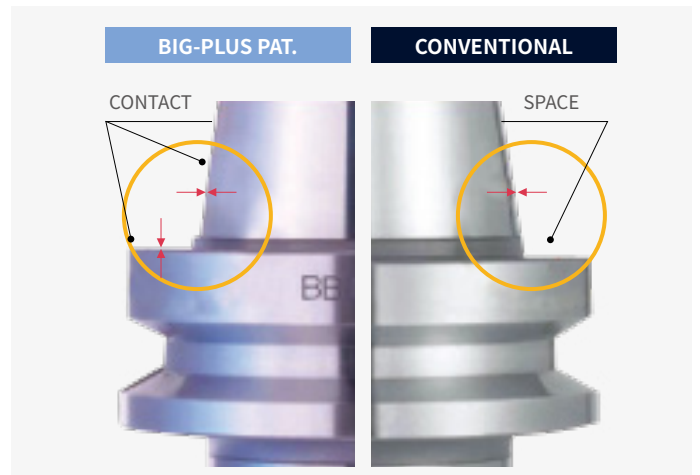
Main spindle head cooling system

Actualization of low noise in accordance with adoption of special grease lubrication for main spindle cooling device and dramatic reduction of compressed air consumption allows minimization of main spindle thermal deformation.



Face / taper contact spindle (BBT40)

Common utilization of BT40 Tool and 2-face binding tool (BIG PLUS)

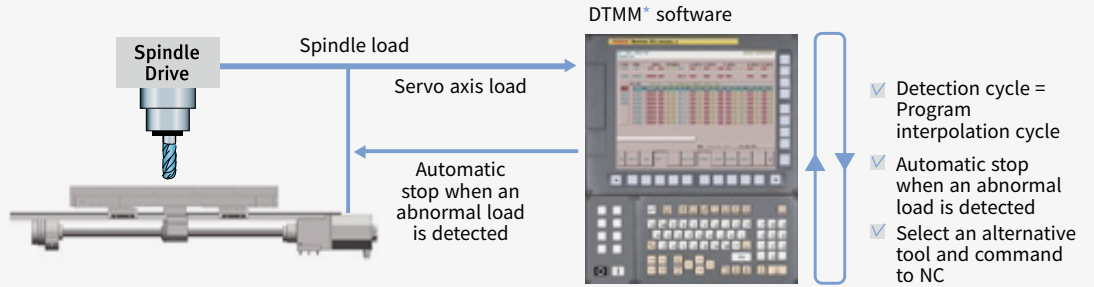


OPTIMIZED TOOL PROCESSING SOLUTION

Superior surface finishes and machining accuracy are achieved through using standard processing solutions such as high-speed / high - precision contour control and thermal displacement compensation.

Tool load monitoring system (DTMM*)

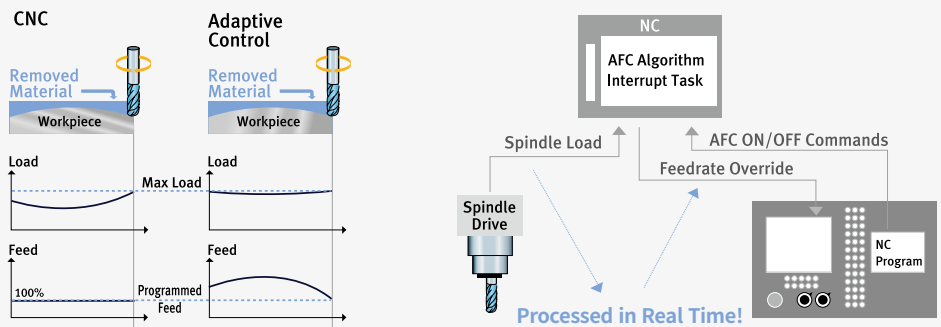
The technology of protecting tool and machine in abnormal load during the cutting process



*DTMM : DN Solutions Tool load Monitoring for Machining Centers

The optimal feed control (DAFC*)

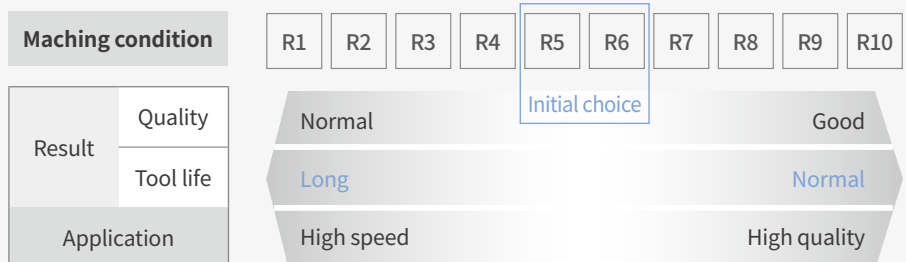
Optimal feed control is ensured by realtime spindle load detection.



*DAFC : DN Solutions Adaptive Feedrate Control

Machining condition selection function

- It is possible to change machining condition in 10 steps by using R code at the program.
 - ▶ Improving productivity (high speed at rough machining, high precision at precision machining)
- NC parameter such as maximum feed and acceleration time constant can be set automatically.



DIE & MOLD SOLUTION

The VM Series provides ultra-precise machining capability using high speed / precision contour feed control and the optimum machine stability.

