



DNM 750 II DNM 750L I

High Productivity Vertical Machining Center

DNM 750 II DNM 750L II DNM 750 II DNM 750L II



Basic Information

Basic Structure Cutting Performance

Detailed Information

Options Applications Diagrams Specifications

Customer Support Service



DNM 750 II

DNM 750 II DNM 750L II

Designed as a high productivity vertical machining center, the DNM 750 I , DNM 750L I is equipped with belt drive spindle, direct coupled spindle and high rigidity for high productivity. An oil cooler system is provided as a standard feature for long-term, continuous operation at high speed. The oil is cooled down in the cooler before circulating around the spindle head and ball screw nut to minimize thermal error and deliver high-precision cutting. The EOP functions for user-friendliness has improved the convenience of customers.

The largest cutting area of the machine is the best in its class

• The X axis travel distance has been extended to assist with the machining of large workpieces and the table size and allowable load have been increased.

High productivity machine for highly stable machining performance

 Spindle cooling system and ball screw cooling system are applied as standard so that there is no significant change in the machining results due to the surrounding environment.



Easy operation of CNC system

- Easy operation for user's convenient machine operation.
- The EOP functions improve userfriendliness for operators.



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Basic structure

Traver distance (X x Y x Z axis)

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The rigid column design is adopted for highly stable machining performance.

It is possible to machine large workpieces by extending the X axis stroke. DNM 750 II

1630 x 762 x 650 mm

(64.2 x 30.0 x 25.6 inch)

DNM 750L II





Rapid traverse rate (X / Y / Z axis)

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

DNM 750 II **30 / 30 / 24** m/min (1181.1 / 1181.1 / 944.9 ipm)

DNM 750L II 24 / 24 / 24 m/min (944.9 / 944.9 / 944.9 ipm)



Roller LM guideway life is longer about twice than Ball LM guideway.



The machine offers a wide range cutting capacity and can handle a variety of large workpieces.

Table Size (A x B)

DNM 750 II

1630 x 760 mm (64.2 x 29.9 inch)

DNM 750L II



Max. weight on Table

DNM 750 II

1500 kg (3306.9 lb)

DNM 750L II

1800 kg (3968.3 lb)



Direct-coupled type spindles have been adopted as a standard feature to further reduce vibration and noise while enhancing productivity, work environment and machining accuracy. Dual contact tool system support as standard for high rigidity.

Max. spindle speed





* Belt type ** Direct type

Direct

Tool change system

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1.3sec

Tool to Tool



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

Tool storage capacity

30 ea

ea option

Cutting Performance

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

Result of cutting test on DNM 750 I (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) (3.1 inch)
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 64.mm
1728 (105.4)	1500	4500 (177.2)	(0.2 inch) (3.1 inch)
U-Drill (ø40 mm (ø1.6 inch))	Carbon steel (SM45C)		
Chip removal rate (cm³/min(inch³/min))	Spindle speed (r/min)	Feedrate (mm/min (ipm))	
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.

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

Face mill (ø80 mm (ø3.1 inch)			
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) (3.1 inch)
U-Drill (ø55 mm (ø2.2 inch)) (
Chip removal rate (cm³/min(inch³/min))	Spindle speed (r/min)	Feedrate (mm/min (ipm))	Ø55mm (Ø2.2 nch)
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 satisfy customers' specific machining applications.

