



Strong & Compact NC Rotary Table

I Kseries

Performance improved

Powerful clamping torque and high cutting torque

Improved mounting

Chip flow improved and jig interference eliminated



Wide selection of rotary joints

7 ports and 17 ports are available depending on model and also high pressure is supported.

The strong and compact NC rotary table MK series now has a full line up.

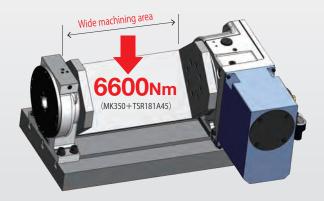
Performance improved

Powerful clamping torque

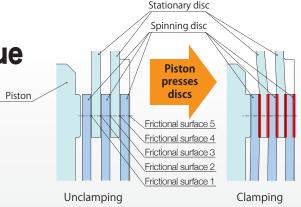
Carge capacity provides the highest specifications in its class

MK350: 6000Nm MK250: 1000Nm MK200: 570Nm

Jig space and clamping torque are boosted by the set of the MK series and Kitagawa tail spindle.



Strong clamp by multi-disc clamping system (PAT. 4328060)

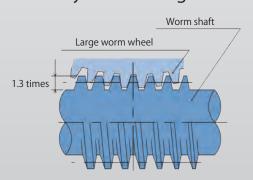


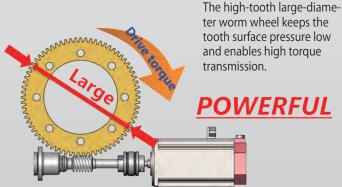
Olt becomes more powerful when used with a tale spindle.

MK350+Tail Spindle TSR181A45 6000Nm + 600Nm = 6600Nm MK250+Tail Spindle MSR181A 1000Nm + 600Nm = 1600Nm MK200+Tail Spindle MSRC140 570Nm + 400Nm = 970Nm

High cutting torque

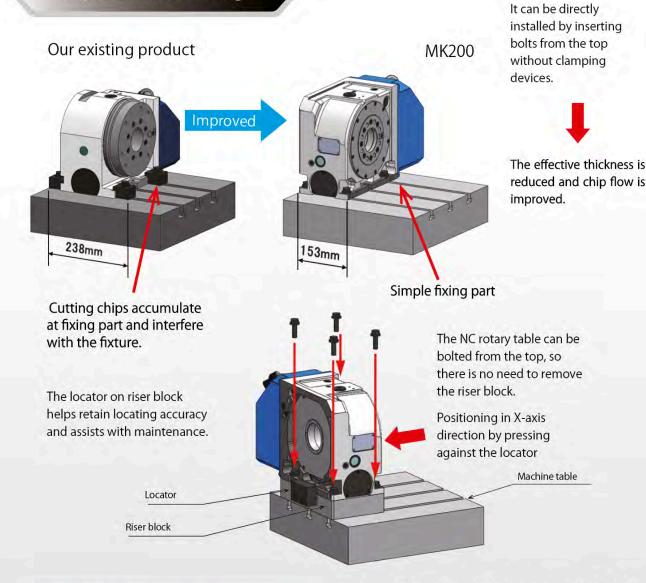
OHigh-tooth and large-diameter worm wheel design enables heavy lead cutting.
The high



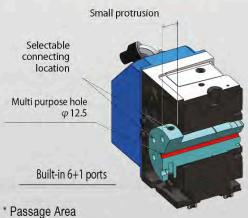




Improved mounting



Wide selection of rotary joints



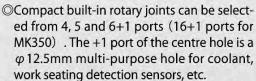
Built-in type: 12.6mm² External Type: 19.6mm²



Built-in rotary joint

4ports

5ports 6+1ports 16+1ports



25MPa high-pressure rotary joints are also available for miniaturization of fixtures and fast actuation.



