

NC ROTARY TABLE

Compact Type Tilting NC Rotary Table TT101·TW120

※TW is Straight tilting table

Compact tilting range to suit 5 axis machining on small work pieces

- Minimum size in its class
- Light weight
- High rigidity
- High speed rotation
- Rotary Joint built in as option
- Cylinder mountable
- Pneumatic clamping specification
- Ideal design for compact machining centres

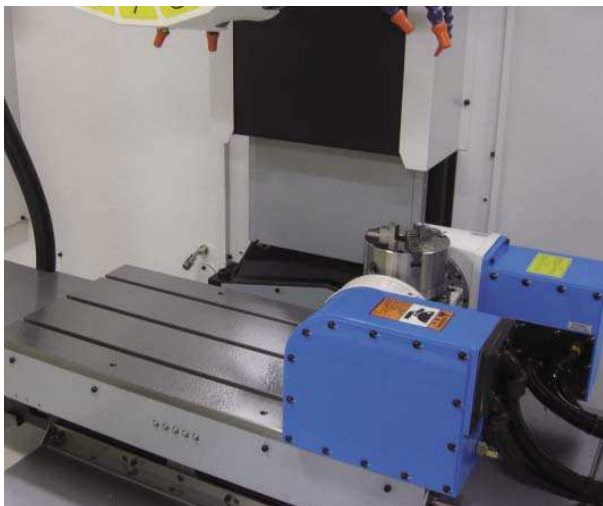
*CE correspondence

※In specification with the foreign trade control ordinance, permission of the ministry of economy, trade and industry is required when exporting twin axis products overseas.

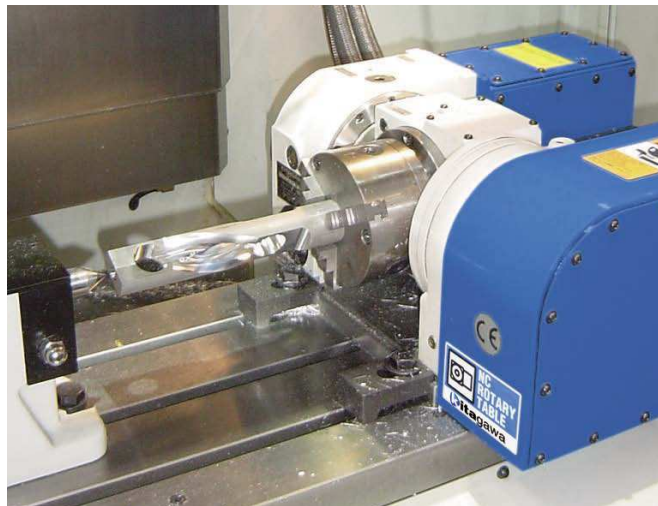


TT101

Sample Application



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



▲Combine with tailstocks on p89 to suit machining of long work pieces.

4th axis specifications				M signal specification			
TT	101	A	* * * *	TT	101	A V	* *
Table Size TT: 101 TW: 120		Design No. Tilting motor type Rotary axis motor type		Table Size TT: 101 TW: 120		Design No. Quinte specification	
Type TT: STD type TW: Tilting straight type (only 120 size)		Clamping method Only Pneumatic		Type TT: STD type TW: Tilting straight type		Clamping method Pneumatic	

