

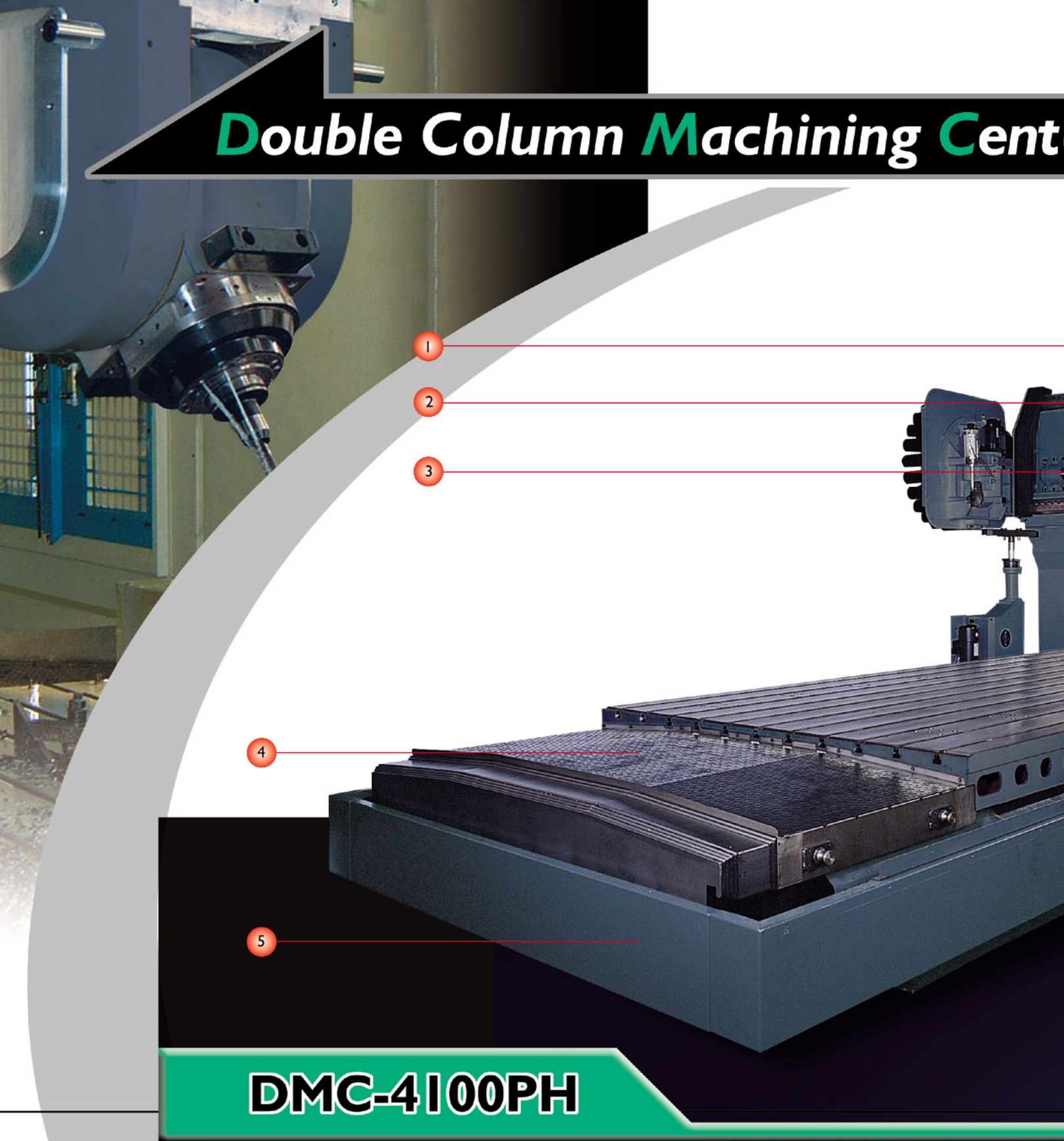


Double Column Machining Centers

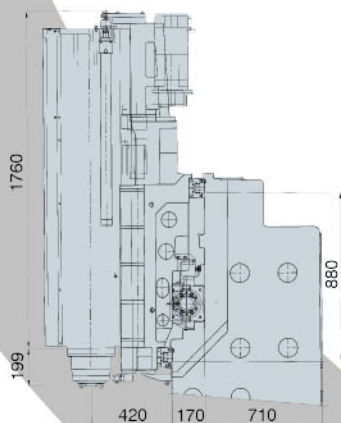


DMC-2100S/2600S/3100S/4100S/3100P/4100P
DMC-2100SH/2600SH/3100SH/4100SH/3100PH/4100PH
S Series / P Series: 3~5 Axis Machining Centers

