

Компания "**ИНТЕРТУЛМАШ**" - поставщик оборудования

UCAM в России.

UCAM – индийская компания, широко известная в сегменте точного вспомогательного оборудования для металлообрабатывающих станков. Особое место в производстве компании занимают поворотные столы и базы для прецизионной линейки.



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Indexing precisely for your productivity



Rotary Indexing
Solutions

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UCAM Today - Equipped for Tomorrow

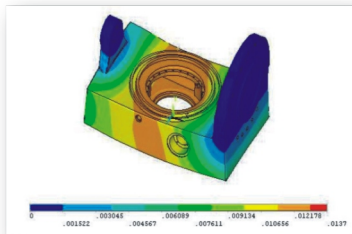
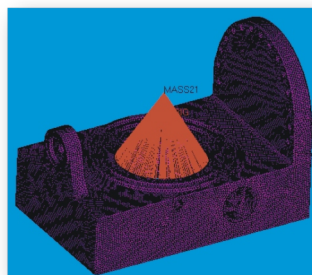
UCAM, an ISO 9001 Company, has been the leading manufacturer of high precision CNC Rotary Tables, Index Tables and Pallet Changing systems for CNC machining centers.

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Use of State of the Art, cutting edge technology, continuous product innovation and pro-active customer relation management has made UCAM a global brand in the machine tool industry.



Vibrant In-House Design - R&D Department



UCAM has independent Design and R&D departments. UCAM's inhouse R&D facility is recognised by the Department of Science and Industrial Research (DSIR) Govt of India. This R&D team constantly innovates and develops *CUSTOMER* focused cost effective solutions.

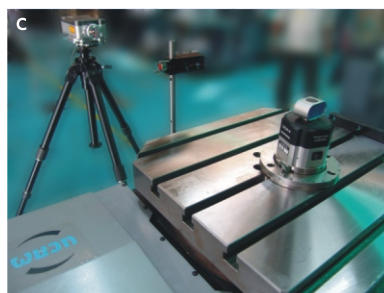
Modern Manufacturing Facility

State of the Art Manufacturing Facilities: (a)

- Horizontal Machining Centers
- Vertical Machining Centers
- CNC Universal Machining Centers
- CNC VTL
- CNC Surface Grinding Machines
- CNC Gear Hobbing Machines
- CNC Thread Grinding Machines

Test Facilities:

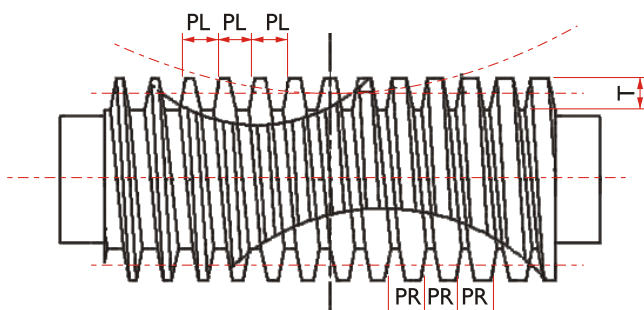
- 3 Coordinate Measuring System (b)
- Rotary Laser Calibration System (c)
- Indexing Accuracy test fixture
- Autocollimator
- Acceleration and Deceleration test equipment
- Tilting & Tangential moment test equipment
- Leak proof test set up
- Running test





UCAM Rotary Tables achieve high stiffness and rigidity through the use of Axial Radial Roller Bearing (RTB) and maintain high accuracy due to use of form corrected dual lead worm and worm wheel system

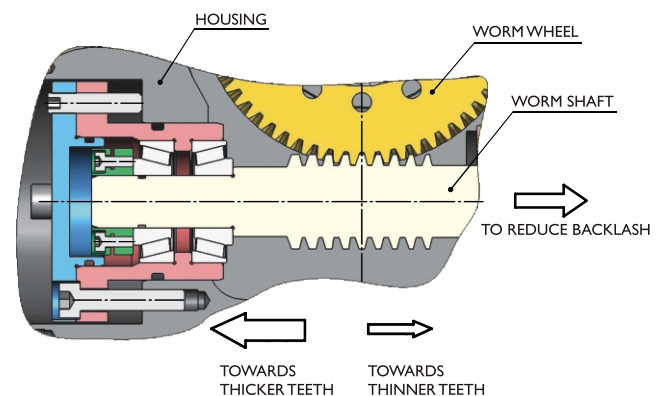
Dual Lead Worm (Duplex)



Axial Pitch - Right Flank = PR
 Axial Pitch - Left Flank = PL
 Tooth Height = T

- Two flanks of the worm shafts are ground with different lead, as a result of which worm shaft has thicker teeth on one end and thinner teeth on the other side.
- Worm shaft is form corrected for low pressure angle and higher tooth height (t) to provide high recess action, longer life and reduced noise.

Backlash Adjustment with Dual lead worm



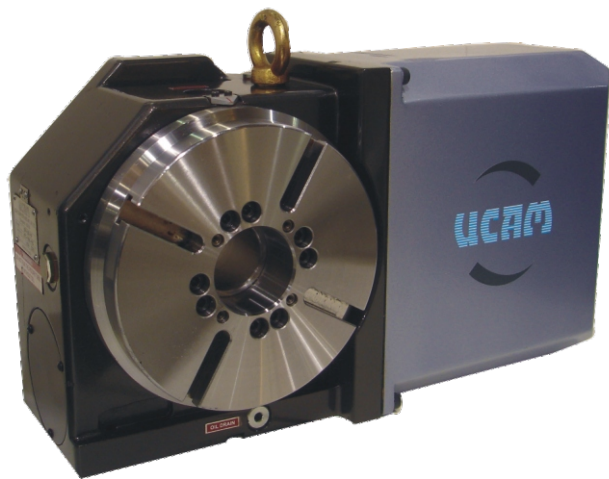
- Backlash is set easily by axial movement of the worm shaft without disturbing the crucial center distance and axial alignment of the worm and worm wheel.

Axial Radial Roller Bearing (RTB)

- European concept of bearing arrangement
- Specially designed for rotary table application
- Optimum axial and radial preload for high rigidity



CNC Rotary Table



Features:

- Pneumatic / Hydraulic Clamping
- High Grade C I Construction.
- Pre Loaded Axial Radial Roller Bearing.
- Gear Mechanism - Motor to Worm Shaft
- Dual Lead Worm Gear set.
- Motor Mounting & Drive Elements to suit Motor
- Vertical / Horizontal Mounting.

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Right hand motor mounting

Specification

Model		URH-150	URH-170	URH-201	URH-251
Turn Table diameter (mm)		Ø 150	Ø 170	Ø 200	Ø 250
Table Center height (mm)		105	135	140	160
Center Bore diameter (H7) (mm)		Ø 40	Ø 40	Ø 60	Ø 60
T-Slot size (mm)	Ref slots (H7)	10x2	12x1	12x2	12x2
	Other slots (H8)	10x2	12x2	12x2	12x6
Tenon Slot size (H7) (mm)		14	14	14	18
Servo Motor Torque (Nm)		2	3	3	6
Speed Reduction ratio		1:90	1:90	1:90	1:120
Table Gyration angle/pulse		0.001°	0.001°	0.001°	0.001°
Table Rotation speed (rpm)	(Motor 3000 rpm)	33.3	33.3	33.3	25
Load Capacity (Kgs)	Horizontal	100	200	300	350
	Vertical	60	100	150	180
	With tailstock support	100	200	300	350
Max. Thrust load (N)	Horizontal	8000	12000	14000	20000
	Vertical	2500	4500	5000	7000
Tilting moment (Nm)	Horizontal (FxL)	400	1000	1200	2000
	Vertical (FxL)	150	650	700	1300
Clamp Torque ^ (Nm)	Pneumatic @ 5 bar	150	200	250	400
	Hydraulic @ 30 bar	250	450	500	600
Driving Torque (Nm)		150	250	250	400
Allowable work Inertia	(Kg.m ²)	0.5	0.8	1.5	2.4
Indexing Accuracy * (Arc Sec)		±20"	±15"	±15"	±15"
Repeatability (Arc Sec)		4"	4"	4"	4"
Net Weight (Kgs) (approx)		39	45	60	100

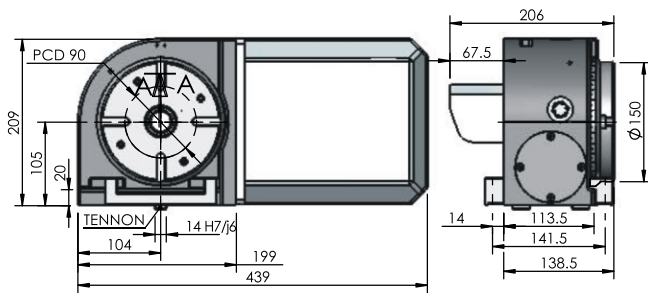
* Higher Accuracy ± 5" on request

^ Also available with Higher Clamp Torque

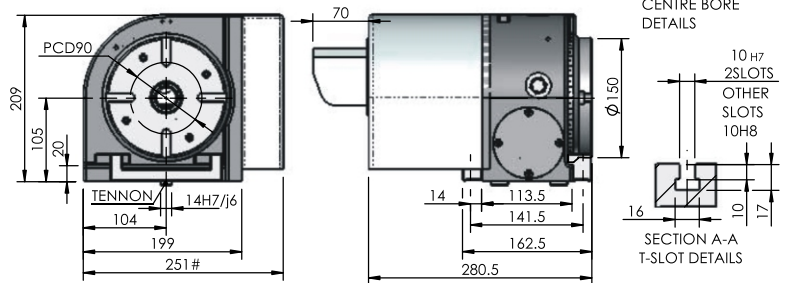
CNC Rotary Tables

Dimensional Diagrams

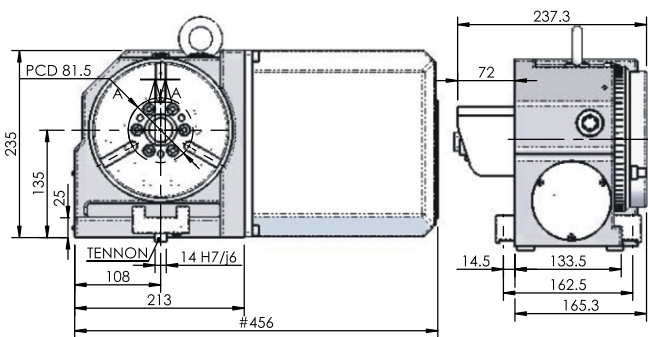
Model URH-150 (Right hand motor mounting)



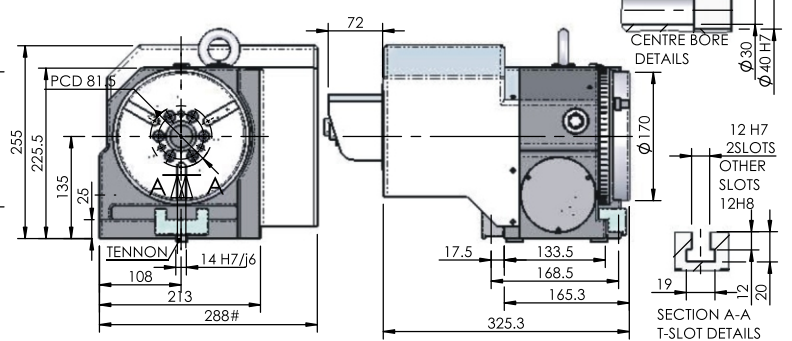
Model URH-150 (Rear motor mounting)



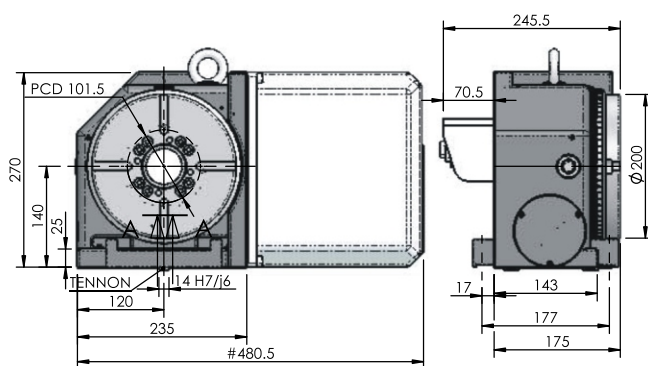
Model URH-170 (Right hand motor mounting)