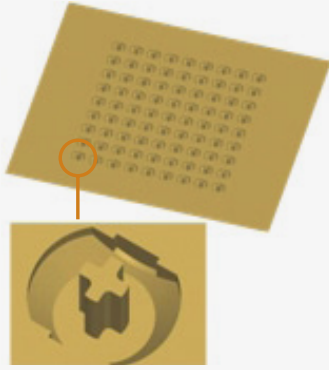
The comparison of cycle time (actual result)

Cycle time of rubber die machining

A competitor's machine 42hr 20min

VM 5400 37hr 50min ←

12% up



PDA mold processing

A competitor's machine 1hr 48min 38s

VM 5400 1hr 23min 29s ←

12% up



VASE (Verification sample) cycle time

A competitor's machine 25min 42s

VM 5400 23min 26s ←

8% up

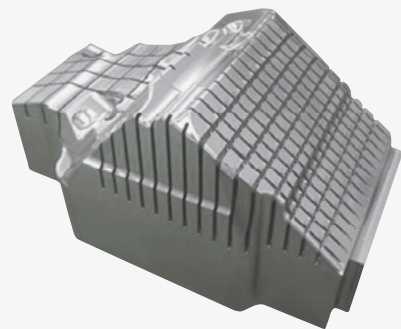


Air filter mold processing

A competitor's machine 89hr 42min

VM 5400 80hr 55min ←

10% up



STANDARD | OPTIONAL SPECIFICATIONS

A range of options is available to suit individual requirements.

Description	Features		VM 5400	VM 6500	
Spindle	12000 r/min	15.6/15.6kW , 165.5 N.m	<input type="checkbox"/>	<input type="checkbox"/>	
Magazine	Tool storage capacity	30 40	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>	
	Tool shank type	ISO #40	<input type="checkbox"/>	<input type="checkbox"/>	
Coolant	Flood(Max pressure 60Hz(50Hz), Pump motor power)	0.16(0.12)MPa / 0.4kW 1.0(0.75)MPa / 1.1kW 2.0(1.9)MPa / 1.5kW	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
	TSC (Max pressure 60Hz(50Hz), Pump motor power)	2.0(1.3)MPa / 4.0kW 2.0MPa / 4.0kW 3.0(3.0)MPa / 2.9kW	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	
		7.0MPa / 7.5kW	<input type="checkbox"/>	<input type="checkbox"/>	
		Shower	0.1(0.065)MPa / 1.1kW	<input type="checkbox"/>	<input type="checkbox"/>
	Coolant gun	0.2(0.15)MPa / 0.6kW	<input type="checkbox"/>	<input type="checkbox"/>	
	Chip pan	-	<input type="checkbox"/>	<input type="checkbox"/>	
Chip disposal	Chip conveyor	Type	Hinged plate Magnetic scraper	<input type="checkbox"/> <input type="checkbox"/>	
		Outlet direction	Right side Left side	<input type="checkbox"/> <input type="checkbox"/>	
	Chip bucket	Capacity	300 L	<input type="checkbox"/>	<input type="checkbox"/>
		Type	ROTATION FORKLIFT	<input type="checkbox"/> <input type="checkbox"/>	<input type="checkbox"/> <input type="checkbox"/>
Precision machining option	Linear scale	X / Y / Zaxis	<input type="checkbox"/>	<input type="checkbox"/>	
Measurement & Automation	Automatic tool measurement		<input type="checkbox"/>	<input type="checkbox"/>	
	Automatic tool breakage detection	Schubert system elektronik GmbH / BK97 (Needle type in cutting area)	<input type="checkbox"/>	<input type="checkbox"/>	
	Automatic workpiece measurement		<input type="checkbox"/>	<input type="checkbox"/>	
Accessories	Work light	LED lamp	<input type="checkbox"/>	<input type="checkbox"/>	
	Operator call lamp	3-Color sigal tower(LED)	<input type="checkbox"/>	<input type="checkbox"/>	
	Leveling block & bolt		<input type="checkbox"/>	<input type="checkbox"/>	
	Smart thermal control	Sensorless type(only spindle)	<input type="checkbox"/>	<input type="checkbox"/>	
	Assembly & operation tools kits		<input type="checkbox"/>	<input type="checkbox"/>	
	Air blower		<input type="checkbox"/>	<input type="checkbox"/>	
	4th axis preparation cabling for servo/ 1-pneumation piping	Factory ready made	<input type="checkbox"/>	<input type="checkbox"/>	
	Air gun		<input type="checkbox"/>	<input type="checkbox"/>	
	Coolant gun		<input type="checkbox"/>	<input type="checkbox"/>	
	Customized special option	Anchoring ⁽¹⁾	Side clamp & Chemical anchor bolt	<input type="checkbox"/>	<input type="checkbox"/>
Water soluble Coolant Chiller ⁽²⁾			<input type="checkbox"/>	<input type="checkbox"/>	
TSA ⁽³⁾		0.54	<input type="checkbox"/>	<input type="checkbox"/>	
Feedback system		X axis	HEIDENHAIN	<input type="checkbox"/>	<input type="checkbox"/>
		Y axis	HEIDENHAIN	<input type="checkbox"/>	<input type="checkbox"/>
		Z axis	HEIDENHAIN	<input type="checkbox"/>	<input type="checkbox"/>
Raising block		150 mm		<input type="checkbox"/>	<input type="checkbox"/>
		200 mm		<input type="checkbox"/>	<input type="checkbox"/>
		300 mm		<input type="checkbox"/>	<input type="checkbox"/>
Chip conveyor		Drum chip conveyor with hinged plate		<input type="checkbox"/>	<input type="checkbox"/>
		Drum chip conveyor with scraper		<input type="checkbox"/>	<input type="checkbox"/>
		Outlet direction - Rear side type		<input type="checkbox"/>	<input type="checkbox"/>
Fine dust protecting package		Wet machining	Bellows cover(X/Y/Z)	<input type="checkbox"/>	<input type="checkbox"/>
			Protect cover(X-axis)	<input type="checkbox"/>	<input type="checkbox"/>
			Ball screw bellows cover(X/Y)	<input type="checkbox"/>	<input type="checkbox"/>
			Guide wat double wiper	<input type="checkbox"/>	<input type="checkbox"/>
		Dry machining	Protect cover(X-axis)	<input type="checkbox"/>	<input type="checkbox"/>
			Ball screw bellows cover(X/Y)	<input type="checkbox"/>	<input type="checkbox"/>
			Guide wat double wiper	<input type="checkbox"/>	<input type="checkbox"/>
			ATC full closed cover	<input type="checkbox"/>	<input type="checkbox"/>
Side out door	680 X 1000 (W X H)		<input type="checkbox"/>	<input type="checkbox"/>	
AWC	8pallet		<input type="checkbox"/>	<input type="checkbox"/>	
Auto tool length measurement	RENISHAW / LTS		<input type="checkbox"/>	<input type="checkbox"/>	
Auto tool breakage detection	MSC/BK9(Needle type on magazine)		<input type="checkbox"/>	<input type="checkbox"/>	

* Please contact DN Solutions to select detail specifications.

