



Turning Tilting NC Rotary Table

TDR380

Featuring a high-speed rotary table with a maximum speed of 1,500 min⁻¹ and a tilting axis with a Roller Gear Cam mechanism, the TDR380 enables turning, contour machining and 5-axis indexing machining in a single unit.



- High sealing performance prevents cutting fluid ingress into the unit
- High-rigidity bearings and clamping on both sides of the tilting axis deliver stable, high-precision machining
- Chiller-free operation, thanks to the low heat-generation design and cooling by cutting fluid
- Long-life rotary joint fitted as standard (Hydraulic/Pneumatic: 2 ports + Pneumatic: 1 port)

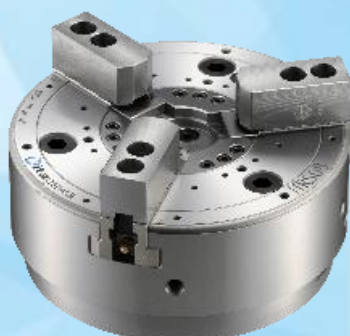
Compatible Chucks



Independent Chuck
IC Series



Scroll Chuck
JN_T Series



High-Speed Power Chuck
with Integrated Cylinder
HRS Series



Examples of
Machined Workpieces (Images)

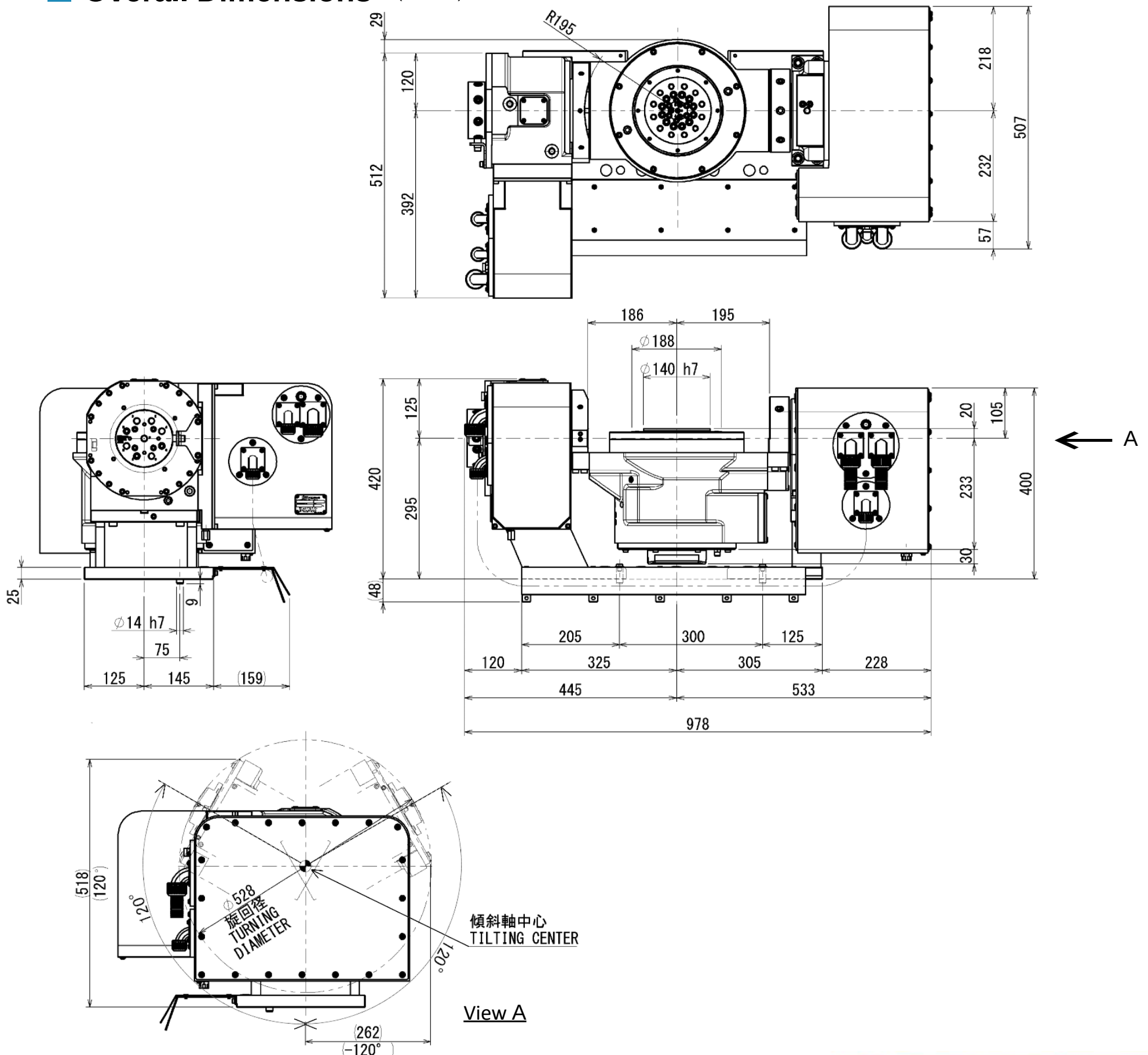


Specifications

Tilting angle	Table diameter	Centre height in vertical position	Clamping method	Clamping torque (at 0.5 MPa air pressure)		Servo motor (FANUC)		Reduction ratio		Maximum rotation speed	
	mm	mm		Rotary axis	Tilting axis	Rotary axis	Tilting axis	Rotary axis	Tilting axis	Rotary axis	Tilting axis
				N·m	N·m					min ⁻¹	min ⁻¹
-120° to +120°	Ø140	295	Pneumatic	420	740	DiS 160/50/1500-D	αiS 12/3000-D	1/1	1/20	1500	70
Motor axis reduced inertia		Indexing accuracy		Repeatability		Product mass	Permissible workpiece mass		Maximum workpiece diameter	Permissible workpiece inertia (at maximum rotation speed)	
Rotary axis	Tilting axis	Rotary axis	Tilting axis	Rotary axis	Tilting axis		Horizontal position	Tilted position			
kg·m ²	kg·m ²	sec	sec	sec	sec		kg	kg			
0.05725	0.00565	16	30	4	4	290	50	50	Ø380	0.4	

Note: The permissible workpiece inertia increases as the rotation speed decreases. Please contact us for further details.

Overall Dimensions (Unit: mm)



Kitagawa product technical information is available on the Kitagawa Web Showroom.
<https://prod.kiw.co.jp/exhibition/mttools/en/>



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WHS WORKHOLDING SOLUTIONS

● Product specifications and appearance are subject to change without notice due to ongoing research and development.

● The colour of the actual product may differ slightly from that shown in this catalogue due to printing processes.

● Catalogue information is current as of September 2026.

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