Double Column **M**achining **C**ent



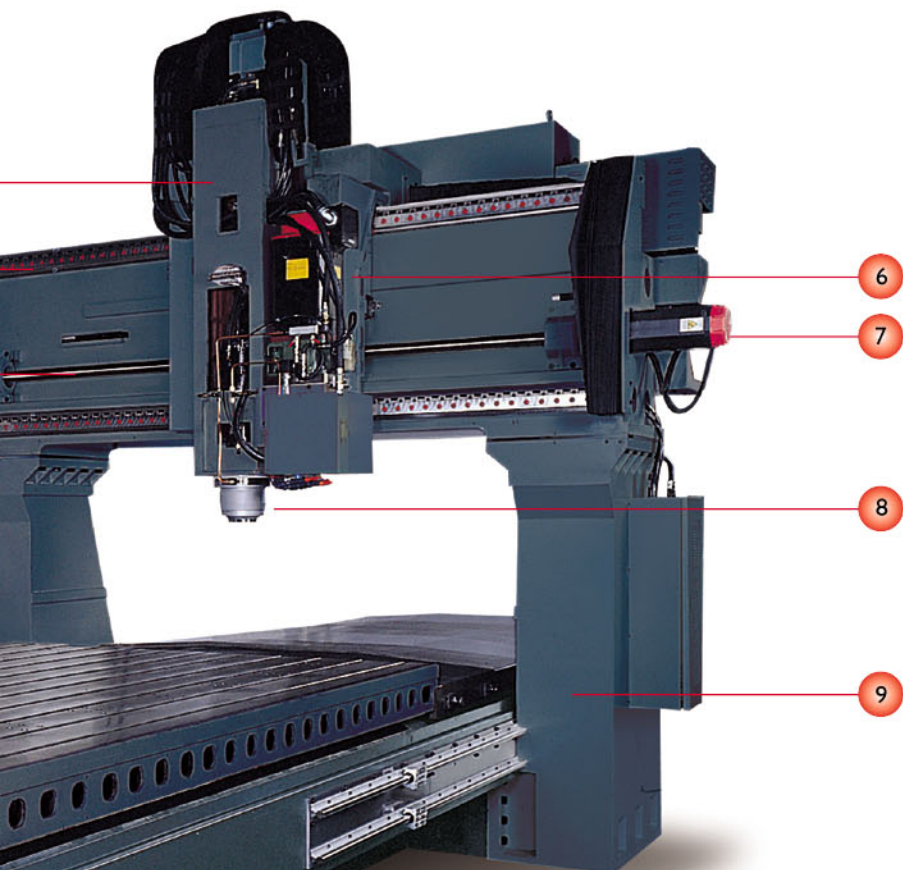
DMC-4100PH



➔ Structure of Y Axis

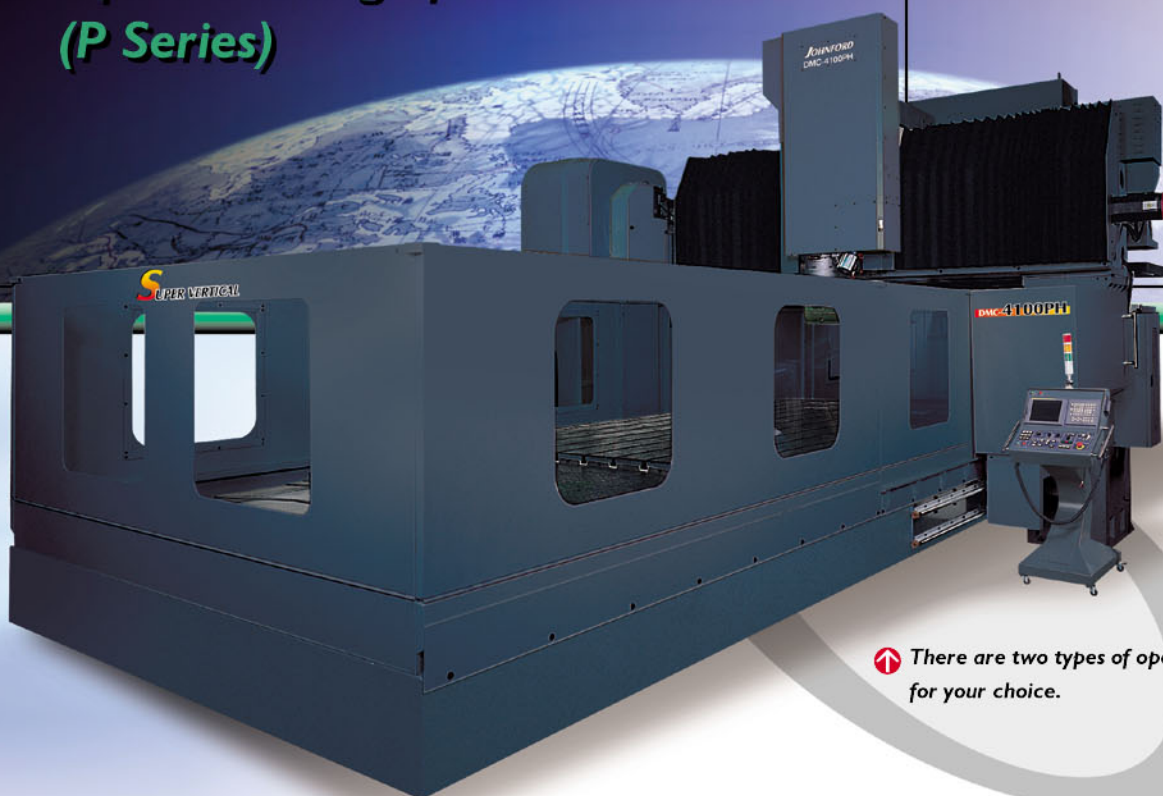
- The great roller-type linear ways with the features of high rigidity, great dynamic and static load carrying capacity, outstanding running smoothness and the total enclosure of the carriage.
- The Z axis uses hardened and ground box ways with turcite-B.
- Hydraulic counter balance provides high stability and smooth operation.

ers (P Series)



- 1 Extra large milling head with rigid box ways. The head is held by 825 mm (32.5") of the saddle.
- 2 Roller-type linear ways are used on the Y axis, and the distance between the linear ways is 880 mm (34.6")
- 3 Large diameter ballscrews ϕ 63 mm (2.5") in the Y axis and ϕ 50 mm (2") in the Z axis. In the X axis, ϕ 63 mm (2.5") for DMC-3100P and ϕ 70 mm (2.8") for DMC-4100P.
- 4 Heavy duty rigid roller-type linear ways are used on the X axis for speed and precision.
- 5 Massive one piece base castings. All major machine components are made from high quality meehanite cast iron.
- 6 Huge saddle is 800x962 mm (31.5"x37.9")
- 7 7 kW servo motor is used on Y axis and 6 kW servo motor is used on X axis with 2:1 gear reduction drives for the most axis thrust available.
- 8 26 kW spindle motor with 2 speed ZF gearbox and 6000 rpm standard on the No.50 machines. It comes with a spindle oil cooler too!
- 9 High rigidity columns casting for maximum reliability.

Optimal Design for Structure (P Series)

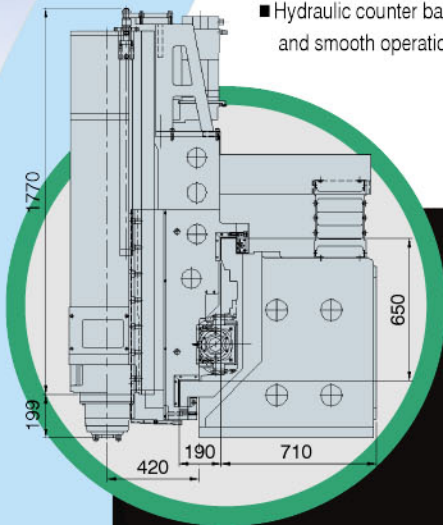


There are two types of operation box for your choice.

Double Column Machining Cent

Structure of Y Axis

- The Y axis and Z axis uses hardened and ground box ways with turcite-B.
- Box structure ram to ensure working stability and accuracy.
- Zero overhang on X, Y, Z travel.
- Hydraulic counter balance provides high stability and smooth operation.



1

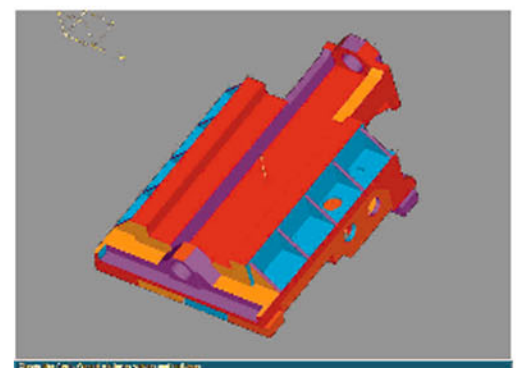
2

3

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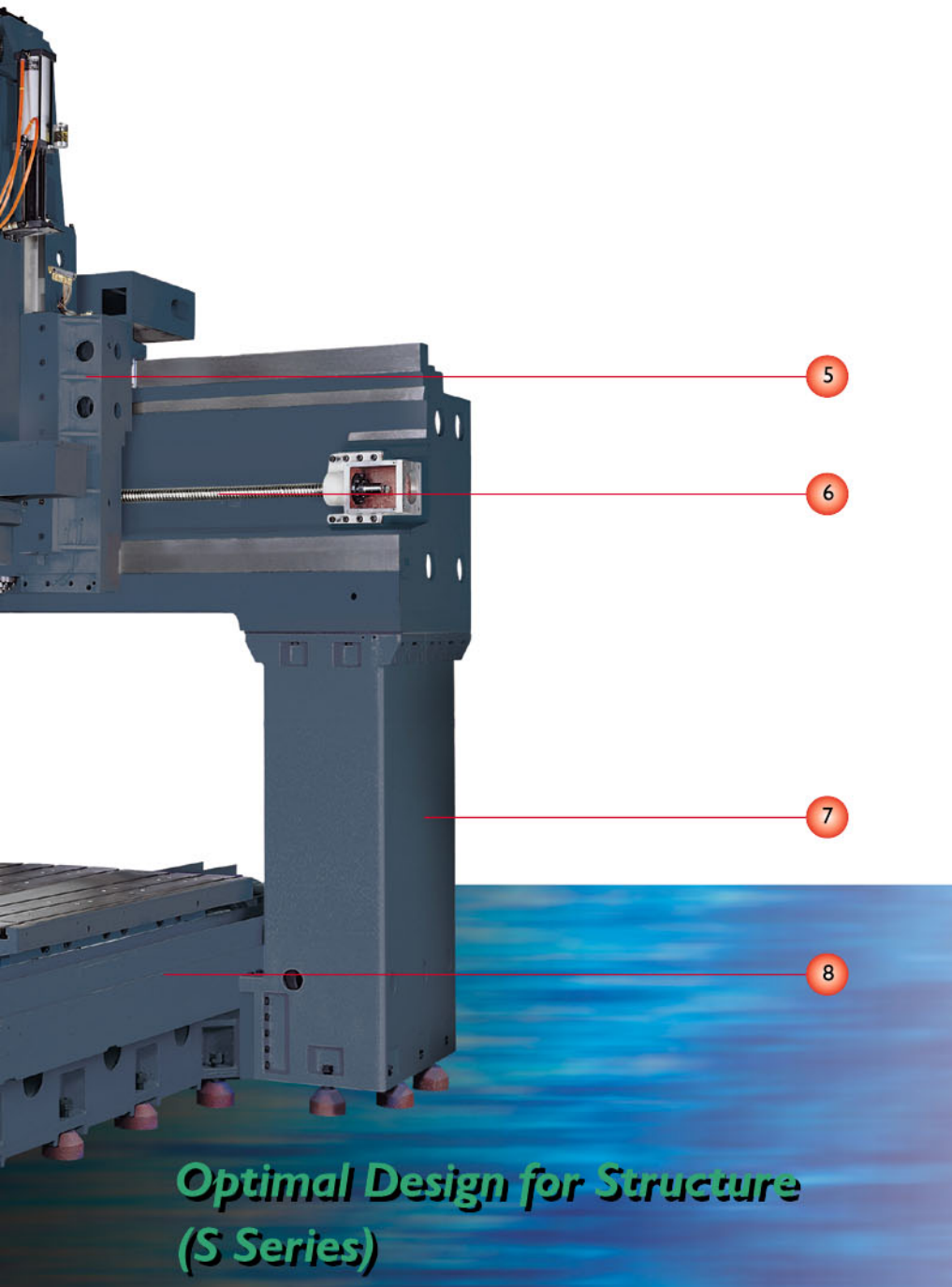
Built Right... Built to Last!

➔ The structures of major components of DMC'S machining centers have been designed with the finite element analysis (FEA). By this way, we refine our design and improve product quality. They can offer high rigidity and good precision that are for beyond ordinary.