*If this option is selected, the TSA(Through Spindle Air) function available. TSA Max.pressure is 0.54MP

**When using a semi-synthetic type or synthetic type, contact our sales representative or service center in advance.

(1) Please refer to foundation drawing in relation to anchoring. If more detail information want, consult with DN Solutions service

(2) Technical consultation is mandatory for the chilling of non-water soluble coolant

(3) In case of TSC is not required and only TSA is needed, this option can be selected.

● Standard ○ Optional X Not applicable



There is a high risk of fire when using non-water-soluble cutting fluids, processing flammable materials, neglecting the controlled and careful use of coolants and modifying the machine without the consent of the manufacturer. Always check the SAFETY GUIDELINES carefully before using the machine.

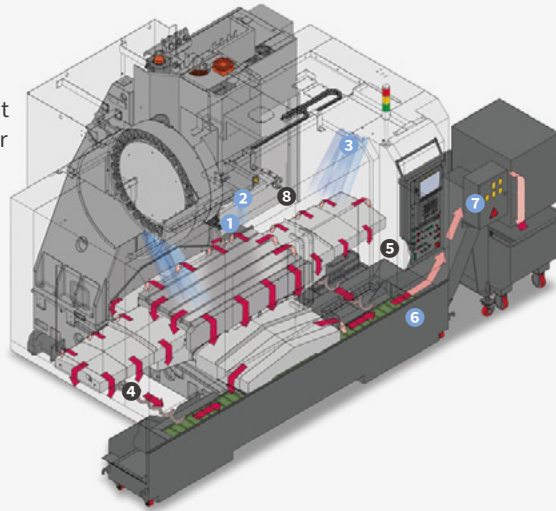
PERIPHERAL EQUIPMENT

Deliver excellent performance on diverse machining conditions.

Chip Disposal

Inner structure for effective chips and coolant flow

The inner structure of the VM series machines is designed to lead the flow of chips and coolant into a front-mounted chip pan for effective chip disposal.



1 Through spindle coolant OPTION

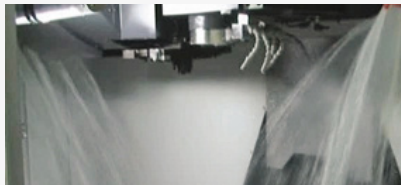


Middle pressure: 1.96 MPa (284.2 psi) (20 bar)
 High pressure: 6.86 MPa (994.7 psi) (70 bar)
 ※ Measured at pump outlet with 60Hz power.

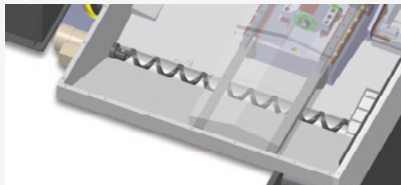
2 Flood coolant



3 Shower coolant OPTION



4 Internal screw conveyor



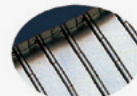
5 Coolant Gun OPTION



6 Larger Coolant Tank Capacity

Previous Model	VM series
VM 510 300ℓ	VM 5400 420ℓ
VM 650 300ℓ	VM 6500 420ℓ

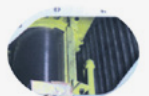
7 Chip conveyor OPTION



Hinge type

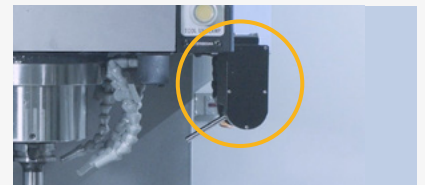


Scraper type



Drum filter type

8 PFC(Programmable Flood Coolant) OPTION



The coolant nozzle direction is controlled by a program. It is adjusted according to the required angle (steps 1 to 15), and it can be used for various tool lengths, thereby improving tool life.

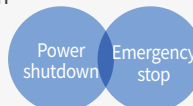
Others Function

Z-axis free fall prevention function

Prevention of damage caused by Z axis freefall following power shutdown is included as standard.

Air Blower

Dry processing and easy MQL connection



FANUC 32iB PLUS

Fanuc 32i Plus maximizes customer productivity and convenience.

15" Touch screen + New OP

DN Solutions Fanuc 32i Plus' operation panel enhances operating convenience by incorporating common-design buttons and layout. It features a Qwerty keyboard for fast and easy data input and operation.

FANUC 32i PLUS

- 15-inch color display
- Intuitive and user-friendly design

USB and PCMCIA card QWERTY keyboard

- EZ-Guide i standard
- Ergonomic operator panel
- 4MB Memory
- Hot keys
- Enhance AICC BLOCK
- Touch pen provided as standard

iHMI touchscreen

iHMI provides an intuitive interface that uses a touchscreen for quick and easy operation.

Range of applications

Providing various applications related to planning, machining, improvement and utility, for customer convenience.



