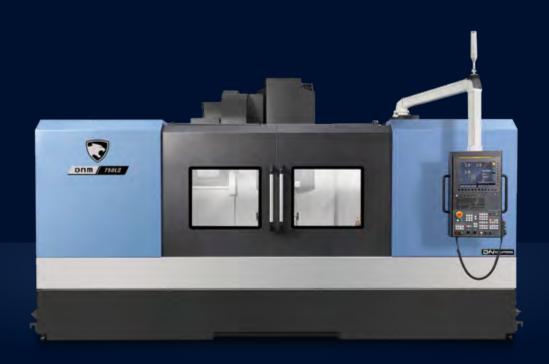


HIGH PRODUCTIVITY VERTICAL MACHINING CENTER

DNM

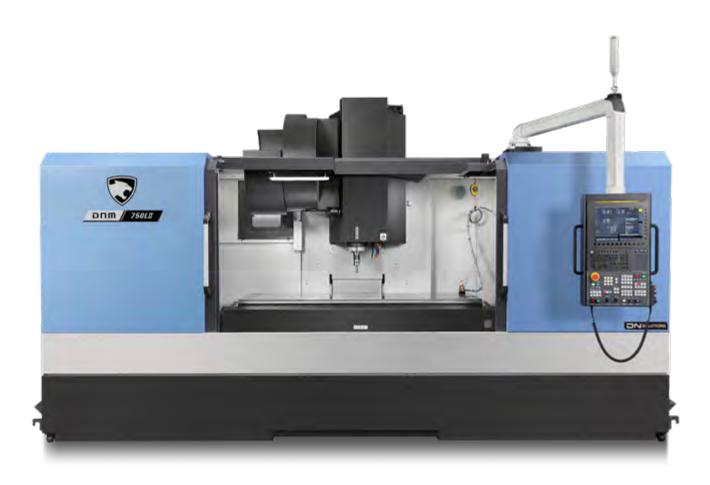
750II · 750LII





DNM 750 II · DNM 750 L II

Designed as high productivity vertical machining centers, the DNM 750 II and DNM 750L II have a rigid structure and are equipped with either directly-coupled, built-in or belt-driven spindles. An oil cooler system is supplied as a standard enabling the machines to be used continuously, at high speed, over long periods of time. The oil is cooled in the cooler system before being circulated around the spindle head and ball screw nut to minimize thermal displacement and deliver high-precision cutting. The Ez work functions in the machines' control systems ensure efficient and trouble-free job set ups and machining operations.





THE LARGEST CUTTING AREA IN THEIR CLASS

 The X-axis travel distance, table size and maximum table load have all been increased allowing larger and heavier workpieces to be machined.

HIGH PRODUCTIVITY MACHINES FOR HIGHLY STABLE MACHINING PERFORMANCE

 Spindle cooling and ball screw cooling systems are supplied as standard to ensure reliable and repeatable machining performance.

EASY OPERATION OF CNC SYSTEM

- Fast, efficient and error-free operation
- The Ez work functions are user friendly and are easy-to-use.

BASIC STRUCTURE | AXIS SYSTEM

Basic structure

The machines' rigid column design ensures highly-stable machining performance. Larger workpieces can be machined by extending the X-axis stroke.

Traver distance (X x Y x Z axis)

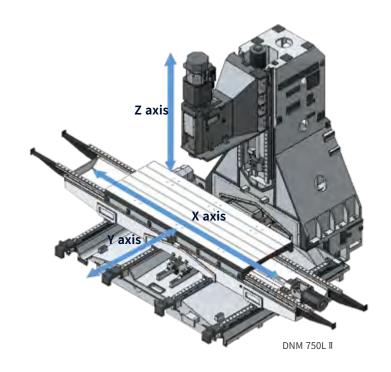
DNM 750 T

1630 / 762 / 650 mm 64.2 x 30.0 x 25.6 inch

DNM 750L π

2160 / 762 / 650 mm 85.0 x 30.0 x 25.6 inch

The DNM 750L ${\mathbb I}$ uses four-row Roller guideways in the Y-axis that eliminate overhang and provide optimum stability. (DNM 750 ${\mathbb I}$ has two-row Roller guideways).



