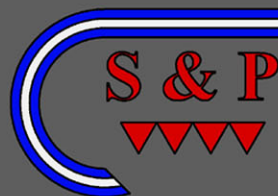


DMC SERIES

HIGH SPEED

CNC DOUBLE COLUMN MACHINING CENTER

Rigidity & Efficiency



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RIC-DMC600

MODEL	UNIT	RIC-DMC600	RIC-DMC900
TRAVEL			
X-axis	mm	600	900
Y-axis	mm	600	650
Z-axis	mm	350	400
Distance from spindle nose to table	mm	150~500	100~500
Distance between columns	mm	650	780
TABLE			
Table size	mm	600 x 600	900 x 720
Max. load	kg	500	800
T-slots (Size x Number x Pitch)	mm	14 x 4 x 100	18 x 4 x 100
SPINDLE			
Spindle speed	rpm	30,000	30,000
Spindle nose		ISO30 / HSK-40E	HSK-40E / HSK63A
FEED			
Rapid traverse (X / Y / Z)	M/min	30 / 30 / 30	30 / 30 / 30
Cutting traverse (X / Y / Z)	mm/min	1~12,000	1~12,000
Guide type		Linear ways	Linear ways
ATC			
Tool shank		ISO30 / HSK-40E	HSK-40E / HSK63A
Tool storage capacity	Tools	16	20
Max. tool (Dia. x Length)	mm	∅ 40 x 150	∅ 60 x 220
Max. tool weight	kg	1.5	1.5
Tool type		Armless	Armless
MOTORS			
Spindle motor	Kw	8.5 (Built-in)	9 / 15 (Built-in)
Control system		MITSUBISHI 65SM / FANUC 18iMB	FANUC 18iMB
X-axis		HF153T(1.5Kw 8.82Nm) / α 8i(1.6Kw 8Nm)	α 12i(3Kw 12Nm)
Y-axis		HF153T(1.5Kw 8.82Nm) / α 8i(1.6Kw 8Nm)	α 12i(3Kw 12Nm)
Z-axis		HF353BS(3.5Kw 22.5Nm) / α 12iB(3Kw 12Nm)	α 22i(4Kw 22Nm)
OTHERS			
Floor dimension (W x D)	mm	2,270 x 2,020	2,880 x 2,020
Machine height	mm	2,460	2,850
Power capacity	KVA	25	30 / 35
Net weight	kg	4,200	7,550
Gross weight	kg	5,100	9,050

* Design and specifications are subject to change without prior notice.

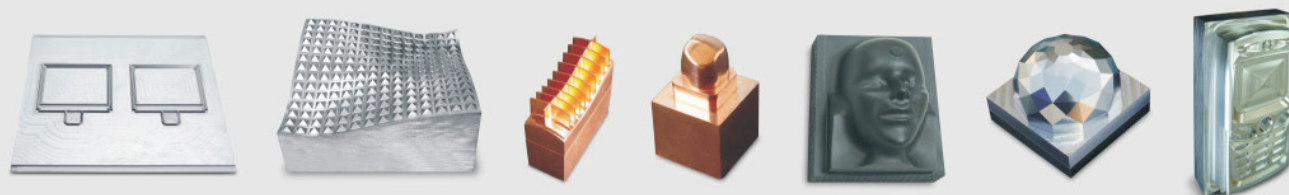
STANDARD ACCESSORIES

- Spindle coolant system
- Automatic lubrication system
- Fully enclosed splash guard
- RS232 / RJ45 Interface
- Heat exchanger
- Air blow device
- Water gun
- Work light
- 3-colors indicating light
- MPG hand wheel
- Leveling bolts and pads
- Tool box with tools

OPTIONAL ACCESSORIES

- Linear scales on 3 axes (HEIDENHAIN)
- Oil / Water separator
- 4th axis rotary table
- Auto. tool measurement
- Rigid tapping

