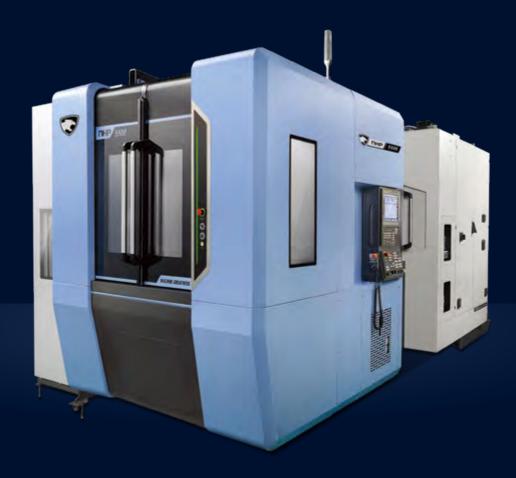


HIGH-SPEED, HIGH-PRODUCTIVITY HORIZONTAL MACHINING CENTER

NHP

5500

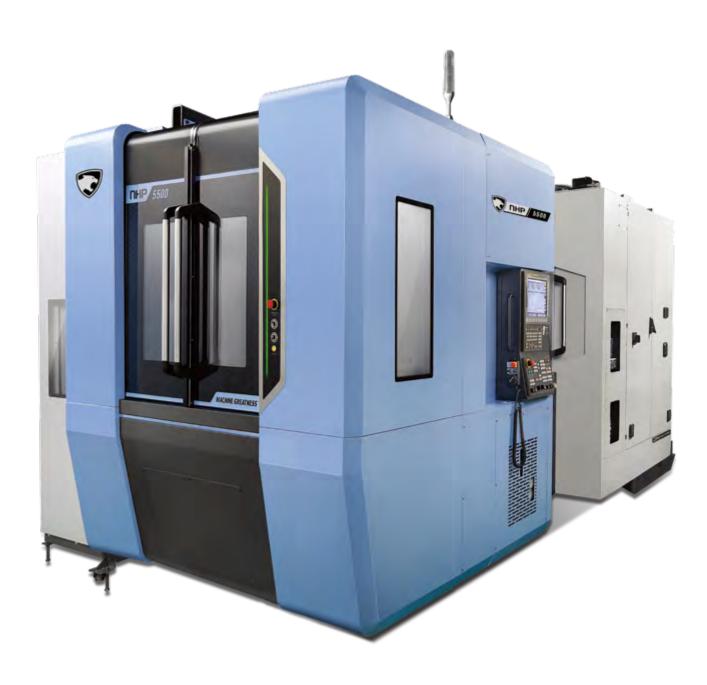
2nd Generation





NHP 5500 2nd Generation

NHP 5500^{2nd} considerably improved the productivity with faster X/Y/Z feed acceleration/deceleration, shorter tool change time and faster table rotation time. And it secured improved machining accuracy with spindle smart thermal control, X/Y/Z all axis ball screw shaft and nut cooling and 3-point support structure equipped as standard. Also provided are various automation solutions and the chip removal function, ensuring stable continuous machining for long periods of time.





ENHANCED PRODUCTIVITY

 Higher productivity and the minimum non-cutting time are accomplished through Y/Z feed axes acceleration and deceleration of more than 1G (X/Y/Z acc/dec 0.91/1.07/1.02G respectively), rapid traverse rate of 60m/min and the short tool change time (T-T-T) of 1.7 seconds.

LONG-LASTING HIGH PRECISION

 Long-term, high-precision machining is ensured on a stable basis through such features as 37KW built-in spindle equipped with the thermal displacement sensor, X/Y/Z high-speed, high-precision roller LM guide with a ball screw shaft and nut cooling function applied in the standard model and a 3-point supporttype bed structure.

VARIOUS AUTOMATION SOLUTIONS/CONVENIENCE FUNCTIONS

 Expandable up to 72 pallets using the LPS or RPS pallet automatic changer, and the hydraulic/ pneumatic fixture line can be built into the table of the pallet bottom.

BASIC STRUCTURE

A high level of precision can be achieved on a stable basis thanks to the 3-point support type bed structure and the X/Y/Z ball screw shaft and nut cooling function.