Axis system

Roller LM guideways are used as standard on all axes to improve rigidity.

Rapid traverse rate (X / Y / Z axis)

DNM 750 1

30 / 30 / 24 m/min 1181.1 / 1181.1 / 944.9 ipm

DNM 750L π

24 / 24 / 24 m/min 944.9 / 944.9 ipm

Roller LM guideway life is twice that of Ball LM guideways.



TABLE

The machines offer a wide range cutting capacities and capabilities, and can handle a range of large workpieces.

Table size (A x B)

DNM 750 I

1630 x 760 mm 64.2 x 29.9 inch

DNM 750L II

2160 x 760 mm 85.0 x 29.9 inch

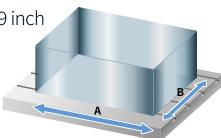
Max. weight on table

DNM 750 $\scriptstyle \rm II$

DNM 750L II

1500 kg 3306.9 lb

1800 kg



SPINDLE

Spindle

Directly-coupled spindles have been adopted as a standard feature to further reduce vibration and noise while enhancing productivity, the working environment and machining accuracy. The dual contact tool system is used as standard for extra rigidity and reliability.

Max. spindle speed

8000 r/min*

12000 r/min** option

Max. spindle motor power

18.5 kW 24.8 Hp

28 kW 37.5 Hp option

15.6 kW 20.9 Hp option

Max. spindle motor torque

118 N.m 87.1 ft-lbs

159.1 N.m 117.4 ft-lbs option

165.5 N.m 122.1 ft-lbs option

* Belt type ** Direct type

TOOL CHANGE SYSTEM

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

Tool storage capacity

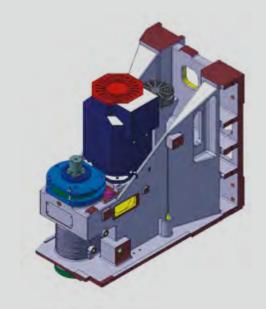
30 ea / 40 ea option

Tool to Tool

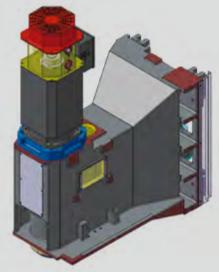
1.3 sec

Chip-to-Chip*

3.7 sec



Belt







^{*} The Chip-to-Chip time has been tested in accordance with DN Solutions's strict testing conditions, but may vary depending on the user's operating conditions.

MACHINING PERFORMANCE

To provide best cutting performance. Tool change time has been optimized to reduce non cutting time.

Cutting performance

Result of cutting test on DNM 750 II (12000r/min, Direct, 15.6/15.6kW (20.9/20.9 Hp))

Face mill (ø80 mm (ø3.1 inch) Carbon	steel (SM45C)							
Chip removal rate (cm³/min(inch³/min))	Spindle speed (r/min)	Feedrate (mm/min (ipm))	3mm					
806 (49.2)	1500	4200 (165.4)	(0.1 inch) 64 mm (3.1 inch)					
Face mill (ø80 mm (ø3.1 inch) Aluminiu	Face mill (ø80 mm (ø3.1 inch) Aluminium alloy (AL6061)							
Chip removal rate (cm³/min(inch³/min))	Spindle speed (r/min)	Feedrate (mm/min (ipm))	6mm					
1728 (105.4)	1500	4500 (177.2)	(0.2 inch) 1 64 mm (3.1 inch)					
U-Drill (ø40 mm (ø1.6 inch)) Carbon st	eel (SM45C)		H2000					
Chip removal rate (cm³/min(inch³/min))	Spindle speed (r/min)	Feedrate (mm/min (ipm))	Ø40mm (Ø1.6 inch)					
251 (15.3)	1200	200 (7.9)						
Tap Carbon steel (SM45C)								
Tap size (mm)	Spindle speed (r/min)	Feedrate (mm/min (ipm))						
M30 x P3.5	200	700 (27.6)						

^{*} 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.