NUMERIC CONTROL SPECIFICATIONS



Item		Specifications	F32iB Plus VM 5400 / VM 6500
Controlled axis	Controlled axes		5 (X,Y,Z)
	Simultaneously controlled axes		5 axes
	Additional controlled Axis	Add 1 Axis (5th Axis)	○
Data input/output	Fast data server		○
	Memory card input/output		●
	USB memory input/output		●
	Large capacity memory(2GB)*2	Available Option only with 15" Touch LCD (iHMI Only) *2)	○
Interface function	Embedded Ethernet		●
	Fast Ethernet		○
	Enhanced Embedded Ethernet function		●
Operation	DNC operation	Included in RS232C interface.	●
	DNC operation with memory card		●
Program input	Workpiece coordinate system	G52 - G59	●
	Addition of workpiece coordinate system	G54.1 P1 X 48 (48 pairs)	●
	Tool number command		T4 digits
Feed function	Tilted working plane indexing command	G68.2 TWP	○
	AI contour control I	G5.1 Q_, 40 Blocks	X
	AI contour control II	G5.1 Q_, 200 Blocks	X
	AI contour control II	G5.1 Q_, 600 Blocks	●
	AI contour control II	G5.1 Q_, 1000 Blocks *1)	X
Operation guidance function	High smooth TCP		X
	EZ Guidei (Conversational Programming Solution)		●
	iHMI with Machining Cycle	Only with 15" Touch LCD standard *2)	X
Setting and display	EZ Operation package		●
	CNC screen dual display function		●
Network	FANUC MTConnect		⊕
	FANUC OPC UA		⊕
Others	Display unit	10.4" color LCD	X
		15" color LCD	X
		15" color LCD with Touch Panel	●
		640M(256KB)_500 programs	X
		1280M(512KB)_1000 programs	○
		2560M(1MB)_1000 programs	○
		5120M(2MB)_1000 programs	○
		10240M(4MB)_1000 programs	●
		20480M(8MB)_1000 programs	○
		2560M(1MB)_2000 programs	○
		5120M(2MB)_4000 programs	○
		10240M(4MB)_4000 programs	○
		20480M(8MB)_4000 programs	○

*1) The number of look-ahead blocks may be changed or limited depending on the peripheral device or the configuration of the internal NC system.

*2) Available Option only with Fanuc i plus iHMI

● Standard ○ Optional X N/A ⊕ Available
Network: FANUC MT Connect and FANUC OPC UA available.

EZ WORK

The software developed by DN Solutions features numerous functions designed for convenience and ease of operation.

EZ work

The EZ work delivers speed and efficiency. This menu-driven innovation not only helps customers reduce setup times, but also simplifies common tasks and procedures, reducing the potential for errors. EZ work reduces operating time, protects machinery, enhances quality and speeds up maintenance interventions.



Thermal Compensation

A function to maintain high-precision machining quality by analyzing and correcting the amount of thermal displacement of a structure through a temperature sensor



M/G-Code List

Functional description of M code and G code



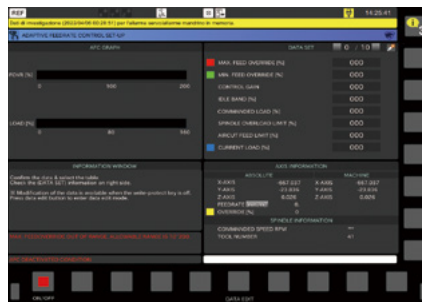
Tool Management

Function to manage tool information [Tool information / Tool No. / Tool condition (normal, large diameter, worn / damaged, used for therst time, manual) / Tool name]



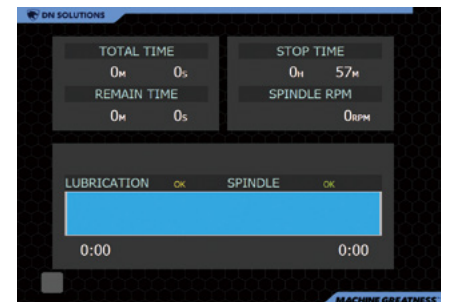
Operation Rate

Machine operation history management function by date based on load



Adaptive Feed Control

Function to control feedrate so that the cutting can be carried out at a constant load



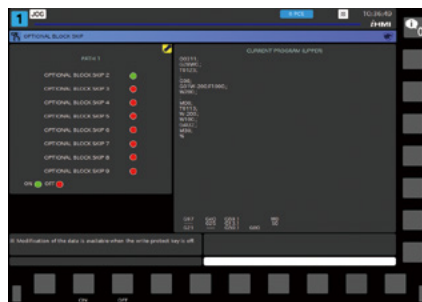
Spindle Warm Up

A function that assists spindle warm-up for spindle life when the spindle has not been used for a certain period of time



ATC Recovery

Function to view detailed info with recommended actions and to perform step-by-step operation manually (when an alarm is triggered during an ATC operation)



Addition of Optional Block Skip

In addition to the OPTIONAL BLOCK SKIP of the operation panel, the function to skip a specific block selected in the machining program

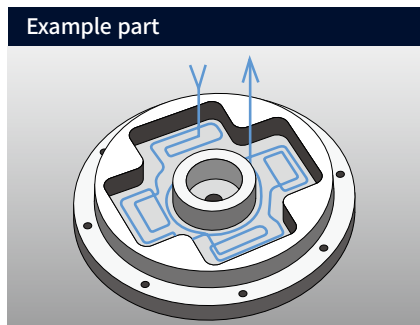
EZ WORK

Easy operation

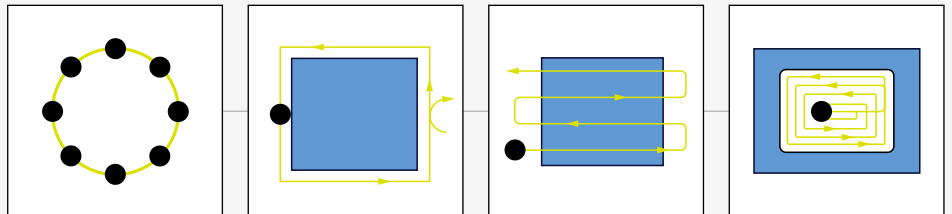
Operator convenience and work efficiency have been improved with adoption of various convenient control functions and ergonomic design.

EZ-Guide i

Using the DN Solutions EZ-Guide i, users can create a cutting program for any desired shape, including patterns, by entering just the dimensions.