No.	Description	Features				DNM 750 I
1	-		8000 r/min	Belt	18.5/15 kW (24.8/20.1 Hp) (\$3.60%/Cont.)	
				Den	29/11 kW (27.5/14.8 Hp) (52.159/ (Cont.)	0
2		FANUC	12000 r/min	Direct	28/11 kw (37.5/14.8 Hp) (53 15%/Cofil.)	0
3			120001/1111	Direct	15.6/15.6 kW (20.9/20.9 Hp)	0
4	Spindle	 	8000 r/min	Belt	(53 40%/Cont.) 20/15 kW (26.8/20.1 Hp) (S6 60%/Cont.)	0
5		HEIDENHAIN	12000 r/min	Direct	20/15 kW (26.8/20.1 Hp) (S6 60%/Cont.)	0
6			8000 r/min	Belt	21.8/16.3 kW (29.2/21.9 Hp)	0
-7		SIEMENS	12000 */min	Direct	(S6 40%/Cont.)	-
8			8000 r/min	Belt	18.5/15 kW (24.8/20.1 Hp)	•
9		FANUC	12000 r/min	Direct	28/11 kW (37.5/14.8 Hp)	•
10	Spindle cooling		2000 r/min	Bolt	15.6/15.6 kW (20.9/20.9 Hp)	•
12	system	HEIDENHAIN	12000 r/min	Direct	20/15 kW (26.8/20.1 Hp)	•
13		SIEMENIS	8000 r/min	Belt	21.8/16.3 kW (29.2/21.9 Hp)	•
14		SIEMENS	12000 r/min	Direct	16.5/11 kW (22.1/14.8 Hp)	•
16	Magazine	Tool storage capacity		40 ea		0
18		BIG PLUS BT40		,		•
19	Tool shank type	BIG PLUS CAT40				0
20		BIG PLUS DIN40		0.15 Mpa. (0.4 kW (0.5 Hp)	•
22		FLOOD		0.7 MPa, 1.	8 kW (2.4 Hp)	0
23				None	W(2011-)	•
24	Coolant	TSC		2 MPa, 1.5	кw (2.0 пр) kW (5.4 Hp)	0
26	cootant			7 Mpa, 5.5	kW (7.4 Hp)	0
27		SHOWER		0.1 MPa, 1.	.1 kW (1.5 Hp)	0
28		MOI		Belt type		0
30		Chip pan				•
31				Hinged type	e (Left / Right / Rear)	0
32	Chip disposal	Chip conveyor		Magnetic s	craper type (Left / Right / Rear)	0
34		Chip bucket		Diaminiter		0
35	Precision	Smart Thermal Comper		•		
36	machining	Linear scale		S	0	
38	option	AICC II (200 block)		0		
39		Automatic tool measur	ement	TS27R		0
40	Measurement &	Automatic tool breakas	re detection	015		0
42	Automation	Automatic workpiece n		0		
43		Automatic front door w	ith safety device			0
44		WORK LIGHT	700	LED LAMP	•	
45		AIR BLOWER	KUL	- SENSURLES	55 TYPE(UNLY SPINDLE)	0
47		AUTO TOOL LENGTH		RENISHAW	/ TS27R	0
48		MEASUREMEMT		RENISHAW	/ OTS	0
4.0		AUTO TOOL		FAR-EAST N	ACHINE TOOL/FEM-1CP	0
49	Accessories	DETECTION	MAKER/SPEC.	(NEEDLE TYPE IN CUTTING AREA)		0
		AUTO WORKPIECE	-	DENIGUAN		
50		MEASUREMENT		RENISHAW	/ UMP60	0
51		4TH AXIS PREPARATION		FACTORY RE	FACTORY READY MADE	
52		AIR GUN	IIC PIPING	-		0
53		Coolant gun				0
54		Mist collector				0
55 56				- SIDE CLAM	R & CHEMICAL ANCHUK BULI	0
57		TSA ⁽³⁾		0.54		0
58				150mm		0
60		MAISING BLUCK		200mm		0
61				HINGED PL/	ATE TYPE LEFT SIDE	0
62				MAGNETIC	SCRAPER TYPE RIGHT SIDE	0
64		CHIP CONVEYOR		DRUM CHIP	CONVEYOR WITH HINGED PLATE	0
65	Customized			DRUM CHIP	CONVEYOR WITH SCRAPER	0
66	Special Option	20 BAR TSC with INVER	TER	OUTLET DIR	RECTION - REAR SIDE TYPE	0
68		MAGAZINE TOOL STOR	AGE CAPACITY	60T(CHAIN	ATC)	0
69		SERVO MAGAZINE		30T		0
70				40T	E(115K < 23V)	0
72		AEROSPACE PACKAGE		IMPROVED		0
73		SPINDLE HEAD TYPE		11/18.5(S3	3 15%), 15,000 rpm, DIRECT TYPE	0
74		AUTO TOOL LENGTH ME	EASUREMEMT	LTS	· · ·	0
75		AUTO TOOL BREAKAGE	DETECTION	MSC/BK9(N	NEEDLE TYPE ON MAGAZINE)	0
10		LAGIO DOUR WITH SAFE	LVGC	1.7		

● Standard ○ Optional X N/A

* Please contact Doosan to select detail specifications.
 (1) Please refer to foundation drawing in relation to anchoring. If more detail information want, consult with doosan 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 collar temperatures. (3) In case of TSC is not required and only TSA is needed, this option can be selected.

Basic Information

Basic Structure

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Cutting

Detailed

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Peripheral equipments

Spindle and Ball screw nut cooling system

Cooling system to minimize thermal displacement Thermal displacement of the spindle and axes is achieved by circulating cooling oil via an oil cooler to the spindle head and ball screw nuts.



Measurement & Automation Option 46~49



Automatic tool measurement



Automatic workpiece measurement

4th axis auxiliary device interface **Option 53**

Users who wish to set up a rotary axis on the table to increase application flexibility are encouraged to contact Doosan in advance.



Chip conveyor option 34~36

Short Long





- A
Needle

Sludge

Material		Carbon steel		Cast iron		Aluminium			
Chip conveyo	or type	Long	Short	Needle	Short	Sludge	Long	Short	Needle
Hinged belt type		0	\triangle	Х		Х	0		Х
Scrapper type	Normal	Х	0		0	\bigtriangleup	Х		Х
	Magnetic	Х	0	0	0	0	—	—	—
Drum filter type	Hinged type	0	\bigtriangleup	Х	\bigtriangleup	Х	0	\bigtriangleup	Х
	Scrapper	Х	0	\bigtriangleup	0	\bigtriangleup	Х	0	\bigtriangleup

 \circ : Suitable, \triangle : Possible, X : Not suitable

Raised block option 21~23

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



150 mm (5.9 inch) 200 mm (7.9 inch) 300 mm (11.8 inch)



Hydraulic / Pneumatic fixture line option

The user should prepare pipelines for hydraulic/pneumatic fixtures whose detailed specifications should be determined by discussion with Doosan.





DOOSAN Fanuc i Plus

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

15 inch screen + New OP

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.



• iHMI provides an intuitive interface that utilizes a touch screen for quick and easy operation

Variety of applications

• Providing various applications related to PLANNING, MACHINING, IMPROVEMENT, and UTILITY for customer convenience.

Easy Operation Package

The software developed by Doosan's own technology provides numerous functions designed for convenient operation.