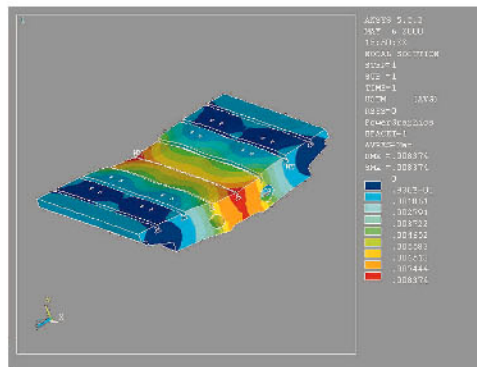
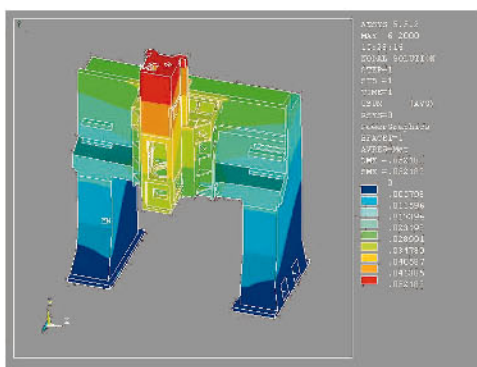
➔ 3D Optimal Design

ers (S Series)



- 1** Extra large milling head with rigid box ways. The head is held by 962 mm (37.9") of the saddle.
- 2** Distance between the Y-axis rigid box way is 650 mm (25.6"). Linear ways are optional on Y-axis.
- 3** 26 kW spindle motor with 2 speed ZF gearbox and 6000 rpm standard on the No.50 machines. If comes with a spindle oil cooler too! 662 N.m (488 lb. ft) of Torque at only 375 rpm!
- 4** Heavy duty rigid roller-type linear ways are used on the X axis for speed and precision.
- 5** Huge saddle that is 820x1001 mm (32.3" x 39.4")
- 6** Large diameter all ϕ 63 mm (2.5") X, Y ballscrews and ϕ 50 mm (2") Z axis ballscrew. They are pretensioned to eliminate thermal growth.
- 7** High rigidity columns and bridge casting for maximum reliability.
- 8** One piece meehanite cast iron base

Optimal Design for Structure (S Series)



Main Structure FEA

Total Solution of Spindles

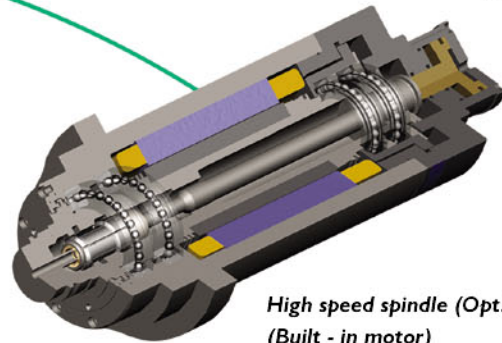
Multiple Configurations to Match any Need



Direct driven 2-axis-NC milling head (Opt.)

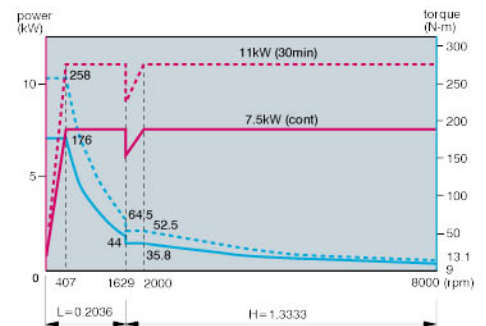
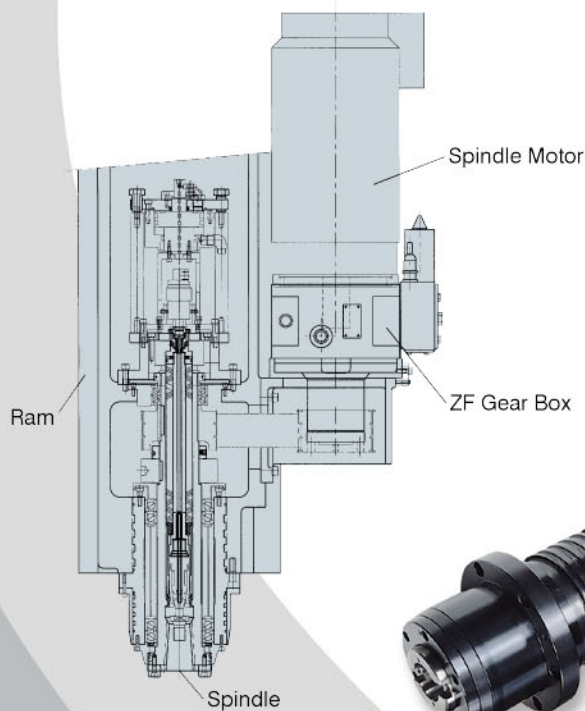


High performance cartridge spindle (Std.)

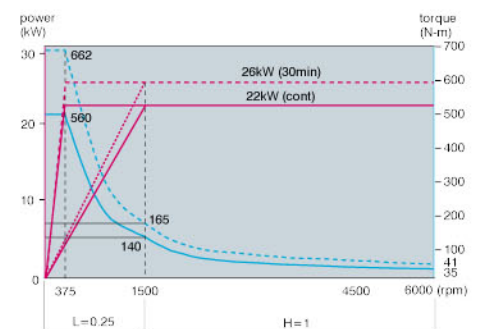


High speed spindle (Opt.)
(Built-in motor)

High Performance Cartridge Spindle (Std.)



No. 40 Spindle
(Auto Hi-Lo 2 Step ZF Gearbox)



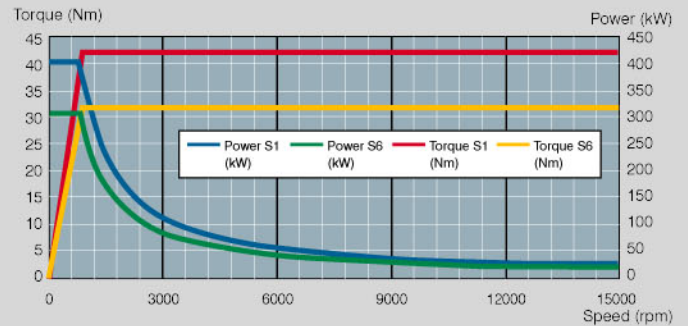
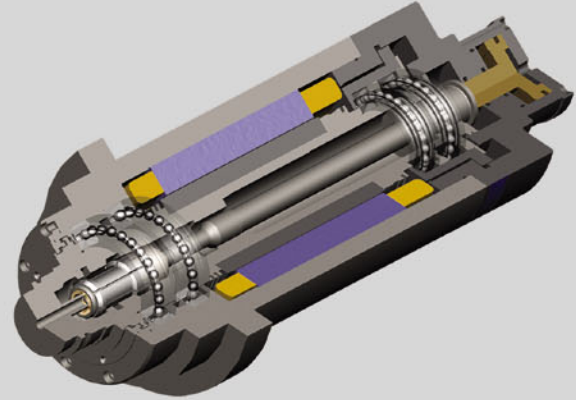
No. 50 Spindle
(Auto Hi-Lo 2 Step ZF Gearbox)

Spindle Power & Torque Chart

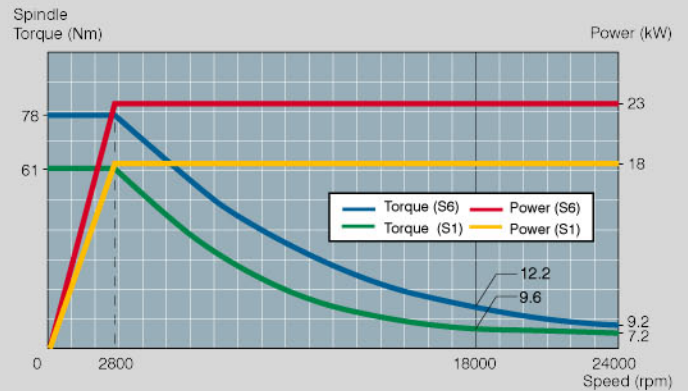
Technical Data

Drive Layout		
Tool system	HSK A63	HSK A100
Power	18 kW	32 kW
Nominal speed	2,800 rpm	1,000 rpm
Max. Torque	78 Nm	400 Nm
Max. Speed	24,000 rpm	15,000 rpm
Control	Fanuc / Siemens / Heidenhain	
Voltage	230V / 380V	380V
Max. Current	90 A / 54A	125 A
Driver	-	SPM-75 HVI
Clamping system	Spring-mechanical+ Power-mechanical	Hydraulic
Clamping Force	18 kN	45 kN
Tool cleaning	Central + Surrounding	Central + Surrounding
Spindle bearings	2 x ϕ 70 Hybrid	3 x ϕ 110 Hybrid
Bearing rigidity	Sr 310.2 N/ μ m	680 N/ μ m
Bearing lubrication	Oil-air mist	Oil-air mist
Spindle cooling	Water glycol	Water glycol
Cooling performance	2.5 kW	6 kW
Cooling temperature	The same as machine	The same as machine
Cooling volume approx	12 l/min	15 l/min
Tool Cooling		
Internal coolant flow	Optional	Standard
Max. Pressure	80 bar	80 bar
Suitable for dry operation	Yes	Yes
Air	Possible	Possible
Min. quantities of cooling lubricant	Optional	-

High Speed Spindle (Built-in Motor)(Opt.)