Travel distance

X axis

800 mm 31.5 inch

Y axis

750 mm

29.5 inch

Z axis

900 mm 35.4 inch

Feed axis acceleration/deceleration

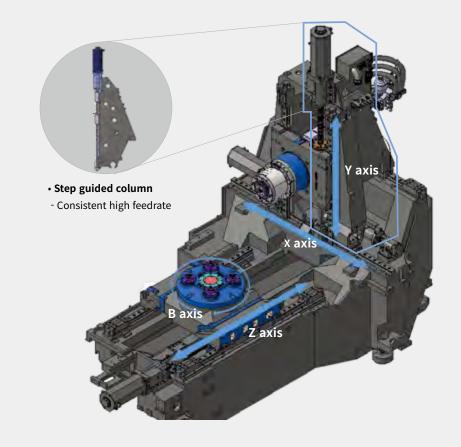
0.91 g

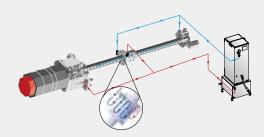
1.07 g

^z axis **1.02** g

Rapid traverse rate

60 m/min 2362.2 ipm





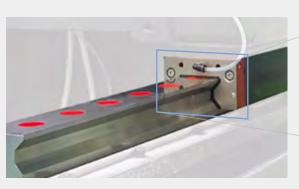
- Ball screw shaft and nut cooling
- Reduced thermal displacement for feed axis and consistent high precision



- 3-point support type bed structure
- Leading to the positional stability of the machine ensuring accuracy

Fast precision X/Y/Z/ feed structure

Productivity has been greatly increased with the high-speed, high-precision roller type LM guideway installed for X/Y/Z entire axes and the acceleration/deceleration performance of more than 1G





High-rigidity, highprecision roller type LM guideway

TABLE

Rotary shuttle-type pallet changer can be operated on a stable and accurate basis, enhancing its reliability.

Max. workpiece size

Ø900 x H1100 mm

35.4 x 43.3 inch

Machinable work size is enlarged in comparison with the previous model by increasing the efficiency of machine interior space (while reducing the space of installation).

Max. workpiece weight (W)

800 kg 1763.7 lb **1000** kg 2204.6 lb **1000**

Pallet change time

12 sec, **15** sec option

Table rotation (B axis)

1° control index table: Capable of high-speed rotation; 90 degrees 1.1 seconds and 180 degrees 1.5 seconds

0.0001 degrees RGC* type rotary table option:
Max. allowable rotative speed 30 r/min

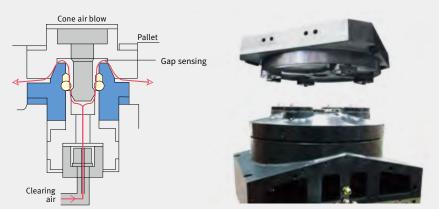
0.0001 degrees DDM** type rotary table option:
Max. allowable rotative speed; high speed
100 r/min

*Roller Gear Cam



Cone Air Blower

As a mechanism designed for precise pallet position repeatability, the air blower injects high pressure air into the location cones connecting the table to the pallet. This removes chips from the locating surfaces and ensures highly accurate pallet positioning.



^{**}Direct Drive Motor

SPINDLE

This built-in spindle minimizes the occurrence of vibration and heat generation. It's equipped with sensor-type spindle smart thermal error compensation, providing excellent high-speed, high-precision cutting performance.

Spindle cooling system (oil cooler) available in the standard model

Max spindle speed

10000 r/min **15000** r/min **option**

Spindle tool taper

ISO #50

Max. spindle motor power

37 kW 49.6Hp **45** kW 60.3Hp (High Torque) option

Max. spindle motor torque

516 N.m 380.8 ft-lbs **644** N.m **option** 475.3 ft-lbs (High Torque)



Spindle Cooling System

An oil cooler system is provided as a standard feature for long-term, continuous operation at high speeds. The oil is cooled down in the cooler before circulating around the spindle bearings and built-in motor to minimize thermal error and deliver high-precision cutting.

High-Speed, high-precision spindle

Designed to minimize vibration and thermal error while offering rapid acceleration and deceleration, the spindle guarantees excellent cutting performance from steel to nonferrous metal parts. Thanks to its increased rigidity, the spindle supports various machining from high speed cutting to low speed heavy cutting.