External rotary joint

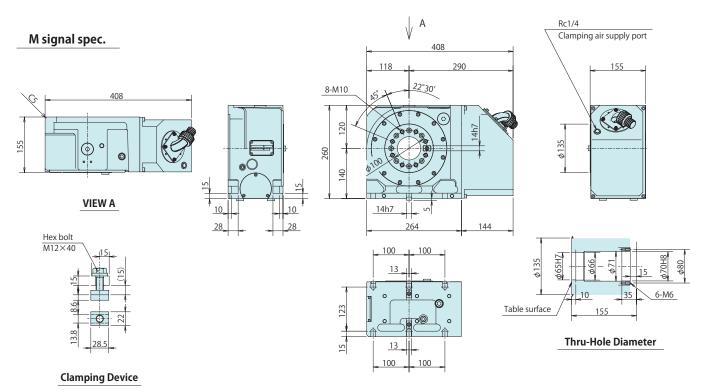
■ Specifications of MK

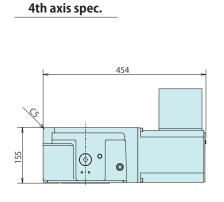
Model		MK200	MK250	MK350				
Table dia (mm)		φ 135	φ 155	ф 275				
Centre hole dia (mm)		φ 65H7	φ 70H7	ф 160Н7				
Spindle through hole diameter (mm)		φ70	φ70	φ160				
Centre height (mm)		140	180	225				
Clamping method		Pneumatic	Pneumatic	Pneumatic /Hydraulic				
Clamping torque (N· (Pneumatic 0.5MPa、		5MPa)	570	1000	6000			
Motor axis reduced inertia (kg·m²) (for FANUC specification)		0.00018	0.00041	0.00082 0.00181		0181		
Servomotor			α iF4/5000	α iF4/5000	αiF8	α iF8/3000 α iF12/4		
Gear ratio			1/90	1/90	1/120	1/90		
Max. rotation speed (min ⁻¹)		33.3 (3000min ⁻¹)	33.3 (3000min ⁻¹)	25(FANUC) (3000min ⁻¹) 16.6(QTC100 · 2000min ⁻¹)	33.3(FANUC) (3000min ⁻¹)	33.3(FANUC · 3000min ⁻¹) 22.2(QTC300 · 2000min ⁻¹)		
Allowable work inertia(kg·m²)		1.00	1.95	7.66				
Indexing accuracy (se	Indexing accuracy (sec)		20	20	20			
Repeatability (sec)			4	4	4			
Mass of product (kg)			60	95	185 200		200	
Allowable mass of workpiece (kg)	Horizontal installation		200	250	500			
	Vertical installation		100	125	250			
	F (kN)	_	17	17 21		38		
Allowable load (When table is clamped)	FxL (N·m)		1100	1600	2700			
	FxL (N·m)	\$	570	1000	6000			
Allowable cutting torque (N·m)		270	480	1400				
Built-in rotary joint (Option)		Pneumatic/hydraulic 6 ports + multi-purpose hole*	Pneumatic/hydraulic 6 ports + multi-purpose hole*	Pneumatic/hydraulic 17 ports				

^{*} The multi-purpose hole is a ϕ 12.5 through hole that can be freely used for coolants or seating confirmation sensor wiring ducts, etc.

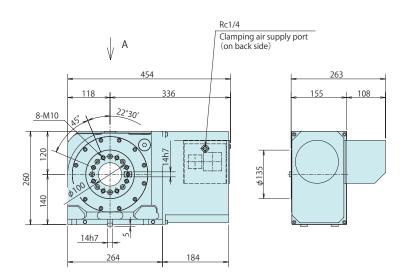


■ Dimensions of MK200

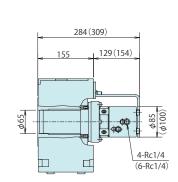




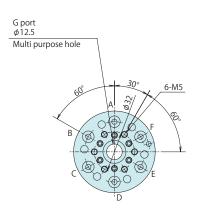
VIEW A



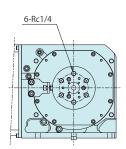
Rotary joint



External 4-port rotary joint
Dimensions in () are for 6-port rotary joint.



Multi purpose hole



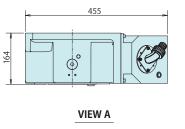
Rotary joint jig attachment side details

Built-in 6-port rotary joint

External dimensions of 4-port and 5-port rotary joints are the same as this.

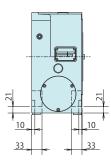
■ Dimensions of MK250

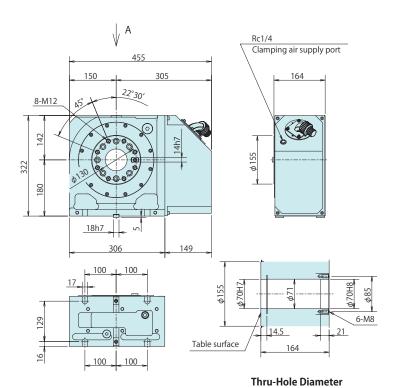
M signal spec.



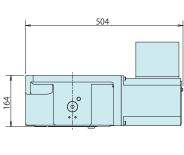
Hex bolt M16×55

Clamping Device

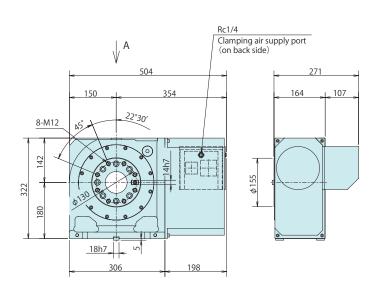




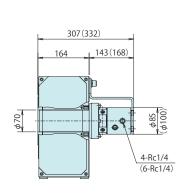
4th axis spec.