Cutting performance

Result of cutting test on DNM 750 I (12000r/min, Direct, 28/11kW (37.5/14.8 Hp))

Face mill (ø80 mm (ø3.1 inch) Carbon s	steel (SM45C)							
Chip removal rate (cm³/min(inch³/min))	Spindle speed (r/min)	Feedrate (mm/min (ipm))	3mm					
864 (52.7)	1500	4500 (177.2)	(0.1 inch) 64 mm (3.1 inch)					
U-Drill (ø55 mm (ø2.2 inch)) Carbon sto	I-Drill (ø55 mm (ø2.2 inch)) Carbon steel (SM45C)							
Chip removal rate (cm³/min(inch³/min))	Spindle speed (r/min)	Feedrate (mm/min (ipm))	Ø55mm (Ø2.2 inch)					
356 (21.7)	700	150 (5.9)						

^{*} 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 7	
	FANILIC	8000 r/min	Belt	18.5/15 kW (24.8/20.1 Hp) (S3 60%/Cont.)	Ò)
	FANUC	12000 r/min	Direct	28/11 kW (37.5/14.8 Hp) (S3 15%/Cont.) 15.6/15.6 kW (20.9/20.9 Hp) (S3 40%/Cont.)		
pindle	LIEIDENHAIN	8000 r/min	Belt	20/15 kW (26.8/20.1 Hp) (S6 60%/Cont.)		
•	HEIDENHAIN	12000 r/min	Direct	20/15 kW (26.8/20.1 Hp) (S6 60%/Cont.)		
	SIEMENS	8000 r/min 12000 r/min	Belt	21.8/16.3 kW (29.2/21.9 Hp) (S6 40%/Cont.)		
		8000 r/min	Direct Belt	16.5/11 kW (22.1/14.8 Hp) (S6 40%/Cont.) 18.5/15 kW (24.8/20.1 Hp)		
	FANUC	12000 r/min	Direct	28/11 kW (37.5/14.8 Hp)	Ŏ)
pindle cooling				15.6/15.6 kW (20.9/20.9 Hp)		
ystem	HEIDENHAIN	8000 r/min 12000 r/min	Belt Direct	20/15 kW (26.8/20.1 Hp) 20/15 kW (26.8/20. Hp)		
	SIEMENS	8000 r/min	Belt	21.8/16.3 kW (29.2/21.9 Hp)	Ť	, —
	SIEMENS	12000 r/min	Direct	16.5/11 kW (22.1/14.8 Hp)	•)
lagazine	Tool storage capacity		30 ea 40 ea)
	BIG PLUS BT40		40 ea			
ool shank type	BIG PLUS CAT40				C	
	BIG PLUS DIN40		0.15.14	Lw/0.511.))
	FLOOD		0.15 Mpa, 0.4 0.7 MPa, 1.8 k			<u>, </u>
			None	τ. \Στ. Π <i>Ψ/</i>		
	TSC		2 MPa, 1.5kW			
oolant			2 MPa, 4.0 kW			
	SHOWER		7 Mpa, 5.5 kW 0.1 MPa, 1.1 k			
	Oil skimmer		Belt type	(2.5 11þ)	Č	
	MQL		,		C	
	Chip pan		Hingod type /	Left / Right / Rear)		
hip disposal	Chip conveyor		Magnetic scra	per type (Left / Right / Rear)		
p aopooat	Cimp conveyor		Drum filter ty	Drum filter type (Rear)		
	Chip bucket		<i>y y </i> 7 ·)	
recision machining	Linear scale AICC II (200 block)		X / Y / Z axis			
ption			Look-ahead b	lock is Max.200		
	Fine surface machining			ntrol II+ -Smooth tolerance control+ -Jerk control	•	,
	Automatic tool measurement		TS27R OTS		C	
leasurement &	Automatic tool breakage detection		013			
utomation	Automatic workpiece measuremen		OMP60		Č	
	Automatic front door with safety do	evice	1501440)
	WORK LIGHT SMART THERMAL CONTROL		LED LAMP	TYPE(ONLY SPINDLE)		
	AIR BLOWER		-	TTPE(ONLT SPINDLE)		<u>, </u>
	AUTO TOOL LENGTH		RENISHAW /		Č)
	MEASUREMEMT	MAKER/SPEC.	RENISHAW / 0	DTS CHINE TOOL/FEM-1CP(NEEDLE TYPE IN CUTTING AREA)		
Accessories	AUTO TOOL BREAKAGE DETECTION AUTO WORKPIECE MEASUREMENT		RENISHAW /			
	4TH AXIS PREPARATION CABLING					
	FOR SERVO/1-PNEUMATIC PIPING		FACTORY REA	DY MADE	C	
	AIR GUN		-		C	
	Coolant gun Mist collector					
	ANCHORING ⁽¹⁾		SIDE CLAMP 8	CHEMICAL ANCHOR BOLT	Č	
	COOLANT CHILLER(2)		-		<u>C</u>	
	TSA ⁽³⁾		0.54 150mm		C	
	RAISING BLOCK		200mm		Č	
			300mm		Č	
				E TYPE LEFT SIDE	C	
	CHID CONVEYOR			MAGNETIC SCRAPER TYPE RIGHT SIDE MAGNETIC SCRAPER TYPE LEFT SIDE		
	CHIP CONVEYOR		DRUM CHIP CONVEYOR WITH HINGED PLATE		C)
ustomized			DRUM CHIP C	C		
ecial Option	20 BAR TSC with INVERTER		OUTLET DIRE 50Hz → 60Hz			
	MAGAZINE TOOL STORAGE CAPACIT	ГУ	60T(CHAIN AT	Č		
	SERVO MAGAZINE		30T		Č	
	OLIVO PINONLINE		40T	(HOLL COA)	C	
	AEROSPACE PACKAGE		30K SPINDLE		C	
	SPINDLE HEAD TYPE			HP EVACUATION %), 15,000 rpm, DIRECT TYPE		
	AUTO TOOL LENGTH MEASUREMEN	ИТ	LTS	,,,,		
	AUTO TOOL BREAKAGE DETECTION		MSC/BK9(NE	DLE TYPE ON MAGAZINE)	Č	
	AUTO DOOR WITH SAFETY EDGE		-)