HSK A100 15,000 rpm



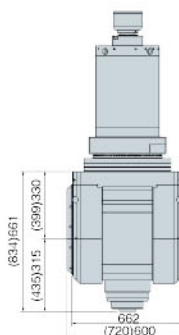
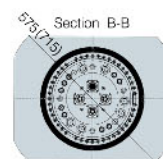
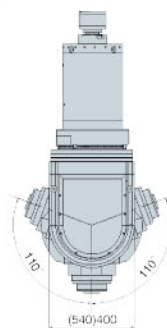
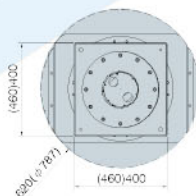
HSK A63 24,000 rpm (Oil-air)
15,000/18,000 rpm (Grease)

Metal Removal Rate	Milling		Milling		Drilling		Threading	
	HSK A63	HSK A100	HSK A63	HSK A100	HSK A63	HSK A100	HSK A63	HSK A100
Power	17 kW	32 kW	17 kW	32 kW	17 kW	32 kW	17 kW	32 kW
Material	Steel 60-70 kg/mm ²		Aluminum 7075		Steel 60-70 kg/mm ²		Steel 60-70 kg/mm ²	
Machining volume (cm ³ /min)	300	704	1382	2878	259	-	-	-
Tool/edges (ϕ mm)	ϕ 50 / 4	ϕ 100 / 7	ϕ 80 / 7	ϕ 100 / 7	ϕ 30	ϕ 51	M24	M36
Rotational speed (min ⁻¹)	2300	1146	6400	5140	2440	1435	500	330
Cutting speed (m/min)	360	360	1615	1615	230	230	37	37
Cutting B x T (mm)	40 x 4	80 x 5.5	60 x 3	80 x 5	-	-	-	-
Feed (mm/min)	1840	1600	7680	7196	366	287	500	1300





5-Axis Head

NC Milling Head with Motorized Spindle

() For HSK A100 Tool System



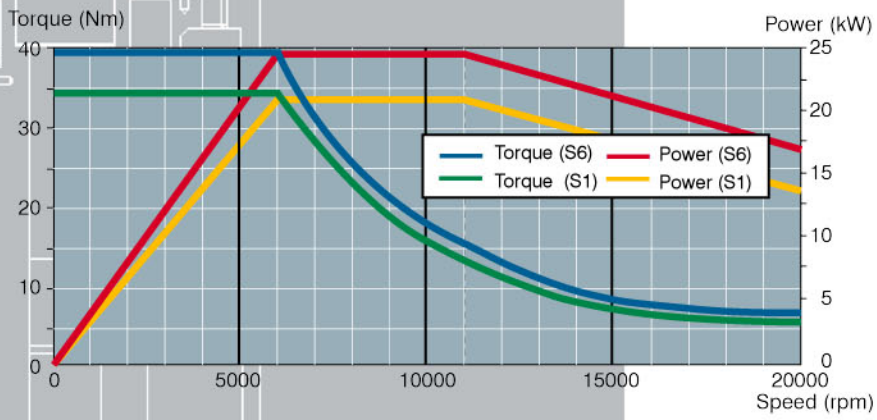
Technical Data

		Main Spindle			
Item	Model	M5A		G5A	
Power		21 kW (S1)	24 kW (S6)	30 kW (S1)	36 kW (S6)
Nominal speed		5,870 rpm		1,000 rpm	
Max. torque		35 Nm (S1)	39 Nm (S6)	280 Nm (S1)	350 Nm (S6)
Max. speed		20,000 rpm		10,000 rpm	
A-Axis swiveling angle		± 110°		± 110°	
C-Axis swiveling angle		± 220°		± 220°	
Tool system		HSK A63		HSK A100	
Clamping system		hydromechanical		hydromechanical	
Clamping force		10 kN		25 kN	
Tool cleaning		automatic		automatic	
Installation position		vertical, horizontal		vertical, horizontal	
Spindle bearings front		2 x φ 70 Hybrid		3 x φ 100 Hybrid	
Bearing rigidity		axial 370 N/μm, radial 450 N/μm		axial 540 N/μm, radial 650 N/μm	
Bearing lubrication		Grease		Grease	
Spindle cooling		Water Tyfocor		Water Tyfocor	
Cooling performance		2 kW		5 kW	
Cooling temperature		20-25°		20-25°	
Cooling volume approx		8 l/min		14 l/min	
Metal removal rate		Milling 	Milling 	Milling 	Drilling 
Material		Steel 600-700 N/mm ²	Aluminium AlMgSi 1	Steel 600-700 N/mm ²	Steel 600-700 N/mm ²
Machining volume (cm ³ /min)		270	1,000	605	-
Tool/edges(φ mm)		32 / 3	63 / 5	100 / 7	40
Rotational speed (r.p.m.)		3,580	4,825	901	360
Cutting speed (m/min)		360	955	283	45
Cut W x D (mm)		25 x 4	52 x 4	80 x 5	-
Feed (mm/min)		2,150	4,825	1,514	250

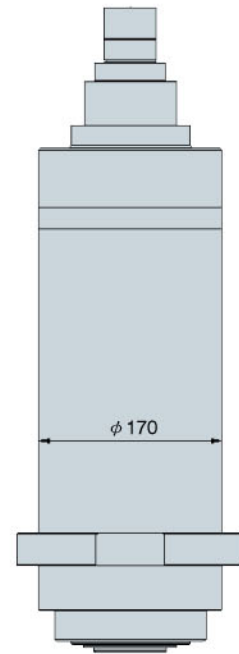
Cooling System

External coolant supply	4 Spray nozzles	4 Spray nozzles
Internal coolant supply	optional	optional
Max. pressure	70 bar	70 bar
Air	optional	-
Minimal cooling lubrication	optional	-

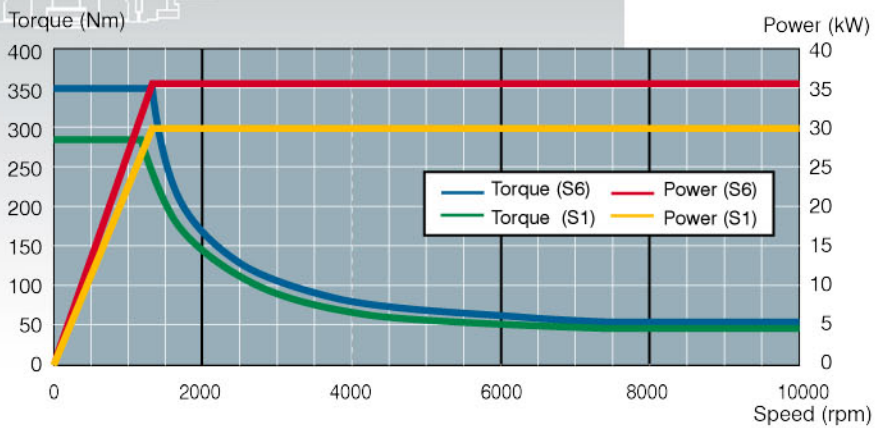
Power Chart



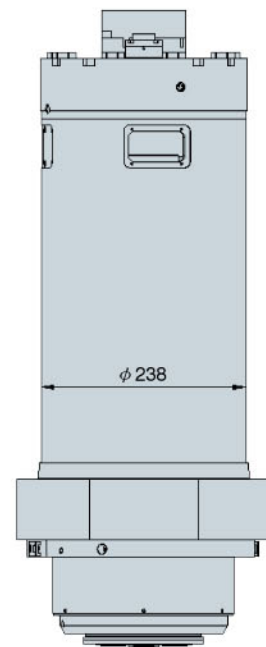
HSK A63 20,000 rpm



HSK A63
(for M5A)



