



5-AXIS VERTICAL MACHINING CENTER

DNM

200/5AX • 350/5AX

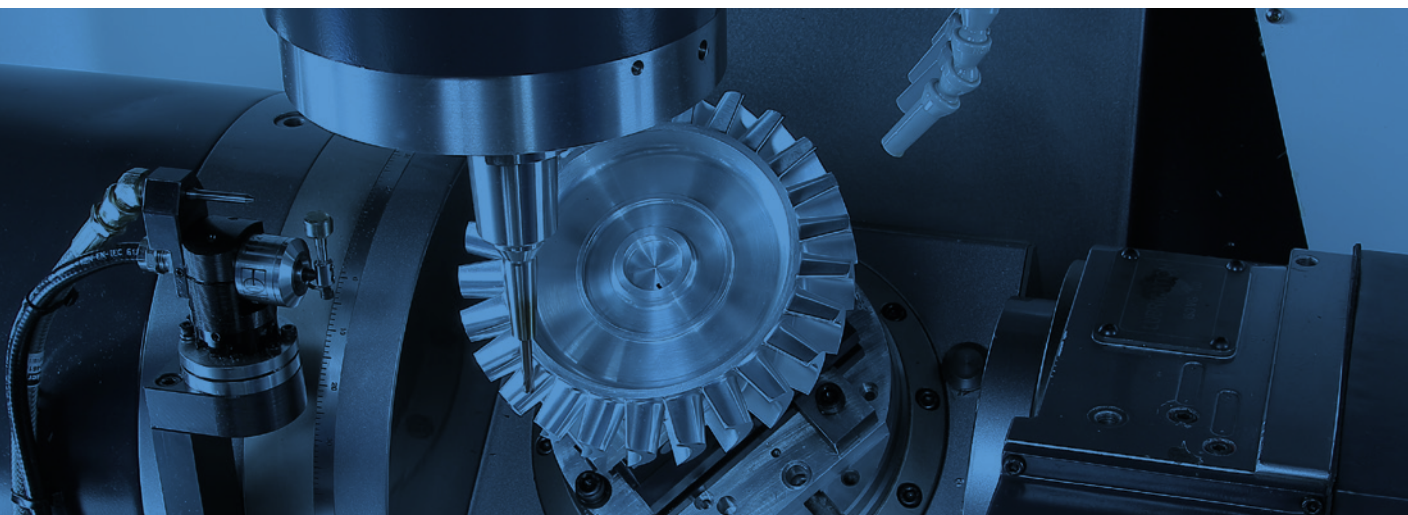


Doosan Machine Tools

DNM 5AX SERIES

200/5AX • 350/5AX

DNM 5AX series machines are high-performance 5-axis vertical machining centers designed for machining complex parts in single set ups. The machines are easy to use, even for manufacturers with no prior knowledge or experience of 5-axis machining.





OPTIMIZED COLUMN AND BED DESIGN

- High feedrates and ultra high-precision are realized by the machines' optimized column and bed design using 3D simulation modelling.

DIRECTLY COUPLED SPINDLE

- Directly-coupled spindles help minimize noise and vibration. Both high-speed and heavy-duty machining can be performed with a single set up.

HIGH-PRECISION TRAVEL SYSTEM

- Roller-type LM guideways and high-rigidity couplings have been adopted to ensure excellent stability and the accuracy of the X-, Y-, and Z-axis linear travel system.

BASIC STRUCTURE

High feedrates and precision machining are achieved by the optimized column and bed design.

High-precision machine structure

High-speed cutting and the highest accuracies are achieved as a result of the machine's rigid and precision built structure.

Travel distance (X / Y / Z axis)

DNM 200/5AX

400 (+200, -200) /

435 (+180, -255) / **500** mm

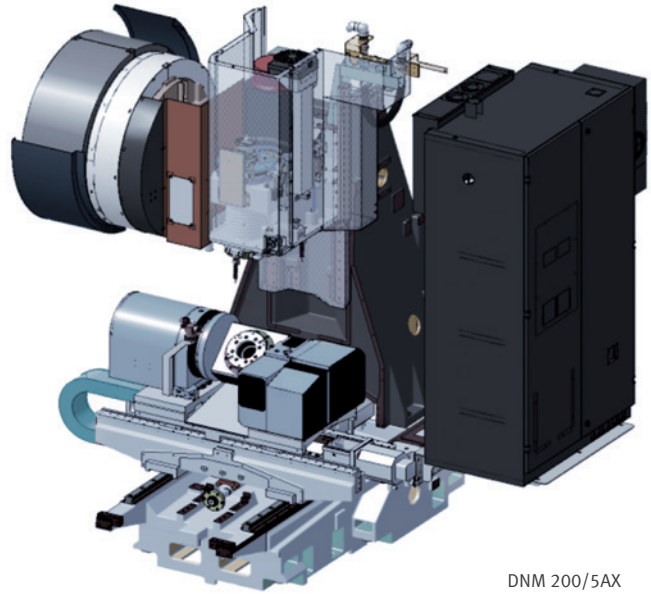
15.75 (+7.87, -7.87) /

17.13 (+7.09, -10.04) / 19.69 inch

DNM 350/5AX

400 / 655 / 500 mm

15.75 / 25.78 / 19.69 inch



DNM 200/5AX
Machine Structure

Axis drive system

The high rigidity and precision of the X-,Y-and Z-axis drive systems are achieved by using Roller-type linear guideways and highly rigid couplings. Speed and accuracy are further enhanced with the nut cooling system which minimizes thermal displacement of the machine's ball screws.