Example programming : Cutting shape



Automatic creation of cutting program

```
O7000 (SAMPLE PROGRAM) ;
...
M3 S1500 ;
G0 X50. Y125. ;
G0 Z30. ;
G1040 T0.5 J3. H0.2 K0.5 ... ;
G1020 H120. V50. U37. W68. ... ;
G0 Z80. ;
M5 ;
```

A cutting program is automatically created with the entered values.

EZ-Guide i screen

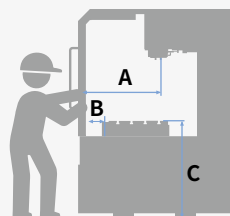


Enter the dimensions of the shape

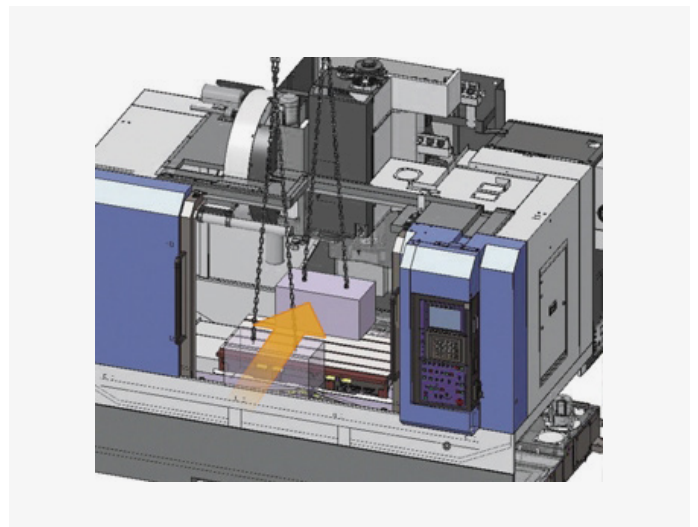
Accessibility

It is designed for easy install the workpiece by improving the operator's accessibility.

A	VM 5400	mm	830 (32.7)
	VM 6500	mm	895 (35.2)
B	VM 5400	mm	290 (11.4)
	VM 6500	mm	224 (8.8)
C	VM 5400	mm	950 (37.4)
	VM 6500	mm	950 (37.4)



Workpiece Loading



CONVENIENT OPERATION

HEIDENHAIN TNC620

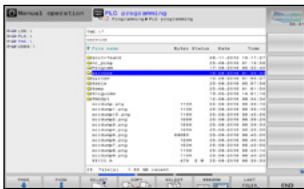
Superior hardware specifications

The TNC 620 features optimized motion control, short block processing times and special control strategies. Together with its uniform digital design and its integrated digital drive control (including inverters), it enables you to achieve high machining speeds and the best possible contour accuracy.

- 15.6-inch display
- 21GB Storage memory
- 1024 look ahead blocks
- High user convenience with folder structure data management



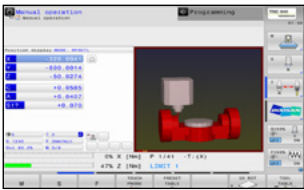
Conversational convenient function



Data are controlled in the folder structure; convenient communication via USB devices



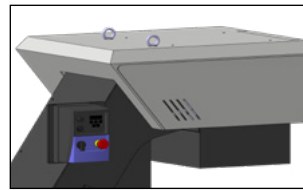
KinematicOpt & KinematicComp (Touch probe cycle for automatic measurement) **OPTION**



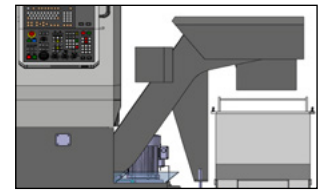
Collision protection system **OPTION**



Adaptive feed control **OPTION**



Various built-in pattern cycles for a wider scope of application (Software standard)



Graphic simulation

NUMERIC CONTROL SPECIFICATIONS



HEIDENHAIN

Item		Specifications	TNC620
			VM 5400 VM 6500
Controlled axis	Controlled axis		3 (X,Y,Z)
	Simultaneously controlled axis		4 axis
Data input/output	USB memory input/output		●
Interface function	Embedded ethernet		●
Feed function	Look-ahead	5000 blocks	●
Axis compensation	KinematicsOpt	Automatic measurement and optimization of machine kinematics	○
Collision monitoring	Dynamic collision monitoring (DCM)		X
Network	MTConnect		⊕
Others	Display unit	15" color LCD with touch panel	●
	Part program storage size & number of registerable programs	4GB	●