^{*} Please contact DN Solutions for detailed specification information.

⁽¹⁾ Please contact DN Solutions to declared specification information.

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

(2) In case of using neat cutting oil, this device is highly recommended in order to reduce the change of accuracy by rising the coolant temperatures.

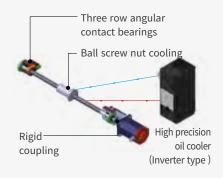
(3) In case of TSC is not required and only TSA is needed, this option can be selected.

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

PERIPHERAL EQUIPMENT

Spindle and ball screw nut cooling system

The machines' cooling system helps minimize thermal displacement of the spindle and axes and features oil, that is cooled and is then circulated around the spindle head and ball screw nuts.



Chip conveyor option









Long

Short

Needle

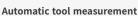
Sludge

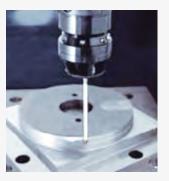
	Material		Carbon steel			Cast iron		Aluminium		
Chip conveyor type		Long	Short	Needle	Short	Sludge	Long	Short	Needle	
Hinged belt	type	0	Δ	X	Δ	X	0	Δ	X	
Scrapper	Normal	X	0	Δ	0	Δ	X	Δ	X	
type	Magnetic	X	0	0	0	0	_	_	_	
Drum filter	Hinged type	0	Δ	X	Δ	X	0	Δ	X	
type	Scrapper	X	0	Δ	0	Δ	X	0	Δ	

○:Suitable, △:Possible, X:Not suitable

Measurement & Automation option







Automatic workpiece measurement

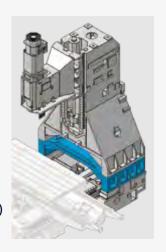
Raised block option

When the distance between the table top and the spindle nose needs to be extended, for example, to accommodate a fixture or rotary axis on the table, a raised block can be used.