HSK A100 10,000 rpm

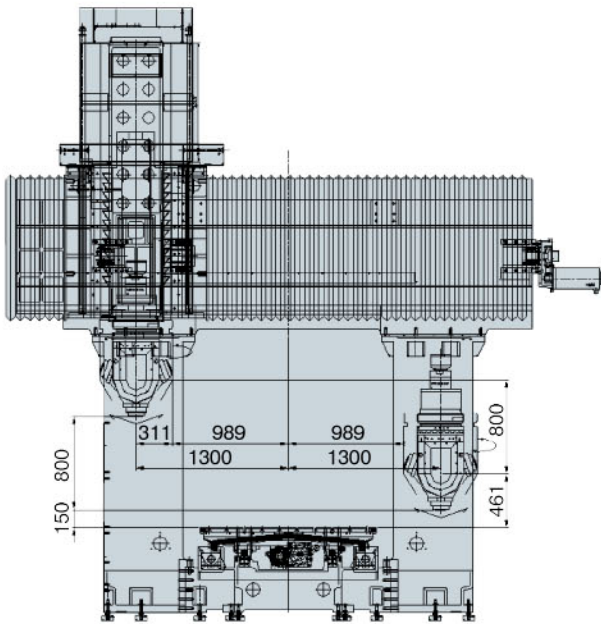


HSK A100
(for G5A)

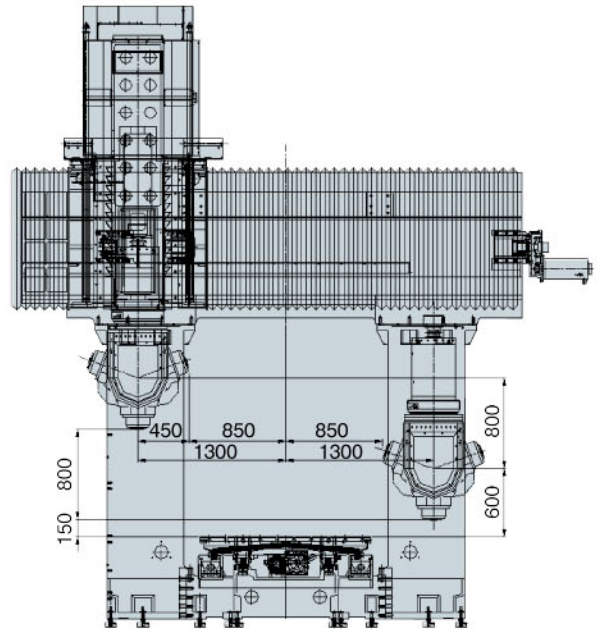
Working Range for 5-Axis Head Travel

DMC-2100SH / 2600SH / 3100SH-5A

Y travels: 2600 mm, Z travels: 800 mm



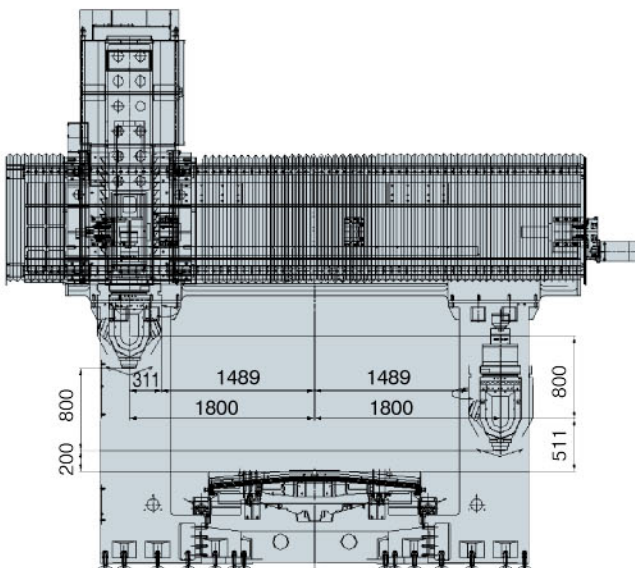
Head M5A



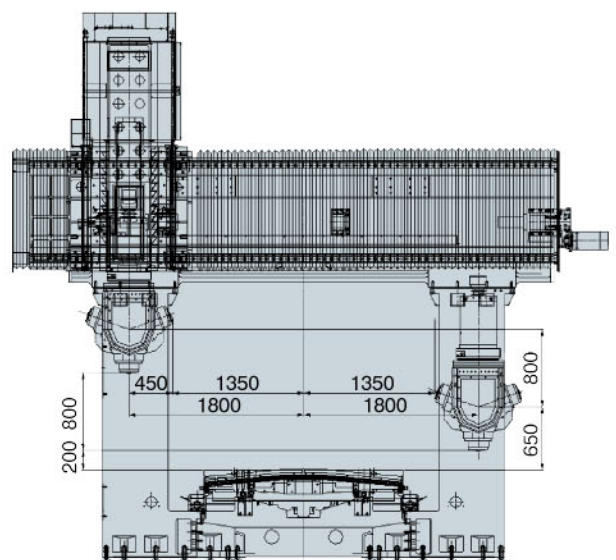
Head G5A

DMC-3100PH / 4100PH-5A

Y travels: 3600 mm, Z travels: 800 mm

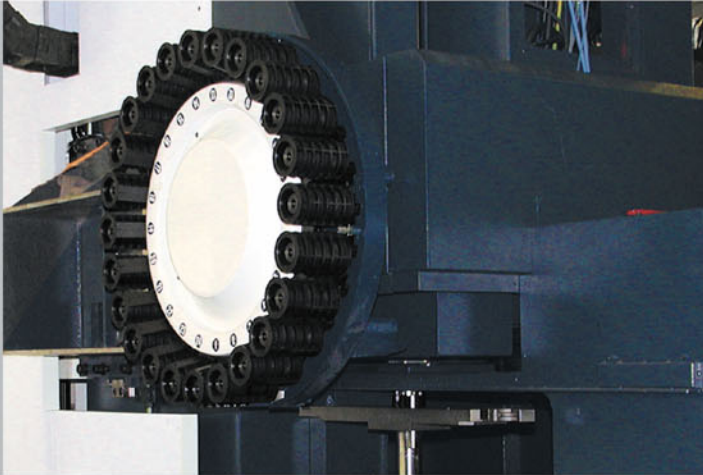


Head M5A



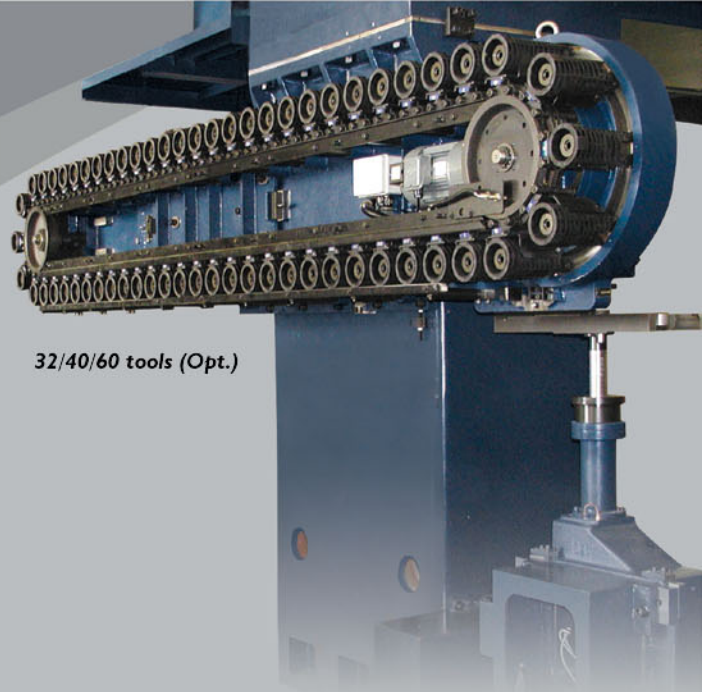
Head G5A

Automatic Tool Changer



No. 40 24 tools (Std.)
No. 50 24 tools (Std.)

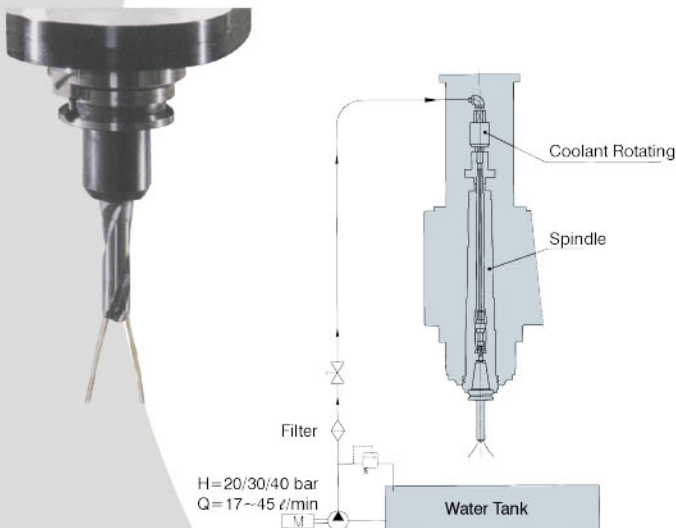
Tool change time: (Std.)
No. 40: 2.5 sec
No. 50: 4 sec



32/40/60 tools (Opt.)