Samples





MODEL	UNIT	RIC-DMC1100S		RIC-DMC1100M	
TRAVEL					
X-axis	mm	1,100		1,100	
Y-axis	mm	600		600	
Z-axis	mm	500		500	
Distance from spindle nose to table	mm	150~650		150~650	
Distance between columns	mm	720		720	
TABLE					
Table size	mm	1,200 x 600		1,200 x 600	
Max. load	kg	1,000		1,000	
T-slots (Size x Number x Pitch)	mm	18 x 5 x 100		18 x 5 x 100	
SPINDLE					
Spindle speed	rpm	1~16,000	1~18,000	1~18,000	1~24,000
Spindle lubricator	type	GREASE	OIL / AIR	OIL / AIR	
FEED					
Rapid traverse (X / Y / Z)	M/min	36 / 36 / 36		30 / 30 / 30	
Cutting traverse (X / Y / Z)	mm/min	1-20,000		1-20,000	
Guide type		Linear ways		Linear ways	
ATC					
Tool shank		SK-40 (HSK-A63 opt.)		HSK-A63	
Tool storage capacity	pcs	20		20	
Max. tool diameter	mm	Ø50		Ø60	
Max. tool length	mm	250		250	
Max. tool weight	kg	12		12	6
Tool type		Armless		Armless	
Tool change time (T to T)	sec.	4		4	
OTHERS					
Main power (60% / 100%)SIEMENS	Kw	53 / 25 (71 / 34 HP)		53 / 25 (71 / 34 HP)	62 / 21 (83 / 28 HP)
X/Y/Z feed power SIEMENS	Kw	AC 8.5 / 8.5 / 8.5		AC 8.5 / 8.5 / 8.5	
Air power required	kg/cm ²	6		6	
Power capacity	KVA	50		50	
Machine height	mm	3,000		3,000	
Floor dimension (W x D)	mm	3,100 x 2,600		3,100 x 2,600	
Machine weight	kg	11,000		11,000	
Positioning accuracy (VDI 3441)P	mm	±0.004 / 300		±0.004 / 300	
Repetition positioning accuracy (VDI 3441) Ps max	mm	±0.002		±0.002	
Control system		SIEMENS 810DE CCI3 & SHOPMILL		SIEMENS 840DE NCU573.5 & SHOPMILL HEIDENHAIN iTC 530 (opt.)	

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STANDARD ACCESSORIES

- Built-in spindle
- Spindle cooling device
- Chain type chip conveyor
- Water tank
- Fully enclosed splash guard
- X-axis telescopic cover
- Coolant through ball screws on 3 axes
- Auto. lubrication on 3 axes
- Coolant through spindle
- Water gun and air gun
- Air blast on workpiece
- Auto tool measurement
- 3-colors indicating light
- Heat exchanger
- Auto. power off
- Leveling pads and bolts

OPTIONAL ACCESSORIES

- Rigid tapping
- Spindle positioning
- Spindle oil mist lubrication
- Internet connection
- Volt stabilizer
- Adaptor
- Air-conditioner-type heat exchanger
- Linear scale on 3 axes (HEIDENHAIN)
- Oil / Water separator
- 30,000 RPM built-in spindle



RIC-DMC1210



ADDITIONAL DOOR LOCK SWITCH

- During the machine is performing machining, both front and right door are locked by the switch for safety protection.