● Standard ○ Optional X N/A ⊕ Available

POWER | TORQUE

Max. spindle speed

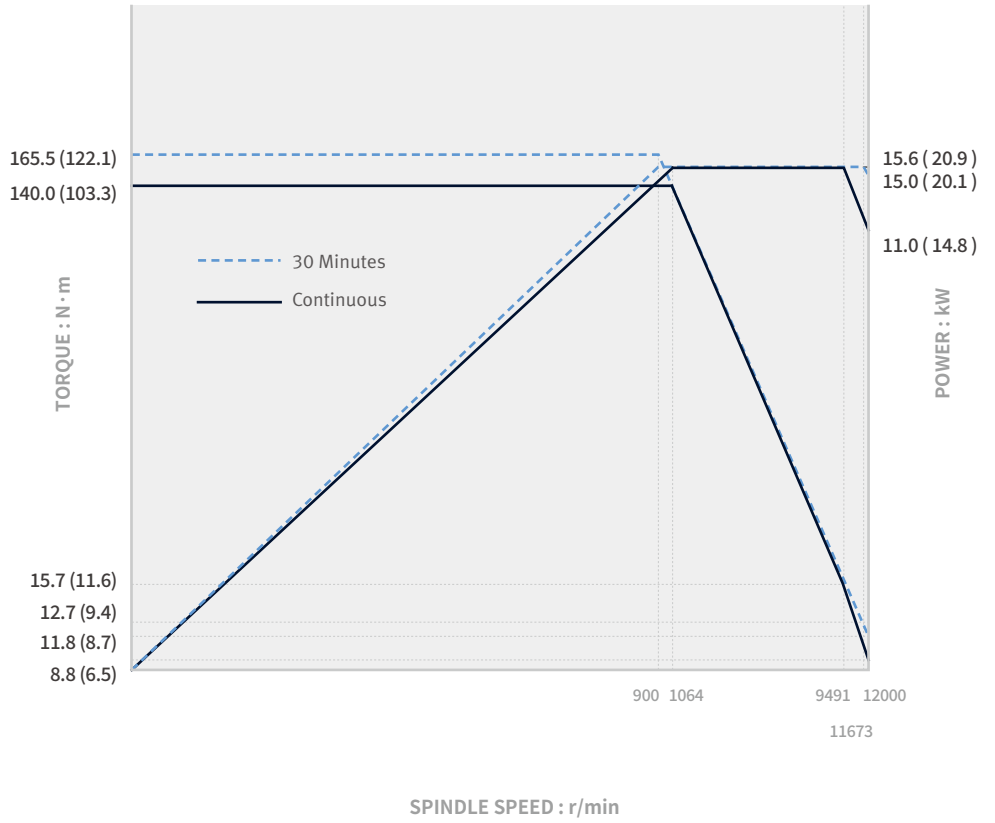
12000 r/min

Spindle motor

15.6 kW (20.9 Hp)

Power torque

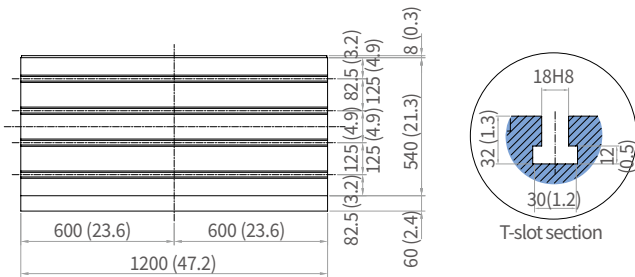
165.5 N·m (122.1 ft-lbs)



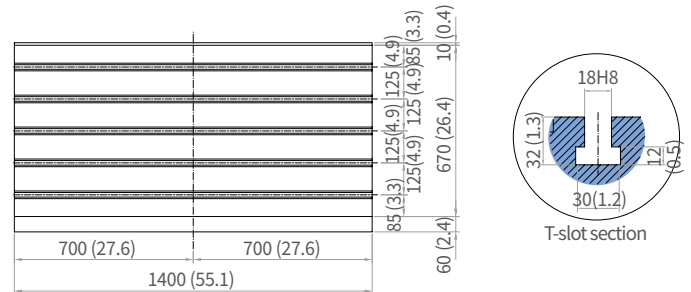
TABLE

Unit : mm (inch)

VM 5400



VM 6500

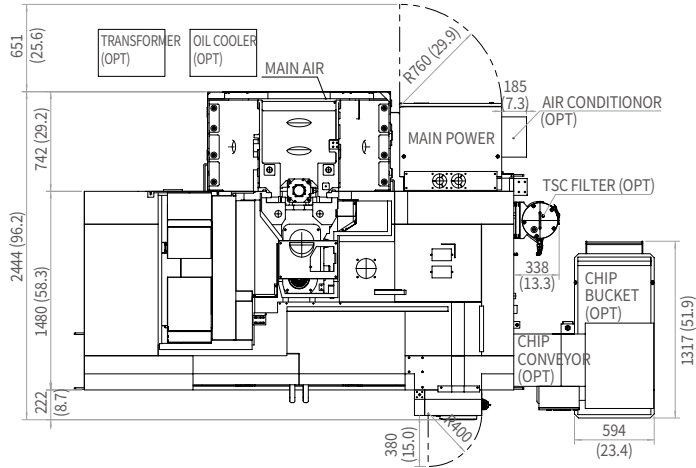


DIMENSIONS

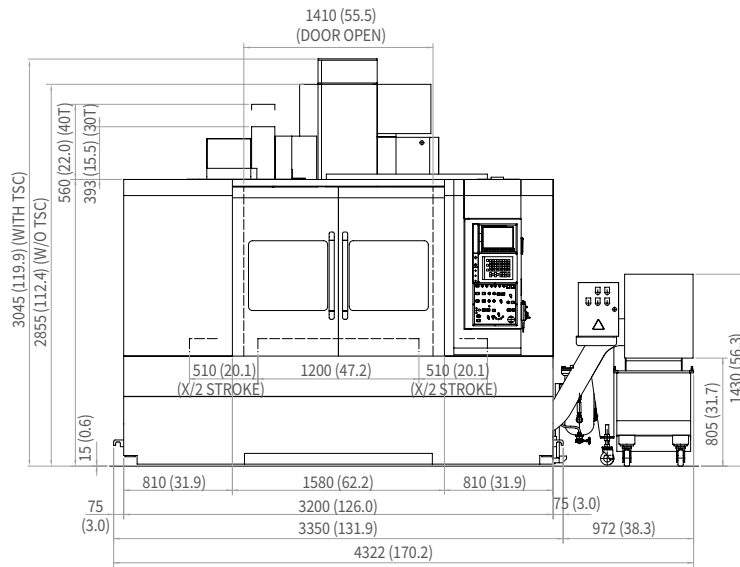
VM 5400

Unit : mm (inch)

