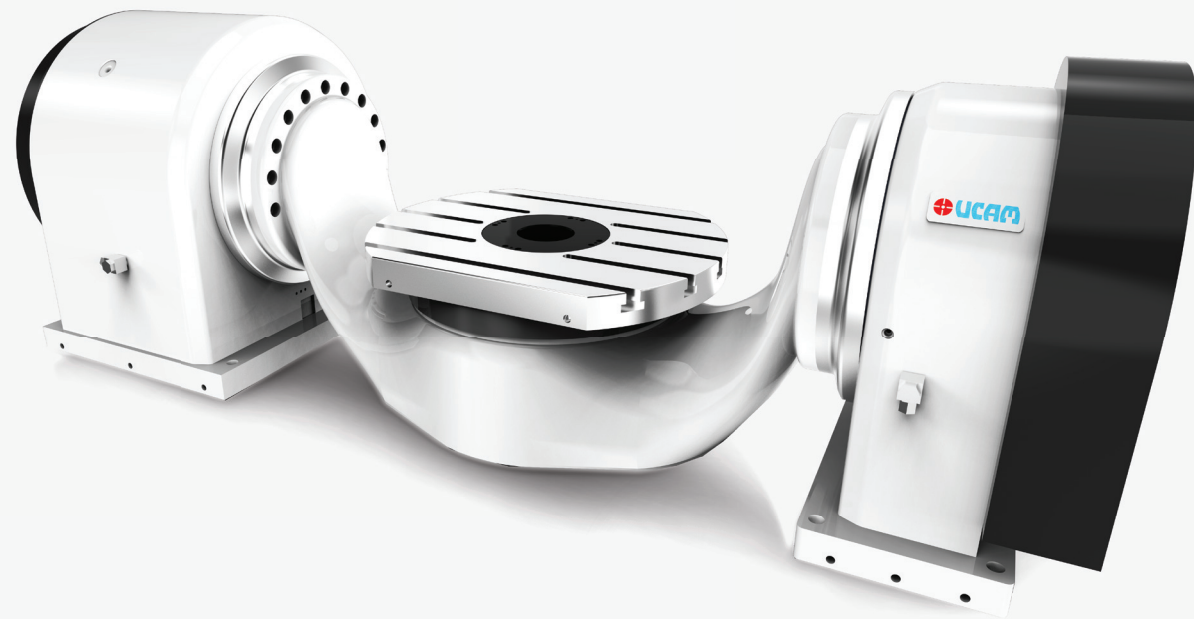


CNC Direct Drive Tilting Table



UCAM's Direct Drive Tilting Rotary tables are powered directly by high torque motors, eliminating the worm gear so as to ensure zero backlash. Ideal for applications requiring high acceleration/ deceleration.

Product Configuration



UDDR 450-TN-S-500

-  Dual Lead Worm Gear Mechanism
-  Applications in Profile Machining
-  Hydraulic Clamping for Axes
-  Compact 5 Axis Table
-  High Indexing Accuracy