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 Load Monitor

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



Work Offset Setting

Function to configure various work offset settings

Sensor Status Monitor

Function to view sensor conditions of the machine









Tool Management

Function to manage tool information [Tool information]

Tool No. / Tool name

- Tool condition : normal, large diameter, worn/damaged, used for the first time, anual

Pattern Cycle & Engraving

Function to create frequently-used cutting programs automatically

Alarm Guidance

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

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)

Basic Information

Spindle Power - Torque Diagram

FANUC





DNM 750 II DNM 750L II

HEIDENHAIN



SIEMENS



Basic Information

External Dimensions / Table

External Dimensions



			conveyor)	conveyor)	conveyor)			
	2986 (117.6)	4309 (169.6)	Left & Right :	790 (31.1)	3390 (133.5)	4000 (157.5)	3170 / 3251	
			953 (37.5)				(124.8 / 128.0)	
	2986 (117.6)	200((117())) (200(1((200 (1(0 ()	Left & Right :	700 (21.1)	2200 (122 5)		3170 / 3251
DINIM 750L II		2986 (117.6) 4309 (169.6)	953 (37.5)	790 (31.1)	3390 (133.5)	5050 (198.8)	(124.8 / 128.0)	

* Some peripheral equipment can be placed in other places

Table

* 8k spindle / 12k spindle

805 (31.7)

805 (31.7)

Unit: mm (inch)

4 (0.6)



Machine Specifications



Description			Unit	DNM 750 I	DNM 750L I			
Travels		X axis		mm (inch)	1630 (64.2)	2160 (85.0)		
	Travel	Y axis		mm (inch)	762 (30.0)		
	uistance	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 29.9)		
	Table loading ca	pacity		kg (lb)	1500 (3306.9)	1800 (3968.3)		
	Table surface ty	ре		mm (inch)	T-SLOT [5-125 (4	.9) x 18 (0.7)H8]		
Spindle				r/min	80	00		
		FANILIC	Direct	r/min	{120	00}*		
		FAINUC		r/min	{120	00}*		
	Max. spindle		Built in	r/min	{300	00}*		
	speed		Belt	r/min	80	00		
		HLIDLINHAIN	Direct	r/min	{120	00}*		
		SIEMENIS	Belt	r/min	80	00		
		SILIVILING	Direct	r/min	{120	00}*		
	Taper			-	ISO	#40		
				kW (Hp)	18.5/15 (2	4.8/20.1)		
		FANUC	Direct	kW (Hp)	{28/11 (37	.5/14.8)}*		
				kW (Hp)	{15.6/15.6 (2	20.9/20.9)}*		
	Spindle power	HEIDENHAIN	Belt	kW (Hp)	32/15 (42	2.9/20.1)		
			Direct	kW (Hp)	{32/15 (42	.9/20.1)}*		
		SIEMENIS	Belt	kW (Hp)	21.8/16.3 (29.2/21.9)		
		SIEMENS	Direct	kW (Hp)	{16.5/11 (2	2.1/14.8)}*		
				N∙m (ft-lbs)	118 (87.1)			
	Max. spindle torque	FANUC	Direct	N∙m (ft-lbs)	{159.1 (117.4)}*			
				N·m (ft-lbs) {165.5 (122.1)}*		122.1)}*		
		HEIDENHAIN	Belt	N∙m (ft-lbs)	203.7 (150.3)			
			Direct	N∙m (ft-lbs)	{203.7 (150.3)}*			
		SIEMENS	Belt	N∙m (ft-lbs)	150.1 (110.8)			
			Direct	N∙m (ft-lbs)	{141.3 (104.3)}*		
Feedrates	Danid	X axis		m/min (ipm)	30 (1181.1)	24 (944.9)		
	traverse rate	Y axis		m/min (ipm)	30 (1181.1)	24 (944.9)		
		Z axis		m/min (ipm)	24 (944.9)	24 (944.9)		
Automatic	Type of	Tool shank		-	BT 40 {CAT40/DIN40}*			
lool Changer	tool shank	Pull stud		-	PS806			
enunger	Tool storage cap	ba.		ea	30 {40}*			
	Max	Continous		mm (inch)	80 (3.1) {	76 (3.0)}*		
	tool diameter	Without Adjacent Tool	S	mm (inch)	125	(4.9)		
	Max. tool length			mm (inch)	300 (11.8)		
	Max. tool weigh	t		kg (lb)	8 (1	7.6)		
	Max. tool mome	nt		N∙m (ft-lbs)	5.88	(4.3)		
	Tool seletion			-	MEMORY	RANDOM		
	Tool change	Tool-to-tool	-	sec	1.3	1.6		
	time	Chip-to-chip		sec	3.7 4.0			
Power	Electric power s	upply (Rated cap	pacity)	kVA	42.6 / 37	.5 / 43.3		
source	Compressed air	supply		Мра	0.	54		
Tank capacity	Coolant tank ca	pacity		L (gal)	520 (137.4)	590 (155.9)		
Machine	Height			mm (inch)	3170 (124.8)		
Dimensions	Length			mm (inch)	3480 (137.0)		
	Width			mm (inch)	3850 (151.6)	4900 (192.9)		
	Weight			kg (lb)	13500 (531.5)	15000 (590.6)		
Control	CNC system			-	DOOSAN Fanuc i P	lus {Fanuc 32i}* /		
	CIVE System				SIEMENS S828D / H	SIEMENS S828D / HEIDENHAIN TNC620		