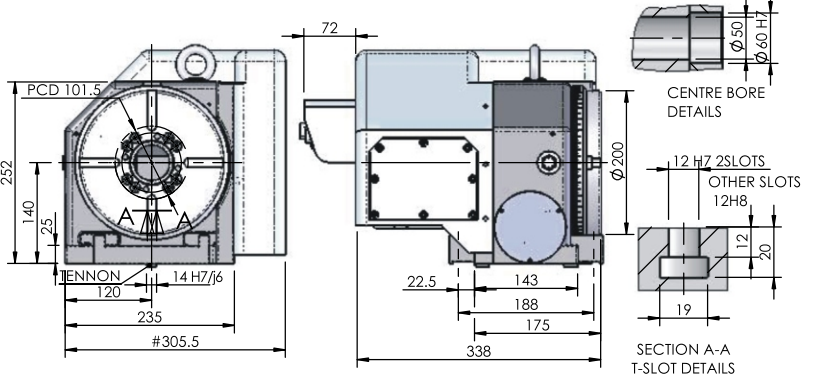
Model URH-170 (Rear motor mounting)



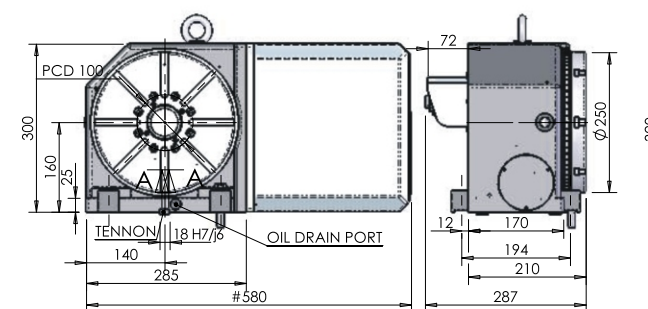
Model URH-201 (Right hand motor mounting)



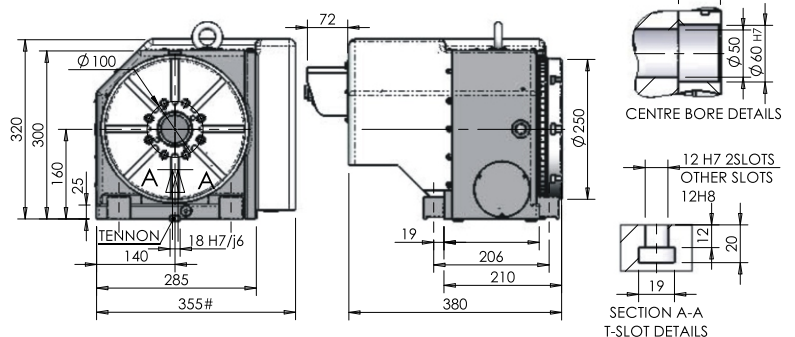
Model URH-201 (Rear motor mounting)



Model URH-251 (Right hand motor mounting)

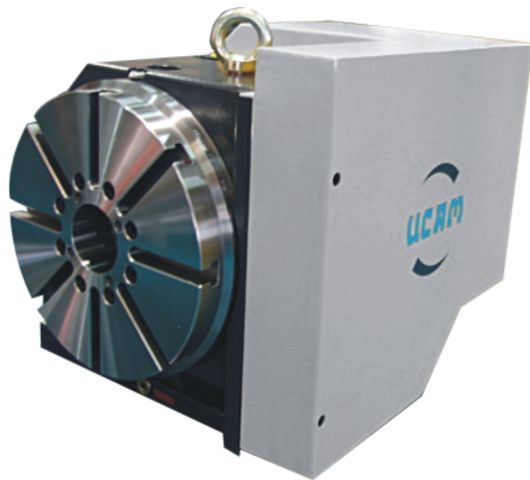


Model URH-251 (Rear motor mounting)



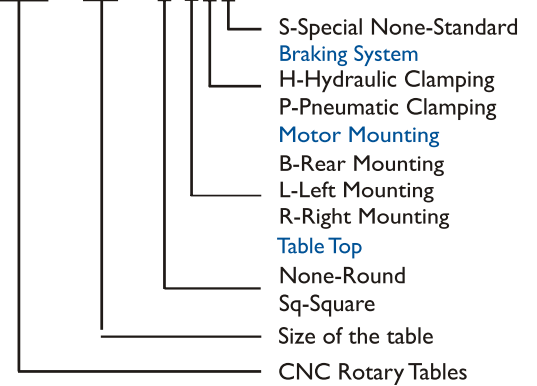
Dimension marked as # is dependent on motor being used

CNC Rotary Table



Ordering code for CNC Rotary Tables

URH - 500 - X-RPS



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Rear motor mounting

Specification

Model		URH-321	URH-401	URH-500	URH-631
Turn Table diameter (mm)		Ø 320	Ø 400	Ø 500	Ø 630
Table Center height (mm)		210	230	310	325
Center Bore diameter (H7) (mm)		Ø 100	Ø 100	Ø 100	Ø 100
T-Slot size (mm)	Ref slots (H7)	14x2	14x2	18x2	18x2
	Other slots (H8)	14x6	14x6	18x6	18x6
Tenon Slot size (H7) (mm)		18	18	18	22
Servo Motor Torque (Nm)		6	9	12	12
Speed Reduction ratio		1:144	1:180	1:144	1:180
Table Gyration angle/pulse		0.001°	0.001°	0.001°	0.001°
Table Rotation speed (rpm)	(Motor 3000 rpm)	20.83	16.66	13.88	11.1
Load Capacity (Kgs)	Horizontal	600	750	900	2200
	Vertical	250	350	400	500
	With tailstock support	600	750	900	2200
Max. Thrust load (N)	Horizontal	24000	30000	35000	40000
	Vertical	8500	10000	11000	12000
Tilting moment (Nm)	Horizontal (FxL)	3000	4500	6000	8000
	Vertical (FxL)	2000	2400	3000	3000
Clamp Torque ^ (Nm)	Hydraulic @ 30 bar	1100	2000	2750	3500
Driving Torque (Nm)		636	800	1000	1800
Allowable work Inertia	(Kg.m ²)	34	44	52	68
Indexing Accuracy * (Arc Sec)		±15"	±15"	±15"	±15"
Repeatability (Arc Sec)		4"	4"	4"	4"
Net Weight (Kgs) (approx)		200	250	470	675

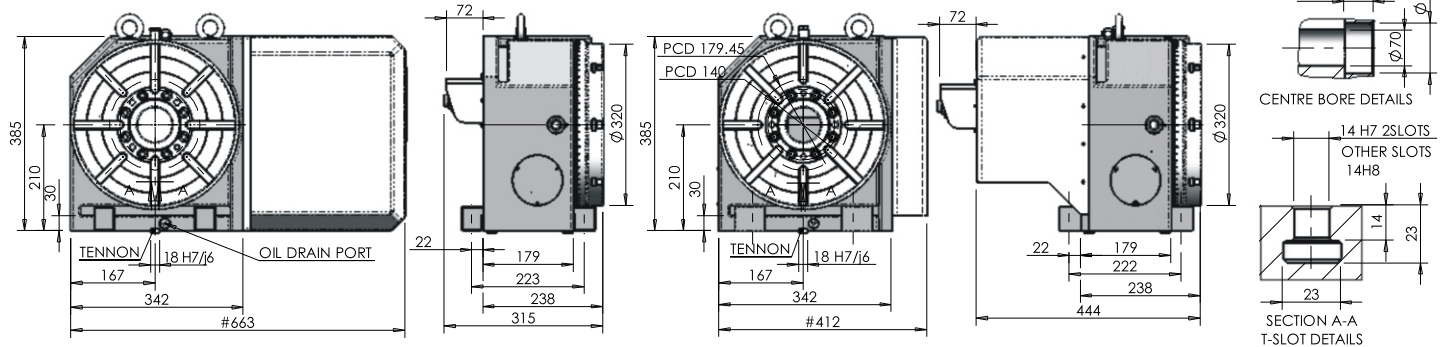
* Higher Accuracy ± 5" on request

^ Also available with Higher Clamp Torque

Dimensional Diagrams

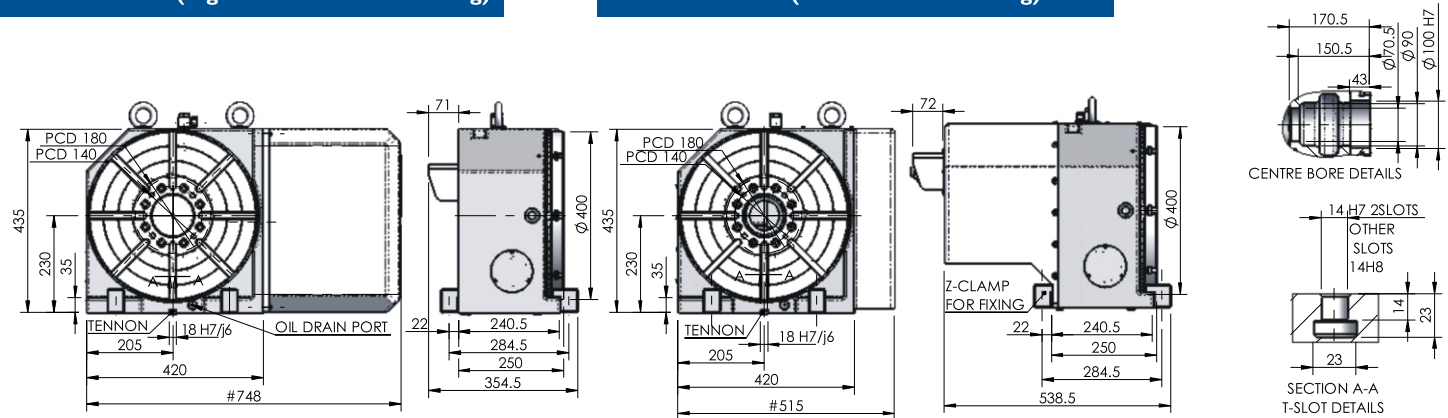
Model URH-321 (Right hand motor mounting)

Model URH-321 (Rear motor mounting)

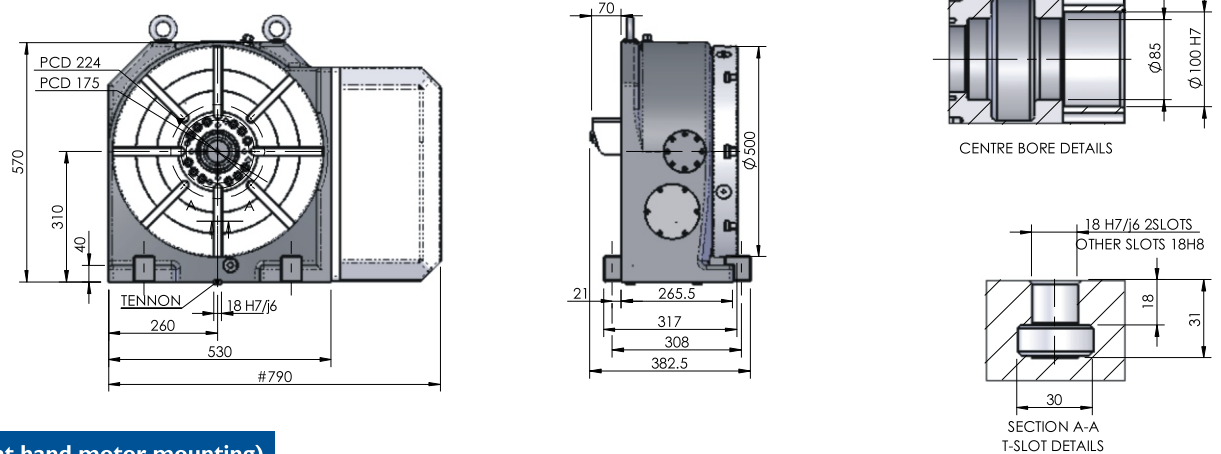


Model URH-401 (Right hand motor mounting)

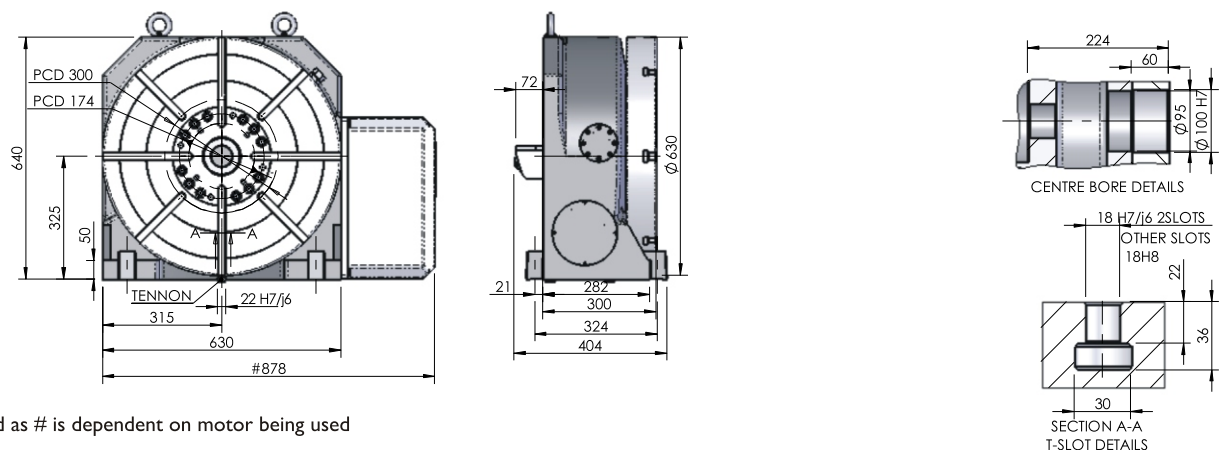
Model URH-401 (Rear motor mounting)