Spindle cooling system and spindle smart thermal control function available in the standard model

The oil cooler system as well as the spindle thermal error compensation function is provided in the standard model to keep the level of spindle heat generation and thermal error to a minimum.



MAGAZINE

Varied types of the tool magazine are provided for enhanced customer convenience.

Tool changer

Tool magazine capacity

40 ea {60, 90, 120, 150, 196, 256, 316, 376}

Tool change time

Tool To Tool(T-T-T) **1.7** sec Chip To Chip(C-T-C) **4.7** sec

Max. tool length

550 mm 21.7 inch (BT/CAT/DIN) **640** mm 25.2 inch (HSK)

Max. tool weight

25 kg 55.1 lb (40/60T) **30** kg 66.1 lb (More than 90T)



Servo-driven ATC

The ATC is capable of handling pot-type tools weighing up to 25kg and chain-type tools weighing up to 30kg at high speeds using a servo motor and fast tool indexing and spindle positioning.

Tool Magazine type

Pot type magazine
40 / 60 tools option



Chain type magazine option



Matrix type magazine option 196 / 256 / 316 / 376 tools



HIGHER ACCURACY PACKAGE

Going a step further to a higher level of machining accuracy can be achieved by selecting the "Higher Accuracy Package" during high precision machining, i.e. for eco-friendly vehicles, aviation and precision machinery requiring stricter machining tolerance.



1.

Structure smart thermal control

- X/Y/Z structural thermal displacement less than 7μm

Less than 7 µm

(Measuring thermal displacement when atmospheric temperature varies by 6 degrees for 40 hours)



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

3.

Mist collector



4.

Coolant chiller



2.

X/Y/Z linear scale

- X/Y/Z all axes
- Retaining long-term positioning and repetition accuracy



5.

Strict manufacturing process to realize high precision

- Special heat treatment (Body Frame)
- Enhanced precision maintenance for each assembly process

6.

Pallet clamp confirmation

STANDARD | OPTIONAL SPECIFICATIONS

A range of options is available to suit individual requirements.

escription	Features	NHP 5500 2 nd Generation
	40-tool pot type	•
	60-tool pot type	0
	90/120/150 tools_ Chain type	0
ol magazine	196/256/316/376 tools_ Matrix type	0
	Tool ID (Balluff sensor)	0
	Tool management function (TMT1/2/8 digit)	0
	BT50	
ool shank type	CAT50/DIN50/HSK-A100	0
ist collector	Mist Collector	0
st collector	10000 r/min, 37/26 kW	
	10000 r/min, High Torque 45/26 kW	0
indle	High speed 15000 r/min, 37/30 kW	0
	Spindle air curtain	•
	U-axis drive (D'ANDREA TA-C160/200)	0
	Upper hydraulic lines 2X2, 4X4, 6X6, 8X8	0
ydraulic fixtures	Lower hydraulic lines setup part max. 8 ports; table part 2 ports	0
	Hydraulic fixture unit	0
utomation	LPS (Linear Pallet System); 12 to 72 pallets	0
	LPS (Linear Pallet System); 7 to 9 pallets	0
Itomatic workpiece measurement	OMP60	0
atomatic workpiece measurement	RMP60	0
	TS27R, RMI-Q, TRS2, NC 4_Renishaw	0
	D5A_OMRON	0
utomatic tool measurement device	FEM 1CP_Far East Machine Tool	0
	BK9_MSC	0
	Linear scale (X/YZ axes)	0
	Spindle smart thermal control	•
curacy	Structure smart thermal control	0
	Ball screw shaft cooling	•
	Scrapper type; Drum chip conveyor	<u> </u>
	2-step drum chip conveyor	0
nip Handling System	Internal chip conveyor (Screw type)	0
	Chip bucket	0
	Flood (50Hz: 1.1kW 1.0MPa / 60Hz: 1.1kW 0.75MPa)	
	Flushing (50Hz: 2.5kW 0.32MPa / 60Hz: 2.5kW 0.22MPa)	
	Shower (Sharing the motor with 'Flood') TSC 1.5 kW (50Hz' 2.0MPa / 60Hz' 1.0MPa)	0
	TSC_1.5 kW (50Hz: 2.0MPa / 60Hz: 1.9MPa)	0
olout	TSC_3.7 kW (50Hz: 3.0MPa / 60Hz: 2.9MPa)	
polant	TSC_7.5 kW (50Hz/60Hz: 7.0MPa)	0
	Coolant gun	0
	Oil skimmer	
	MQL system	0
	Coolant chiller unit	0
	Coolant level switch, Sensing level; Low/High	0
	Index table (1° control)	•
ble	Rotary table (0.001 control, RGC type)	0
	Rotary table (0.001 control, DDM type)	0
	Tap Pallet	•
llet	T-slot pallet	0
	Max. allowable weight increased (800kg> 1000kg)	0
	Pallet air clamping (Ensuring clamping)	0
R	AIR GUN	0
	SPIN WINDOW (ELECTRIC TYPE)	0
	SPIN WINDOW (ELECTRIC TYPE)	
onvenient Function	APC-set up auto indexing	0