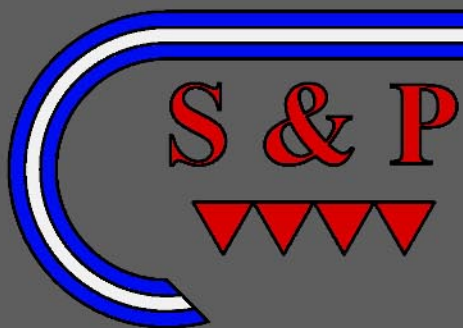
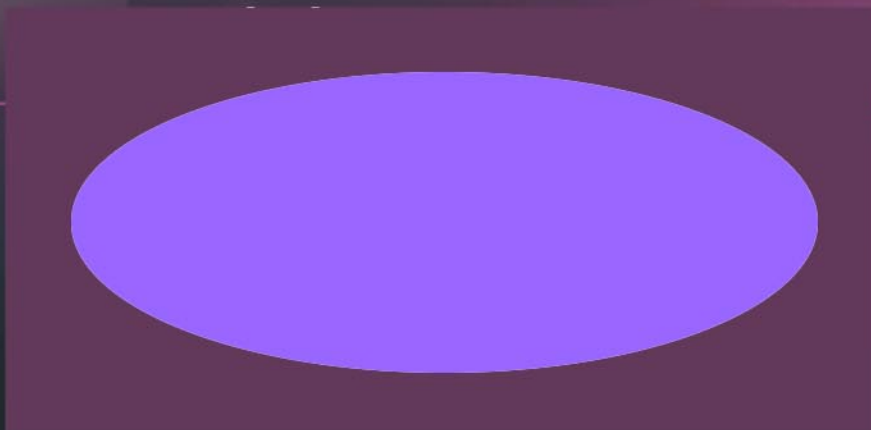


HIGH SPEED SPINDLE

- The entire spindle unit is carefully assembled and tested before assembly to assure its outstanding performance.
- Direct-drive-type spindle of 10,000 RPM is standard as the one of 12,000 is optional.
- Built-in-type spindle is optional with speed 18,000 or 20,000 RPM (FANUC); or 30,000 RPM (SIEMENS).

MODEL	UNIT	RIC-DMC1207	RIC-DMC1210	RIC-DMC1220
TRAVEL				
X-axis	mm	1,200	1,200	1,200
Y-axis	mm	700	1,050	2,050
Z-axis	mm	500	700	700
Distance from spindle nose to table	mm	100~600	100~800	100~800
Distance between columns	mm	1,460	1,470	1,470
TABLE				
Table size	mm	1,300 x 720	1,300 x 1,020	1,300 x 2,020
Max. load	kg	300	1,200	2,000
T-slots (Size x Number x Pitch)	mm	18 x 6 x 125	18 x 7 x 150	18 x 9 x 150
SPINDLE				
Spindle speed	rpm	10,000 (opt. 12,000)	10,000 (opt. 12,000)	10,000 (opt. 12,000)
Spindle nose		BT-40	BT-40	BT-40
Bearing diameter	mm	70	70	70
Spindle drive		Direct-coupled	Direct-coupled	Direct-coupled
Spindle motor	Kw	5.5 / 7.5	7.5 / 11	11 / 15
FEED				
Rapid traverse (X / Y / Z)	M/min	24 / 24 / 15	30 / 30 / 24	30 / 30 / 24
X / Y motor	Kw	1.6 / 1.6	4.0 / 4.0	4.0 / 4.0
Z motor	Kw	4.0	8.0	8.0
Cutting traverse (X / Y / Z)	mm/min	1~12,000	1~12,000	1~12,000
Guide type		Linear ways	Linear ways	Linear ways
ATC				
Tool storage capacity	pcs	16	24	24
Tool selection		Random	Random	Random
ATC type		Carousel	Cam	Cam
Tool change time (T to T)	sec.	8.0	1.8	1.8
Magazine type		Armless	Arm	Arm
TOOL				
Tool shank		BT-40	BT-40	BT-40
Pull stud		P40T-1	P40T-1	P40T-1
Max. tool length	mm	250~300	250~300	250~300
Max. tool diameter	mm	Ø80	Ø80	Ø80
Max. tool weight	kg	7	7	7
POWER SOURCES				
Power supply	KVA	15	30	35
Pneumatic unit	kg/cm	6	6	6
Coolant tank	L	225	225	225
MACHINE SIZE				
L x W x H	mm	2,820 x 2,920 x 2,900	3,800 x 3,340 x 3,550	3,800 x 5,400 x 3,650
Net weight	kg	5,200	13,500	15,500
CNC				
Control type		FANUC 0i (opt. 18i)	FANUC 0i (opt. 18i)	FANUC 0i (opt. 18i)

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