Model URH-501 (Right hand motor mounting)

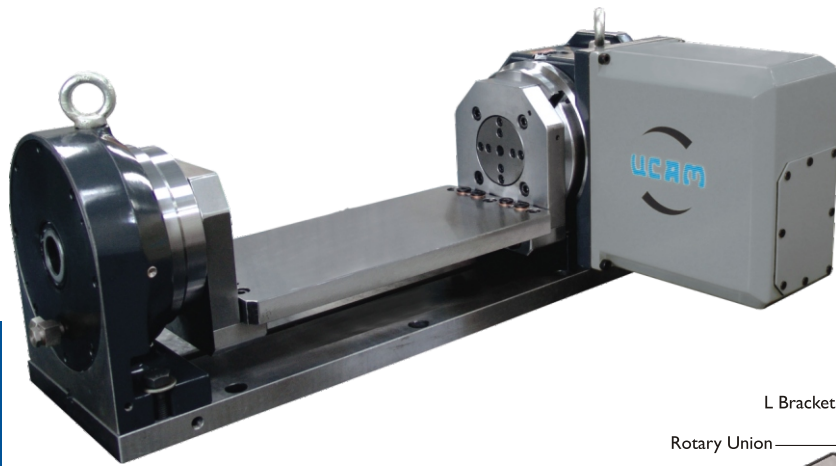


Model URH-631 (Right hand motor mounting)



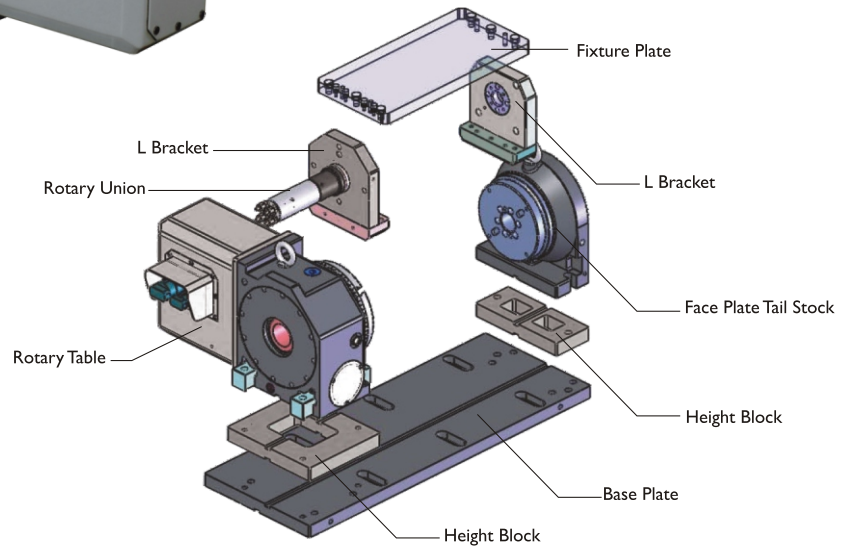
Dimension marked as # is dependent on motor being used

Rotary Production System



Features:

- Modular Concept Design
- Drop-in Rotary Union for power clamp
- Clamps can be used without plumbing



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Specification

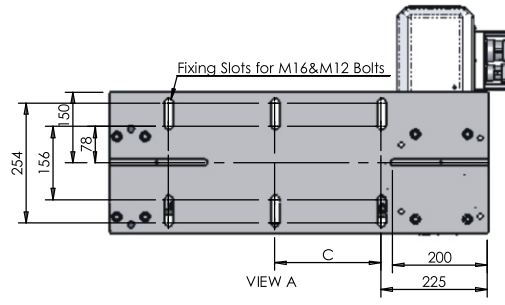
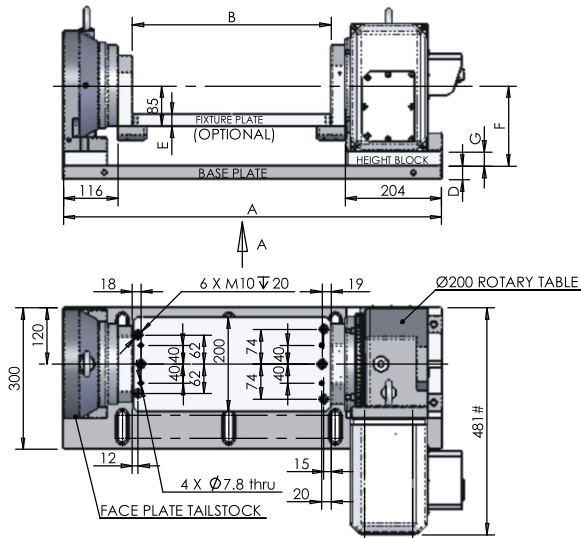
Model		URPS-201	URPS-251	URPS-321
Turn Table diameter (mm)		Ø 200	Ø 250	Ø 320
Turn Table diameter (mm)		140	160	210
Center Bore diameter (mm)		Ø 60	Ø 60	Ø 100
T-Slot size (mm)	Ref slots (H7)	12x2	12x2	14x2
	Other slots (H8)	12x2	12x6	14x6
Tenon Slot size (H7) (mm)		14	18	18
Servo Motor Torque (Nm)		4	6	8
Speed Reduction ratio	Rotary axis	1:90	1:120	1:144
Table Gyration angle/pulse		0.001°	0.001°	0.001°
Table Rotation speed (rpm)	(Motor 3000 rpm)	33.3	25	20.83
Load capacity (Kgs)	Horizontal	300	350	600
Max. Thrust load (N)	Horizontal	14000	20000	24000
Tilting moment (Nm)	Horizontal (FxL)	1200	2000	3000
Clamp Torque ^ (Nm)	Pneumatic @ 5bar	450	600	-
	Hydraulic @ 30 bar	950	1050	1700
Driving Torque (Nm)		250	400	636

^ Also available with Higher Clamp Torque

Rotary Production Systems

Dimensional Diagrams

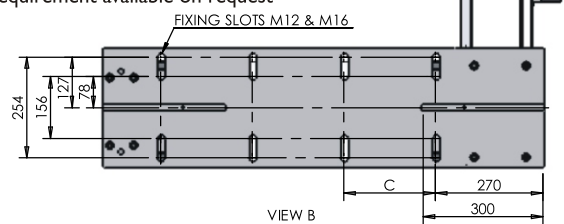
Model URPS-201



	A	B	C	D	E	Approx Wt.
Option I	700	320	175	28	25	166
Option II	800	420	225	28	25	177
Option III	900	520	275	28	25	190
Option IV	1000	620	275	28	25	200
Option V	1100	720	275	40	30	235
Option VI	1200	820	275	40	30	255

Height Block (optional)						
F	140	170	200	230		
G	0	30	60	90		

NOTE: Non standard options as per customer requirement available on request

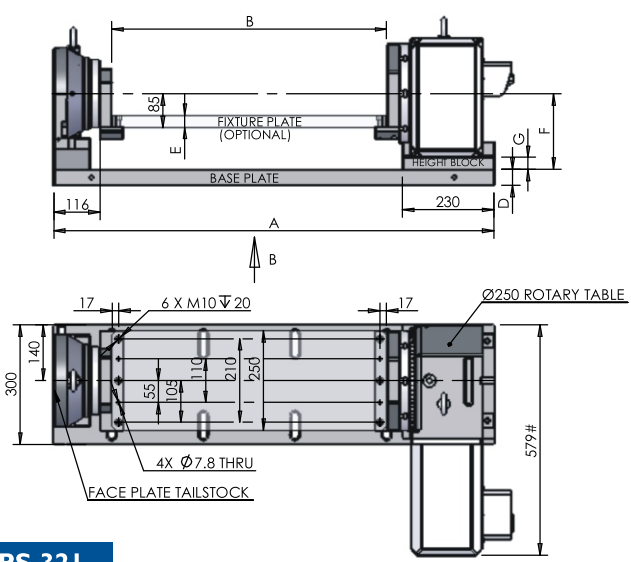


	A	B	C	D	E	Approx Wt. (kgs)
Option II	806	390	200	28	25	230
Option III	906	490	250	28	25	242
Option IV	1006	590	200	40	30	285
Option V	1106	690	230	40	30	300
Option VI	1206	790	250	40	30	315

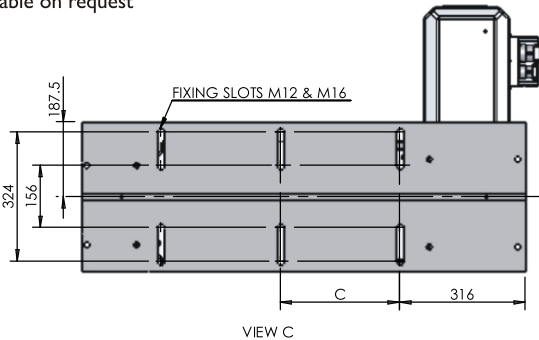
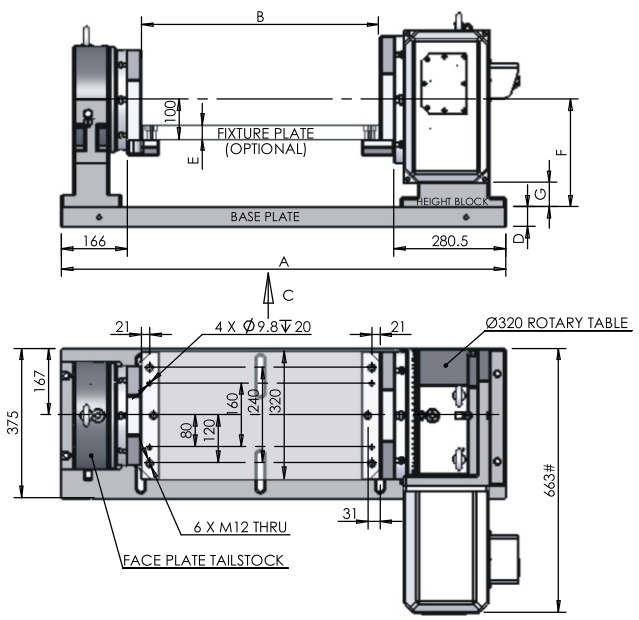
Height Block (optional)						
F	160	190	220	250		
G	0	30	60	90		

NOTE: Non standard options as per customer requirement available on request

Model URPS-251



Model URPS-321



	A	B	C	D	E	Approx Wt. (kgs)
Option V	1116	600	300	50	35	475
Option VI	1216	700	350	50	35	490
Option VII	1316	800	400	50	35	505

Height Block (optional)						
F	210	240	270	300		
G	0	30	60	90		

NOTE: Non Standard Options as per customer requirement available on request

Multi Spindle Rotary Table



Features:

- Rotary Spindles at close center distances.
- Compact Drive through AC Servomotor.
- Common wormshaft, yet independent backlash adjustment.