^{*}Please contact DN Solutions to find put more about specifications and options ${\it *When using a semi-synthetic type or synthetic type, contact our sales representative or service center in advance.}$

[•] Standard • Optional x Not applicable

PERIPHERAL EQUIPMENT

Chip Conveyor option

Chip disposal is very important to productivity and the work

To meet this requirement, the NHP Series enhances chip disposal performance, thus improving the work environment.



Scraper type drum chip conveyor



Eco-Friendly Devices



Oil skimmer



Mist collector

Chip disposal solution

A solution for smooth chip disposal is provided to prevent any deterioration in accuracy and productivity caused by the chips that are stuck or piled up

Chip Removal System



FLUSHING COOLANT



FLOOD COOLANT



SHOWER COOLANT option



COOLANT GUN option





SPINDLE-THROUGH COOLANT (TSC) option



MQL SYSTEM Option :SPRAYING ECO-FRIENDLY OIL MIXED WITH AIR, INSTEAD OF CUTTING OIL

PERIPHERAL EQUIPMENT

Measuring Devices



Auto tool damage detection device I (BK 9) option



Auto tool damage detection device II (OMRON) option



Automatic tool measuring device (TS 27R) option

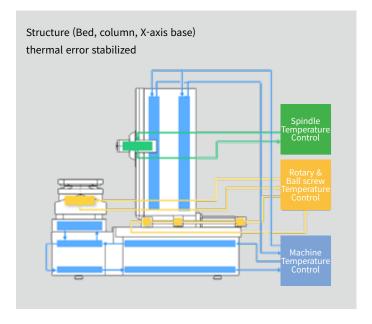
Coolant Chiller Option



Linear scale available in the standard model option



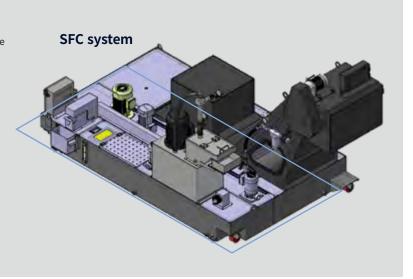
Spindle Smart Thermal Control (Std.) Structure Smart Thermal Control



SFC(Sludge Free Coolant tank) option

This coolant tank system is intended for automatically eliminating the fine chips and sludge deposited on the bottom of the tank.

- Preventing the sludge from being deposited by causing the coolant to flow.
- Collecting and separating sludge using the cyclone filter and the additional pump
- · Extending coolant life (Cost saving)
- Reducing the frequency of cleaning (Machine operating ratio and productivity increased)
- · Best suited for unmanned automation solutions



PERIPHERAL EQUIPMENT | CONVENIENT FUNCTIONS

This operator-oriented design is intended for providing the customer with convenience and safety.

User-oriented design

Internal footing and an anti-door-lock function are provided to prevent the operator from being locked in the machine and to guarantee the operator's safety. The installation of a centralized service unit and screen panel enhances the operator's convenience.

Application

We offer a wide range of solutions that can be optimized to suit each customer's needs.