Height 150 mm (5.9 inch)

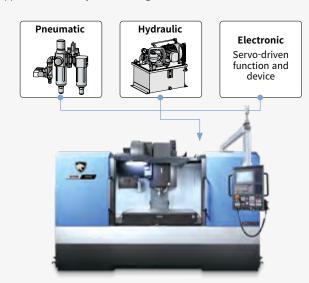
200 mm (7.9 inch)

300 mm (11.8 inch)



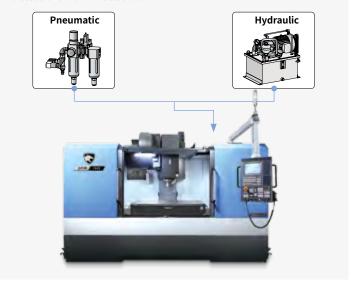
4th-axis auxiliary device interface option

Customers wishing to set up a rotary axis on the table to increase application flexibility are encouraged to contact DN Solutions in advance.



Hydraulic / Pneumatic fixture line option

Customers should prepare pipelines for hydraulic/pneumatic fixtures whose detailed specifications should be determined and agreed through discussions with DN Solutions.



DN SOLUTIONS FANUC i PLUS

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

15 inch screen + new operation panel

DN Solutions 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.

DN Solutions Fanuc i Plus

- 15 inch color displayIntuitive and user-friendly design

USB & PCMCIA card OWERTY keyboard

- EZ-guide i standard
- Ergonimic operator panel
 2MB Memory



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	DN Solutions Fanuc i (0i Plus) DNM 4digit
	Controlled axes		3 (X,Y,Z)
Controlled axis	Simultaneously controlled axes		4 axes
	Additional controlled Axis	Add 1 Axis (5th Axis)	•
	Fast data server	<u>'</u>	0
Oata input/output	Memory card input/output		•
	USB memory input/output		•
	Large capacity memory(2GB)*2	Available Option only with 15" Touch LCD (iHMI Only) *2)	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	•
Program input	Addition of workpiece coordinate system	G54.1 P1 X 48 (48 pairs)	•
	Tool number command		T4 digits
	Tilted working plane indexing command	G68.2 TWP	0
	Al contour control I	G5.1 Q_, 40 Blocks	X
Feed function	Al contour control II	G5.1 Q_, 200 Blocks	•
	Al contour control II	G5.1 Q , 600 Blocks	X
	Al contour control II	G5.1 Q , 1000 Blocks *1)	X
	High smooth TCP		X
	EZ Guidei (Conversational Programming Solution)		•
Operation guidance	iHMI with Machining Cycle	Only with 15" Touch LCD standard *2)	X
function	EZ Operation package	,	•
Setting and display	CNC screen dual display function		•
. ,	FANUC MTConnect		0
Network	FANUC OPC UA		Q.
		10.4" color LCD	X
	Display unit	15" color LCD	X
		15" color LCD with Touch Panel	•
		640M(256KB)_500 programs	X
		1280M(512KB)_1000 programs	X
		2560M(1MB)_1000 programs	X
Others		5120M(2MB)_1000 programs	•
	Part program storage size & Number of	10240M(4MB)_1000 programs	X
	registerable programs	20480M(8MB)_1000 programs	X
	Ü	2560M(1MB)_2000 programs	X
		5120M(2MB)_4000 programs	X
		10240M(4MB)_4000 programs	X
		20480M(8MB)_4000 programs	X

^{*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

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



Operation Rate

Machine operation history management function by date based on load



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 the rst time, manual) / Tool name]



Adaptive Feed Control

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)



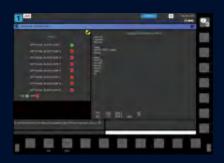
Spindle Warm Up

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

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

NOTIFICATION TO THE MINISTER OF THE MINISTER O

Conversational convenient function



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



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



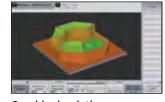
Collision protection system



Adaptive feed control option



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



Graphic simulation

NUMERIC CONTROL SPECIFICATIONS



	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	0
Collision monitoring	Dynamic collision monitoring (DCM)		X
Network	MTConnect		0
		15.1 inch TFT color flat panel	•
	P. 1	15.1 inch TFT color with Touch Panel	0
0.1	Display unit	19 inch TFT color flat panel	0
Others		19 inch TFT color with Touch Panel	0
	Part program storage size & number of registerable	21GB	Х
	programs	1.8GB	•

● Standard ○ Optional X Not Available ❖ Available

CONVENIENT OPERATION

SIEMENS 828D

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.