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Specification

Model	URH-125		URH-170	
	2S	3S	2S	3S
Turn Table diameter (mm)	Ø 125		Ø 170	
Table Center height (mm)	110		155	
Center Bore diameter (H7) (mm)	Ø 60		Ø 40	
Number of Spindles (Pitch-mm)	2,3(145)		2,3(200)	
T-Slot size (mm)	Ref slots (H7)		12x1	
	Other slots (H8)		12x2	
Tenon Slot size (H7) (mm)	14		14	
Servo Motor Toque (Nm)	2	3	6	
Speed Reduction ratio	1:90		1:90	
Table Gyration angle/pulse	0.001°		0.001°	
Table Rotation speed (rpm)	(Motor 3000 rpm)		33.3	
Load capacity (Kgs)	Horizontal	30	180	
	Vertical	15	80	
Max. Thrust load (N)	Horizontal	5000	12000	
	Vertical	1500	4500	
Tilting moment (Nm)	Horizontal (FxL)	200	1000	
	Vertical (FxL)	150	650	
Clamp Torque ^ (Nm)	Hydraulic 30 Bar	150	400	
	Pneumatic 7 Bar	60	175	
Driving Torque (Nm)			50	225
Indexing Accuracy * (Arc Sec)	±30"	±30"	±20"	
Repeatability (Arc Sec)	4"		4"	
Net Weight (Kgs) (approx)	75	100	130	160

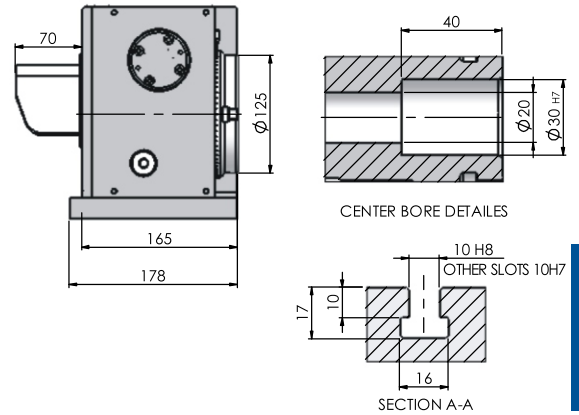
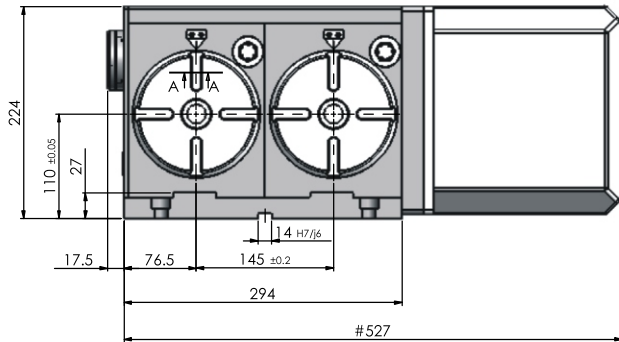
* Higher Accuracy ± 5" on request

^ Also available with Higher Clamp Torque

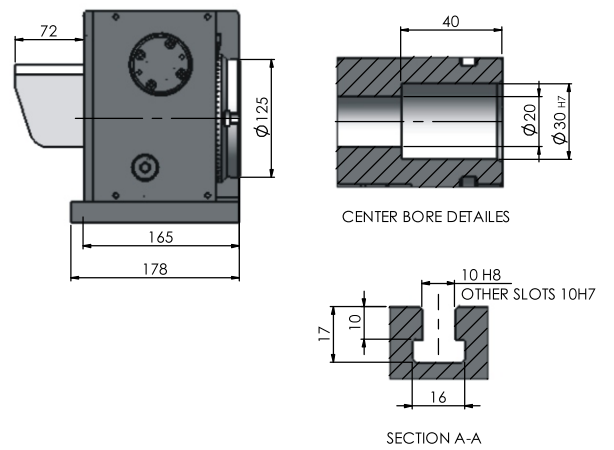
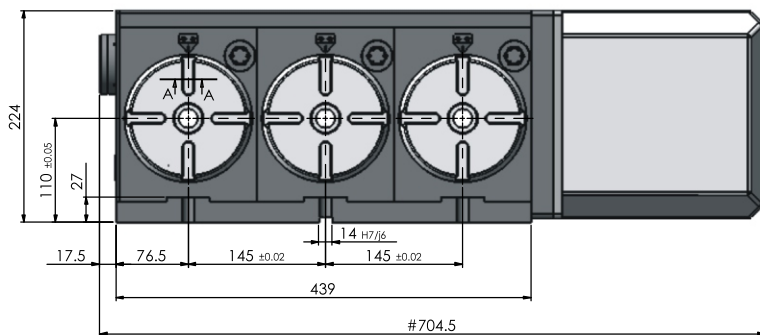
Multi Spindle Rotary Tables

Dimensional Diagrams

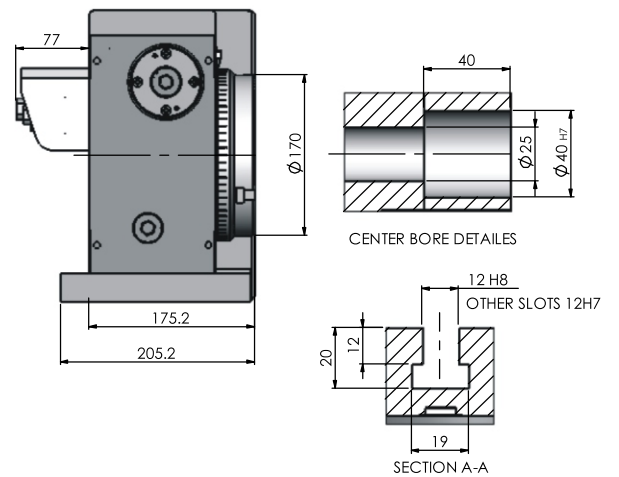
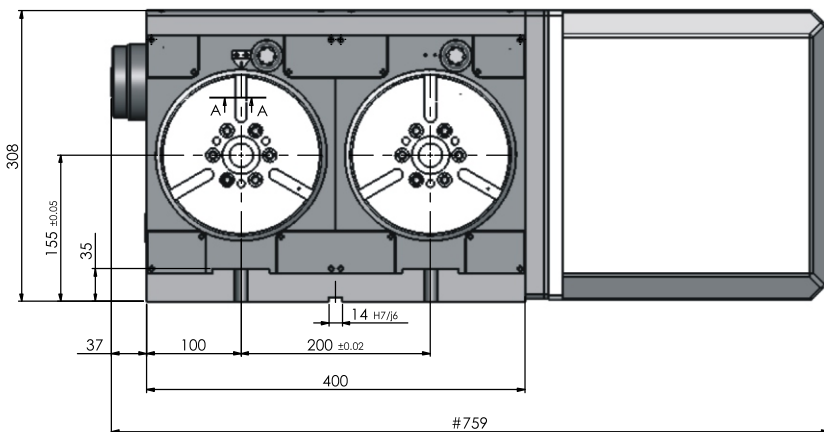
Model URH-125-2S



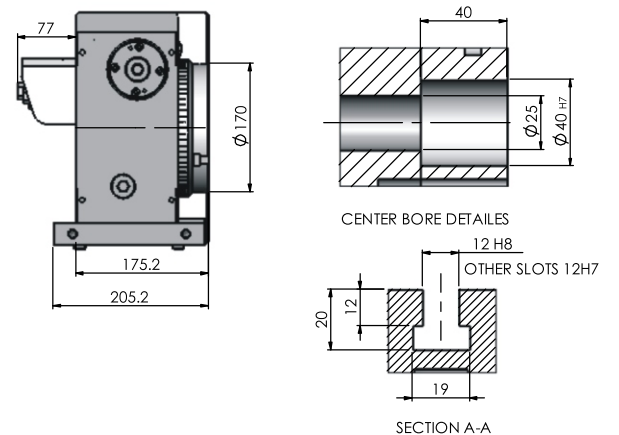
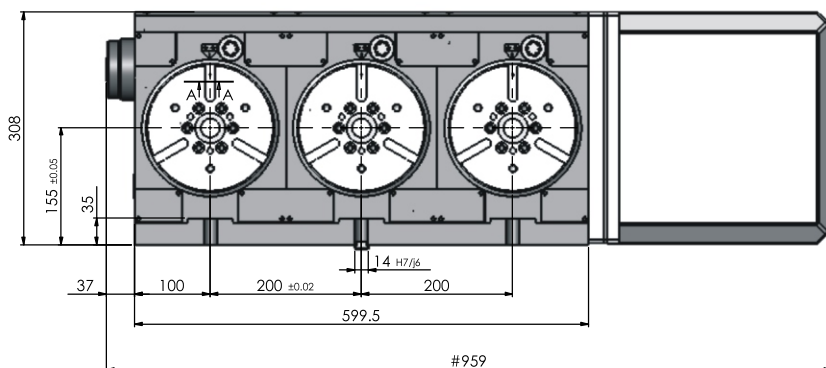
Model URH-125-3S



Model URH-170-2S

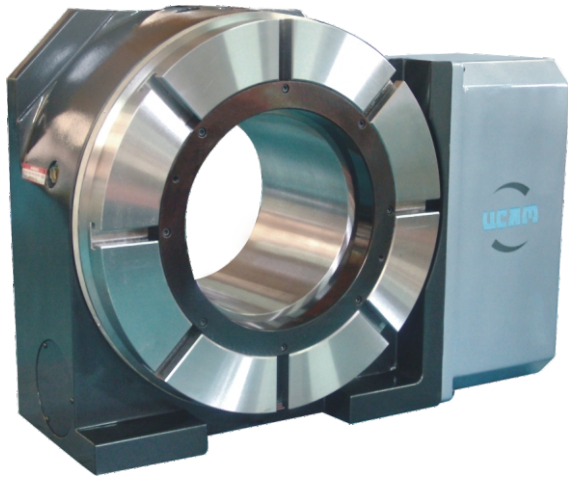


Model URH-170-3S



Dimension Marked as '#' is Dependent on Motor being used

Large Bore Rotary Table













Features:

- Hydraulic Clamping
- High Grade C I Construction.
- Dual Lead Worm Gear Set.
- Motor Mounting & Drive elements to suit Motor
- Vertical / Horizontal Mounting.

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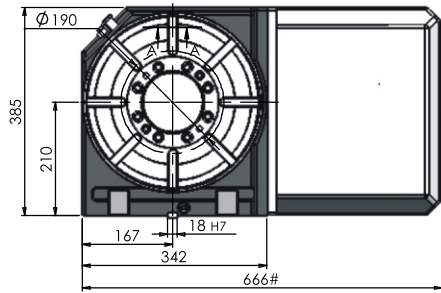
Specification

Model		ULBR-320	ULBR-400	ULBR-500	ULBR-630	ULBR-800
Turn Table diameter (mm)		Ø 320	Ø 400	Ø 500	Ø 630	Ø 800
Table Center height (mm)		210	230	290	350	440
Center Bore diameter (H7) (mm)		Ø 115	Ø 150	Ø 280	Ø 350	Ø 260
Thru Bore (mm)		Ø 110	Ø 140	Ø 270	Ø 340	Ø 254
T-Slot size (mm)	Ref slots (H7)	14x2	14x2	18x2	18x2	18x2
	Other slots (H8)	14x6	14x6	18x6	18x6	18x6
Tenon Slot size (H7) (mm)		18	18	18	22	22
Servo Motor Torque (Nm)		6	9	12	12	16
Speed Reduction ratio		1:144	1:180	1:144	1:180	1:300
Table Gyration angle/pulse		0.001°	0.001°	0.001°	0.001°	0.001°
Table Rotation speed (rpm)	(Motor 3000 rpm)	20.83	16.66	13.88	11.1	6.6
Load capacity (Kgs)	Horizontal 	600	750	1200	1300	3000
	Vertical 	250	350	500	635	1200
	With tailstock support 	600	750	1200	1300	3000
Max. Thrust load (N)	Horizontal 	24000	30000	30000	34000	40000
	Vertical 	8500	10000	9350	10000	20000
Tilting moment (Nm)	Horizontal (FxL) 	3000	4500	5000	6800	10000
	Vertical (FxL) 	2000	2400	2500	2900	5000
Clamp Torque (Nm)	Hydraulic @ 30 bar 	1100	2000	2300	2700	3500
Driving Torque (Nm)		636	800	1000	1800	2200
Allowable work Inertia	(Kg.m ²) 	34	44	52	70	110
Indexing Accuracy(Arc Sec)		±15"	±15"	±15"	±15"	±15"
Repeatability (Arc Sec)		4"	4"	4"	4"	4"
Net Weight (Kgs) (approx)		200	250	500	675	1300

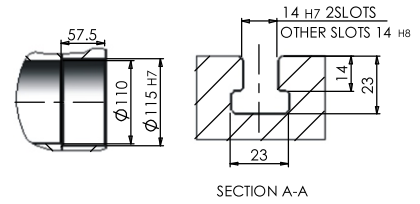
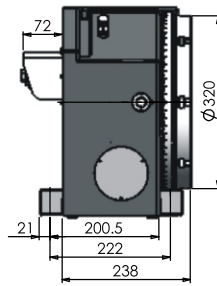
Larger thru bore size available on request