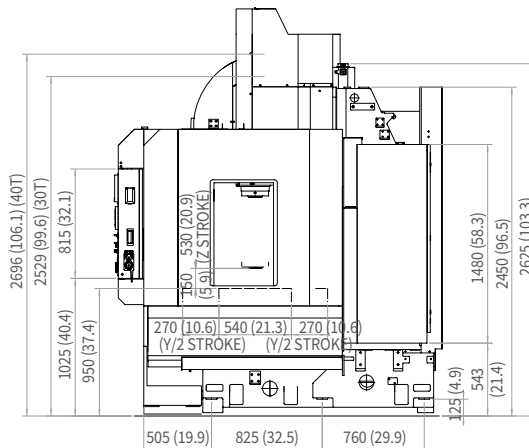
TOP



FRONT



SIDE



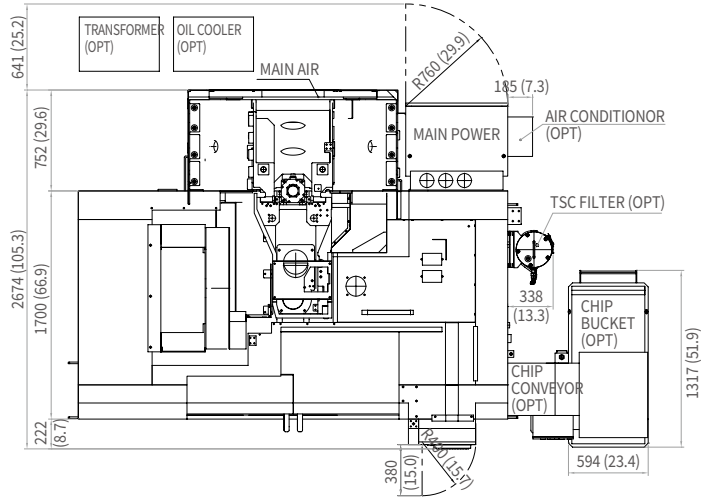
* Some peripheral equipment can be placed in other areas.

DIMENSIONS

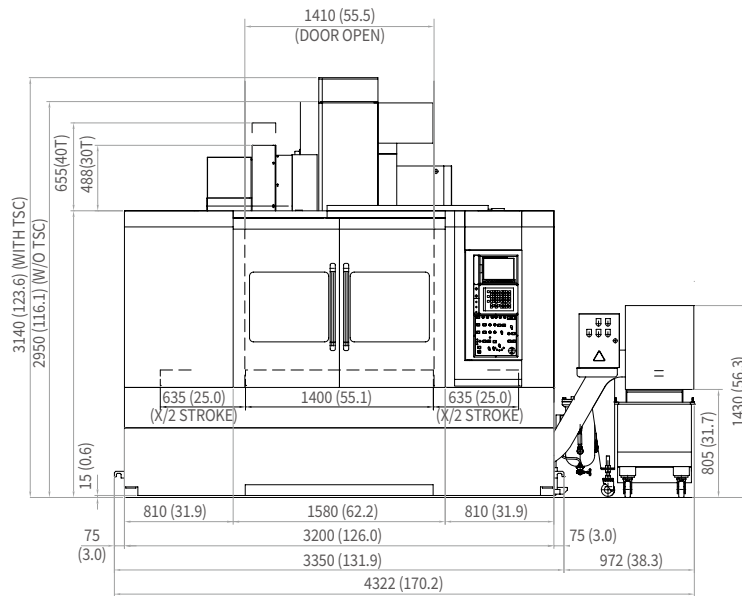
VM 6500

Unit : mm (inch)