*{ }: Option

Basic Information

CNC Specifications

FANUC

• Standard O Optional X Not applicable

Basic Structure Cutting Performance

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Customer Support

Service

No.	Division	Item	Spec.	DOOSAN Fanuc i Plus	Fanuc 32i
1		Controlled axes	3 (X, Y, Z)	X, Y, Z	X, Y, Z
2		Least command increment	0.001 mm / 0.0001"	•	•
3	Axes	Least input increment	0.001 mm / 0.0001"	•	٠
4	control	Stored pitch error compensation	Pitch error offset compensation for each axis	Х	٠
5		Interpolation type pitch error compensation		•	0
6		2nd reference point return	G30	•	٠
7		3rd / 4th reference return		•	0
8		Inverse time feed		•	0
9	-	Cylinderical interpolation	G07.1	•	0
10	-	Automatic corner override	G62	•	<u> </u>
11	-	Manual handle feed	Max. Junit	1 unit	1 unit
12	Interpolation	Manual handle retrace	x1, x10, x100 (per puise)	•	•
14	& Feed	Handle interruntion		0	
15	function	AICC II	200 BLOCK	•	0
16		Fine Surface Machining	Look-ahead block no. is Max. 200 - Al contour control II+ - Smooth tolerance control+ - Jerk control - Machining quality level adjustment function	•	Х
17	Spindle &	M- code function		•	•
18	M-code	Retraction for rigid tapping		•	•
19	function	Rigid tapping	G84, G74	•	•
20		Number of tool offsets	400 ea	400ea	0
21	-	Tool nose radius compensation	G40, G41, G42	•	•
	Tool	Tool length compensation	G43, G44, G49	•	•
23	function	lool life management		•	•
24		Addition of tool pairs for tool life		•	0
25	-	Tool offset	645 - 648	•	0
26		Custom macro		•	•
27		Macro executor		•	•
28		Macro executor + C language executor		•	Х
29		Fanuc picture executor		•	Х
30		Extended part program editing		•	•
31	Programming	Part program storage	512KB(1280m)	Х	0
32	Programming	Part program storage	2MB(5120m)	5120m	0
33	& Editing	Inch/metric conversion	G20 / G21	•	•
22	function		9 BLUCK	•	0
33		Playback function	MOI		•
34	-	Number of Registered programs	1000 ea	1000ea	0
35	-	Tilted working plane indexing command	G68.2	0	0
36		Tilted working plane indexing function	Programming TWP command on guidance window	0	0
37		Embeded Ethernet		•	•
38		Graphic display	Tool path drawing	•	٠
39		Loadmeter display		•	•
40			15" color LCD	•	•
41		MDI / DISPLAY unit	15" color LCD with Touch Panel	0	Х
42	-	Cs contouring control		0	X
43	-	Memory card interface		•	•
44		USB memory interface	Only Data Read & Write	•	٠
45		Operation history display		•	٠
46	_	DNC operation with memory card		•	•
47	Other	Optional angle chamfering / corner R		•	•
48	Functions	Run hour and part number display		•	•
49	(Operation,	High speed skip function	C15 / C17	0	0
50	setting &	Programmable mirror image	G50 1 / G51 1	•	0
4.5	Display, etc)	Scaling	650 651	•	0
45		Single direction positioning	G60	•	0
46	1	Pattern data input		•	0
47	1	Machine alarm diagnosis		•	X
48]	CNC screen display		•	•
49]	CNC screen dual display function		•	•
50		One touch macro call	G15 / G16	•	0
51		Machining quality level adjustment	G50.1 / G51.1	•	0
52		EZ Guide i (Conversational Programming Solution)	G50, G51	• ¹⁾	0
53	1	iHMI with Machining Cycle	G60	O ²⁾	Х
54	1	MANUAL GUIDE i		Х	0

SIEMENS

No.	Division	Item	Spec.	S828D
1		Controlled axes	3 axes	X, Y, Z
2	Controllad	Additional controlled axes	Max. 5 axes in total	0
3	axis	Least command increment	0.001mm (0.0001 inch)	•
4		Least input increment	0.001mm (0.0001 inch)	•
5		Travel to fixed stop with Force Control		0
6		Reference point return	G75 FP=1	•
/		2nd reference point return	G75 FP = 2	•
8		3rd / 4th reference return	G75 FP=3, 4	•
9		Helical interpolation	095	•
11		Polynomial interpolation		Ν/Δ
12	Internolation &	Spline interpolation (A. B and C splines)		0
13	Feed Function	Separate path feed for corners and chamfers		•
14		Acceleration with Jerklimitation		•
15		Compressor for 3-axis machining		•
16		Temperature compensation		•
17		Look ahead number of block	150 BLOCK	٠
18		Cartesian point-to-point (PTP) travel		•
19		TRANSMIT/cylinder surface transformation		0
20	Spindle	Tapping with compensating chuck/rigid tapping		•
21	Function	Retraction for rigid tapping		•
22		Iool radius compensations in plane	254/542	•
23		Number of tools/cutting edges in tool list	256/512	• •
24		Testleneth componentian	600/1500	N/A
25		Operation with tool management		
20	Tool Function			•
28		Replacement tools for tool management		0
29		Monitoring of tool life and workpiece count		•
30		Manual measurement of tool offset		•
31		Magazine list		•
32		Number of levels for skip blocks 1		•
33		Number of levels for skip blocks 8		0
34			On additional plug-in CF card	•
35		Program/workpiece management	On integral Hard disk PCU50.3	N/A
36			On USB storage medium (e.g. disk drive, USB stick)	•
37			On network drive	0
38			Programming support for cycles program (Program Guide)	•
39	Drogramming	Program editor	CNC editor with editing functions: Marking, copying, deleting	•
40	& Editing		(contour calculator)	•
41	runction	Technology sycles for drilling/milling	Stiopivilit Machining Step programming	•
42		Pocket milling free contour and islands stock		•
43		removal cycle		•
44 45		Access protection for cycles		•
т Ј		Programming support can be extended a g		-
46		customer cycles		•
47		2D simulation		•
48		3D simulation, finished part		٠
49		Switchover: inch/metric		•
50		Manual measurement of zero/work offset		•
51		Automatic tool/workpiece measurement		•
52		Reference point approach, automatic/via CNC program		•
53	FUNCTIONS	Execution from USB or CF card interface on		•
54	(Operation,	Execution from network drive		0
55	setting &	10.4" color display		•
56	Display, etc)	15.0" color display		N/A
57		Alarms and messages		•
58		Remote Control System (PCC) romote diagnostics	RCS Host remote diagnostics function	0
59			RCS Commander (viewer function)	•
60		Automatic measuring cycles		0