Rapid traverse (X / Y / Z axis)

DNM 200/5AX

36 / 36 / 30 m/min

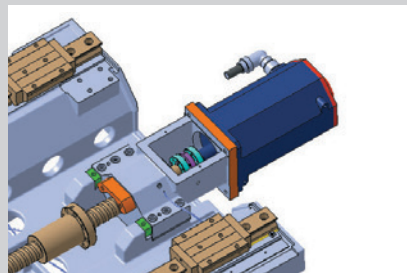
1417.3 / 1417.3 / 1181.1 ipm

DNM 350/5AX

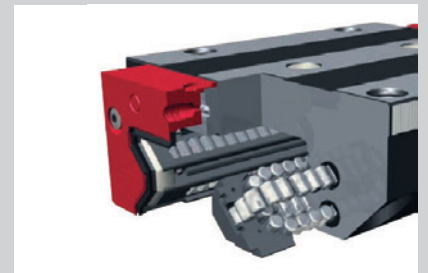
36 / 36 / 30 m/min

1417.3 / 1417.3 / 1181.1 ipm

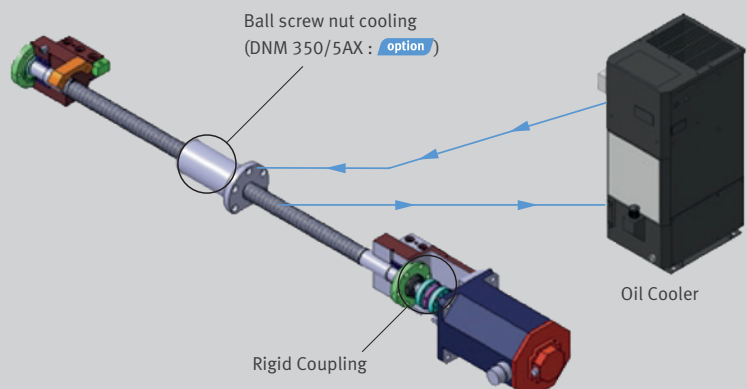
Highly-rigid Roller-type linear guideways



Rigidity and accuracy of the feed system are improved with Roller-type linear guideways and rigid couplings.



Roller-type linear guideways



SPINDLE

Directly-coupled spindle head minimizes noise and vibration.

Directly-coupled high precision spindles

Directly-coupled, high precision spindles ensure that high speed and heavy duty cutting can be achieved in single set ups. Machining performance is optimised by minimising vibration and noise, while power loss at high speed is also minimised.

Max. spindle speed

DNM 200/5AX

12000 r/min

DNM 350/5AX

12000 r/min, **20000** r/min option

Spindle motor power

18.5 / 11 kW

24.8 / 14.8 Hp

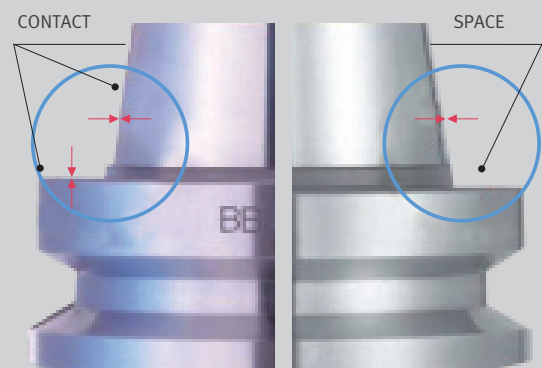


Dual contact spindle

Machining performance, cutting tool life and workpiece surface finishes are all improved due to reduced vibrations - a major advantage of the dual contact spindle configuration.

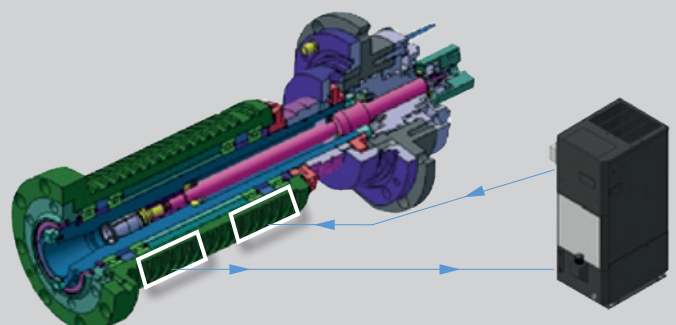
BIG-PLUS PAT.

CONVENTIONAL



Spindle cooling

A high-accuracy oil cooler helps mitigate heat generated by the bearings and motor and minimizes thermal displacement of the spindle.



ROTARY TABLE | TOOL CHANGER

Rotary table

- Wide machining area enables a different sized workpieces to be set up quickly and efficiently
- Features high-rigidity, high-precision axial and radial roller bearings
 - Backlash reduced owing to higher structural stability
 - A- and C-axes are hydraulically clamped for maximum rigidity

Max. workpiece swing diameter x height

DNM 200/5AX

Ø300 x 200 mm 11.8 x 7.9 inch

DNM 350/5AX

Ø400 x 335 mm 15.7 x 13.2 inch

Table loading capacity

DNM 200/5AX

60 kg (A-axis 0°) 132.3 lb

DNM 350/5AX

250 kg 551.1 lb

TOOL CHANGER

As well as rapid tool change characteristics (for high productivity), a wide range of different tool magazine options is also available.

Automatic Tool Changer (ATC)

Enhanced productivity is achieved via the CAM-type tool changer that enables faster tool changing to occur.