Specifications

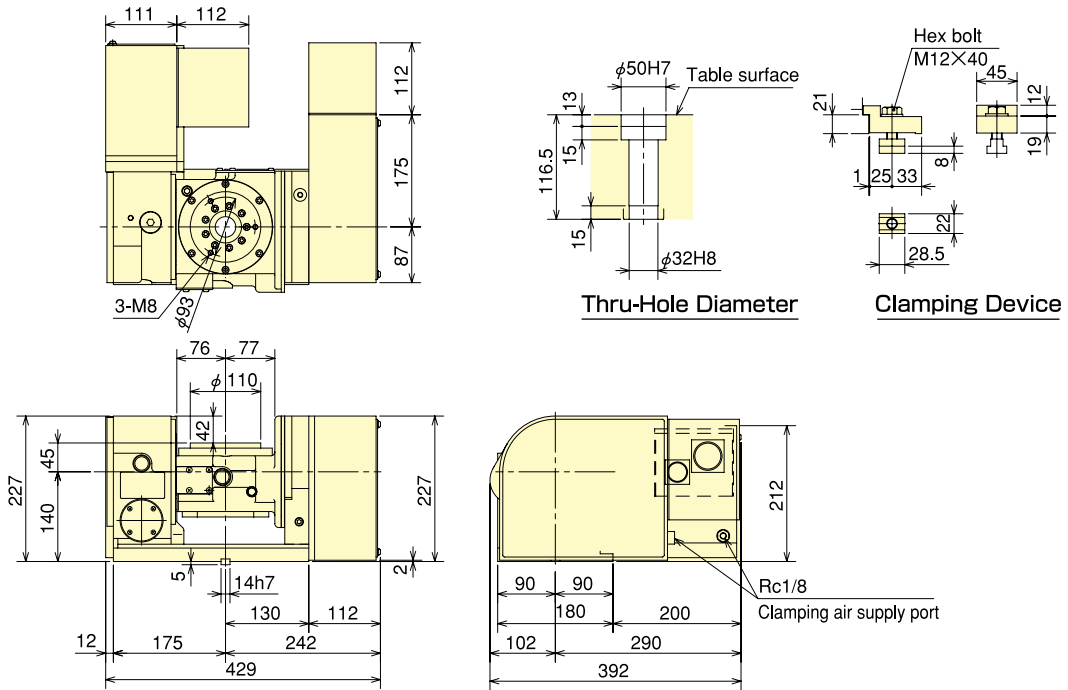
Model		TT101	TW120	
Tilting angle		-20° ~ +120°	-20° ~ +110°	
Table dia (mm)		φ 110	φ 125	
Register diameter on Face Plate (mm)		φ 50H7	φ 60 H 7	
Spindle through hole diameter (mm)		φ 32	φ 32	
Centre Height (mm)		140	150	
Clamping method		Pneumatic	Pneumatic	
Clamping torque (N·m) (In pneumatic 0.5MPa)	Rotating axis	180	120	
	Tilting axis	300	200	
Motor axis reduced inertia (kg·m ²)	Rotating axis	0.000082	0.000072	
	Tilting axis	0.000081	0.000034	
Servomotor (for FANUC specification)		Rotating axis αF 1/5000 Tilting axis αF 2/5000	α F 2/5000	
Gear ratio	Rotating axis	1/72	1/90	
	Tilting axis	1/120	1/180	
Max. spindle speed	for FANUC specification	Rotating axis (for min ⁻¹ /motor3000min ⁻¹)	41.6	33.3
		Tilting axis (for min ⁻¹ /motor3000min ⁻¹)	25	16.6
	M signal specification	Rotating axis (for min ⁻¹ /motor3000min ⁻¹)	41.6	33.3
		Tilting axis (for min ⁻¹ /motor3000min ⁻¹)	25	16.6
Allowable work inertia (kg·m ²)		0.05	0.06	
Indexing accuracy (sec)	Rotating axis	30	30	
	Tilting axis	60	60	
Repeatability (sec)		4	4	
Mass of product (kg)		73	103 / 105	
Rotary Joint (Option · P97 reference)		RJ32-10T05 Hydraulic/Pneumatic3-port	RJ32-12T08 Hydraulic/Pneumatic3-port	
Allowable Load	at horizontal (kg)	35	35	
	at tilted (kg)	20	20	
Allowable load (When clamped to table)	F (kN)	4	4	
	F×L (N·m)	300	200	
	F×L (N·m)	180	120	
Allowable cutting torque	T (N·m)	160	190	
Moment of tilting weight capacity	W×L (kgf·m)	7	10	

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. Each product mass is determined by a Kitagawa M signal spec. 5. Contact to Kitagawa about rotary joint.