- 15.6" display
- 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



Shop Mill Part Programming



Advanced program language programGUIDE



Smart function



Simulation and machining contour monitoring



Side screen widget

NUMERIC CONTROL SPECIFICATIONS

SIEMENS

		C	S828D
	Item	Specifications	DNM
Controlled and	Controlled axes (제어축수)	-	3축
Controlled axis	Simultaneously controlled axes (동시 제어축수)	-	3축
Data inmut/autmut	Memory card input/output	(Local drive)	Х
Data input/output	USB memory input/output		•
Interface function	Ethernet	(X130)	•
Oneration	On network drive	(without EES option, Extcall)	0
Operation	On USB storage medium, e.g. memory stick	(without EES option, Extcall)	•
Dragram innut	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	450
Programming & Editing function	3D simulation, finished part		•
	Simultaneous recording		•
	Measure kinematics		Х
	DXF Reader for PC integrated in SINUMERIK Operate		0
Operation Cuidance Function	ShopMill		•
Operation Guidance Function	EZ Work		•
Setting and display	Operation via a VNC viewer		•
Network	MTConnect		٥
network	OPCUA		0
	15.6" color display with touch screen		•
	19" color display without touch screen		Χ
	21.5" color display with touch screen		Х
Etc. function	CNC user memory	10 MB	•
	Expansion by increments	2 ~ 12 MB	0
	Collision avoidance		Χ
	Collision avoidance ECO (machine, working area)		Х

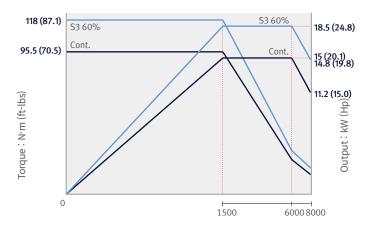
POWER | TORQUE

FANUC

FANUC 8000 r/min

8000 r/min

Max. spindle power: 18.5 kW (24.8 Hp) Max. spindle torque: 118 N·m (87.1 ft-lbs)

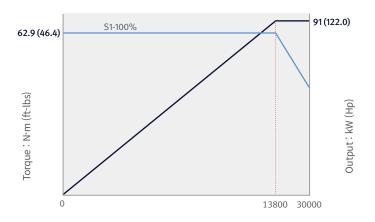


Spindle speed: r/min

FANUC 30000 r/min policy

30000 r/min

Max. spindle power: 91 kW (122.0 Hp) Max. spindle torque: 62.9 N⋅m (46.4 ft-lbs)

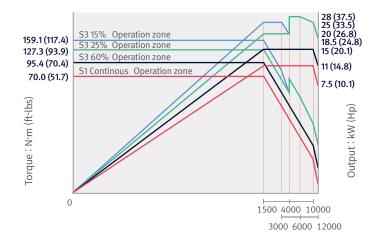


Spindle speed: r/min

FANUC 12000 r/min option

12000 r/min

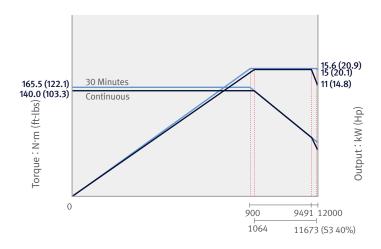
Max. spindle power: 28 kW (37.5 Hp)
Max. spindle torque: 159.1 N·m (117.4 ft-lbs)



Spindle speed: r/min

12000 r/min

Max. spindle power: 15.6 kW (20.9 Hp)
Max. spindle torque: 165.5 N·m (122.1 ft-lbs)