Tool storage capacity

DNM 200/5AX

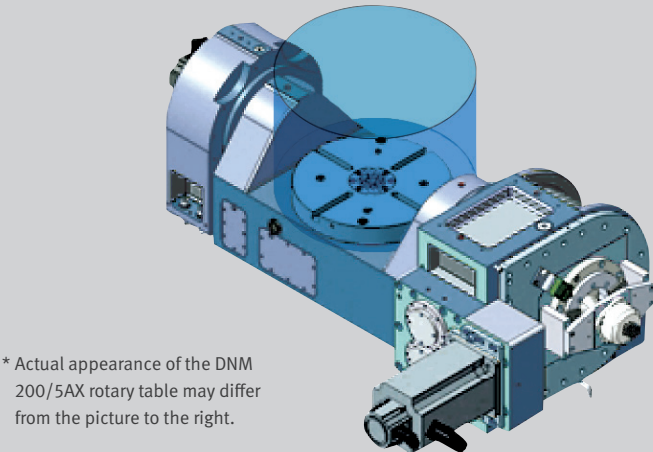
30 ea / **40** ea option

DNM 350/5AX

30 ea / **40, 60** ea option

Tool-to-Tool time

1.3 s



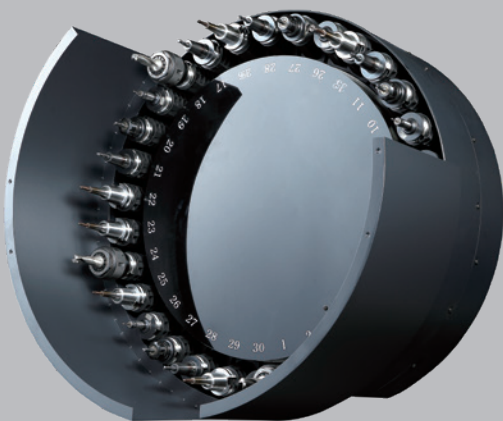
* Actual appearance of the DNM 200/5AX rotary table may differ from the picture to the right.

Rotary encoder option

* Actual appearance of the DNM 350/5AX rotary table may differ from the picture below.



Item		A-axis	C-axis
DNM 200/5AX	Travels (deg)	150 (+30, -120)	360
	Rapid traverse (r/min)	20	30
DNM 350/5AX	Travels (deg)	150 (+30, -120)	360
	Rapid traverse (r/min)	20	30

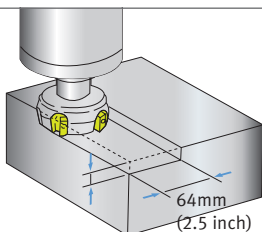
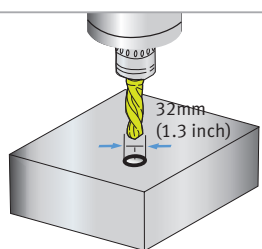
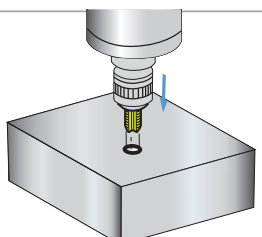


MACHINING PERFORMANCE

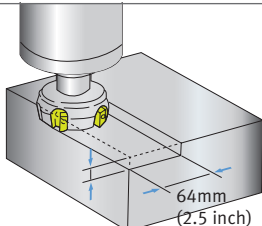
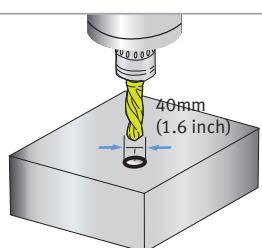
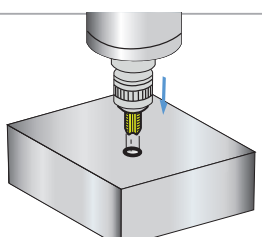
Cutting performance

From high-speed machining to heavy duty cutting, diverse machining processes are applicable for complex-shaped workpiece.

DNM 200/5AX

Face mill Carbon steel (SM45C)			
ø80mm Face Mill (6Z)			
Machining removal rate cm³/min (inch³/min)	Spindle speed r/min	Feed rate (mm/min)	
269 (16.42)	1500	2100 (82.7)	
Drill Carbon steel (SM45C)			
ø32mm Drill (2Z)			
Spindle speed r/min	Feed rate mm/min (ipm)		
1200	120 (4.7)		
Tap Carbon steel (SM45C)			
ø73mm Drill (2Z)			
Tool mm	Spindle speed r/min		
M30 x 3.5	212		

DNM 350/5AX

Face mill Carbon steel (SM45C)			
ø80mm Face Mill (6Z)			
Machining removal rate cm³/min (inch³/min)	Spindle speed r/min	Feed rate (mm/min)	
365 (22.3)	1500	1900 (74.8)	
Drill Carbon steel (SM45C)			
ø32mm Drill (2Z)			
Spindle speed r/min	Feed rate mm/min (ipm)		
1200	180 (7.09)		
Tap Carbon steel (SM45C)			
ø73mm Drill (2Z)			
Tool mm	Spindle speed r/min		
M30 x 3.5	212		

* The results, indicated in this catalogue are provides as example. They may not be obtained due to differences in cutting conditions and environmental conditions during measurement.