Large Bore Rotary Tables

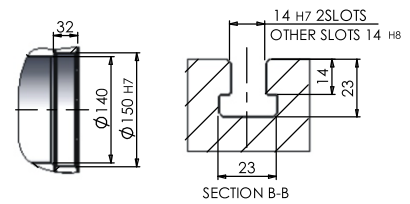
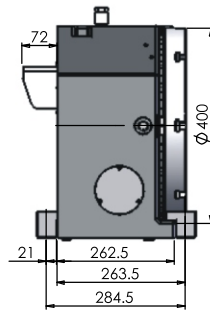
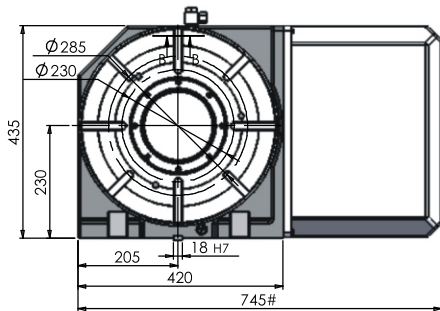
Model ULBR-320



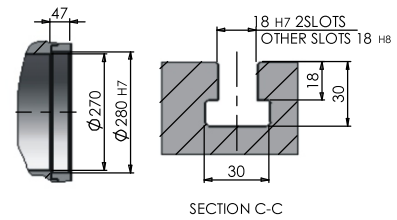
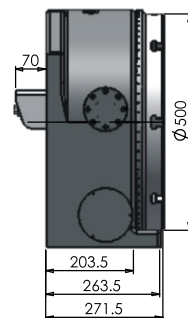
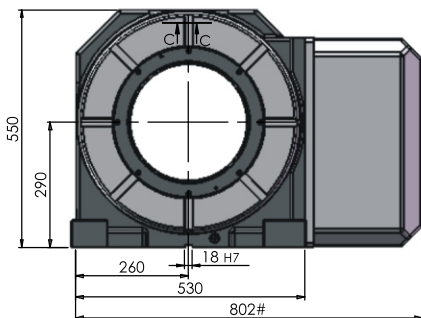
Dimensional Diagrams



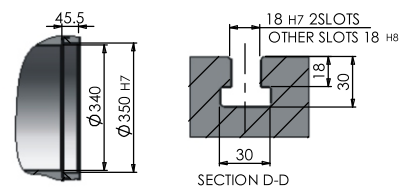
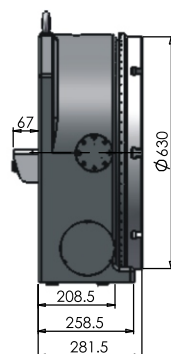
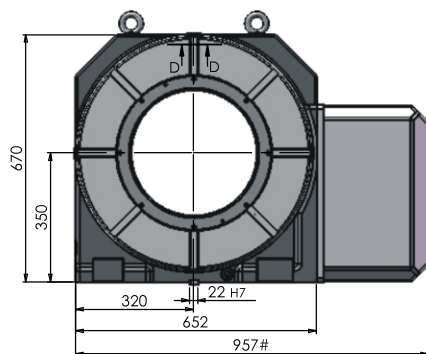
Model ULBR-400



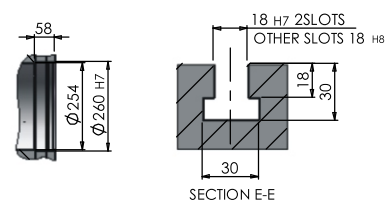
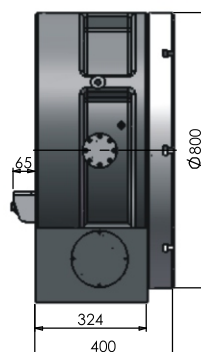
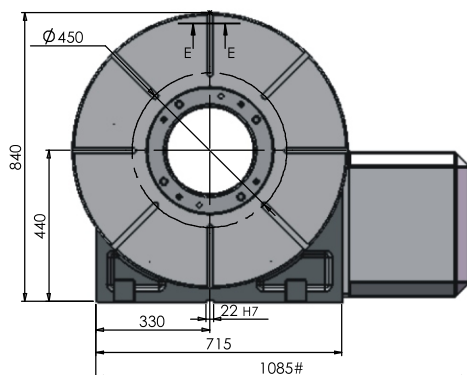
Model ULBR-500



Model ULBR-630



Model ULBR-800



Dimension marked as # is dependent on motor being used

Direct Drive Rotary Table



Features:

- Dynamic Performance
- Higher Acceleration / Deceleration
- Higher RPM
- Zero Backlash
- Pre Loaded Axial Radial Roller Bearing
- Direct Measurement for Precision Positioning

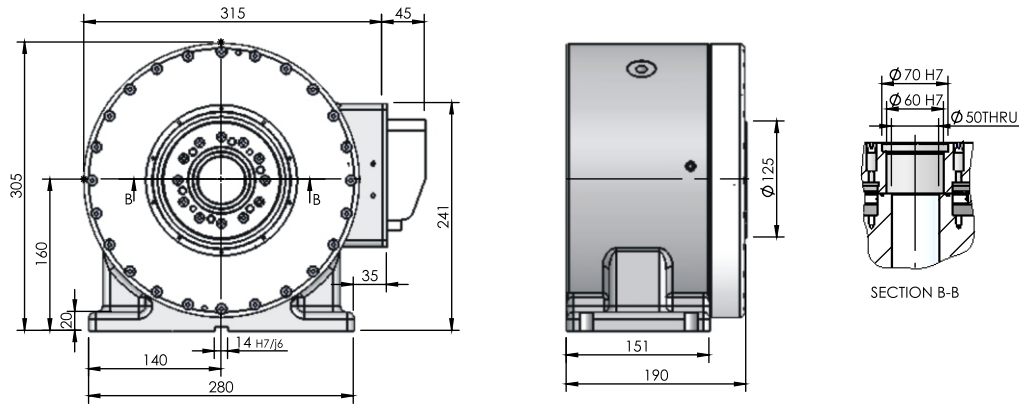
16

Specification

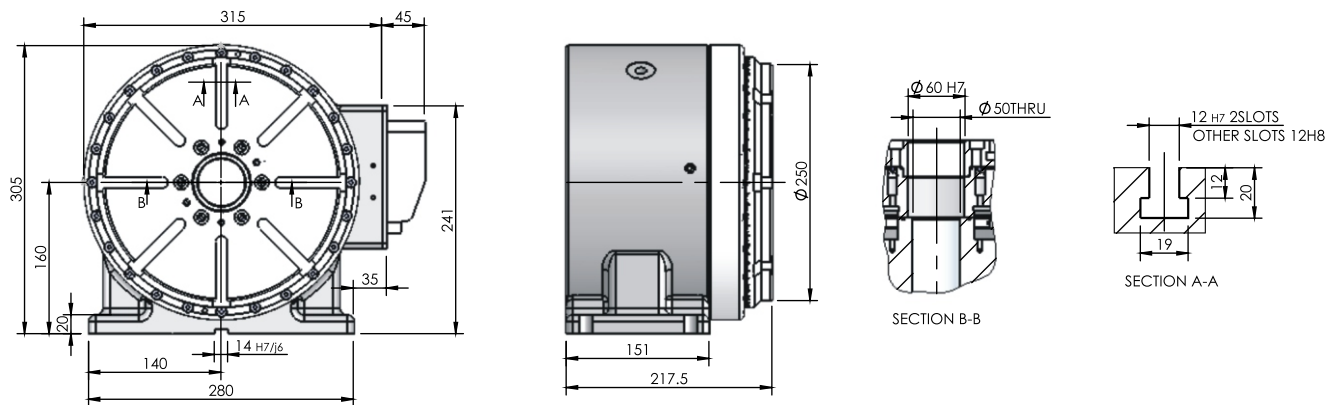
	VMC Application		HMC Application
	UDDR-T 200 / 100	UDDR-T 200 / 100 With Table Top	UDDR-T 900/ 500 H
Model			
Turn Table diameter (mm)	-	Ø 250	Ø 500
Table Center height (mm)	160		-
Center Bore diameter (H7) (mm)	Ø 60		-
Thru Bore diameter (H7) (mm)	Ø50		-
Tenon Slot size (H7) (mm)	14		-
Table Gyration angle/pulse	0.001°		0.001°
Clamp Torque (Nm)	650 (Pneumatic @ 5 bar)		2750 (Hydraulic @ 30 bar)
Table Rotation speed (rpm)	200		150
Safe load on the Rotary table (max) (kgs)	100		900
Max.Thrust load (N)	4500		35000
Tilting moment – (FxL) (Nm)	650		6000
Indexing Accuracy (Arc Sec)	±10"		±5"
Repeatability (Arc Sec)	4"		4"
Net Weight (Kgs) (approx)	90		550

Dimensional Diagrams

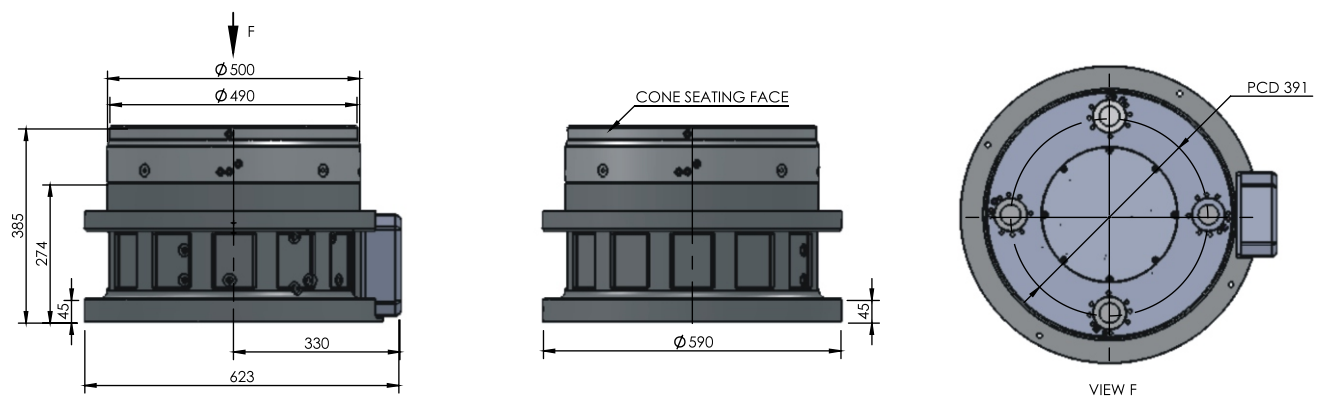
Model UDDR-T 200/100 (without table top)



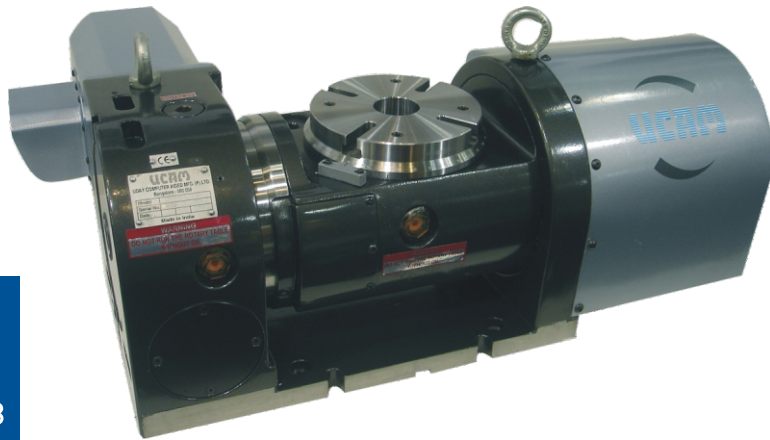
Model UDDR-T 200/100 (with table top of $\varnothing 250$)



Model UDDR-T 900/500H



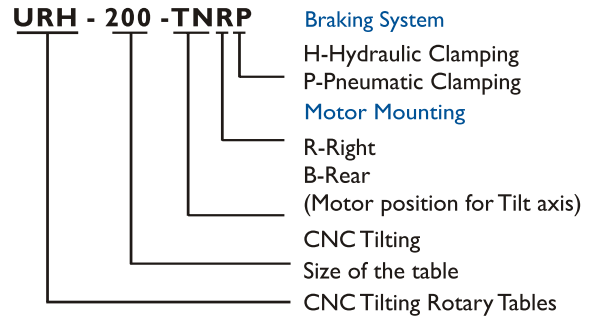
CNC Tilting Rotary Table



Features:






- Pneumatic / Hydraulic Clamping
- High Grade C I Construction
- Pre Loaded Axial Radial Roller Bearing.
- Dual Lead Worm Gearset.