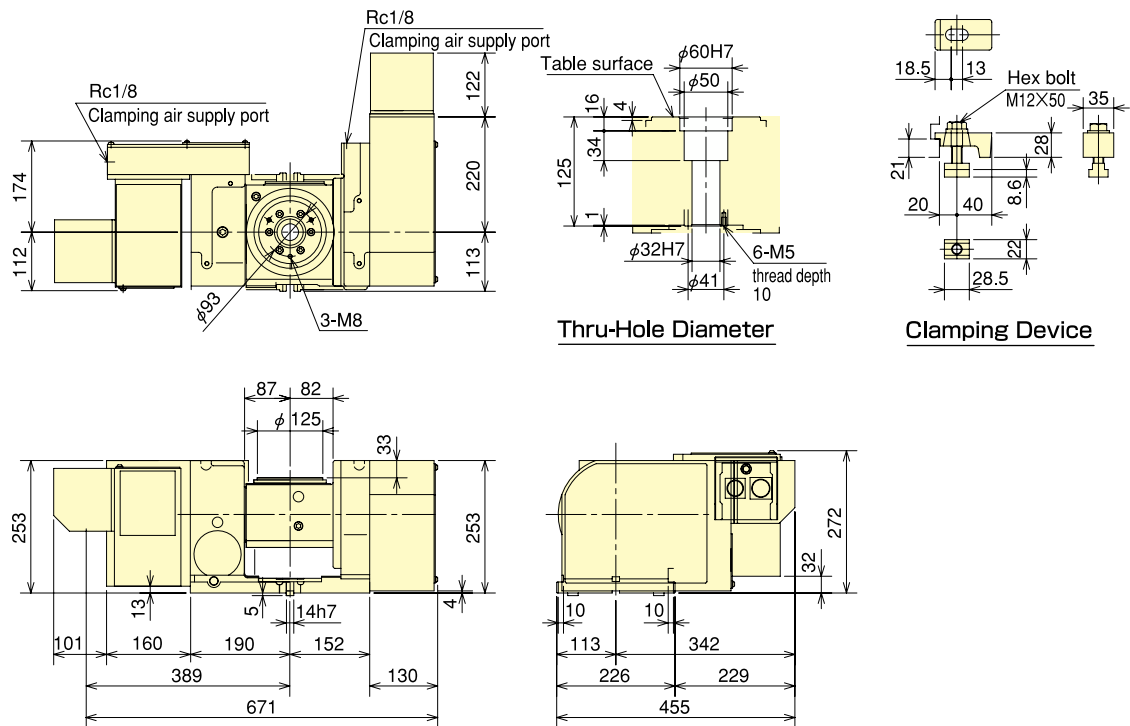
TT101·TW120

■Dimensions [4th axis specifications]