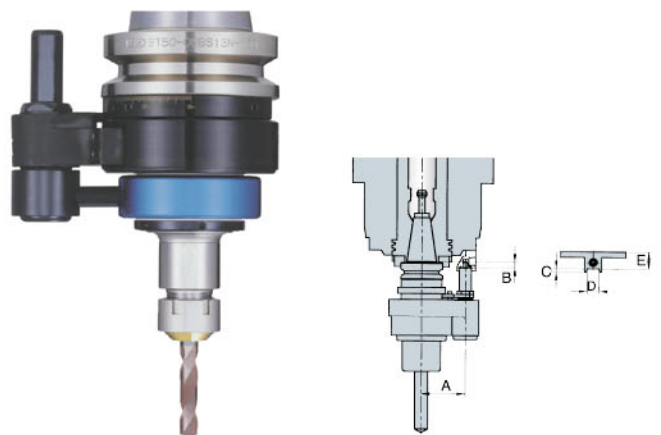
Accessories

Coolant Thru Spindle



- 24 tools (Std.) or 32/40/60 tools (Opt.) are used on the cam-type automatic tool changer. The tool change time is 2.5 seconds for No.40 and 4 seconds for No.50.
- 80/120 tools (Opt.) are used on the hydraulic automatic tool changer. It provides 7 seconds for tool change time. Automatic tool change arm is supported by linear ways to ensure rapid and smooth traverse.
- Bi-directional tool changer without interference.

Coolant Thru Tool Tip



Automatic Chip Removal
(Screw Type Chip Conveyor)



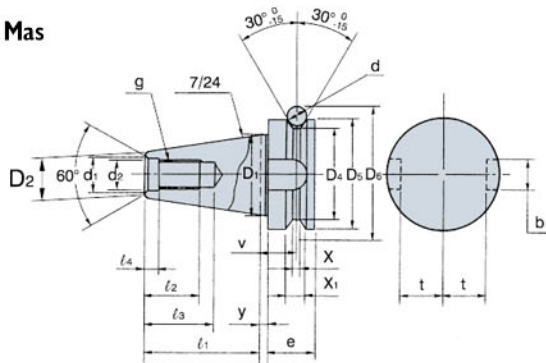
Remote Handwheel

Model	Item	Taper No.	A	B	C	D	E
DMC-2100S / 2600S 3100S / 3100P 4100P		No.40	65	9	5	18	25.5
DMC-2100SH/2600SH 3100SH/3100PH 4100PH		No.50	80	23.5	5	18	36.5

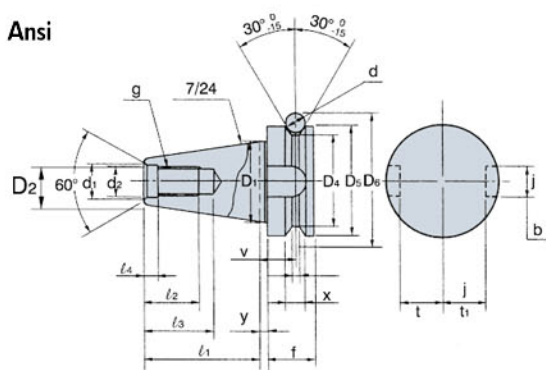
Tool System

BT/CAT Tool Dimension

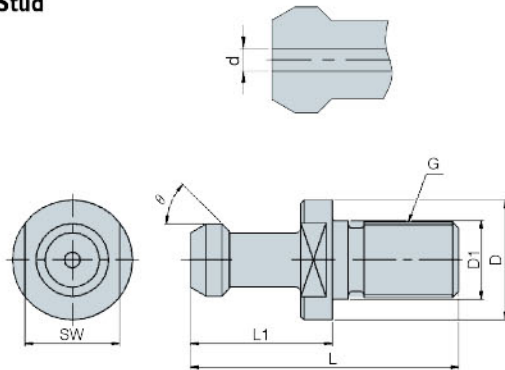
Mas



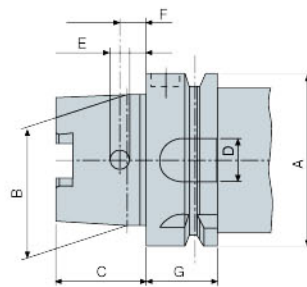
Ansi



Pull Stud



HSK Tool Dimension



Unit: mm

Size	Model	A63	A100
A		63	100
B		48	75
C		32	50
D		16.12	20.02
E		7.5	12
F		9	15
G		26	29

Shank size	Pull stud type	L	L1	D	D1	θ	G	SW	l	l1	d	AN
BT-40	P40T-1	60	35	23	17	45°	M16	19	5	2	3	30°
CAT-40	ANSI B5.50 CAT	53.8	32	23	17	45°	M16	19	5	2	3	30°
BT / CAT-50	P50T-1	85	45	38	25	45°	M24	30	8	2	5	30°

Shank size	Item	D1	l1	d1	d2	g	l2	l3	l4	b	l5	t	t1	j
No.40	MAS(BT)	44.45	65.4 ^{-0.2}	19	17 ^{H8}	M16	30min	43min	9 ^{+0.5} ₀	16.1 ^{H12}	21min	22.6 ⁰ _{-0.2}	-	-
	ANSI(CAT)	44.45	68.4 ⁰ _{-0.3}	18.5	16.4 ^{+0.4} ₀	M16x2	30min	42.5min	4.75 ^{+0.5} ₀	16.1 ^{H12}	-	22.8 ⁰ _{-0.4}	26 ⁰ _{-0.4}	-
No.50	MAS(BT)	69.85	101.8 ^{-0.2}	27	25 ^{H8}	M24	45min	62min	13.0 ^{+0.5} ₀	25.7 ^{H12}	-31min	35.4 ⁰ _{-0.2}	-	-
	ANSI(CAT)	69.85	101.75 ⁰ _{-0.3}	26.5	24.8 ^{+0.4} ₀	M24x3	45min	-	5.75 ^{+0.5} ₀	25.7 ^{+0.2} ₀	-	35.5 ⁰ _{-0.4}	40.4 ⁰ _{-0.4}	-

Shank size	Item	D3	D4	D5	e	f	v	x	x1	y	D2	d	D6
No.40	MAS(BT)	-	53	63 ^{H8}	25	-	16.6 ^{-0.1}	5	10 ^{+0.1} ₀	2 ^{-0.4}	25.375	10	75.679
	ANSI(CAT)	44.7 ⁰ _{-0.5}	56.25 ⁰ _{-0.5}	63.55 ⁰ _{-0.1}	-	15.82 ^{+0.1} ₀	11.1	3.75 ^{+0.15} ₀	-	3.18	24.5	7	72.3 ^{-0.05}
No.50	MAS(BT)	-	85	100 ^{H8}	35	-	23.2 ^{-0.1}	7-	15 ^{+0.1} ₀	3 ^{-0.4}	40.158	15	119.020
	ANSI(CAT)	70.1 ⁰ _{-0.5}	91.25 ⁰ _{-0.5}	98.45 ⁰ _{-0.1}	-	15.82 ^{+0.1} ₀	11.1	3.75 ^{+0.15} ₀	-	3.18	40.173	7	107.25 ^{-0.05}

CNC System-Fanuc 18i-MB



We use the FANUC CNC system for reliability, performance, and FANUC's excellent worldwide service. It is up to the machine tool builder that options are resident in the control and we load it up. Others call them options, but we call them standard. Features such as 10.4" color LCD display, Custom Macro B, Helical, 640 m of memory, Canned Cycles, Full MDI keyboard, and AI NANO Contour Control (high speed machining with 180 blocks look ahead) are all standard. Not to mention Fanuc's state-of-the-art AC digital servo and spindle systems.



Conversational

If ease of programming at the machine is your need, the optional Manual Guide i software is what you have been looking for. 10.4" color LCD, tool and material libraries, solid modeling animation, automatic graphical prompt driven programming and simple question and answer format make programming at the machine in a breeze.



Do You Want to Fly ?

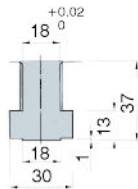
With the optional Data Server (up to the maximum capacity of 1 GB for your choice) and AI NANO HPCC (High Precision Contour Control) with 64-bit RISC processor, you can fly through 3-axis simultaneous movements at 60,000 blocks per minute. Or take it one step further by adding the NURBS option for even faster contouring with better finishes. Call us for the fastest CNC system on the planet.