CNC Specifications

Basic Information	
Basic Structure	ΠΕΙΔΕΝΠΑΙΝ
Cutting	
Performance	
Detailed	
Information	
Options	
Applications	
Diagrams	
Specifications	

Customer Support Service

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1 Automation of the set	No.	Division	Item	Spec.	TNC 620
1 Additional Addite Addite Addite Additional Addite Additional Additional Addit	1		Controlled axes	3 axes	X, Y, Z
1 Ansignation Least input increment 0.0001 mit (0.0001 ind), 0.0001 4 5 Least input increment 0.0001 mit (0.0001 ind), 0.0001 6 6 Mol / DSPL/Y unit 51. Ind. TT color flat panel 6 7 Remembry for NC programs SDR 868 7 Remembry for NC programs Max 1024 blocks. 861 7 Reference (SDR 20) Mol Reference (SDR 20) 860 7 Reference (SDR 20) Reference (SDR 20) 860 7 To Compensation for Normanne stand collength Reference (SDR 20) 860 7 To Compensation for Normanne stand stand reference (SDR 20) 960 960 7 To Compensation for Normanne stand stand reference (SDR 20) 960 960 7 To Compensation for Normanne stand stand reference (SDR 20)	2		Additional Controlled axes	Max. 18 axes in total	O (Max. 6axes)
<table-container><table-container><table-container><table-container><table-container><table-container><table-container><table-container><table-container><table-container><table-container><table-container><table-container><table-container><table-container><table-container><table-container><table-container><table-container><table-container><table-container><table-container><table-container><table-container><table-container><table-container><table-container><table-container><table-container><table-container><table-container><table-container><table-container><table-container></table-container></table-container></table-container></table-container></table-container></table-container></table-container></table-container></table-container></table-container></table-container></table-container></table-container></table-container></table-container></table-container></table-container></table-container></table-container></table-container></table-container></table-container></table-container></table-container></table-container></table-container></table-container></table-container></table-container></table-container></table-container></table-container></table-container></table-container>	3	Axes	Least command increment	0.0001 mm (0.0001 inch), 0.0001°	•
NoNotifier NameNotifier Name <td>4</td> <td></td> <td>Least input increment</td> <td>0.0001 mm (0.0001 inch), 0.0001°</td> <td>•</td>	4		Least input increment	0.0001 mm (0.0001 inch), 0.0001°	•
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Anchine path speed ahead of time) Max. 5000 blocks. 9 Incritions HSC filters Inclusion N/A Image: Second S	9		Look-ahead (Intelligent path control by calculating the	Max. 1024 blocks.	N/A
Inclusion HSC filters Inclusion Mathematical Witching the traverse ranges In the working plane and tool length Interpretation Interpretation Interpretation Interpretation Interpretation Interpretation Interpretation Interpretation Interpretation Interpretation Interpretation Interpretation Interpretation Interpretation Interpretation Interpretation Interpretation Interpretation Interpretation Interpretation Interpretation Interpretation Interpretation Interpretation Interpretation Interpretation Interpretation Interpretation Interpretation Interpretation Interpretation Interpretation Interpretation Interpretation Interpretation Interpretation Interpretation Interpretation Interpretation Interpretation Interpretation Interpretation Interpretation Interpretation Interpretation Interpretation Interpretation Interpretation Interpretation Interpretation	10	Machine	path speed ahead of time)	Max. 5000 blocks.	•
12which is the traverse rangesin the working plane and tool length%A131414151616171819101011111213141415151616171819101010111112131414151516171819101011111112121415151616171819191010111111121414151616171617181819191919191910101011111111121213141415161617181919<	11	functions	HSC filters		•
11 Interversion of the second s	12		Switching the traverse ranges		N/A
14 Image: Provide and States of Control Position Of Control Positi	13			In the working plane and tool length	•
15 Inter-dimensional tool radius compensation 0 16 Inter-dimensional tool radius compensation 0 17 Iol table Central storage of tool data 0 18 Multiple tool tables with any number of tool 0 18 Multiple tool tables with any number of tool 0 19 Multiple tool tables with any number of tool 0 10 Tilting the working plane with Cycle 19 Intervention of program run 0 11 Munual traverse in tool-axis direction after interruption of program run 0 120 Manual traverse in tool-axis direction after interruption of program run 0 121 Function TCPM Programming of cylindrical contours as if in two axes 0 122 New 3-D simulation graphics in full detai Mu view in three planes, 3-D view 0 123 New 3-D simulation graphics in full detai Intervet wiew in three planes, 3-D view 0 124 Porgram verification graphics Plan view, view in three planes, 3-D view 0 125 Context-sensitive help for error message 0 0 126 Tity guide Browser-based, context-sensitive helpsystem 0 127 Calculator Cultal 0 128 Yee 4 Cultal <td>14</td> <td></td> <td>Tool compensation</td> <td>Radius-compensated contour lookahead for up to 99 blocks (M120)</td> <td>0</td>	14		Tool compensation	Radius-compensated contour lookahead for up to 99 blocks (M120)	0