TT101



TW120

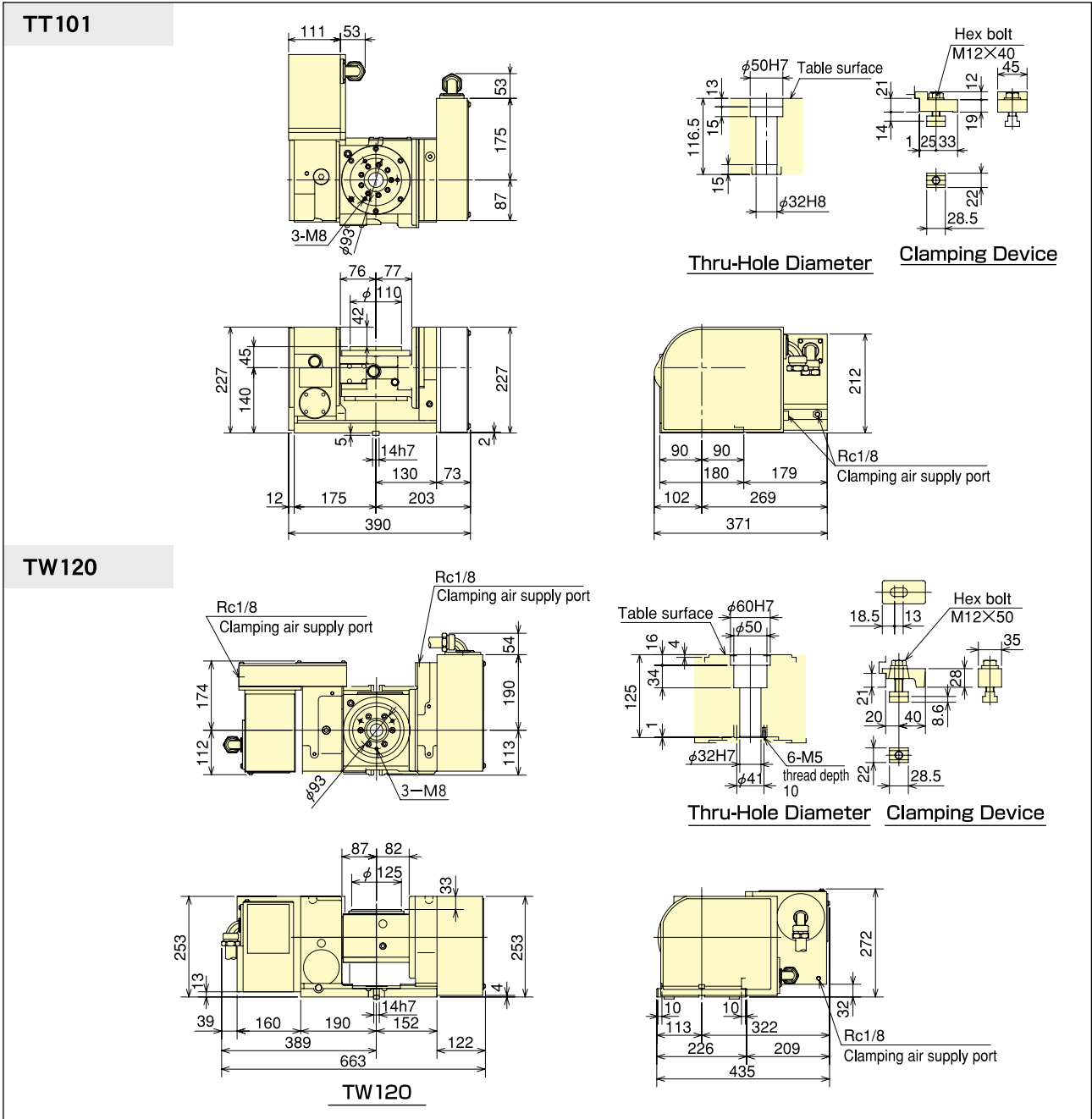


TW120

※The above dimensions are the same as FANUC spec.
Those dimensions may vary from motor to motor that is mounted.

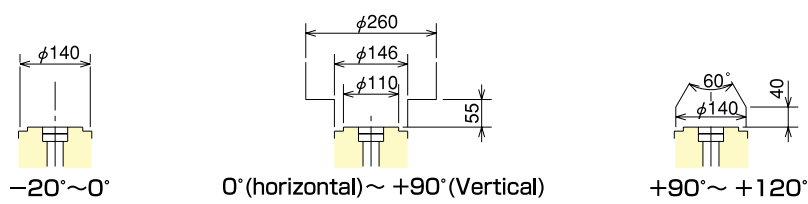
■Dimensions [Kitagawa own controller]

*The dimensions may vary from motor to motor that is mounted.



DATA Tilting NC table • Work loadable area

TT101



TW120