STANDARD | OPTIONAL SPECIFICATIONS

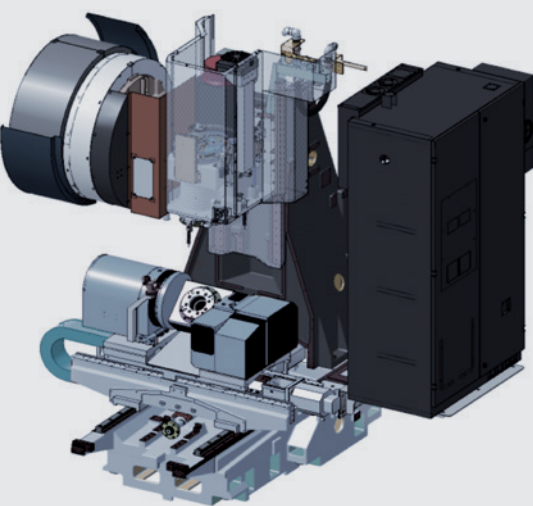
Various optional features are available to meet customers' specific machining requirements and applications.

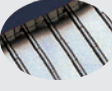


Description	Features	DNM 200/5AX	DNM 350/5AX
Air blower		○	○
Air gun		○	○
Automatic tool changer	30 Tools	●	●
	40 Tools	○	○
	60 Tools	X	○
Automatic tool measurement	RENISHAW / TS27R- FANUC 31i-5	X	○
	RENISHAW / TS27R - DOOSAN-FANUC i Series	○	○
Automatic workpiece measurement	NONE	●	●
	OMP60_RENISHAW	○	○
Chip conveyor	Hinge / Scraper / Drum filter type	○	○
Coolant gun		○	○
Coolant Tank		●	●
Easy Operation Package	Tool load monitor	●	●
	Alarm / M-code / G-code / ATC recovery help	●	●
	Table moving for setup / Easy work coordinate setting	●	●
Electric cabinet air conditioner		○	○
Electric cabinet light		○	○
Electric cabinet line filter		○	○
Linear scale	X Axis	○	○
	Y Axis	○	○
	Z Axis	○	○
MPG	1 MPG_PORTABLE TYPE	●	●
	1 MPG_PORTABLE_W/ENABLE TYPE	○	○
	3 MPG_PORTABLE	○	○
NC System	DOOSAN FANUC i	●	●
	FANUC 31iB5	X	○
	HEIDENHAIN	X	○
NC system lcd size	10.4 inch_FANUC (Color)	●	●
	15.1 inch_HEIDENHAIN (Color)	X	○
Oil Skimmer	Belt Type	○	○
Power transformer		○	○
Shower coolant		○	○
Spindle motor power	18.5 / 11 kW (24.8 / 14.8 Hp)	●	●
	22 / 18.5 kW (29.5 / 24.8 Hp)	X	○
	22 / 11 kW (29.5 / 14.8 Hp)	X	○
Spindle speed	12000 r/min	●	●
	20000 r/min	X	○
Test bar		○	○
Through spindle coolant	NONE	●	●
	1.5 KW_2.0 MPA	○	○
	4.0 KW_2.0 MPA	○	○
	5.5 KW_7.0 MPA_DUAL BAG FILTER	○	○
Work & tool counter	WORK / TOOL	○	○
Customized Special Option	Spindle	12K DIRECT_ANALOGUE SENSOR TYPE	○
		12K DIRECT_HSK63A	○
		15K DIRECT_BT-DIN, DIN-DIN	○
		20K_BUILT IN SPINDLE_HSK	○
	60T ATC		○
	Top flushing coolant system		○
	Drum chip conveyor		○
	Axis cooling system: Nut cooling		○
	Auto door (w/Safety edge)		○
	IKC (Intelligent kinematic compensation): DCP-i		○

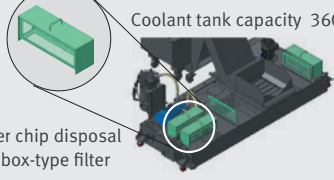
* Please contact Doosan for detailed specification information.



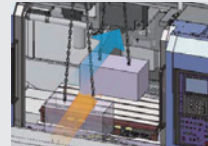

● Standard ○ Optional X Not applicable

PERIPHERAL EQUIPMENT



- 1. Chip conveyor** option




Hinge type Scraper type Drum filter type
- 2. Large capacity coolant tank built-in with chip pan and box filter**


Coolant tank capacity 360L
Easier chip disposal with box-type filter
- 3. Shower coolant** option

- 4. Coolant system**

- 5. Auto-door type top cover**
The top cover helps enhancing convenience when loading /unloading heavy workpiece on the processing table.
 
- 6. Internal screw conveyor**


Intelligent Kinematic Compensation for 5-axis

For high accuracy 5-axis machining, Intelligent Kinematic Compensation function is recommended. This function minimizes error in complex 5-axis machining applications by maintaining tip of the tool in correct position in respect to the workpiece. In order to properly utilize this function, following four optional items are required.

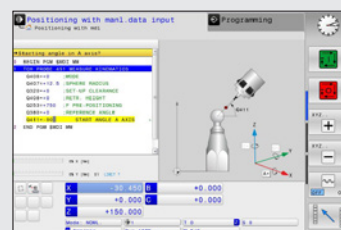


Recommended optional items

Software



FANUC NC: DCP-i (Developed by DOOSAN)



Heidenhain NC: Kinematic opt

Receiver

Recommended Option



Touch probe

Recommended Option



Datum ball

Recommended Option



Automatic Tool Measurement

Recommended Option



Master tool

Recommended Option



DOOSAN FANUC i PLUS

DOOSAN Fanuc i Plus is optimized for maximizing customer productivity and convenience.

15 inch screen + new operation panel

DOOSAN Fanuc i Plus' operation panel enhances operating convenience by incorporating common-design buttons and layout, and features the Qwerty keyboard for fast and easy operation.