Ordering code for CNC Rotary Tables



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Specification

Model		URH152TN	URH200TN	ULSR200TN	URH250TN	URH320TN
Turn Table diameter (mm)		Ø 150	Ø 200	Ø 200	Ø 250	Ø 320
Swing (mm)		Ø 190	Ø 200	Ø 400	Ø 250	Ø 320
Center Bore diameter (H7) (mm)		Ø 40	Ø 60	Ø 60	Ø 60	Ø 100
T-Slot size (mm)	Ref slots (H7)	10x2	12x2	12x2	12x2	14x2
	Other slots (H8)	10x2	12x2	12x6	12x6	14x6
Tenon Slot size (H7) (mm)		14	14	14	18	18
Servo Motor Torque (Nm)	Rotary axis	2	3	3	6	6
	Tilting axis	2	3	6	8	8
Speed Reduction ratio	Rotary axis	1:90	1:90	1:120	1:120	1:180
	Tilting axis	1:90	1:90	1:90	1:90	1:90
Table Gyration angle/pulse		0.001°	0.001°	0.001°	0.001°	0.001°
Table Rotation speed (rpm) (Motor 3000 rpm)	Rotary axis	33.3	33.3	25	25	16.66
	Tilting axis	33.3	33.3	33.3	33.3	33.3
Load capacity (Kgs)	Horizontal 	35	80	80	120	200
	Vertical 	20	45	45	70	100
Clamp Torque (Nm) Hydraulic 30 bar	Rotary axis 	300	500	500	600	1100
	Tilting axis	300	500	500	950	1100
Clamp Torque ^ (Nm) Pneumatic 5 bar	Rotary axis 	100	250	250	400	-
	Tilting axis	100	250	250	500	-
Driving Torque (Nm)		100	250	250	400	750
Indexing Accuracy* (Arc Sec)	Rotary axis	±30"	±15"	±15"	±15"	±15"
	Tilting axis	±45"	±30"	±30"	±30"	±30"
Repeatability (Arc Sec)		4"	4"	4"	4"	4"
Tilting angle (Degree)		-110 to +110	-20 to +110	-110 to +110	-20 to +110	-20 to +110
Net Weight (Kgs) (approx)		75	170	250	275	350

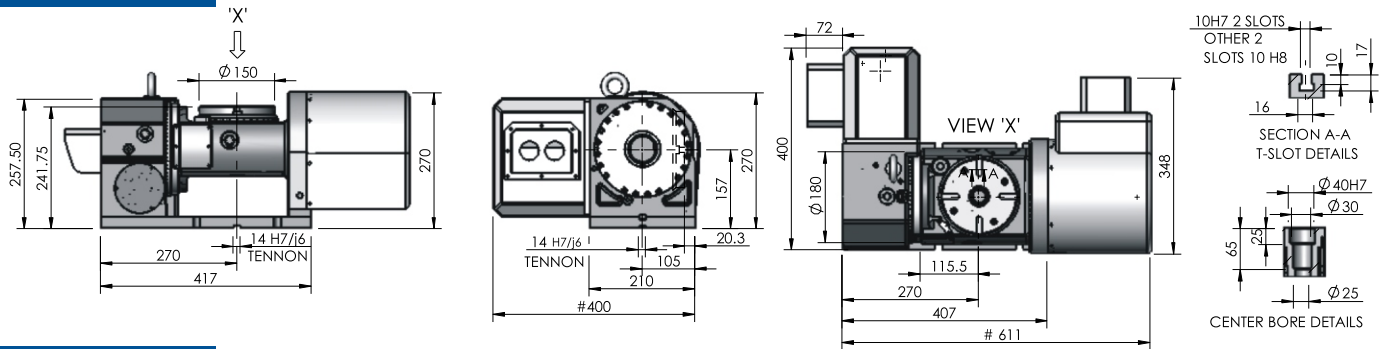
* Higher Accuracy ± 5" on Request

^ Also available with Higher Clamp Torque

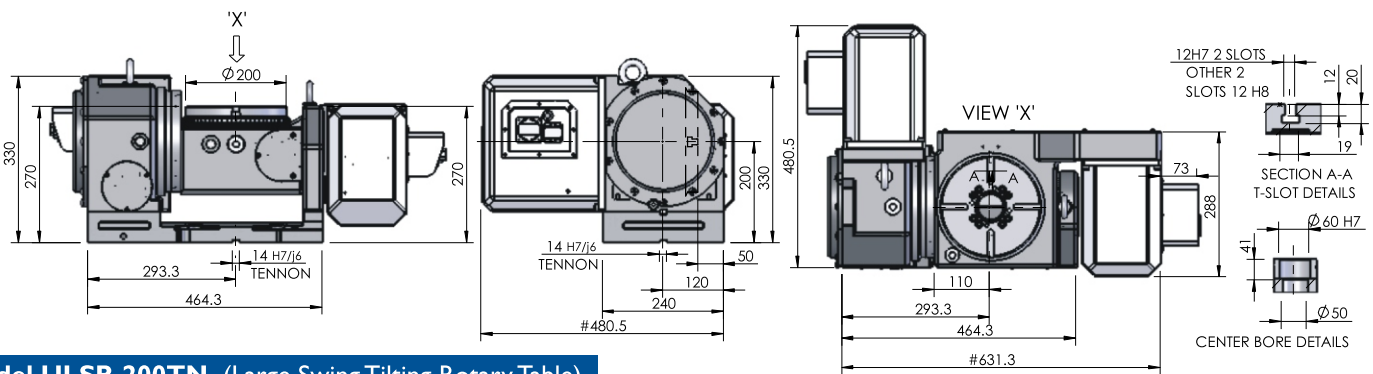
CNC Tilting Rotary Tables

Dimensional Diagrams

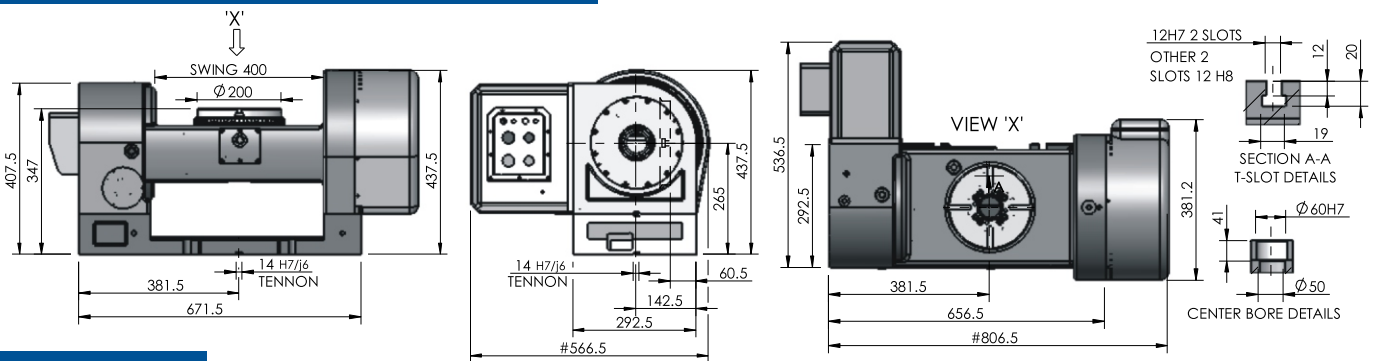
Model URH-152TN



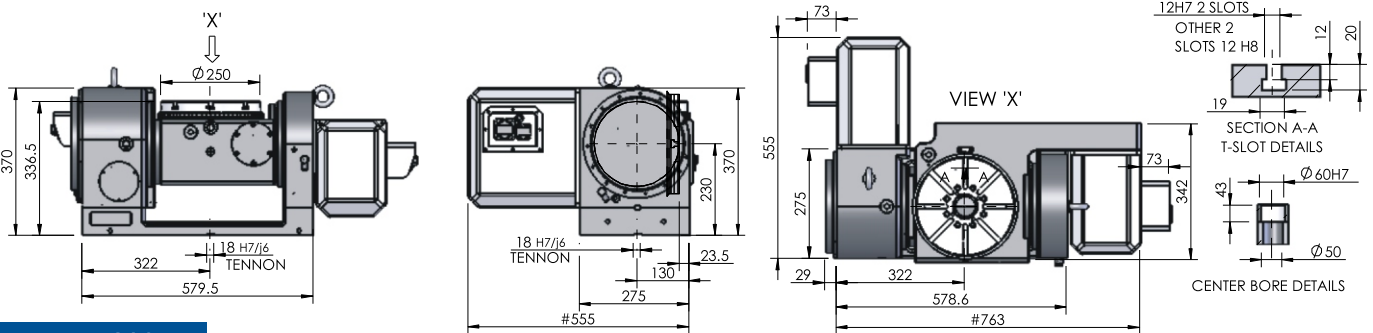
Model URH-200TN



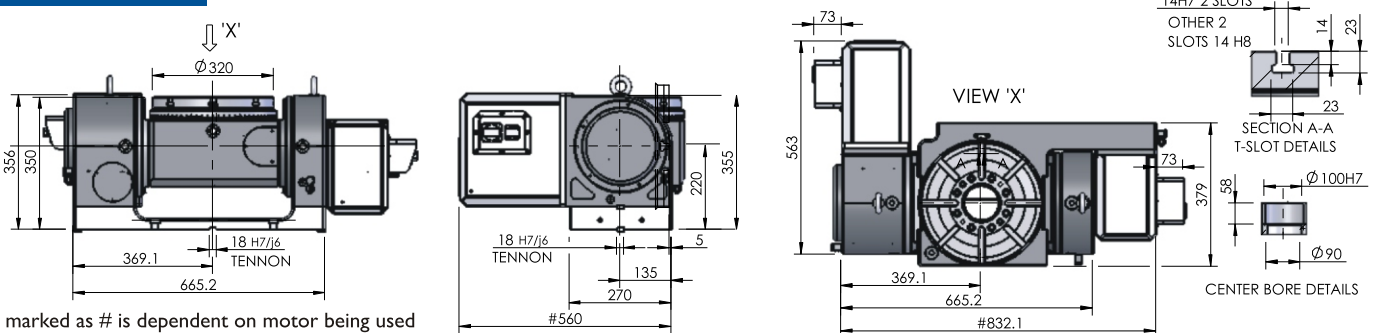
Model ULSR-200TN (Large Swing Tilting Rotary Table)



Model URH-250TN



Model URH-320TN

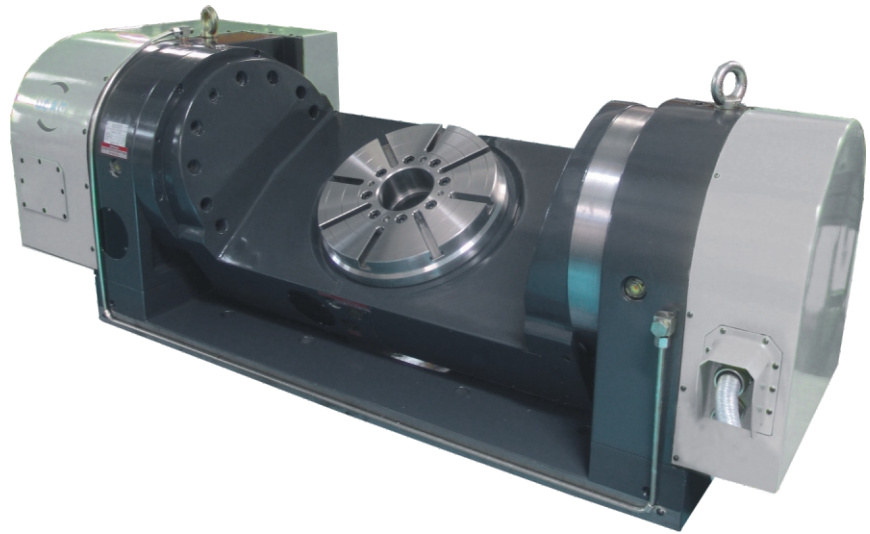


Dimension marked as # is dependent on motor being used






CNC Deep Tilting Table

Features:

- High Grade C I Construction
- Pre Loaded Axial Radial Roller Bearing
- Dual Lead worm Gear set
- Hydraulic Clamping



Specification

Model		URH-320i-DT-S	URH-320-DT-S	URH-500-DT-S	URH-630-DT-S
Turn Table diameter (mm)		Ø 320		Ø 500	Ø 630
Swing size (mm)		400	650	550	1000
Center Bore diameter (mm)		Ø 60H7	Ø 100H7	Ø 100H7	Ø 100H7
T-Slot size (mm)	Ref slots (H7)	12H7x2	14x2	18x2	18x2
	Other slots (H8)	12H8x6	14x6	18x6	18x6
Tenon Slot size (H7) (mm)		18	18	18	18
Servo Motor Toque (Nm)	Rotary axis	8	8	12	12
	Tilting axis	12	22	22	22
Speed Reduction ratio	Rotary axis	1:120	1:180	1:144	1:180
	Tilting axis	1:90	1:180	1:180	1:180
Table Gyration angle/pulse		0.001°	0.001°	0.001°	0.001°
Table Rotation speed (rpm) (Motor 2000 rpm)	Rotary axis	16.66	11.1	13.88	11.1
	Tilting axis	22.22	11.1	11.1	11.1
Load capacity (Kgs)	Horizontal 	110	200	400	500
	Vertical 	70	200	400	500
Clamp Torque (Nm) Hydraulic 30 bar	Rotary axis 	600	1500	2750	3500
	Tilting axis 	950	4000	5000	7000
Driving Torque ^ (Nm)		400	800	1800	1800
Indexing Accuracy * (Arc Sec)	Rotary axis	±15"	±15"	±15"	±15"
	Tilting axis	±30"	±30"	±30"	±30"
Repeatability (Arc Sec)		4"	4"	4"	4"
Tilting angle (Degree)		-110 to +110		-110 to +110	-110 to +110
Net Weight (Kgs) (approx)	w/o base	675	900	1300	2000