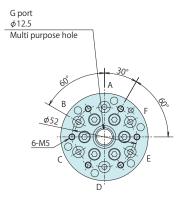
VIEW A



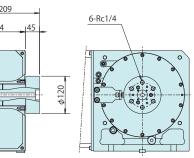
Rotary joint



External 4-port rotary joint Dimensions in () are for 6-port rotary joint.



φ12.5 Multi purpose hole

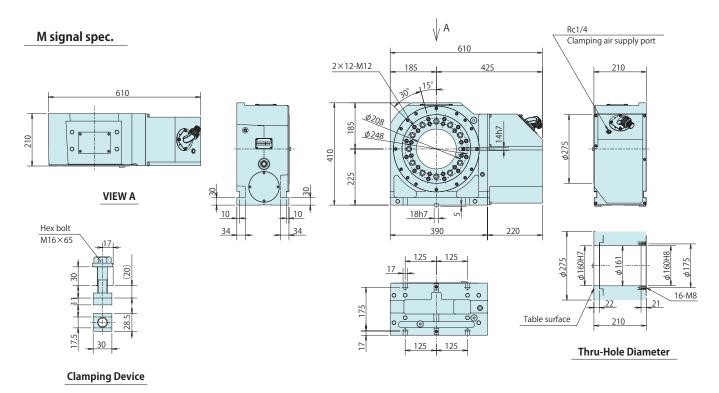


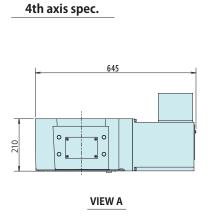
Rotary joint jig attachment side details

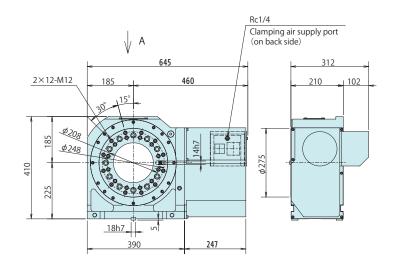
Built-in 6-port rotary joint

External dimensions of 4-port and 5-port rotary joints are the same as this.

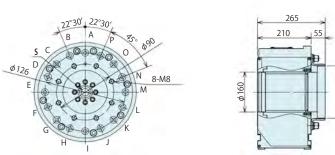
■ Dimensions of MK350



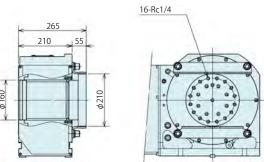




Rotary joint



Rotary Joint JIG Attachment Side Details



Built-in 16-port rotary joint

Matching tail stock and tail spindle

There are a variety of options such as a tail stock for supporting long workpieces and a tail spindle for trunion assemblies. For details, please refer to our NC rotary table catalogue.

Rotary table	Manual tail stock	Pneumatic tail stock	Hydraulic tail stock	Pneumatic tail spindle	Hydraulic tail spindle
MK200	MR200RN	MR200AN	_	MSRC140/MSR142A	_
MK250	MR250RN	MR250AN	-	MSR181A	-
MK350	MR320RN	MR320AN	MR320HN	TSR181A45	TSR181H45

Air and hydraulic tailstocks are the production by order products.

Please refer to our NC rotary table catalogue for the dimensions and specifications of the tail stocks and tail spindles.



Manual tail stock



Tail spindle

Matching scroll chuck



All of the scroll chucks descriived on this page are dedicated for NC rotary tables and can be installed from the front of the chuck. A dedicated back plates are also available. For details, please refer to our NC rotary table catalogue.

Rotary table	Chuck diameter	1	2	3)
MK200	165	JN06-101	JN06T102	JNOSTN
	190	JN07-101	JN07T102	JN07TN
MK250	232	JN09-101	JN09T102	NT60NF
	273	JN10-101	JN10T102	JN10TN
MK350	273	JN10-101	JN10T102	NTOTN
	310	JN12-101	JN12T102	JN12TN

- ① : One set each of internal one-piece jaws and external one-piece jaws are attached as standard.
- ② : One set each of internal/external use 2-piece hard jaws and 2-piece soft jaws are attached as standard.
- ③ : CE compliant model by changing the handle of ①.



www.kitagawa.global

Kitagawa Europe Limited

Unit 1, The Headlands, Downton, Salisbury, Wiltshire. SP5 3JJ Tel: +44 1725 514 010

- Specifications and outside appearance are subject to change without notice due to ongoing research and development.
- The color of the actual product may be different from the catalogue's due to printing matters.
- Catalogue contents as of 2019.10
- The products herein are controlled under Japanese Foreign Exchange and Foreign Trade Control Act. In the event of importing and/or exporting the products,

You are obliged to consult KITAGAWA as well as your government for the related regulation prior to any transaction.