

NC ROTARY TABLE MR series MR120·MR160·MR200

Industry standard compact rotary table (Purple)

- Minimum size in its class
- Pneumatic spec
- Powerful pneumatic clamping torque by triple disk brake system
- High speed rotation
- High accuracy
- Rotary Joint built in as option
- •Ideal for compact machining centres



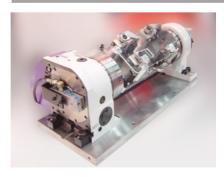


(With Kitagawa own controller)



MRM160 (Rotary Joint built in as option)

Sample Application



▲Various trunnion systems available. (See P.73).



▲Table with T-slot can also be offered.



△Only Kitagawa can offer this combination of NC Rotary Table and chuck



4th axis specifications

Type Table Size 120·160·200 LA ** Design No. Motor type Clamping method Only Pneumatic Right/left hand R: Right hand L: Left hand

M signal specification

MR M 160 R 2 **

Type Table Size 120 • 160 • 200

- Kitagawa own controller Design No.
Kitagawa own controller
2:MAC mini i
4:MAC mini iH

Right/left hands R: Right hand L: Left hand

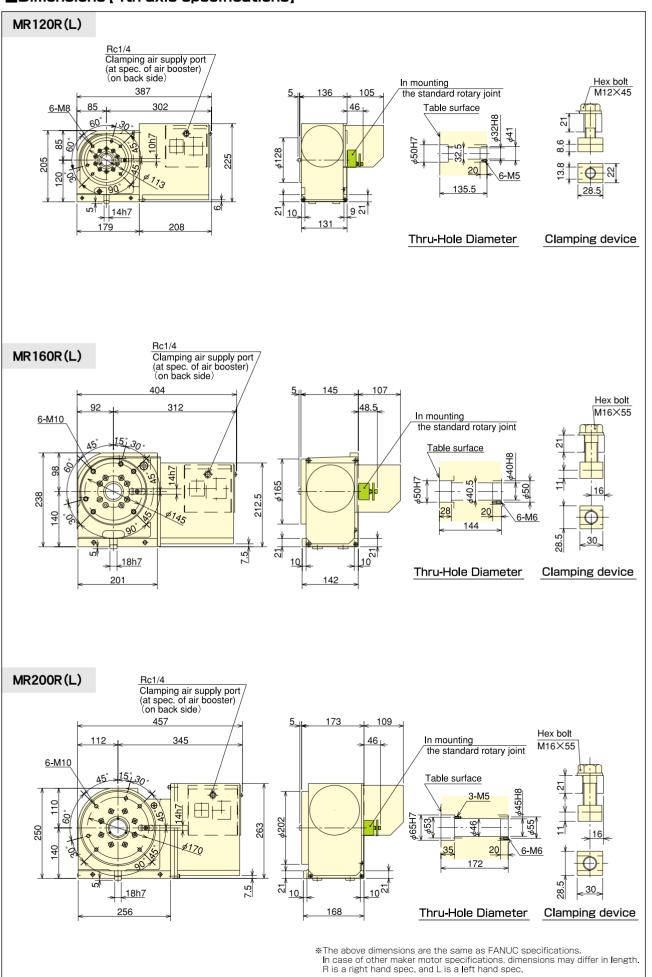
■Specifications

Model		MR120	MR160	MR200	
Right hand		0	0	0	
Left hand	Left hand		0	0	0
Table dia (mm)		φ 128	φ 165	φ 202	
Register diameter on Face Plate (mm)			φ50H7	φ50H7	φ 65H7
Spindle through hole diameter (mm)			φ32	φ 40	φ 45
Center Height (mm)			120	140	140
Clamping method			Pneumatic	Pneumatic	Pneumatic
Clamping torque (N·m) (In pneumatic 0.5MPa)			150	310	350
Motor axis reduced inertia (kg·m²)			0.00004	0.00008	0.00017
Servomotor (fo	Servomotor (for FANUC specification)			α iF 2/5000	α iF 4/4000
Gear ratio	Gear ratio		1/60	1/72	1/90
Mary animally are a	FANUC specification (for min ⁻¹ /motor3000min ⁻¹)		50	41.6	33.3