* Higher Accuracy ± 5" on request

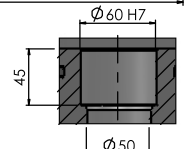
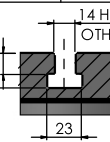
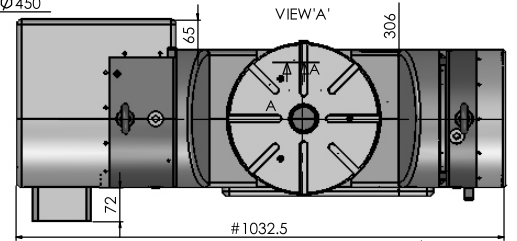
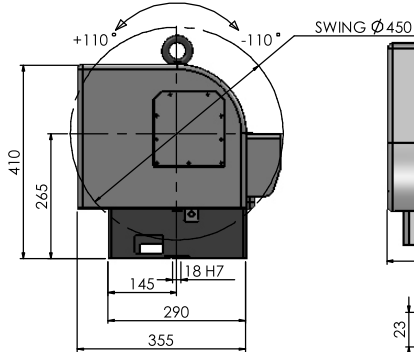
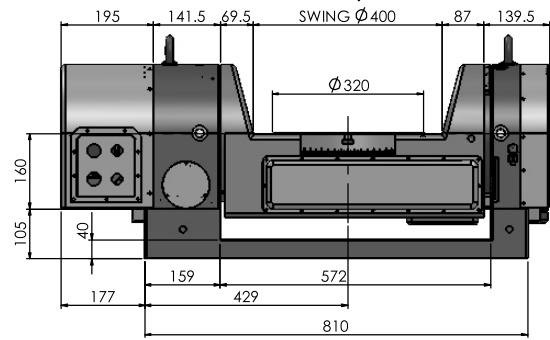
^ Also available with Higher Clamp Torque

CNC Deep Tilting Tables

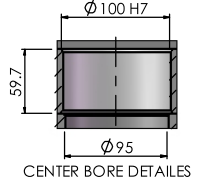
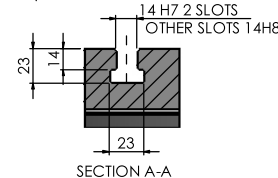
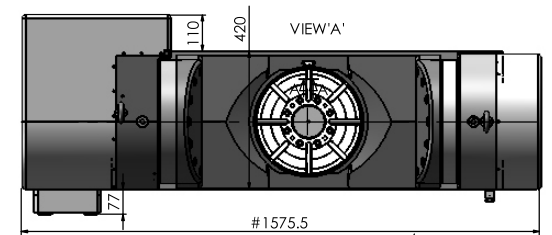
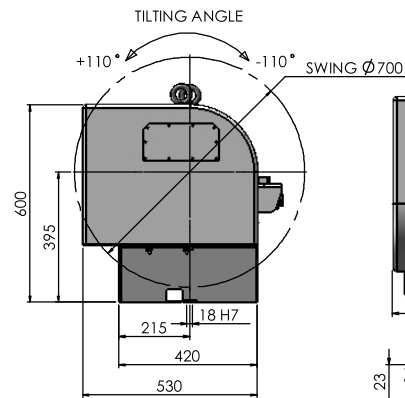
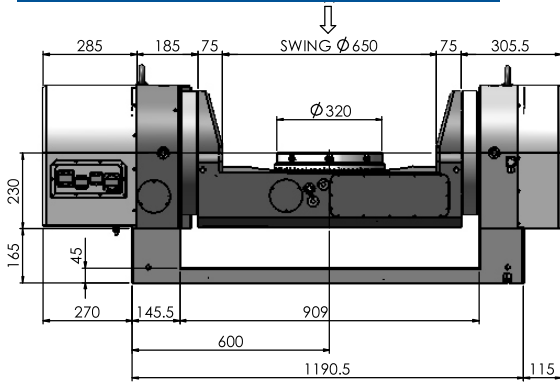
Model URH-320i-DTS (Swing $\varnothing 400$) *mint* SERIES

TILTING ANGLE

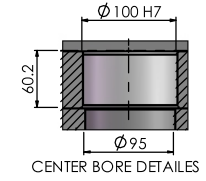
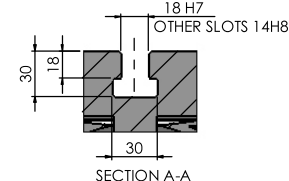
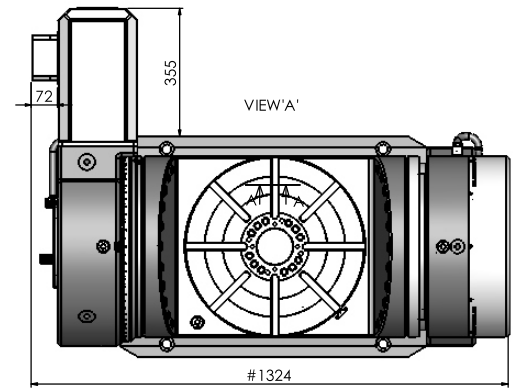
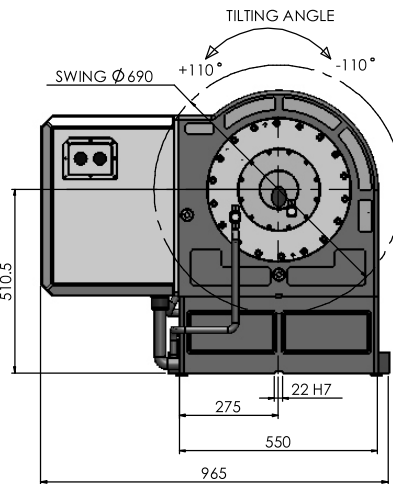
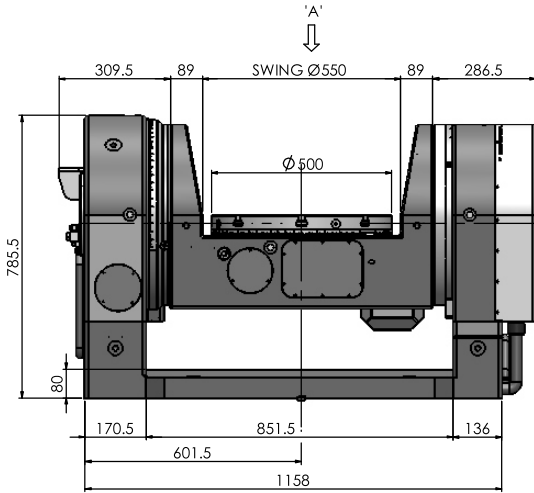
Dimensional Diagrams



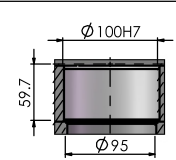
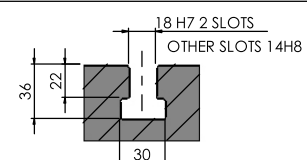
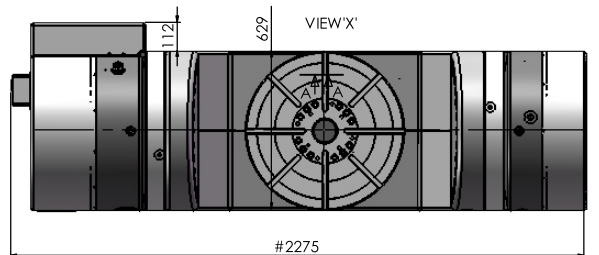
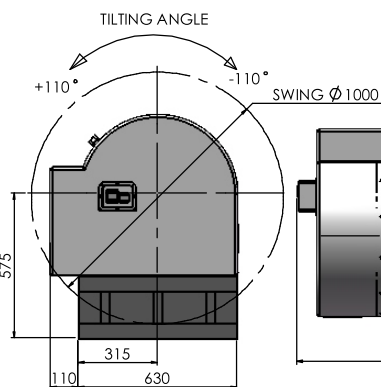
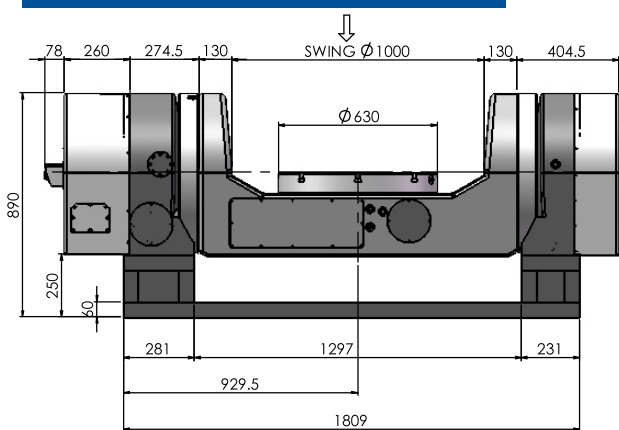
Model URH-320-DTS (Swing $\varnothing 650$)



Model URH-500-DT-S (Swing $\varnothing 550$)



Model URH-630-DTS (Swing $\varnothing 1000$)



Dimension marked as # is dependent on motor being used

Tilting Head & Table in Table

Tilting Head Unit

Model	USTR-310-SQ-SI
Tilting range (deg)	±100°
Tilting Head Rotation speed @ motor rpm 3000	33.33
Thru Bore diameter (mm)	Ø60
Clamping Torque-Hydraulic @ 35 Bar (Nm)	3000
Worm gear Torque (Nm)	1500
Servo motor Torque (Nm)	16
Indexing Accuracy* (with high resolution encoder) (Arc sec.)	± 7.5"
Repeatability (Arc sec.)	4"
Net weight of Tilting Head (without electro spindle) (Kgs)	250



22

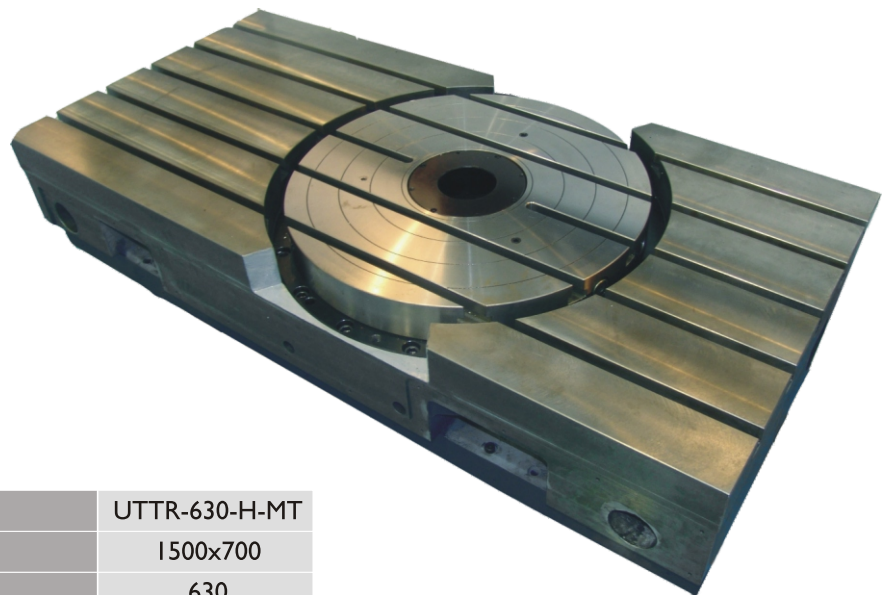


Table in Table

Model	UTTR-630-H-MT
Machine Table size (mm)	1500x700
Turn Table size (mm)	630
T- Clamping slots: Number x Pitch x Size	5 x 125 mm x 18
Center Bore diameter (mm)	100
Table Gyration angle / pulse (deg)	0.001
Speed Reduction ratio	1:180
Safe load on the Rotary table (max) (Kgs)	1300
Tilting moment (max) (Nm)	20000
Servo Motor torque (Nm)	12
Torque (max)	
- During rotation (Nm)	1800
- During hydraulic clamp activated (Nm)	4500
Indexing Accuracy (Arc sec.)*	± 15"
Repeatability (Arc sec.)	4"