Doosan Fanuc i Plus

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

USB & PCMCIA card

QWERTY keyboard

- EZ-guide i standard
- Ergonomic operator panel
- 2MB Memory
- Hot key

iHMI touchscreen option

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

FANUC

Item		Specifications	F31iB5	0i PLUS
			DNM200/5AX, DNM350/5AX	
Controlled axis	Controlled axes		5 (X,Y,Z,C,A)	5 (X,Y,Z,A,C)
	Simultaneously controlled axes		5 axes	4 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	Note *2) Available Option only with 15" Touch LCD (iHMI Only)	X	○
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	T4 digits
	Tilted working plane indexing command	G68.2 TWP	●	●
Feed function	AI contour control I	G5.1 Q , 40 Blocks	X	X
	AI contour control II	G5.1 Q , 200 Blocks	●	●
	AI contour control II	G5.1 Q , 600 Blocks	○	X
	AI contour control II	G5.1 Q , 1000 Blocks	○	X
	High smooth TCP		●	X
Operation guidance function	EZ Guidei (Conversational Programming Solution)		○	○
	iHMI with Machining Cycle	Note *1) Only with 15" Touch LCD standard	X	X
	EZ Operation package		●	●
Setting and display	CNC screen dual display function		●	●
Network	FANUC MTConnect		✱	✱
	FANUC OPC UA		✱	✱
Others	Display unit	10.4" color LCD	X	X
		15" color LCD	●	●
	Part program storage size & Number of registerable programs	15" color LCD with Touch Panel	○	○
		640M(256KB) 500 programs	●	X
		1280M(512KB) 1000 programs	○	X
		2560M(1MB) 1000 programs	○	X
		5120M(2MB) 1000 programs	○	●
		10240M(4MB) 1000 programs	○	X
		20480M(8MB) 1000 programs	○	X
		2560M(1MB) 2000 programs	X	X
		5120M(2MB) 4000 programs	X	X
		10240M(4MB) 4000 programs	X	X
		20480M(8MB) 4000 programs	X	X

* 2) Only for Fanuc i plus iHMI

Network: FANUC MTConnect and FANUC OPC UA available.

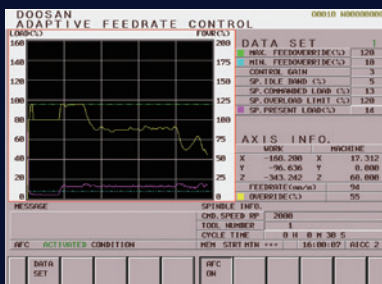
● Standard ○ Optional X Not Available ✱ Available

EASY OPERATION PACKAGE

The software developed by Doosan provides a range of different functions designed for fast, efficient and convenient operation

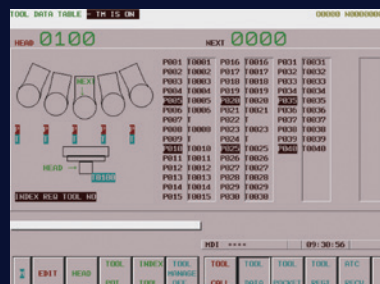
Easy operation package (EOP)

The EOP package 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. EOP reduces operating time, protects machinery, enhances quality and speeds up maintenance interventions.



Adaptive Feed Control (AFC)

Function to control feedrate so that the cutting can be carried out at a constant load (To adapt to the spindle load set up with constant load feedrate control function)



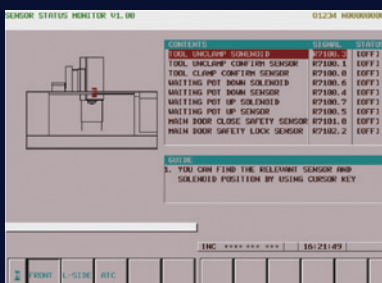
Tool Management

Function to manage tool information [Tool information]
- Tool No. / Tool name
- Tool condition : normal, large diameter, worm/damaged, used for the first time, anual



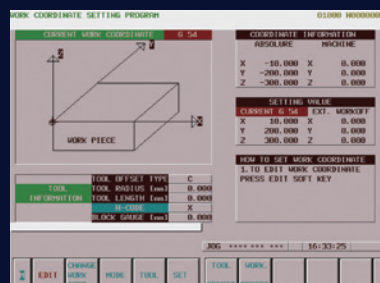
Tool Load Monitor

Function to automatically monitor tool load (Different loads can be set for one tool according to M700 ~ M704)



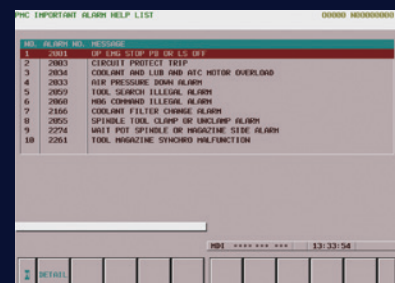
Sensor Status Monitor

Function to view sensor conditions of the machine



Work Offset Setting

Function to configure various work offset settings



Alarm Guidance

Function to show detailed info on frequently triggered alarms and recommended actions



Pattern Cycle & Engraving

Function to create frequently-used cutting programs automatically
- Pattern Cycle: creates a program for a pre-defined shape
- Engraving: creates a program for cutting a shape described with characters [option](#)



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)

CONVENIENT OPERATION

HEIDENHAIN TNC620

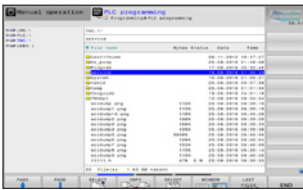
Superior hardware specifications

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.