Spindle speed: r/min

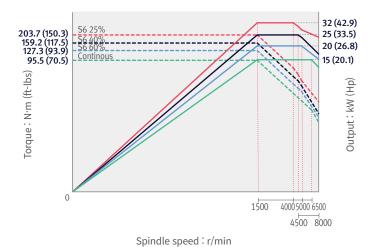
POWER | TORQUE

HEIDENHAIN | SIEMENS

HEIDENHAIN 8000 r/min

8000 r/min

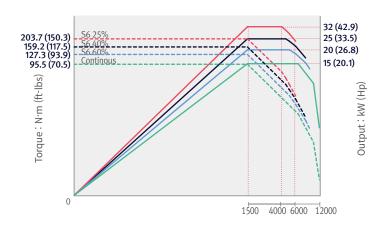
Max. spindle power: 32 kW (42.9 Hp)
Max. spindle torque: 203.7 N·m (150.3 ft-lbs)



HEIDENHAIN 12000 r/min option

12000 r/min

Max. spindle power: 32 kW (42.9 Hp)
Max. spindle torque: 203.7 N·m (150.3 ft-lbs)

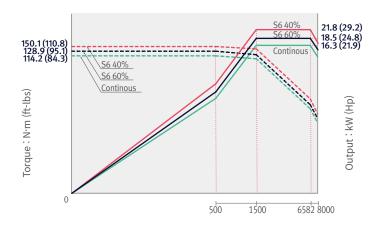


Spindle speed: r/min

SIEMENS 8000 r/min

8000 r/min

Max. spindle power: 21.8 kW (29.2 Hp)
Max. spindle torque: 150.1 N·m (110.8 ft-lbs)

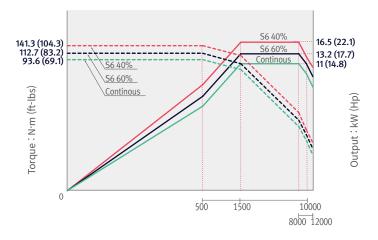


Spindle speed: r/min

SIEMENS 12000 r/min option

12000 r/min

Max. spindle power: 16.5 kW (22.1 Hp)
Max. spindle torque: 141.3 N·m (104.3 ft-lbs)

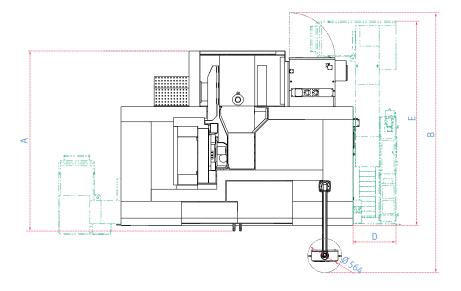


Spindle speed: r/min

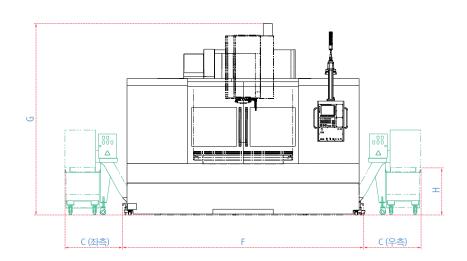
DIMENSIONS

Units : mm (inch)

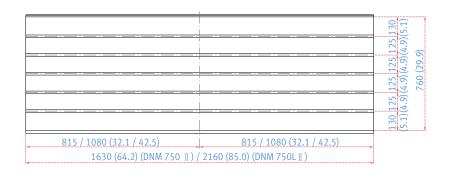
TOP

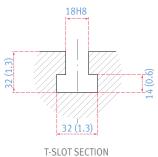


FRONT



TABLE





Model	A (Length)	B (Max. machine length)	C (Additional width to accommodate the side chip conveyor)	D (Additional width to accommodate the rear chip conveyor)	E (Length to accommodate the rear chip conveyor)	F (Width)	G* (Height)	H (Height from the floor to the chip outlet)
DNM 750 II	2986 (117.6)	4309 (169.6)	Left & Right: 953 (37.5)	790 (31.1)	3390 (133.5)	4000 (157.5)	3170 / 3251 (124.8 / 128.0)	805 (31.7)
DNM 750L I	2986 (117.6)	4309 (169.6)	Left & Right : 953 (37.5)	790 (31.1)	3390 (133.5)	5050 (198.8)	3170 / 3251 (124.8 / 128.0)	805 (31.7)