Coolant flushing on the spindle head to keep clean from chips over the spindle



Centralized utility service unit The utilities service unit is centralized for convenient



ATC screen panel



Anti-door lock device



Spindle-through coolant spray device of semipermanent service life, enabling convenient maintenance and cost saving



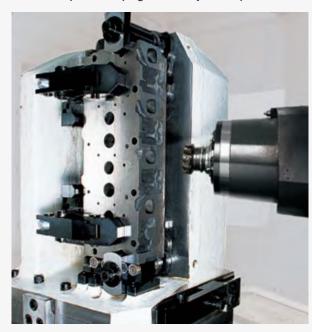
Safety has been improved with machine internal footings



Clamping Fixtures

The following hydraulic and pneumatic fixture options are available for setting up workpieces:

List of workpiece clamping fixtures (hydraulic/pneumatic) option



Hydraulic/pneumatic fixture potClamping fixture hydraulic

• A/B Line: 2, 4, 6, 8 Pairs (Including solenoid valve)

•2.2 kW / 7MPa

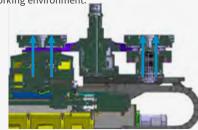
motor

• P/T Line: 2, 4, 6, 8 Pairs (Solenoid valve not included) •3.7 kW / 15MPa •5.5 kW / 21MPa

**Please provide us with detailed specifications on the order sheet

Hydraulic/pneumatic fixture lines on the pallet bottom

Hydraulic/pneumatic fixture lines can be built into the table of the pallet bottom to increase the efficiency of the machine interior space, creating a safer working environment.



LINEAR | ROUND PALLET SYSTEM



LPS 5500

LPS 5500 are wonderfully designed, allowing them to provide a high level of automation system for the customers.

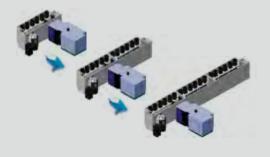
Features

- Servo-driven system providing reliability
- Easy to instal
- Simple on-site modification





Extended automation run-time





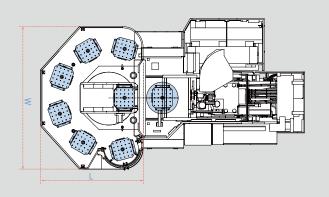
RPS 5500

Compact automation system for BT 50 HMC machines

Features

- Servo-driven system providing reliability
- Easy to instal
- Simple on-site modification

Dimensions



Models		Width (W)	Length (L)	
NHP 5500	mm	3848	2674	
	(inch)	(151.5)	(105.3)	

FANUC 31i PLUS

Fanuc 31i Plus maximizes customer productivity and convenience.

15" Touch screen + New OP

DN Solutions Fanuc 31iB/B5 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 31i Plus

USB and PCMCIA card QWERTY keyboard



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

FANUC

	Itama	Succifications	F31iB PLUS
	Item	Specifications	NHP 5500 2 nd generation
	Controlled axes		4 (X,Y,Z,B)
Controlled axis	Simultaneously controlled axes		4 axes
	Additional controlled Axis	Add 1 Axis (5th Axis)	•
	Fast data server		0
	Memory card input/output		•
ata input/output	USB memory input/output		•
. , .	Large capacity memory(2GB)*2	Note *2) Available Option only with 15" Touch LCD (iHMI Only)	0
	Embedded Ethernet		•
nterface function	Fast Ethernet		0
	Enhanced Embedded Ethernet function		•
	DNC operation	Included in RS232C interface.	•
Operation	DNC operation with memory card		•
	Workpiece coordinate system	G52 - G59	•
	Addition of workpiece coordinate system	G54.1 P1 X 48 (48 pairs)	•
rogram input	Tool number command	, <u>, ,</u> ,	T4 digits
	Tilted working plane indexing command	G68.2 TWP	Õ
	Al contour control I	G5.1 Q , 40 Blocks	X
	Al contour control II	G5.1 Q , 200 Blocks	X
eed function	Al contour control II	G5.1 Q_, 600 Blocks	•*
	Al contour control II	G5.1 Q , 1000 Blocks	O*
	High smooth TCP		X
	EZ Guidei (Conversational Programming Solution)		•
peration Guidance	iHMI with Machining Cycle	Note *1) Only with 15" Touch LCD standard	•
unction	EZ Operation package	,,	•
etting and display	CNC screen dual display function		•
. ,	FANUC MT Connect		•
Network	FANUC OPC UA		•
		15" color LCD	X
	Display unit	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	X
Others	Part program storage size & Number of	10240M(4MB)_1000 programs	•
	registerable programs	20480M(8MB)_1000 programs	0
		2560M(1MB)_2000 programs	0
		5120M(2MB)_4000 programs	0
		10240M(4MB)_4000 programs	0
		20480M(8MB) 4000 programs	0

EZ WORK

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

EZ work

The EZ work 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. EZ work reduces operating time, protects machinery, enhances quality and speeds up maintenance interventions.