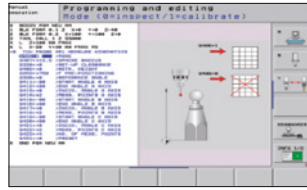
- 15.6" display
- 21GB Storage memory
- 1024 look ahead blocks
- High user convenience with folder structure data management



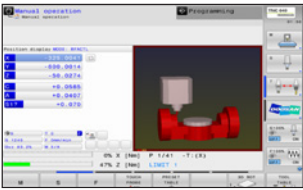
Conversational convenient function



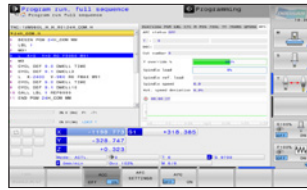
Data are controlled in the folder structure; convenient communication via USB devices



KinematicOpt & KinematicComp option
(Touch probe cycle for automatic measurement)



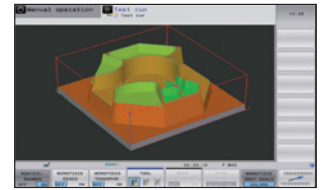
Collision protection system option



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 DNM
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	15.1 inch TFT color flat panel	●
		15.1 inch TFT color with Touch Panel	○
		19 inch TFT color flat panel	○
		19 inch TFT color with Touch Panel	○
	Part program storage size & number of registerable programs		21GB 1.8GB
			X
			●

● Standard ○ Optional X Not Available ✱ Available

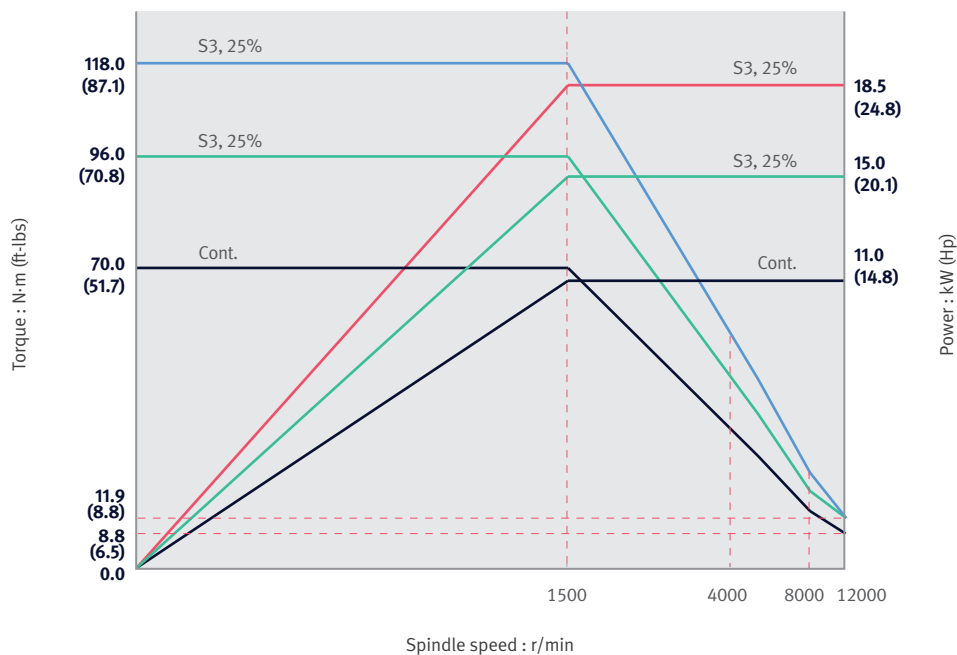
POWER | TORQUE

DNM 200/5AX DNM 350/5AX

Max. spindle speed: **12000** r/min

Spindle motor power: **18.5 / 11** kW
24.8 / 14.8 Hp

Spindle motor torque: **118.0** N·m
87.1 ft-lbs

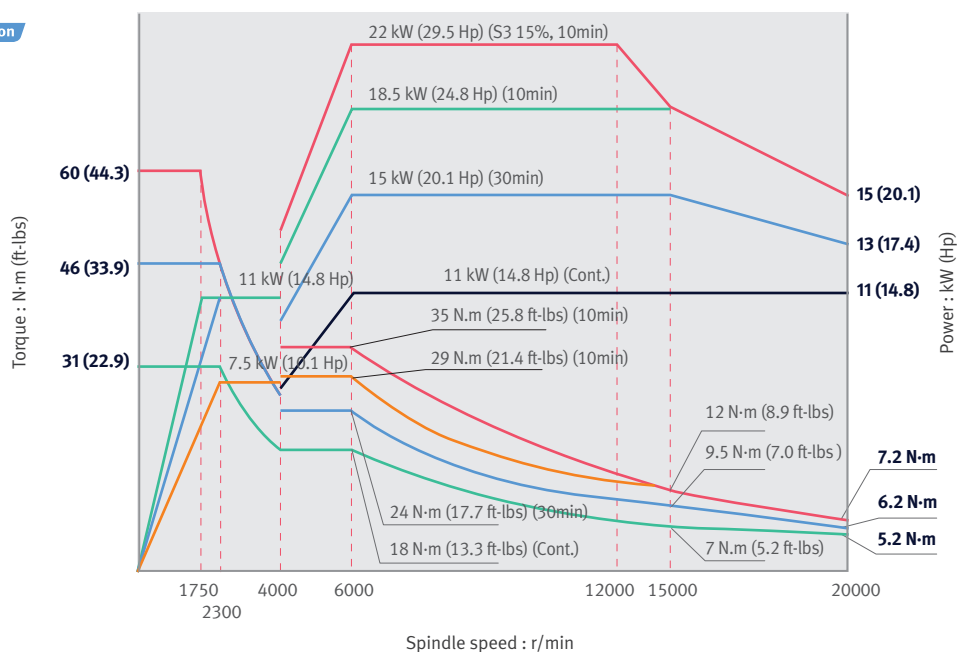


DNM 350/5AX

Max. spindle speed: **20000** r/min option
(Only DNM 350/5AX)

