

5-Axis Machine ROBODRILL

α -D LiB5_{ADV} **Plus** Y500 series



Roller gear & cam
mechanism NC rotary table

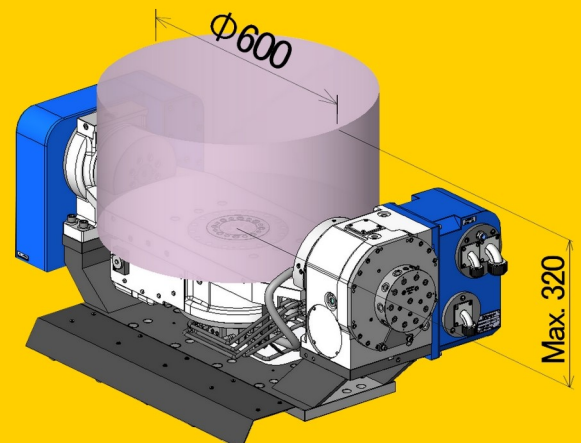
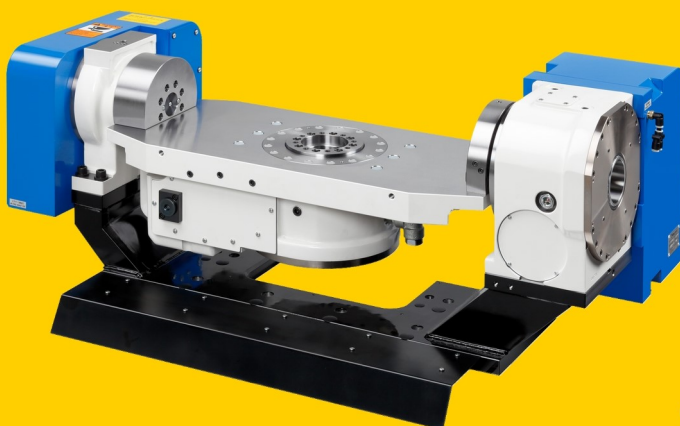
RKT600

By integrating into the α -D14/21/28LiB5_{ADV}Plus Y500 machining equipment, processing can be carried out without stroke limitations.

Compatible with the installation of an 11-port rotary joint (10 pneumatic/hydraulic ports + 1 coolant port).



Consolidation of machining processes for large aluminium workpieces using a tilting NC rotary table equipped with a roller gear cam mechanism



Capable up to $\Phi 600 \times H 320 \text{ mm}$ workpieces

Specifications

Tilting angle	Table diameter mm	Centre hole diameter mm	Through hole diameter mm	Centre height mm	Clamping torque		Allowable pressure MPa	Motor axis reduced inertia		Servo motor	
					Rotating axis N·m	Tilting axis N·m		Rotating axis kg·m ²	Tilting axis kg·m ²	Rotating axis	Tilting axis
-120° ~ +120°	φ 134	φ 80	φ 70	310	600	740	0.7	0.00032	0.0028	αiS 4/5000-B	βiS 8/3000-B

Total reduction ratio		Max. rotation speed		Allowable work inertia kg·m ²	Indexing accuracy		Repeatability		Allowable mass of work kg	Max. work diameter mm	Mass of product kg
Rotating axis	Tilting axis	Rotating axis min ⁻¹	Tilting axis min ⁻¹		Rotating axis sec	Tilting axis sec	Rotating axis sec	Tilting axis sec			
1/50	1/30	※1 80 (60)	※2 50 (33)	1.8	30	30	4	4	100	600	296