Max. spindle speed	M signal specification (for min ⁻¹ /motor3000min ⁻¹)		50	41.6	33.3
Allowable work inertia (kg·m²)		0.22	0.51	1.00	
Indexing accura	acy (sec)		20	20	20
Repeatability (sec)		4	4	4	
Mass of produc	t (kg)		33	41	61
Manual Tailstoo	k (as an optio	n • P69 reference)	MR120RN	MR160RN	MR200RN
Tail Spindle (as	Tail Spindle (as an option • P71 reference)		TSR121A	TSR142A	TSR142A
B		RJ32-12Q04	RJ40H16Q	RJ40H20Q02	
Rotary Joint (a	Rotary Joint (as an option • P75 reference)		Pneumatic3-port	Hydraulic/Pneumatic4-port	Hydraulic/Pneumatic4-port
Allowable Lo.	ad	Horizontal (kg)	120	160	200
Allowable Load		Vertical (kg)	60	80	100
Allowable load		F (kN)	8	10	17
		FXL (N·m)	350	600	1100
		FXL (N·m)	150	310	350
Allowable cutt	Allowable cutting torque		180	220	270

Note) 1. The switch for pressure checking is incorporated to all series except TC/DM of NC tables. 2. The solenoid valve for the table clamp is incorporated. 3. Neither cable nor hose is fitted between NC rotary table and machine tool... 4. In the port part on the table surface jig side of a rotary joint, MR120 or 200 is fixed to the rotary table side and MR160 to jig side. 5. Because a mounting pitch varies with the machines, refer to the pitch of the table spindle size drawing on P71. 6. Each product mass is determined by a Kitagawa M signal spec.

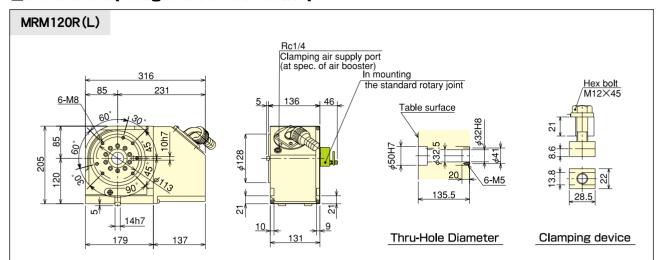
MR120·MR160·MR200

■Dimensions [4th axis specifications]

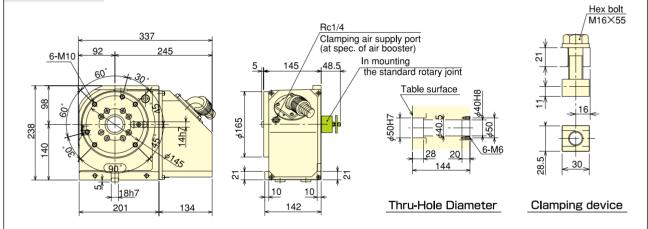




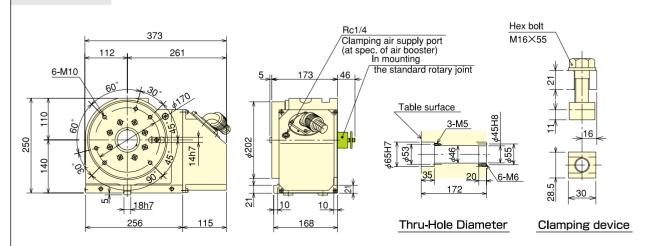
■Dimensions (Kitagawa own controller)



MRM160R(L)



MRM200R(L)

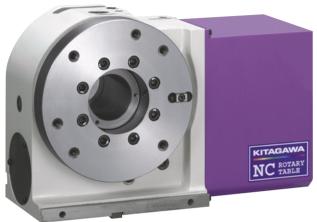


 $\ensuremath{\mbox{\%}}\mbox{R}$ is a right hand spec. and L is a left hand spec.