16 Central storage of tool data ••• 17 Not table Central storage of tool data ••• 18 Multiple tool tables with any number of tools •• 19 Itiling the working plane with Cycle 19 Income •• 10 Itiling the working plane with the PLANE Income •• 11 function after interruption of program run •• 12 Manual traverse in tool-axis direction after interruption of program run •• 13 Function TCPM Programming of cylindrical contours as if in tool wases •• 14 Function TCPM Programming of cylindrical contours as if in tool wases •• 14 Function TCPM Programming of cylindrical contours as if in tool wases •• 15 Fued are in distance per minute •• •• 16 New 3-D simulation graphics in full detai •• •• 17 Pogram verification graphics Pal neisewise with whee planes, 3-D view •• 18 Fundaced file management Interventions •• 10 Context-sensitive help for error message Interventions •• 11 Toguide Browser-based, context-sensitive helpsystem •• 12 Save As" function Cycle 3	15			Three-dimensional tool radius compensation	0
17 Nultiple col tables with any number of cold 18 Multiple col tables with any number of cold N/A 18 MD mode Infinitip the working plane with Cycle 19 Infinitip the working plane with the PLANE 10 Itiling the working plane with the PLANE after interruption of program run 0 12 Manual traverse in tool-axis direction after interruption of program run 0 12 Manual traverse in tool-axis direction after interruption of program run 0 12 Function TCPM Programming of cylindrical contours as if in position of tool tip when position of tool tip when position of cylindrical contours as if in two axes 0 12 Function TCPM Programming of cylindrical contours as if in two axes 0 13 Fed rate in distance per minute 0 14 Program verification graphics in full detait 1 0 15 Forderate in distance per minute 0 0 16 Induator graphics in full detait 1 0 17 Forgram verification graphics Interverse 0 18 Forgram verification graphics 0 0 19 Toguide Browser-based, context-sensitive helpsystem 0 19 Save As"function Cycle 3 0	16			Central storage of tool data	•
18 N/A 19 Itiling the working plane with Cycle 19 0 20 Itiling the working plane with Cycle 19 0 21 Itiling the working plane with Cycle 19 0 21 Itiling the working plane with the PLANE Iter Interruption of program run 0 22 Wanual traverse in tool-axis direction after Interruption of program run 0 23 Function TCPM Retaining the position of tool tip when positioning tilting axes 0 24 New 3-D simulation graphics in full detail No 0 25 New 3-D simulation graphics in full detail Program werification graphics 0 26 New 3-D simulation graphics in full detail 0 0 27 Program werification graphics Plan view, view in three planes, 3-D view 0 28 Context-sensitive help for error message 0 0 29 Context-sensitive help for error message 0 0 30 Ticliquide Browser-based, context-sensitive helpsystem 0 31 Save As' function 0 0 32 Fixed cycles Fecking Cycle 3 0 33 Cycle 3 Cycle 3 0 0 34 Fixed cycles Focket mil	17			Multiple tool tables with any number of tools	•
19 10 20 Initing the working plane with Cycle 19 0 21 Initing the working plane with the PLANE 0 21 Manual traverse in tool-axis direction after interruption of program run 0 23 Function TCPM Retaining the position of tool tip when position of tool tip when positioning tilting axes 0 24 Function TCPM Programming of cylindrical contours as if in two axes 0 24 New 3-D simulation graphics in full detail New 3-D simulation graphics in full detail 0 26 New 3-D simulation graphics in full detail New 3-D simulation graphics 0 27 Program verification graphics Plan view, view in three planes, 3-D view 0 28 Program verification graphics 0 0 29 Context-sensitive help for error messages 0 0 30 TNCguide Browser-based, context-sensitive helpsystem 0 31 Save As" function 0 0 32 Save As " function 0 0 33 Pecking Cycle 1 0 34 Save As" function 0 0 35 Pocket milling Cycle 3 0 36 Fixed cycles Pocket milling 0	18		MDI mode		N/A
20 Initial game with the PLANE function o 21 Manual traverse in tool-axis direction after interruption of program run • 22 Function TCPM Retaining the position of tool tip when positioning tilting axes o 23 Programming of cylindrical contours as if in two axes o 24 Program run • 25 Programming of cylindrical contours as if in two axes o 26 Program verification graphics in full detail • 27 Program verification graphics in full detail • 28 Program verification graphics Plan view, view in three planes, 3-D view • 29 Ontext-sensitive help for error messages • • 30 TNCguide Browser-based, context-sensitive helpsystem • 31 * Save As" function • • 32 * Save As" function • • 33 Program verification Cycle 1 • • 34 Stot milling Cycle 2 • • 35 Feed cycles Pecking • • 36 Cycle 4 • • • 37 Stot milling Cycle 5 • • <t< td=""><td>19</td><td></td><td>Tilting the working plane with Cycle 19</td><td></td><td>0</td></t<>	19		Tilting the working plane with Cycle 19		0
21 Manual traverse in tool-axis direction after interruption of program run • 22 Functions Function TCPM Retaining the position of tool tip when positioning tilting axes o 23 New 3-D simulation graphics in full detail Programming of cylindrical contours as if in two axes o 24 New 3-D simulation graphics in full detail Feed rate in distance per minute O 26 New 3-D simulation graphics in full detail Feed rate in distance per minute O 27 Program verification graphics Plan view, view in three planes, 3-D view I 28 Program verification graphics I I 29 Fordarced file management I I 20 INCguide Browser-based, context-sensitive helpsystem I 30 'Save As' function I I 31 'Save As' function I I 32 Pecking Cycle 1 I 33 Fixed cycles Pecking Cycle 3 I 34 Fixed cycles Pocket milling Cycle 4 I 35 Fixed cycles Pocket milling Cycle 5 I 36 Datum shift Cycle 7 I I	20		Tilting the working plane with the PLANE function		0