Tool support functions



Tool management I

- Tool magazine control
- Tool state display
- Fastems Tool Add/Remove Function



Tool management II forth

- Tool magazine control
- Tool life management
- Tool life prediction Tool state control
- Balluff Tool ID function



Tool load monitor option

- Detection of tool damage
- Detection of abnormalities during operation
- Detection of no-load air cutting

Productivity improvement functions



Adaptive Feed Control

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



APC Setting Screen

A simple automation function that supports automatic processing of the next pallet by setting the processing program for each pallet of the equipment including APC in advance

Pallet magazine support functions



Work Load Control

Optimal machining values can be automatically entered into parameters according to the weight of the workpiece placed on the table



PMC Soft Panel Switch

Manual operations that occur continuously in each stages for APC,ATC change command

Operation support, Help desk functions



Operation rate

- Measure various machine operating rate
- Support 3 shift operation
- calculate and save 30 days operating rate
- Show data for a specific period



Pattern Cycle

A function to automatically create frequently used part programs.



Renishaw GUI

Renishaw tool length measuring and compensate function



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

CONVENIENT OPERATION

SIEMENS 840D

15.6" screen + new operation panel

The newly-designed operation panel improves the customer convenience by incorporating and using common-design buttons and layouts, and includes the familiar QWERTY keyboard for fast and easy operation.

- Provide 15.6" wide screen in the standard model
- 10MB high capacity user memory
- USB & ethernet (standard)
- QWERTY keyboard (standard)
- High-speed calculation and simulation can be fulfilled by improved processor functionality



Conversational convenient function



Simulation and machining contour monitoring



Smart function



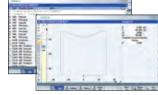
Side screen widget



5-axis kinematic measuring cycles



3D collision avoidance and collision avoidance ECO



Shop mill part programming

NUMERIC CONTROL SPECIFICATIONS

SIEMENS

	ш	6	S840Dsl	
	Item	Specifications	NHP 5500 2 nd generation	
Controlled axis	Controlled axes	-	4 axes	
Controlled axis	Simultaneously controlled axes	-	4 axes	
Data immed/autment	Memory card input/output	(Local drive)	•	
Data input/output	USB memory input/output		•	
Interface function	Ethernet	(X130)	•	
Omawatian	On network drive	(without EES option, Extcall)	•	
Operation	On USB storage medium, e.g. memory stick	(without EES option, Extcall)	•	
Due avere in west	Workpiece coordinate system	G54 - G57	•	
Program input	Addition of workpiece coordinate system	G505 - G599	•	
	Advanced surface		•	
Interpolation & Feed function	Top surface		0	
•	Look ahead number of block	S/W version 4.8	1000	
	3D simulation, finished part		•	
Duamentina & Editina forestion	Simultaneous recording		•	
Programming & Editing function	Measure kinematics		X	
	DXF Reader for PC integrated in SINUMERIK Operate		0	
On another Calden as Familian	ShopMill		•	
Operation Guidance Function	EZ Work		•	
Setting and display	Operation via a VNC viewer		•	
Network	MTConnect		O	
Network	OPCUA		0	
Etc. function	15.6" color display with touch screen		•	
	19" color display without touch screen		0	
	21.5" color display with touch screen		0	
	CNC user memory	10 MB	•	
	Expansion by increments	2 ~ 12 MB	0	
	Collision avoidance		0	
	Collision avoidance ECO (machine, working area)		0	