^{*} Some peripheral equipment can be placed in other places

MACHINE SPECIFICATIONS

Description				Unit	DNM 750 II	DNM 750L II	
Travels		X axis		mm (inch)	1630 (64.2)	2160 (85.0)	
	Travel distance	Y axis		mm (inch)	762 (3)		
		Z axis		mm (inch)	650 (25.6)		
	Distance from spindle	nose to table top		mm (inch)	150 ~ 800 (5.9 ~ 31.5)		
Table	Table size			mm (inch)	1630 x 760 (64.2 x 29.9) 2160 x 760 (85.0 x		
	Table loading capacit	y		kg (lb)	1500 (3306.9)	1800 (3968.3)	
	Table surface type			mm (inch)	T-SLOT [5-125 (4.		
Spindle				r/min	800		
			Direct	r/min	{1200	0}*	
		FANUC		r/min	{1200		
			Built in	r/min	{3000	0}*	
	Max. spindle speed		Belt	r/min	800		
		HEIDENHAIN	Direct	r/min	{1200		
			Belt	r/min	800		
		SIEMENS	Direct	r/min	{1200	0}*	
	Taper			-	ISO #	-	
				kW (Hp)	18.5/15 (24		
	Spindle power	FANUC	Direct	kW (Hp)	{28/11 (37.5		
				kW (Hp)	{15.6/15.6 (20		
			Belt	kW (Hp)	32/15 (42.9/20.1)		
		HEIDENHAIN	Direct	kW (Hp)	{32/15 (42.9/20.1)}*		
			Belt	kW (Hp)	21.8/16.3 (29.2/21.9)		
		SIEMENS	Direct	kW (Hp)	{16.5/11 (22.1/14.8)}*		
			Direct	N·m (ft-lbs)	118 (87.1)		
	Max. spindle torque	FANUC	Direct	N·m (ft-lbs)	{159.1 (117.4)}*		
			Direct	N·m (ft-lbs)	{165.5 (13		
			Belt	N·m (ft-lbs)	203.7 (150.3)		
		HEIDENHAIN	Direct	N·m (ft-lbs)	{203.7 (150.3)}*		
			Belt	N·m (ft-lbs)	150.1 (110.8)		
		SIEMENS	Direct	N·m (ft-lbs)	{141.3 (10		
Feedrates		X axis	Direct	m/min (ipm)	30 (1181.1) 24 (944.9)		
ccuruccs	Rapid traverse rate	Y axis		m/min (ipm)	30 (1181.1)	24 (944.9)	
	napia traverse rate	Z axis		m/min (ipm)	24 (944.9)	24 (944.9)	
Automatic		Tool shank		тіўтіні (іріні)			
Tool Changer	Type of tool shank				BT 40 {CAT40/DIN40}*		
	Pull stud			ea	PS806 30 {40}*		
	Tool storage capa.	Continous		mm (inch)			
	Max. tool diameter	Without Adja	cont Tools	mm (inch)	80 (3.1) {76 (3.0)}*		
	Max. tool length	Without Auja	icent roots	mm (inch)	125 (4.9)		
	Max. tool weight				300 (11.8)		
	Max. tool moment			kg (lb) N·m (ft-lbs)	8 (17.6) 5.88 (4.3)		
				N*III (IL-IDS)			
	Tool seletion	Tool-to-tool		500	MEMORY R		
	Tool change time			sec	1.3 1		
Dower source	Electric power supply	Chip-to-chip		sec kVA	3.7 40.00 / 37.5		
Power source		•	Ly)		40.00 / 37.5		
Canle canacite :	Compressed air suppl	-		Mpa	0.54		
Tank capacity Machine Dimensions	Coolant tank capacity			L (gal)	520 (137.4)	590 (155.9)	
racilile Dimensions	Height			mm (inch)	3170 (1		
	Length			mm (inch)	3480 (1		
	Woight			mm (inch)	3850 (151.6)	4900 (192.9)	
Cambual	Weight			kg (lb)	13500 (531.5)	15000 (590.6)	
Control	CNC system			-	DN Solutions F SIEMENS S828D / HE		

*{ }: Option



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



2.5 m

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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