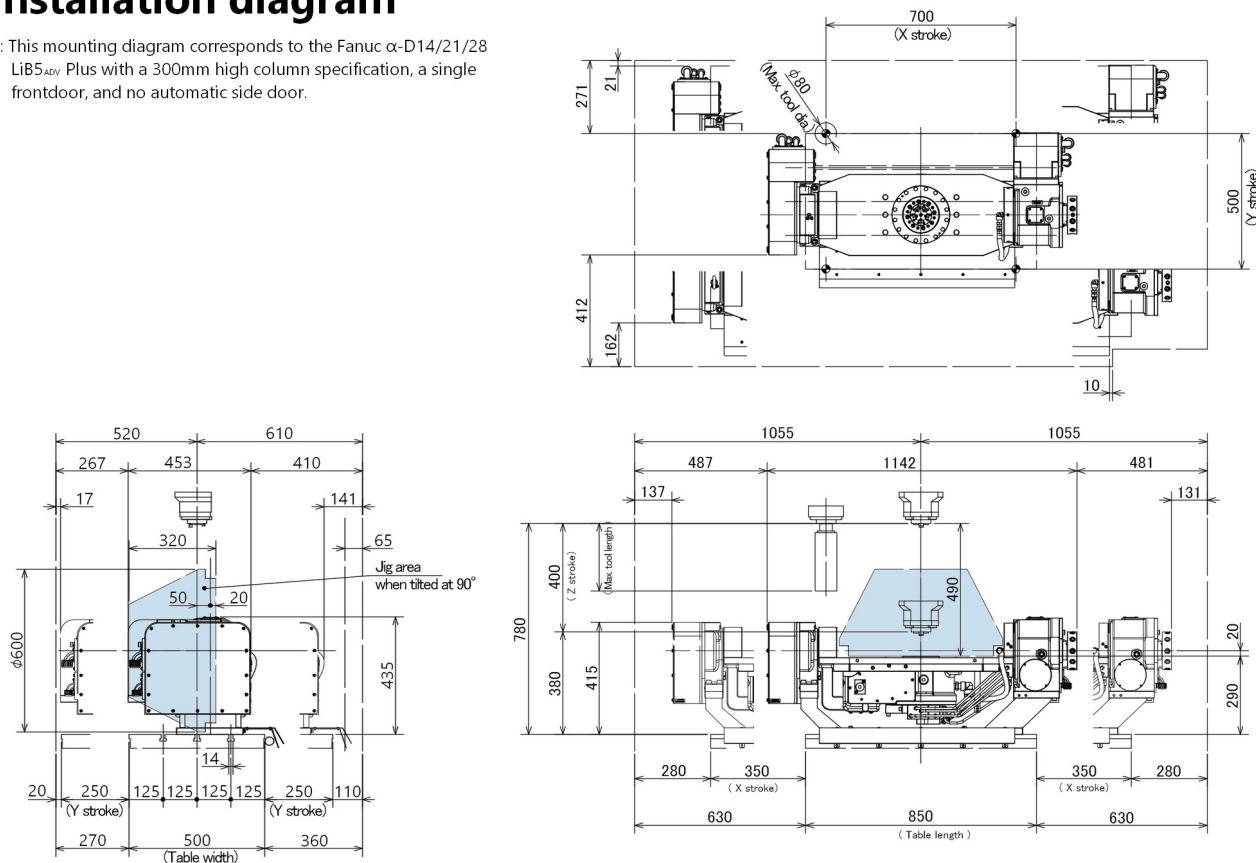
※1 When the eccentric torque of work piece is more than 50 Nm, max. rotating speed of the rotating axis becomes the value in ().

※2 When the workpiece mass is more than 50 kg, max. rotating speed of the tilting axis becomes the value in ().

※3 Clamping torques above are at pneumatic pressure of 0.5 MPa.

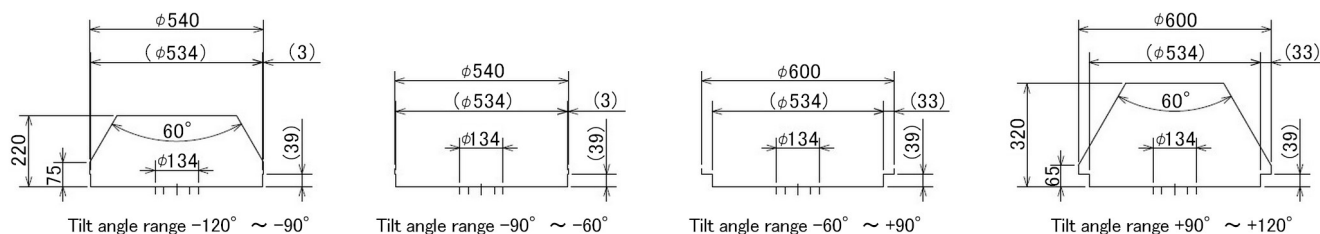
Installation diagram

Note: This mounting diagram corresponds to the Fanuc α-D14/21/28 LiB5_{ADV} Plus with a 300mm high column specification, a single frontdoor, and no automatic side door.



Work loadable area

The loadable area shown here is that of the RKT600, which is mounted 50mm offset towards the operator side and inclined towards the column side on a FANUC ROBODRILL α-D28LiB5 ADV Plus Y500 300mm high column.



For technical information on Kitagawa products, visit the Kitagawa Web Showroom.
<https://prod.kiw.co.jp/exhibition/mtools/en>



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