Spindle motor power: **22 / 11** kW
29.5 / 14.8 Hp

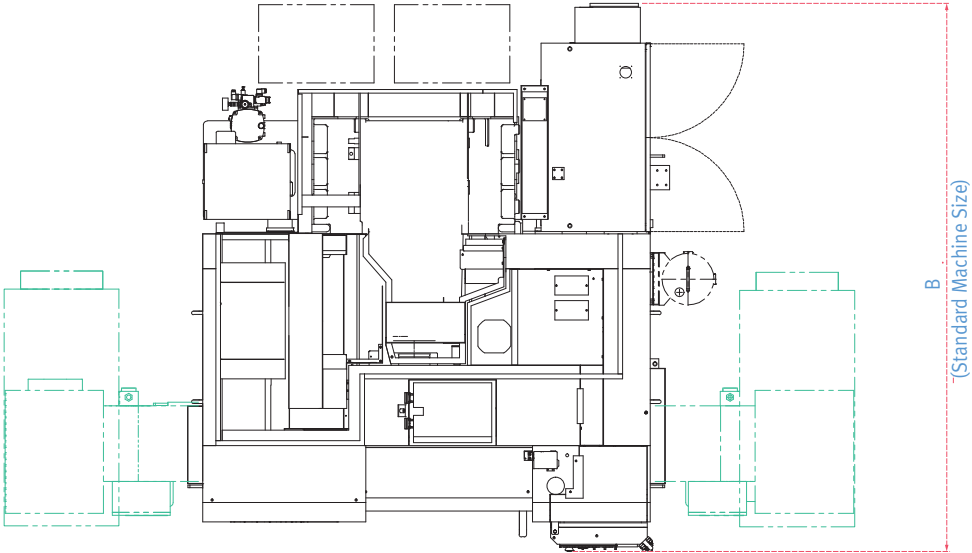
Spindle motor torque: **60** N·m
44.3 ft-lbs



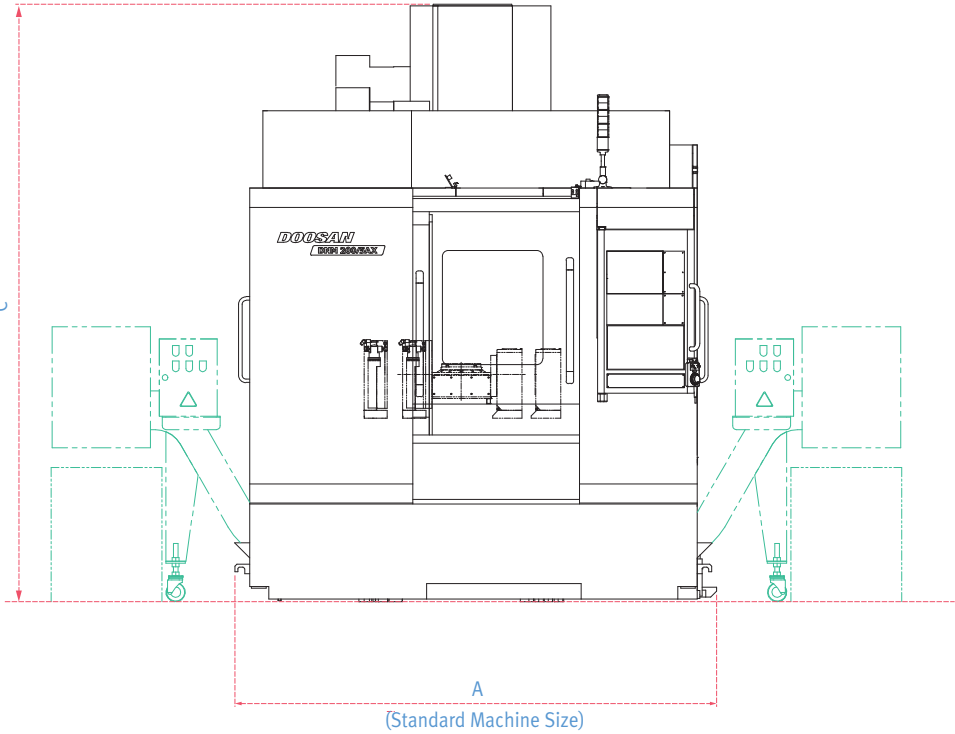
DIMENSIONS

Units : mm (inch)

TOP



FRONT



Model	A [with Chip Conveyor]	B	C
DNM 200/5AX	2490 [3447] (98.0 [135.7])	2835 (111.6)	3091 (121.7)
DNM 350/5AX	3150 [4085] (124.0 [160.8])	3209 (126.3)	3091 (121.7)