Industry standard compact rotary table (Purple)

- Compact design
- Pneumatic spec
- Powerful pneumatic clamping torque by triple disk brake system
- High speed rotation
- High accuracy
- Rotary Joint built in as option
- •Ideal for compact machining centres



MR250



(With Kitagawa own controller)

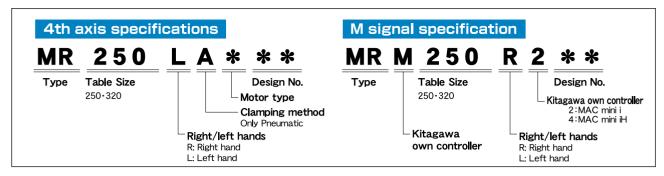
Sample Application





▲Specialist trunnion systems allow for multi surface or simultaneous machining.





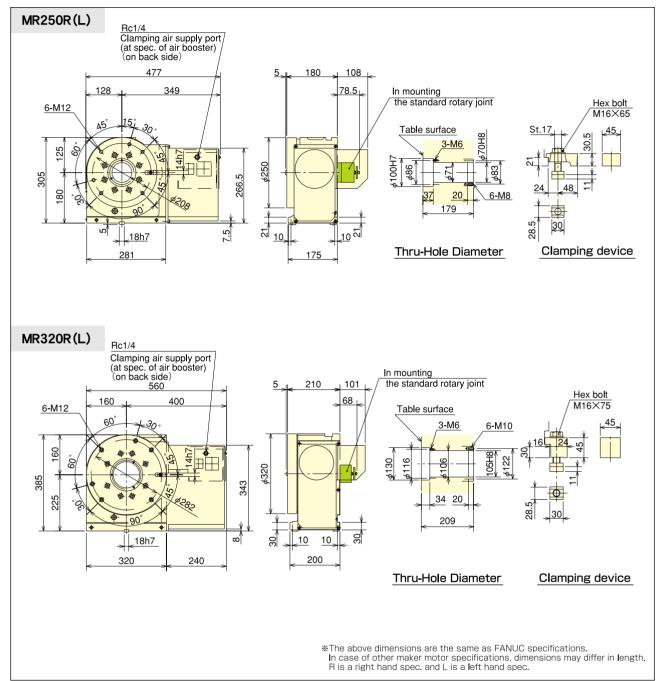
■Specifications

Model			MR250	MR320
Right hand			0	0
Left hand			0	0
Table dia (mm)			φ 250	φ320
Register diameter on Face Plate (mm)			φ 100H7	φ 130H7
Spindle through hole diameter (mm)			φ70	φ 105
Centre Height (mm)			180	225
Clamping method			Pneumatic	Pneumatic
Clamping torque (N·m) (In pneumatic 0.5MPa)			600	1200
Motor axis reduced inertia (kg·m²)			0.00031	0.00031
Servomotor (for FANUC specification)			α iF 4/4000	α iF 8/3000
Gear ratio			1/90	1/120
Max. spindle speed	FANUC specification (for min ⁻¹ /motor3000min ⁻¹)		33.3	25
	M signal specification		33.3 (3000min ⁻¹)	16.6 (2000min ⁻¹)
Allowable work inertia (kg·m²)		m²)	1.95	4.49
Indexing accuracy (sec)			20	20
Repeatability (sec)			4	4
Mass of produc	t (kg)		85	135
Manual Tailsto	ck (as an optio	n • P69 reference)	MR250RN	MR320RN
Tail Spindle (as an option · P71 reference)			TSR180A	TSR180A-45
2			RJ70H25Q02	RJ70H32Q01
Rotary Joint (as an option - P75 reference)		'5 reference)	Hydraulic/Pneumatic6-port	Hydraulic/Pneumatic6-port
Allowable Lo	ad	Horizontal (kg)	250	350
Allowable Load		Vertical (kg)	125	180
Allowable load		F (kN)	21	25
		FXL (N·m)	1600	2400
		FXL (N·m)	600	1200
Allowable cutt	ing torque	T (N·m)	480	800

Note) 1. The switch for pressure checking is incorporated to all series except TC/DM of NC tables. 2. The solenoid valve for the table clamp is incorporated. 3. Neither cable nor hose is fitted between NC rotary table and machine tool... 4. In the port part on the table surface jig side of a rotary joint, MR120 or 320 is fixed to the rotary table side. 5. Because a mounting pitch varies with the machines, refer to the pitch of the table spindle size drawing on P71. 6. Each product mass is determined by a Kitagawa M signal spec.

MR250 MR320

■Dimensions (4th axis specifications)





■Dimensions (Kitagawa own controller)