POWER | TORQUE

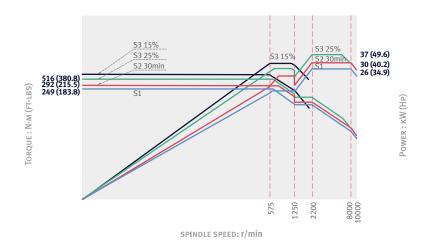
10000 r/min FANUC

MAX. SPINDLE POWER: 37/26 kW

49.6/34.9 Hp

MAX. SPINDLE TORQUE : **516** N·m

380.8 ft-lbs



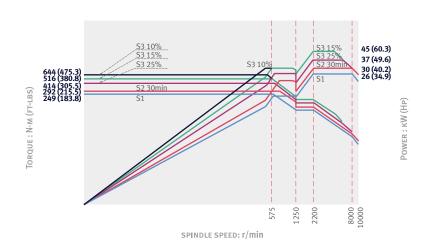
10000 r/min FANUC OPTION

MAX. SPINDLE POWER: 46/26 kW

61.7/34.9 Hp

MAX. SPINDLE TORQUE : **644** N·m

475.3 ft-lbs



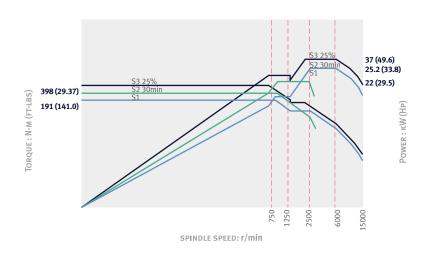
15000 r/min FANUC OPTION

MAX. SPINDLE POWER: 37/30 kW

49.6/40.2 Hp

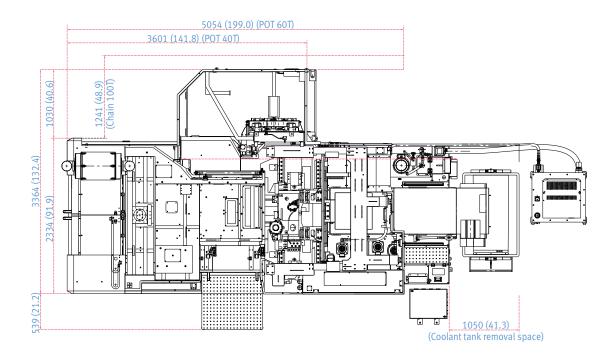
MAX. SPINDLE TORQUE : 398 N·m

293.7 ft-lbs

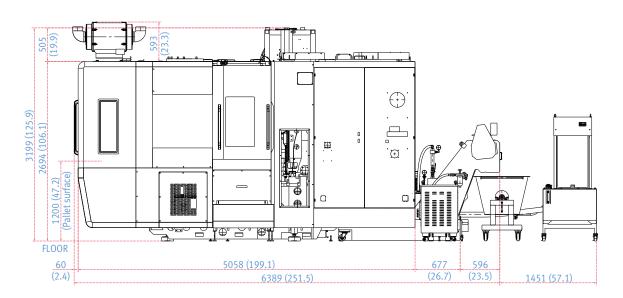


DIMENSIONS

Units : mm (inch)



TOP



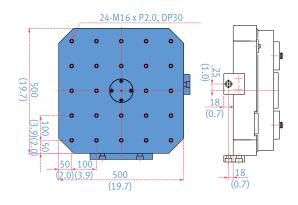
FRONT

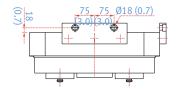
WORKING AREA

Table dimensions

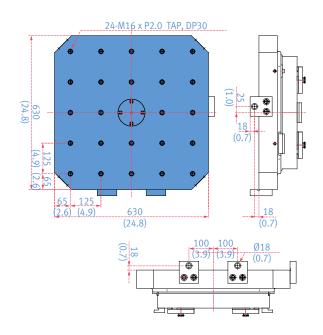
Units: mm (inch)

STANDARD (500 \times 500)





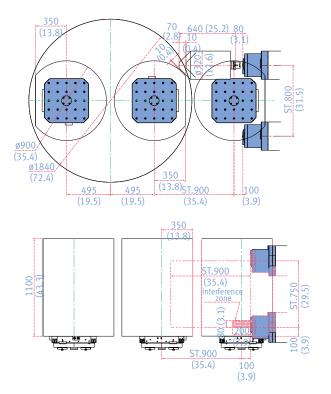
OPTION (630 \times 630)