UDDR 630-TN-S-850

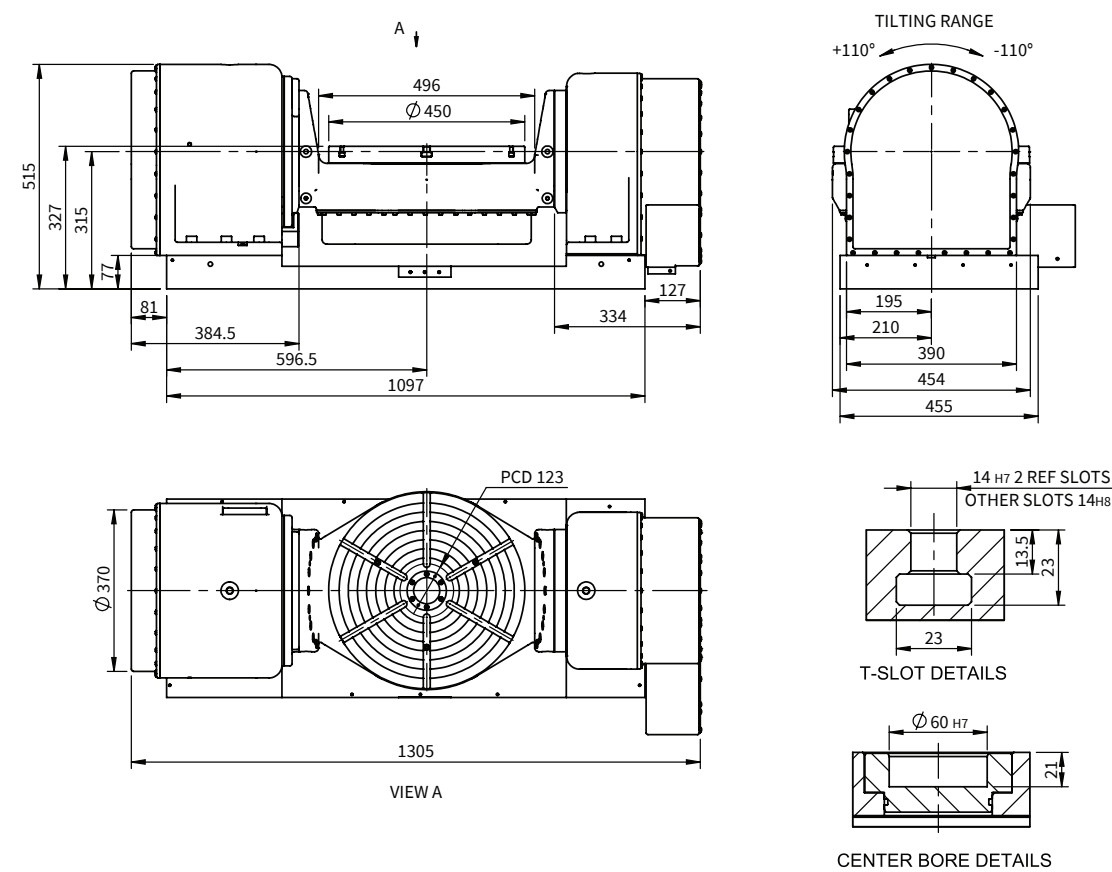
-  Direct Drive Mechanism - Rotary Axis
-  Dual Lead Worm Gear Mechanism - Tilt Axis
-  Applications in Profile Machining
-  Hydraulic Clamping for Axes
-  Compact 5 Axis Table
-  High Indexing Accuracy

Specifications

DIMENSION	UNITS	UDDR 450-TN-S-500	UDDR 630-TN-S-850
Turn Table Diameter	mm	Ø450	Ø630
Center Bore Diameter H7	mm	Ø60	Ø100
Swing		Ø496	Ø850
T-Slot Size-Reference Slots H7	mm	14 x 2 nos.	18 x 2 nos.
T-Slot Size-Other Slots H8	mm	14 x 6 nos.	14 x 6 nos.
OPERATIONAL DATA - ROTARY AXIS			
Continuous Torque #	Nm @ rpm	231 @ 120	360 @ 50
Peak Torque	Nm @ rpm	427 @ 120	930 @ 50
Table Maximum rpm	rpm	400	50
LOAD CAPACITY DATA - ROTARY AXIS			
Clamp Torque Hydraulic	Nm	1250	2500
Maximum Clamping Pressure	bar	40	30
Safety Clamp Torque	Nm	300	1100
CHILLER SPECIFICATIONS			
Chiller Flow	lpm	6.3	15
Pressure	bar	1	1
Maximum Continuous Power Dissipation	kW	2.3	16
Chiller Media	-		
ACCURACIES - ROTARY AXIS			
Indexing Accuracy*	Arc sec	±5"	±5"
Repeatability	Arc sec	4"	4"
OPERATIONAL DATA - TILT AXIS			
Continuous Torque #	Nm @ rpm	685 @ 60	1820 @ 30
Peak Torque	Nm @ rpm	1235 @ 60	3186 @ 30
Table Maximum rpm	rpm	150	30
LOAD CAPACITY DATA - TILT AXIS			
Clamp Torque Hydraulic	Nm	2500	5000
Maximum Clamping Pressure	bar	60	55
Safety Clamp Torque	Nm	600	2200
Tilting Range	deg	±110°	±120°
ACCURACIES			
Indexing Accuracy*	Arc sec	±7.5"	±7.5"
Repeatability	Arc sec	6"	6"
OVERALL WEIGHT			
Net Weight (Approx)	kg	700 (Without Base)	1460 (Without Base)

* Higher accuracy of ±5" on request with the aid of high resolution external encoder

UDDR 450-TN-S-500



UDDR 630-TN-S-850