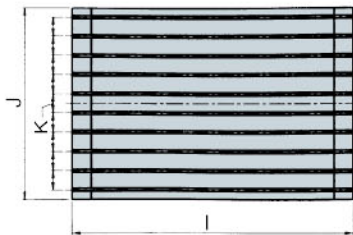
Dimensions

S Series Dimensions

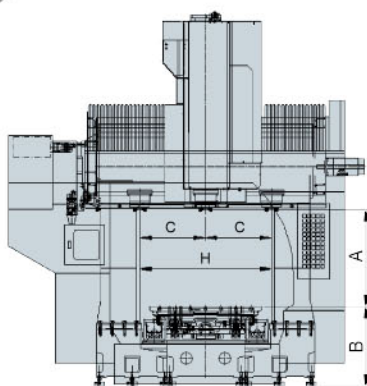
Unit: mm



T-Slot



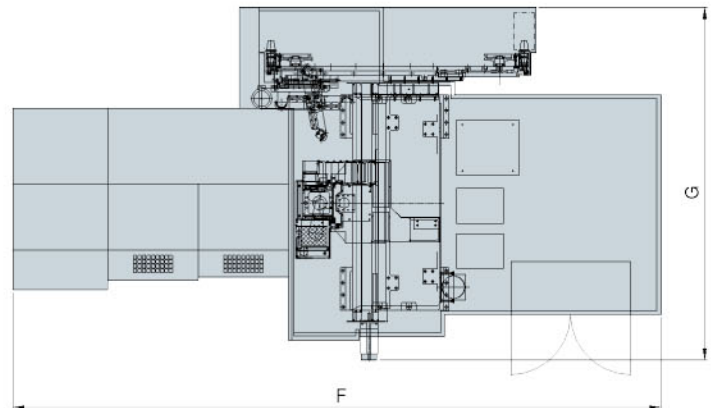
Table



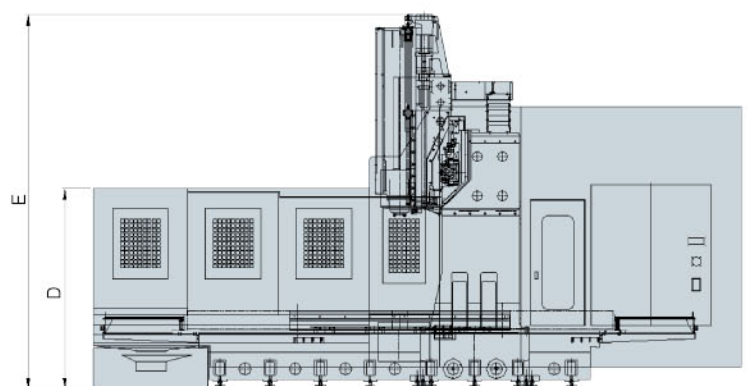
Front View

Model	Size	A	B	C	D	E	F
DMC-2100S/2100SH	950 (37.4")	725 (28.5")	890 (35")	2030 (79.9")	3760 (148")	6585 (259.3")	
DMC-2600S/2600SH	950 (37.4")	725 (28.5")	890 (35")	2030 (79.9")	3760 (148")	7585 (298.6")	
DMC-3100S/3100SH	950 (37.4")	725 (28.5")	890 (35")	2030 (79.9")	3760 (148")	8585 (338")	
DMC-4100S/4100SH	950 (37.4")	855 (33.7")	890 (35")	2165 (85.2")	3890 (153.1")	11100 (437")	

Model	Size	G	H	I	J	K
DMC-2100S/2100SH	4065 (160")	1796 (70.7")	2200 (86.6")	1500 (59.1")	150 (5.9")	
DMC-2600S/2600SH	4065 (160")	1796 (70.7")	2700 (106.3")	1500 (59.1")	150 (5.9")	
DMC-3100S/3100SH	4065 (160")	1796 (70.7")	3200 (126")	1500 (59.1")	150 (5.9")	
DMC-4100S/4100SH	4070 (160.2")	1796 (70.7")	4200 (165.4")	1500 (59.1")	150 (5.9")	



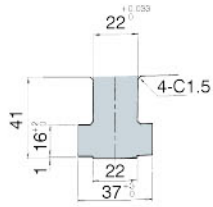
Top View (floor space required)



Side View

P Series Dimensions

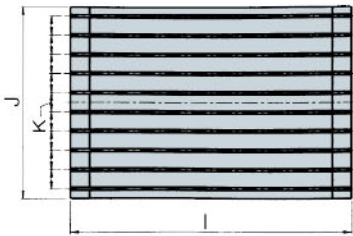
Unit: mm



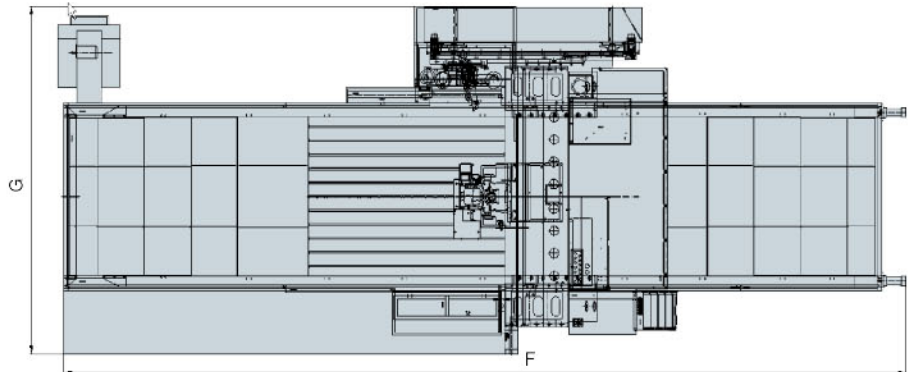
T-Slot

Model	Size	A	B	C	D	E	F
DMC-3100P/3100PH		950 (37.4")	900 (35.4")	1150 (45.3")	1800 (70.9")	3940 (155.1")	8641 (340.2")
DMC-4100P/4100PH		950 (37.4")	900 (35.4")	1150 (45.3")	1800 (70.9")	3940 (155.1")	10841 (426.8")

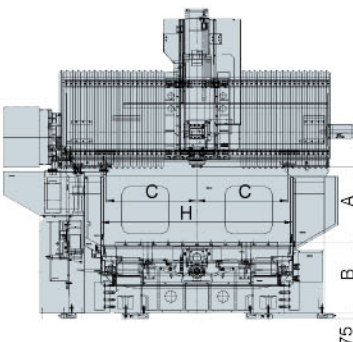
Model	Size	G	H	I	J	K
DMC-3100P/3100PH		4470 (176")	2420 (95.3")	3200 (126")	2050 (81")	180 (7.1")
DMC-4100P/4100PH		4470 (176")	2420 (95.3")	4200 (165.4")	2050 (81")	180 (7.1")



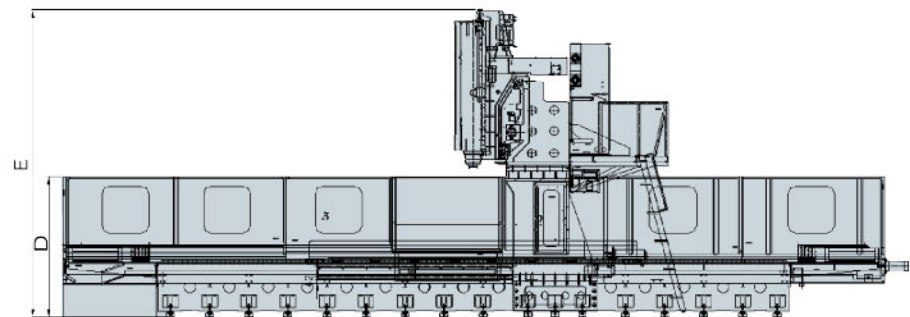
Table



Top View (floor space required)