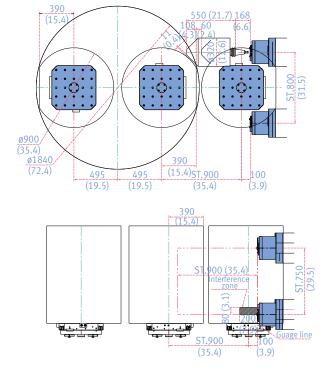
Workpiece working area

Units : mm (inch)





BT/CT/DIN



MACHINE SPECIFICATIONS

Description			Unit	NHP 5500 2 nd Generation	
Cutting capacity		X-axis	mm (inch)	800 (31.5)	
	Travel distance	Y-axis	mm (inch)	750 (29.5)	
		Z-axis	mm (inch)	900 (35.4)	
	Distance from spin	dle nose to table center	mm (inch)	100~1000 (3.9~39.4)	
	Distance from spir	ndle center to table top	mm (inch)	100~850 (3.9~33.5)	
Feed rate		X-axis	m/min (ipm)	60 (2362.2)	
	Rapid feed rate	Y-axis	m/min (ipm)	60 (2362.2)	
		Z-axis	m/min (ipm)	60 (2362.2)	
	Cutting feed rate		mm/min (ipm)	30000 (1181.1)	
Pallet	Pallet type			24-M16xP2.0	
	Pallet indexing angle		deg	1 {0.001(DD, RGC)}	
	Max. loading capacity		kg (lb)	800 {1000} (1763.7 {2204.6})	
	Max. workpiece size		mm (inch)	Ø900 x 1100 (35.4 x 43.3)	
	Pallet size		mm (inch)	500 x 500 (19.7 x 19.7)	
Spindle	Max spindle speed		r/min	10000 {10000, 15000}	
	Taper			ISO #50, 7/24 TAPER	
	Max. torque		N·m (ft-lbs)	516 {644, 398} (380.8 {475.3, 293.7})	
Auto pallet changer	No. of pallets		ea	2	
(APC)	Pallet change time		S	12	
	APC indexing angle (rotation)		deg	90	
Automatic tool	Type of tool shank		Ŭ.	BT50 {CAT50,DIN50,HSK-A100}	
changer (ATC)	71	Pot type	ea	40 {60}	
	Tool storage	Chain type	ea	{90, 120, 150}	
	capacity	Matrix type	ea	{196, 256, 316, 376}	
	Max. tool diameter	W/O adjacent tool	mm (inch)	125 (4.9) (Pot type) 130 (5.1) (Chain/Matrix type)	
		With adjacent tool	mm (inch)	320 (12.6)	
	Max. tool length		mm (inch)	550 (21.7) (BT/CAT/DIN) 640 (25.2) (HSK)	
	Max. tool weight		kg (lb)	25 {30} (55.1 {66.1})	
	Max. tool weight		N·m (ft-lbs)	34.3 (25.3)	
	Tool change time (tool to tool, tools)		S	1.7 (Less than 12kg)	
	Tool change time (chip-to-chip)		s	4.7 (Less than 12kg)	
Motor	Spindle motor power		kW (Hp)	37/30/26 (49.6/40.2/34.9) (S3 25%/30min/Continuous) {45/37/30/26 (60.3/49.6/40.2/34.9) (S3 15%/S3 25%/30min/Continuous), 37/30(49.6/40.2) (S3 25%/Continuous)}	
Power source	Power consumption		kVA	66.99	
	Compressed air pressure		Mpa	0.54	
Tank capacity	Coolant tank capacity		L	1100	
Turin cupacity	Lubricant tank capacity		L	1.4	
Machine dimensions	· , ,		mm (inch)	3199 (125.9)	
	Length		mm (inch)	6389 (251.5) (Length with rear conveyor)	
	Width		mm (inch)	3375 (132.9)	
	VVICITI	Weight			

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…



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

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 DN Solutions 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.

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

RESPONDING TO CUSTOMERS ANYTIME, ANYWHERE

DN Solutions Global Network

DN Solutions 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

4	Corporations	
155	Dealer networks	
51	Technical centers Technical Center, Sales Support, Service Support, Parts Support	
200	Service posts	
3	Factories	









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^{*} Specifications and information contained within this catalogue may be changed without prior notice.



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