22 user functions Function TCPM Retaining the position of tool tip when positioning tilting axes 0 23 Auge functions Function TCPM Pogramming of cylindrical contours as if in two axes 0 24 Auge function graphics in full detail Feed rate in distance per minute 0 25 New 3-D simulation graphics in full detail Plan view, view in three planes, 3-D view 0 26 Program verification graphics Plan view, view in three planes, 3-D view 0 27 Program verification graphics Plan view, view in three planes, 3-D view 0 28 Program verification graphics Plan view, view in three planes, 3-D view 0 29 Program verification graphics Plan view, view in three planes, 3-D view 0 20 Through context-sensitive help for error message Intervery context-sensitive help setset 0 30 Yeige function Senser-based, context-sensitive help setset 0 0 31 Yeige function Cycle 1 Intervery function 0 32 Fixed cycles Focking function Cycle 3 0 <	21		Manual traverse in tool-axis direction	after interruption of program run	•
23 Retary table machining Programming of cylindrical contours as if in two axes 0 24 Feed rate in distance per minute 0 25 New 3-D simulation graphics in full detail Feed rate in distance per minute 0 26 New 3-D simulation graphics in full detail Porgram verification graphics 1 0 27 Program verification graphics Plan view, view in three planes, 3-D view 0 28 Porgram verification graphics Image: plan view, view in three planes, 3-D view 0 29 Ontext-sensitive help for error messages Image: plan view, view in three planes, 3-D view 0 30 Context-sensitive help for error messages Image: plan view, view in three planes, 3-D view 0 31 TorQuide Browser-based, context-sensitive helpsystem 0 32 TorQuide Image: plan view 0 0 33 Pecking Cycle 1 0 0 34 Fixed cycles Poket milling Cycle 3 0 0 35 Fixed cycles Poket milling Cycle 4 0 <	22	User functions	Function TCPM	Retaining the position of tool tip when positioning tilting axes	0
24 Feed rate in distance per minute O 25 New 3-D simulation graphics in full detail Feed rate in distance per minute O 26 New 3-D simulation graphics in full detail Plan view, view in three planes, 3-D view O 27 Program verification graphics Plan view, view in three planes, 3-D view O 28 Program verification graphics So O O 29 Enhanced file management Image: Context-sensitive help for error messages Image: Context-sensitive helpsystem O 30 Context-sensitive help for error messages Image: Context-sensitive helpsystem O 31 Context-sensitive help for error messages Image: Context-sensitive helpsystem O 32 TixGuide Browser-based, context-sensitive helpsystem O 33 Fecking Cycle 1 O O 34 Fecking Cycle 2 O O 35 Fexed cycles Pocket milling Cycle 4 O 36 Fixed cycles Pocket milling Cycle 5 O 37	23		Rotary table machining	Programming of cylindrical contours as if in two axes	0
25 New 3-D simulation graphics in full detail Image: Imag	24			Feed rate in distance per minute	0
26 Program verification graphics Plan view, view in three planes, 3-D view 9 27 3-D line graphics 3-D line graphics 4 28 Enhanced file management Image and the second sec	25		New 3-D simulation graphics in full detail		•
27Program verification graphics3-D line graphics•28Enhanced file management••29Context-sensitive help for error messagesForwer-based, context-sensitive helpsystem•30TNCguideBrowser-based, context-sensitive helpsystem•31Calculator••32"Save As" function••33PeckingCycle 1•34TappingCycle 2•35Slot millingCycle 3•36Pocket millingCycle 4•37Orcel at millingCycle 5•38Datum shiftCycle 8••	26			Plan view, view in three planes, 3-D view	•
28Enhanced file managementImagementImagementImagement29Context-sensitive help for error messagesForwser-based, context-sensitive helpsystemImagement30TNCguideBrowser-based, context-sensitive helpsystemImagement31CalculatorImagementImagement32"Save As" functionImagementImagement33PeckingCycle 1Imagement34TappingCycle 2Imagement35Slot millingCycle 3Imagement36Pocket millingCycle 4Imagement37Circular pocketCycle 5Imagement38Mirror imagingCycle 8Imagement	27		Program verification graphics	3-D line graphics	•
29Context-sensitive help for error messagesImage: Context-sensitive help systemImage: Context-sensitive help syst	28		Enhanced file management		•
30 TNCguide Browser-based, context-sensitive helpsystem • 31 Calculator • • 32 "Save As" function • • 33 Pecking Cycle 1 • 34 Tapping Cycle 2 • 35 Slot milling Cycle 3 • 36 Pocket milling Cycle 4 • 37 Circular pocket Cycle 5 • 38 Mirror imaging Cycle 8 •	29		Context-sensitive help for error messages		•
31 Calculator Image: margina structure 32 "Save As" function Image: margina structure 33 Image: margina structure Pecking Cycle 1 34 Pecking Cycle 2 Image: margina structure 35 Tapping Cycle 3 Image: margina structure 36 Fixed cycles Pocket milling Cycle 4 Image: margina structure 37 Pocket milling Cycle 5 Image: margina structure 38 Image: margina structure Cycle 7 Image: margina structure 39 Mirror imaging Cycle 8 Image: margina structure	30		TNCguide	Browser-based, context-sensitive helpsystem	•
32"Save As" function•33*Save As" function•34PeckingCycle 1•35TappingCycle 2•36Slot millingCycle 3•37Pocket millingCycle 4•38Datum shiftCycle 7•39Mirror imagingCycle 8•	31		Calculator		•
33 A 34 Fixed cycles 35 Fixed cycles 36 Fixed cycles 37 Fixed cycles 38 Cycle 1 39 Cycle 2 39 Cycle 3 39 Cycle 4 39 Cycle 7 39 Cycle 8	32		"Save As" function		•
34 35 35 Slot milling 36 Fixed cycles 37 Pocket milling 38 Cycle 3 39 Mirror imaging Tapping Cycle 2 34 Ocycle 3	33		Pecking	Cycle 1	•
35 Slot milling Cycle 3 • 36 Pocket milling Cycle 4 • 37 Circular pocket Cycle 5 • 38 Datum shift Cycle 7 • 39 Mirror imaging Cycle 8 •	34		Tapping	Cycle 2	•
36 Fixed cycles Pocket milling Cycle 4 • 37 Circular pocket Cycle 5 • 38 Datum shift Cycle 7 • 39 Mirror imaging Cycle 8 •	35		Slot milling	Cycle 3	•
37 Circular pocket Cycle 5 38 Datum shift Cycle 7 39 Mirror imaging Cycle 8	36	Fixed cycles	Pocket milling	Cycle 4	•
38 Datum shift Cycle 7 • 39 Mirror imaging Cycle 8 •	37		Circular pocket	Cycle 5	•
39 Mirror imaging Cycle 8	38		Datum shift	Cycle 7	•
	39		Mirror imaging	Cycle 8	•