Front View



Side View

Specifications

Item	Model	DMC-2100S	DMC-2600S	DMC-3100S	DMC-4100S	DMC-3100P	DMC-4100P
		DMC-2100SH	DMC-2600SH	DMC-3100SH	DMC-4100SH	DMC-3100PH	DMC-4100PH
Distance between columns (mm)		1796 (70.7")			1796 (70.7")	2400 (94.4")	
Table size (mm)		2200 x 1500 (86.6" x 59")	2700 x 1500 (106.2" x 59")	3200 x 1500 (126" x 59")	4200 x 1500 (165.4" x 59")	3200 x 2050 (126" x 80.7")	4200 x 2050 (165.3" x 80.7")
X axis travel (mm)		2100 (82.7")	2600 (102.4")	3100 (122")	4100 (161.4")	3100 (122")	4100 (161.4")
Y axis travel (mm)		1778 (70")			1778 (70")	2300 (90.5")	
Z axis travel (mm)		800 (31.5")					
Spindle nose to table (mm)		150~950 (5.9"~37.4")					
Spindle taper		BT-40 / CAT-40	HSK A63 (Opt.)	For DMC-2100S DMC-2600S DMC-3100S DMC-4100S DMC-3100P DMC-4100P	BT-50 / CAT-50	HSK A100 (Opt.)	For DMC-2100SH DMC-2600SH DMC-3100SH DMC-4100SH DMC-3100PH DMC-4100PH
Spindle diameter (Bearing) (mm)		φ 70 (φ 2.8")	-		90 (3.5")	-	
Spindle speed (rpm)		8000, 10000,12000 (Opt.)	15000, 18000, 24000		6000, 8000 (Opt.)	15000	
Spindle motor (kW)		7.5 / 11 Hi Lo Gear	17 / 20 built-in (for 15000,18000rpm) 18 / 23 built-in (for 24000rpm)		22 / 26 Hi Lo Gear	32 / 42 built-in	
X-Y-Z rapid traverse (m/min)		12 / 12 / 12 , 472" / 472" / 472"					
X-Y-Z cutting feed (mm/min)		1-10000					
ATC	Adjacent pockets max. tool dia. (mm)	φ 75 (φ 3")		For DMC-2100S DMC-2600S DMC-3100S DMC-4100S DMC-3100P DMC-4100P	φ 125 (φ 5")		For DMC-2100SH DMC-2600SH DMC-3100SH DMC-4100SH DMC-3100PH DMC-4100PH
	No.of tools	Arm type 24, 32 / 40 (Opt.)			Arm type 24, 32 / 40 (Opt.)		
	Max. tool diameter (mm)	φ 100 (φ 4")			φ 200 (φ 7.8")		
	Max. tool length (mm)	320 (12.6")			400 (15.7")		
	Max. tool weight (kg)	10 (11 lb)			15 (33 lb)		
	Tool selection	Bi-direction random type, Shortest path					
Table load capacity (kg)		10000 (22000 lb)			3000 (6600 lb)	10000 (22000 lb)	
Dimensions	Length (mm)	6585 (259.3")	7585 (298.6")	8585 (338")	11100 (437")	8641 (340.2")	10841 (426.8")
	Width (mm)	4065 (160")			4070 (160.2")	4470 (176")	
	Height (mm)	3800 (150")			3890 (153")	3940 (155.1")	
Machine weight (kg)		29600 (65120 lb)	31200 (68640 lb)	32800 (72160 lb)	37500 (82500 lb)	35000 (77000 lb)	41000 (90200 lb)

■ All data subject to change without notice.

■ All the specifications are listed with the FANUC CNC system.

Standard Accessories:

1. Coolant system
2. Spindle air blast
3. Heat exchanger
4. Full enclosure
5. Two screw type chip conveyors
6. One chain type chip conveyor
7. Operation box
8. Tools, tool box and various manuals
9. Rigid tapping
10. Spindle oil cooler
11. Working lamp (One spotlight & two daylight lamps)
12. FANUC 0i-MC controller

Optional Accessories:

1. Contact tool setting system (Renishaw TS-27R)
2. High pressure coolant thru tool tip
3. High pressure coolant thru spindle
4. Workpiece measuring system
5. Linear scale
6. 32/40 tools (for BT / CAT spindle)
7. 15000, 18000, 24000 rpm for HSK A63 built-in spindle
8. 15000 rpm for HSK A100 built-in spindle
9. 5-axis head
10. External coolant flow of spindle (tool edge)
11. Manual guide *i* / 0*i* (0iMC) ; Manual guide *i* (18iMB / 21iMB)

CNC Control Specs

O: Std. Δ: Opt. -: Nil

Item	Function	Specifications	HEIDENHAIN		FANUC			SIEMENS	
			TNC410	iTNC530	18iMB	21iMB	OiMC	810D	840D
Control axes	Standard number of control axes	axes	4	3	3	3	3	4	4
	No. of simultaneously controlled axes	axes	3	3	3	3	3	4	4
Input commands	Least detection increment	1μ	1μ	0.1μ	1μ	1μ	1μ	1μ	1μ
	Least programmable increment	1μ	1μ	0.1μ	1μ	1μ	1μ	1μ	1μ
	Inch/metric conversion	G20/G21	0	0	0	0	0	0	0
	Absolute/incremental command	G90/G91	0	0	0	0	0	0	0
	Input buffer	word/characters	1024	unlimited	6	6	1	unlimited	unlimited
	Pre-read buffer (No-of block)	block	30	256	180	80	20	100	300
	ISO/EIA automatic identification		0	0	0	0	0	0	0
Interpolation	RS232-C interface		0	0	0	0	0	0	0
	Positioning (interpolation)	G00	0	0	0	0	0	0	0
	Linear interpolation	G01	0	0	0	0	0	0	0
	Circular interpolation	G02/G03	0	0	0	0	0	0	0
	Helical interpolation		0	0	0	0	0	0	0
Program	Rigid Tapping		0	0	0	0	0	0	0
	Memory capacity		256 KB	6 GB	640M	640M	640M	1.5MB	2.5MB
	No. of programs stored		100	unlimited	200	200	200	unlimited	unlimited
	Background editing		0	0	0	0	0	0	0
Spindle functions	S code output 4-digit BCD-binary	S4BCD	0	0	0	0	0	0	0
	Spindle rate	%	0-150		50-150			50-200	50-200
Feed	Per-minute		0	0	0	0	0	0	0
	Rapid traverse rate	low25%,50%,100%	-	-	0	0	0	0	0
	Cutting feed rate	0%-150%	0	0	0-200			0	0
	Handle feed rate	x1,x10,x100	-	-	0	0	0	0	0
Miscellaneous function	M-code	M2(BCD)	0	0	0	0	0	0	0
Coordinate system	Automatic coordinate system setting		-	-	0	0	0	0	0
	Machine coordinate system		0	0	0	0	0	0	0
	Work coordinate system	G54-G59	0	0	0	0	0	0	0
	Coordinate system setting	G92	0	0	0	0	0	0	0
	Manual reference point return		0	0	0	0	0	0	0
	Automatic reference point return	G28/G29	-	-	0	0	0	0	0
	2nd reference point return	G30	-	-	0	0	0	0	0
Tool function	Reference point return verify	G27	-	-	0	0	0	0	0
	Tool command	T2 BCD	0	0	0	0	0	0	0
	Tool length offset	G43/G44/G49	-	-	0	0	0	0	0
	Cutter compensation C	G40/G41/G42	0	0	0	0	0	0	0
Operation	Number of offset sets		999	999	400	400	400	unlimited	unlimited
	Single block		0	0	0	0	0	0	0
	Block skip		0	0	0	0	0	0	0
	Dry run		0	0	0	0	0	0	0
	Machine lock		Δ	Δ	0	0	0	Δ	Δ
	Option stop	M01	0	0	0	0	0	0	0
	Miscellaneous function lock	M.S.T.lock	0	0	0	0	0	0	0
	Manual/Absolute ON/OFF		0	0	0	0	0	0	0
	PLC switch		0	0	0	0	0	0	0
Programming support function	Sub-program control	M98, M99	0	0	0	0	0	0	0
	Corner chamfering/corner rounding		0	0	Δ	Δ	0	0	0
	Canned cycle for drilling	G80-G89	0	0	0	0	0	0	0
	Automatic corner override		0	0	Δ	Δ	0	0	0
	User macro		0	0	0	0	0	0	0
	No. of variable command sets		unlimited	unlimited	500	500	500	unlimited	unlimited
	Backlash compensation		0	0	0	0	0	0	0
	Memory-type pitch error compensation		0	0	0	0	0	0	0
Measurement function	Coordinate system rotation	G68/G69	0	0	Δ	Δ	0	0	0
	Scaling	G50/G51	0	0	Δ	Δ	0	0	0
	Polar coordinate command	G15/G16	0	0	Δ	Δ	0	0	0
	Skip function		0	0	0	0	0	0	0
	Tool length automatic measurement		0	0	Δ	Δ	Δ	0	0
Safe protect	Emergency stop		0	0	0	0	0	0	0
	Travel protected		0	0	0	0	0	0	0
	Program protected		0	0	0	0	0	0	0
Other	CRT		10.4" LCD	15" LCD	10.4"LCD	10.4"LCD	7.2"MON LCD	10.4"LCD	10.4"LCD
	MDI	Full key	0	0	0	0	small type	0	0
	Languages	English/Japaness	10	10	7	7	7	7	7
	Parts count		0	0	0	0	0	-	-
	Run hour display and parts count		0	0	0	0	0	-	-
	Graphic display		0	0	0	0	0	0	0
	4th axis interface		0	Δ	0	0	0	0	0
	Menu programming		0	0	0	0	0	0	0
	Conversational programming with graphic function	Manual guide	0	0	Δ	Δ	Δ	Δ	Δ
	Mirror function		0	0	0	0	0	0	0
	Chinese, French, German, Italian, Spanish		0	0	0	0	0	0	0
	High-precision contour control	64 bit RISC	-	Δ	Δ	-	-	Δ	Δ
	Data server (HD)		-	0	Δ	Δ	Δ	Δ	Δ
ETHERNET		-	0	0	0	Δ	Δ	Δ	

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