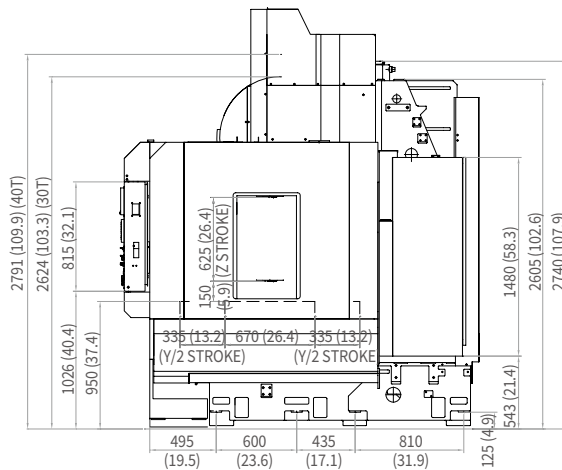
TOP



FRONT



SIDE

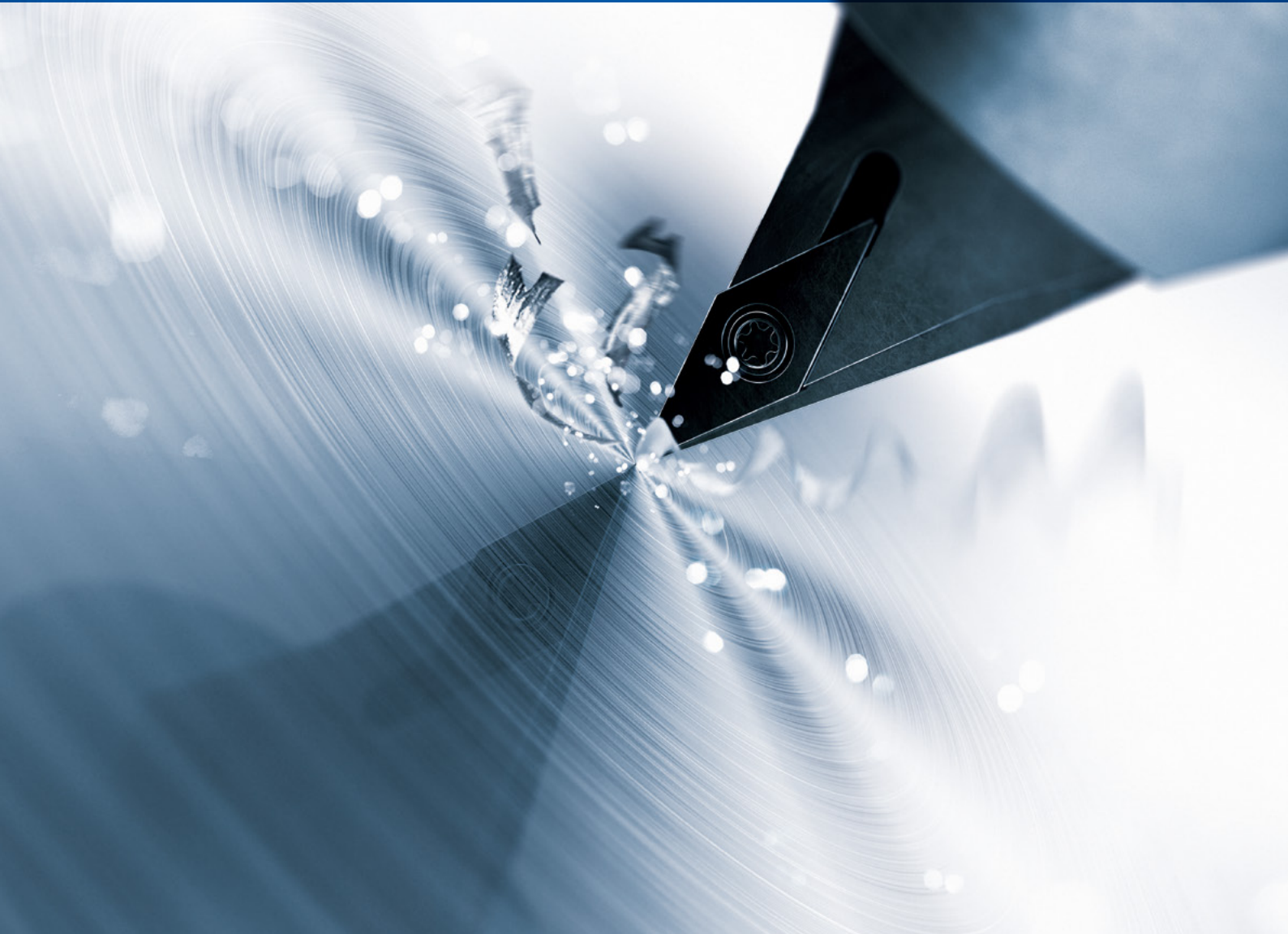


MACHINE SPECIFICATIONS

Description		Unit	VM5400	VM6500	
Travel	Travel distance	X-axis	mm (inch)	1020 (40.2)	1270 (50.0)
		Y-axis	mm (inch)	540 (21.3)	670 (26.4)
		Z-axis	mm (inch)	530 (20.9)	625 (24.6)
	Distance from spindle nose to table top		mm (inch)	150 ~ 680 (5.9 - 26.8)	150 ~ 775 (5.9 - 30.5)
	Distance from spindle nose to column		mm (inch)	676 (26.6)	772 (30.4)
Feedrate	Rapid feedrate (X, Y, Z)		m/min (ipm)	30 / 30 / 24 (1181.1 / 1181.1 / 944.9)	
	Cutting feedrate		m/min (ipm)	12000 (472.4)	
Table	Table size		mm (inch)	1200 × 540 (47.2 × 21.3)	1400 × 670 (55.1 × 26.4)
	Loading capacity		kg (lb)	800 (1763.7)	1000 (2204.6)
Spindle	Max. spindle speed		r/min	12000	
	Taper		-	ISO #40 7/24 Taper	
	Max. torque		N·m (ft-lbs)	165.5 (122.1)	
ATC	Type of tool shank		-	MAS406-BT40	
	Tool storage capacity		ea	30 {40}	
	Max. tool dia. (when a nearest port is empty)		mm (inch)	80 [125], 76 [125] * (3.1 [4.9], 3.0 [4.9]) *	
	Max. tool length		mm (inch)	300 (11.8)	
	Max. tool weight		kg (lb)	8 (17.6)	
	Max. tool moment		N·m (ft-lbs)	5.88 (4.3)	
	Tool selection type		-	Random	
	Tool change time (tool to tool)		s	1.3	
Motor	Spindle motor power (30 min)		kW (Hp)	15.6 (20.9)	
	Power Consumption	Electric power		kVA	40
Compressed air pressure		NL/min	530		
Control	Height (H)		mm (inch)	F_3012 (118.6) / H_3117 (122.7)	F_3107 (122.3) / H_3216 (126.6)
	Dimension (L×W)		mm (inch)	2444 × 3350 (96.2 × 131.9)	2674 × 3350 (105.3 × 131.9)
	Weight		kg (lb)	7000 (15432.1)	9000 (19841.3)

WHY DN SOLUTIONS

The DN Solutions promise, MACHINE GREATNESS, has two important meanings. The first is simple: DN Solutions makes great machines. The second is a challenge to our end-users. With a product line that is this comprehensive, accurate and reliable, we equip our customers to machine greatness. The big question: *Why should you choose DN Solutions over other options?* Here's why...



UNBEATABLE MACHINES

You won't find a more comprehensive range or a better combination of value, performance and reliability anywhere else.

READILY AVAILABLE - ANYWHERE IN THE WORLD

Machining centres (including 5-axis machines), lathes, multi-tasking turning centres and mill-turn machines, and horizontal borers with best-in-class specifications are all available...ready to install.

ROBUST PRODUCT LINE

We offer an impressive range of machine models and hundreds of configurations. Whatever your machining needs and requirements, there's a DN Solutions for you.

EXPERT SERVICE

Our dedicated, experienced and knowledgeable team is totally committed to improving your productivity, growth and success.

RESPONDING TO CUSTOMERS **ANYTIME, ANYWHERE**

DN SOLUTIONS GLOBAL NETWORK

66 COUNTRIES | **140** + SALES NETWORKS | **3** FACTORIES | **6** REGIONAL HQS



CUSTOMER SUPPORT AND SERVICES

WE'RE THERE FOR YOU WHENEVER YOU NEED US.

We help our customers operate at maximum efficiency by providing them with a range of tried, tested and trusted services - from pre-sales consultancy to post-sales support.



FIELD SERVICES

- On-site service
- Machine installation and testing
- Scheduled preventive maintenance
- Machine repair service



PARTS SUPPLY

- Supplying a wide range of original DN Solutions spare parts
- Parts repair service



TRAINING

- Programming, machine setup and operation
- Electrical and mechanical maintenance
- Applications engineering



TECHNICAL SUPPORT

- Supports machining methods and technology
- Responds to technical queries
- Provides technical consultancy

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