• Standard O Optional X Not applicable

• Standard O Optional X Not applicable

No.	Division	Item	Spec.	TNC 620
40		Dwell time	Cycle 9	•
41		Rotation	Cycle 10	•
42		Scaling factor	Cycle 11	•
43		Program call	Cycle 12	•
44		Oriented spindle stop	Cycle 13	•
45		Rigid tapping (controlled spindle)	Cycle 17	•
46		Working plane	Cycle 19	0
47		Cylinder surface	Cycle 27	0
48		Cylinder surface slot milling	Cycle 28	0
49		Cylinder surface ridge milling	Cycle 29	0
50		Tolerance (HSC mode, TA)	Cycle 32	0
51		Rigid tapping, new	Cycle 207	•
52		Tapping with chip breaking	Cycle 209	•
53		Polar pattern	Cycle 220	•
54		Cartesian pattern	Cycle 221	•
55		Engraving	Cycle 225	•
56	Fixed cycles	Multipass milling	Cycle 230	•
57	ince cycles	Face milling	Cycle 233 Eenhanced with side walls, milling direction and strategy	•
58		Centering	Cycle 240	•
59		Single-lip deep-hole drilling	Cycle 241	•
60		Datum setting	Cycle 247	•
61		Rectangular pocket, complete	Cycle 251	•
62		Circular pocket, complete	Cycle 252	•
63		Slot, complete	Cycle 253	•
64		Circular slot, complete	Cycle 254	•
65		Rectangular stud, complete	Cycle 256	•
66		Circular stud, complete	Cycle 257	•
67		Thread milling	Cycle 262	•
68		Thread milling/countersinking	Cycle 263	•
69		Thread drilling/milling	Cycle 264	•
70		Helical thread drilling/milling	Cycle 265	•
71		Outside thread milling	Cycle 267	•
72		Trochoidal milling	Cycle 275	•
73		Calibrating the effective radius on a circular stud		•
74	louch probe cycles	Calibrating the effective radius on a sphere		•
75		Save kinematics		0
76		Measure kinematics		0
77	Cycles for automatic	Preset compensation		0
78	workpiece inspection	TS calibration of length		0
79		TS calibration in a ring		0
80		TS calibration on stud		0
81	Options	Software option 1	Rotary table machining, Coordinate transformation, Interpolation	0
82		Software option 2	3-D machining, Interpolation	0

Basic Structure Cutting

Detailed Information

Options Applications Diagrams Specifications

Responding to Customers Anytime, Anywhere

Doosan Machine Tools' Global Network, Responding to Customer's Needs nearby, Anytime, Anywhere

Doosan machine tools provides a system-based professional support service before and after the machine tool sale by responding quickly and efficiently to customers' demands. By supplying spare parts, product training, field service and technical support, we can provide top class support to our customers around the world.



Global Sales and Service Support Network

Corporations	Dealer Networks	Technical Centers Technical Center: Sales Support, Service Support, Parts Support	Service Post	Factories
4	167	51	200	3

Doosan Machine Tools Customer Support Service

We help customers to achieve success by providing a variety of professional services from pre-sales consultancy to post-sales support.



Supplying Parts

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



Field Services

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



Technical Support

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



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

DNM 750 ${\rm I\hspace{-0.5mm}I}$, DNM 750L ${\rm I\hspace{-0.5mm}I}$



Description	Unit	DNM 750 II	DNM 750L II
Max. spindle speed	r/min	8000 {12000 / 30000}*	
Max. spindle power	kW (Hp)	18.5 (24.8) {28 (37.5)}* {15.6 (20.9)}*	
Max. spindle torque	N∙m (ft-lbs)	118 (87.1) (S3 60%) {159.1 (117.4) (S3 15%)}* {165.5 (122.1) (S3 40%)}*	
Taper	-	ISO #40	
Travel distance (X / Y / Z)	mm (inch)	1630 / 762 / 650 (64.2 / 30.0 / 25.6)	2160 / 762 / 650 (85.0 / 30.0 /25.6)
Tool storage capa.	ea	30 {40}*	
Table size	mm (inch)	1630 x 760 (64.2 x 30.0)	2160 x 760 (85.0 x 30.0)

*{ } Optional

Doosan Machine Tools

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 \ast For more details, please contact Doosan Machine Tools.

* The specifications and information above-mentioned may be changed without prior notice.

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