* Some peripheral equipment can be placed in other places

MACHINE SPECIFICATIONS

Description			Unit	DNM 200/5AX	DNM 350/5AX
Travel	Travel distance	X	mm (inch)	400 (15.7)	400 (15.7)
		Y	mm (inch)	435(+180, -255) (17.1 (+7.1, -10.0))	655 (25.8)
		Z	mm (inch)	500 (19.7)	
		A	deg	150 (+30 ~ -120)	
		C	deg	360	
	Distance from spindle nose to table top		mm (inch)	30 ~ 530 (1.2 ~ 20.9)	50 ~ 550 (2.0 ~ 21.7)
Feedrate	Rapid traverse rate	X	m/min (ipm)	36 (1417.3)	
		Y	m/min (ipm)	36 (1417.3)	
		Z	m/min (ipm)	30 (1181.1)	
		A	r/min	20	
		C	r/min	30	
	Cutting feedrate	X, Y, Z	m/min (ipm)	15000 (590.6)	
		A, C	deg/min	7200	
Table	Table size		mm (inch)	Ø200 (7.9)	Ø350 (13.8)
	Table loading capacity		kg (lb)	40 (88.2) (Horizontal) / 60 (132.3) (Vertical)	250 (551.1)
	Table type		-	T-SLOT (12H8)	T-SLOT (14H8)
Spindle	Max. spindle speed		r/min	12000	12000 (20000)
	Spindle taper		-	ISO #40, 7/24 TAPER	
	Max. spindle torque		N·m (ft·lbs)	117 (86.3)	117 { 167 / 60 } (86.3 { 123.2 / 44.3 })
Automatic tool changer	Type of tool shank		-	MAS403 BT 40	
			-	{ CAT 40 }	
			-	{ DIN 69871-A40 }	
	Tool storage capacity		ea	30 { 40 }	30 { 40, 60 }
	Max. tool diameter (Continuous)		mm (inch)	30 Tools : 80 / 40 Tools : 76	
	Max. tool diameter (Near port empty)		mm (inch)	30 Tools : 125 / 40 Tools : 125	
	Max. tool length		mm (inch)	300 (11.8)	Ø80 : 270 / Ø125 : 210 (3.15 : 10.6 / 4.9 : 8.3)
	Max. tool weight		kg (lb)	8 (17.6)	
	Max. tool moment		N·m (ft·lbs)	5.88 (4.3)	
	Method of tool selection		-	Memory Random	
	Tool change time (tool-to-tool)		s	1.3	
	Tool change time (chip-to-chip)		s	3.7	
Motor	Spindle motor power		kW (Hp)	18.5 / 11 (24.8 / 14.8)	18.5 / 11 (22 / 18.5 or 22 / 11) (24.8 / 14.8 (29.5 / 24.8 or 29.5 / 14.8))
	Coolant pump motor power		kW (Hp)	0.25 (0.3)	0.4 (0.5)
Power source	Electric power supply		kVA	31.3	40.6 (45.7)
	Compressed air supply		Mpa (psi)	0.54 (78.3)	
Tank capacity	Coolant pump capacity		L (gallon)	5.5 (1.5)	13 (3.4)
	Lubrication tank capacity		L (gallon)	3.1 (0.8)	
Machine size	Height		mm (inch)	3091 (121.7)	3190 (125.6)
	Length		mm (inch)	2835 (111.6)	3209 (126.3)
	Width		mm (inch)	2490 (98.0)	3150 (124.0)
	Weight		kg (lb)	5500 (4059.0)	8500 (6273.0)
Control	NC System		-	DOOSAN Fanuc i Plus	DOOSAN Fanuc i Plus / Fanuc 31i-5 / HEIDENHAIN

{ } : option

WHY 5-AXIS MACHINING?

Single setup efficiency

5-axis machining allows you to approach the workpiece from all angles, with complete access to five sides of the part in a single setup. This reduces the overall number of part setups compared to traditional machining, which minimizes machine downtime and maximizes chip making time.



Improved part accuracy

When making parts with multi-sided features using traditional 3-axis machining, multiple part setups are required. This means new inaccuracies can arise each time the workpiece is repositioned. 5-axis machining eliminates stacked tolerances and improves overall part dimensional accuracy.

Extended machine shop capability

Doosan 5-axis machines open up new doors for your machine shop. The increased efficiency will make you instantly more competitive, and full 5-axis machining capabilities give you the opportunity to quote on jobs that previously weren't possible. So, what are you going to make today?



"Compared with similar machines from Japan or Europe, Doosan has the same level of precision and quality at a better value for money."

– OMGM Group, Italy

"Our Doosan 5-axis is making complex, high precision parts for aerospace and defense. Cycle times have been reduced dramatically."

– Aerotech Precision Manufacturing, Great Britain

WHY DOOSAN?

The Doosan promise, MACHINE GREATNESS, has two important meanings. The first is simple: Doosan 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 Doosan over other options?*

Here's why...



MACHINE GREATNESS™



Doosan Machine Tools

WHAT YOU MAKE AND HOW YOU MAKE IT MATTERS—SO MAKE IT GREAT WITH DOOSAN.

UNBEATABLE MACHINES

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

ROBUST PRODUCT LINE

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

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.

EXPERT SERVICE

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

RESPONDING TO CUSTOMERS

ANYTIME, ANYWHERE

Doosan Machine Tools' Global Network

Doosan Machine Tools provides systems-based professional support services, before and after the machine tool sale, by responding quickly and efficiently to customers. By supplying spare parts, product training, field service and technical support, we provide the expert care, attention and assistance our customers expect from a market leader.

Global sales and service support network		51	Technical centers Technical center, Sales support, Service support, Parts support
4	Corporations	200	Service posts
167	Dealer networks	3	Factories



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 Doosan 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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