*Higher accuracy available on request
Bigger size available on request

Dimensional Diagrams

Tilting Head Unit

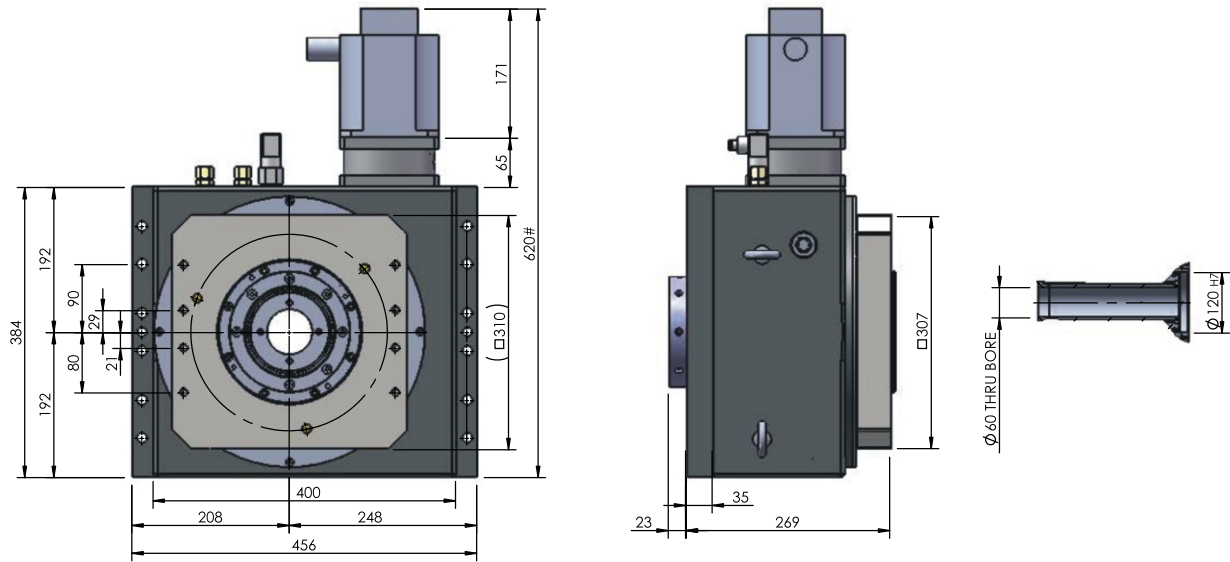
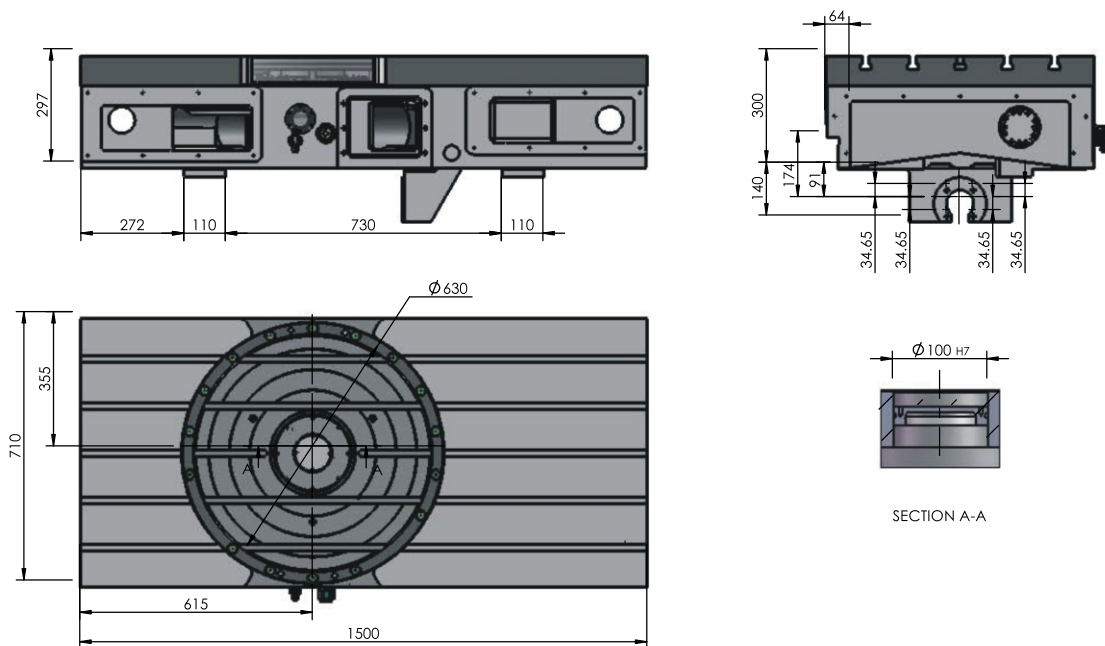


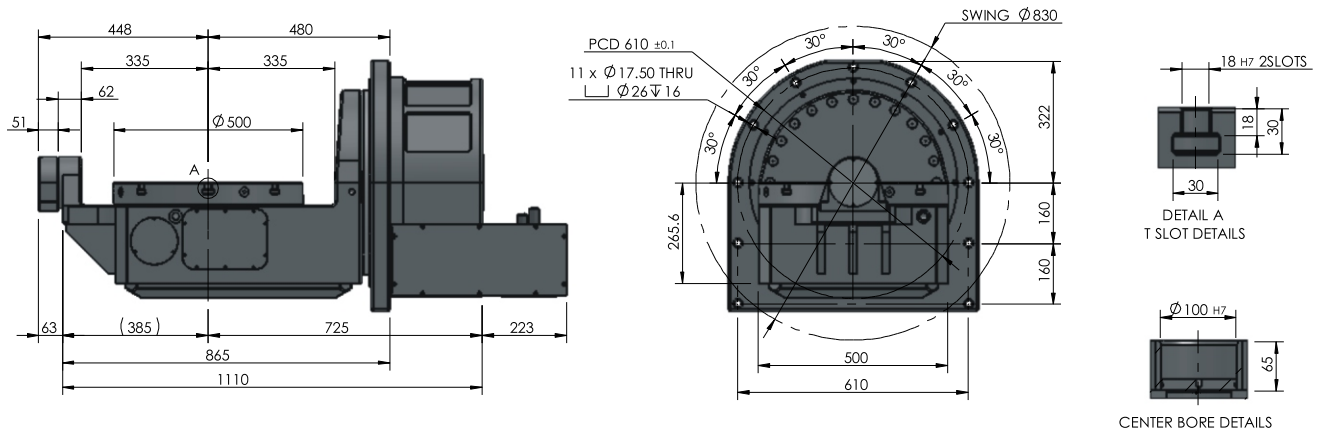
Table in Table



Swivel Table

Swivel Table

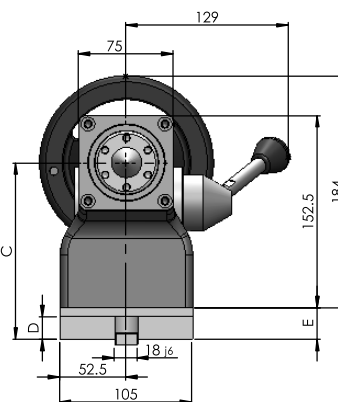
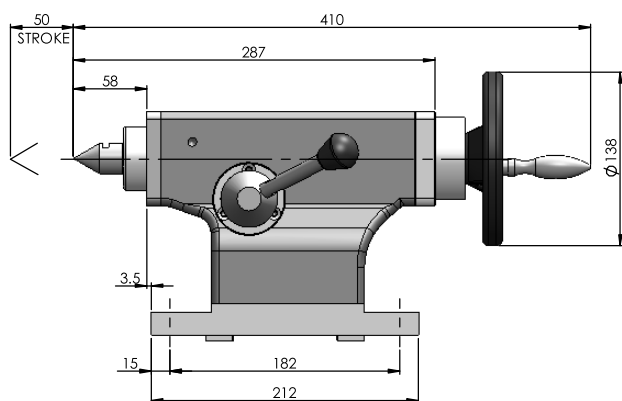
Model	URH-500-ST	
Turn Table size (mm)	Ø500	
T - Slot details		
Reference Slot width	18H7	
Center Bore diameter (mm)	Ø100H7	
Tilting Range (deg)	± 100	
Table Gyration angle / pulse (deg)	0.001	
Speed Reduction ratio	Swivel axis	16.66
	Rotary axis	1:120
Table Rotation speed (Motor 2000) (rpm)	Swivel axis	1:120
	Rotary axis	16.66
Safe load on the Rotary table (max) (Kgs)	350	
Servo Motor torque (Nm)	Swivel axis	22
	Rotary axis	12
Clamp Torque (Hyd @ 50 bar) (Nm)	Swivel axis	1150
	Rotary axis	4000
Driving Torque (Nm)	Swivel axis	2500
	Rotary axis	900
Net Weight (Kgs)	950	



Dimensional Diagrams



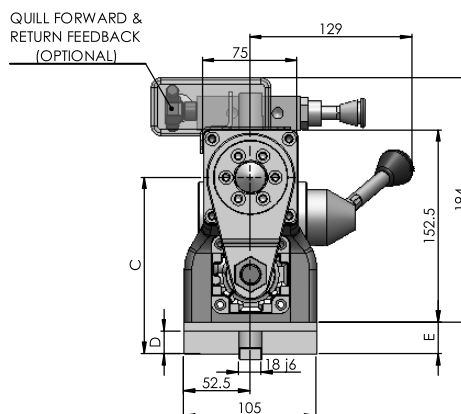
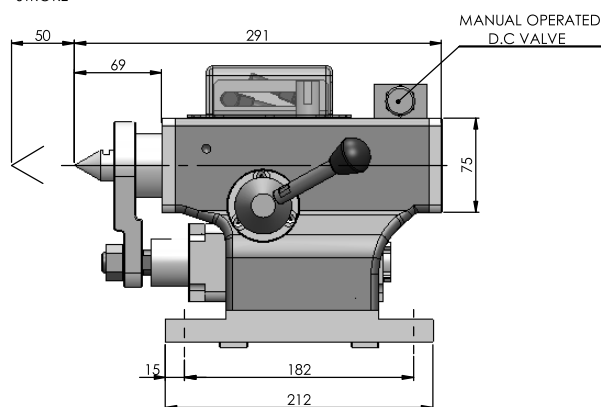
Manual Tailstock



Dimensional Data

Model	For Rotary Table	C	D	Dead Center	Stroke	Net Weight (Kgs) (approx)
UTAIL-135-M	URH-170	135	18	MT# 3	50	16
UTAIL-140-M	URH-201	140	23	MT# 3	50	19
UTAIL-160-M	URH-251	160	23	MT# 3	50	22
UTAIL-210-M	URH-321	210	23	MT# 3	50	26
UTAIL-230-M	URH-401	230	23	MT# 3	50	28

Pneumatic Tailstock

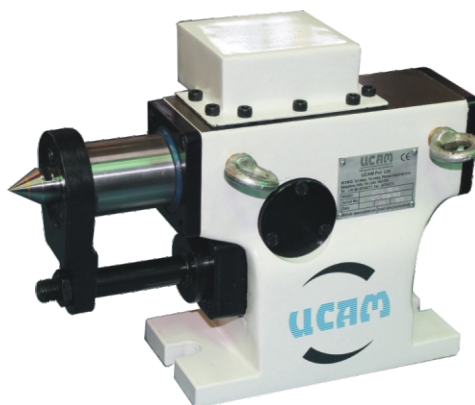
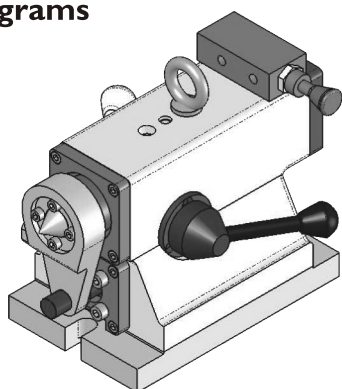


Dimensional Data

Model	For Rotary Table	C	D	Dead Center	Stroke	Axial Thrust Pneu @ 5 Bar	Net Weight (Kgs) (approx)
UTAIL-135-P	URH-170	135	18	MT# 3	50	1000N	18
UTAIL-140-P	URH-201	140	23	MT# 3	50	1000N	21
UTAIL-160-P	URH-251	160	23	MT# 3	50	1000N	24
UTAIL-210-P	URH-321	210	23	MT# 3	50	1000N	28
UTAIL-230-P	URH-401	230	23	MT# 3	50	1000N	30

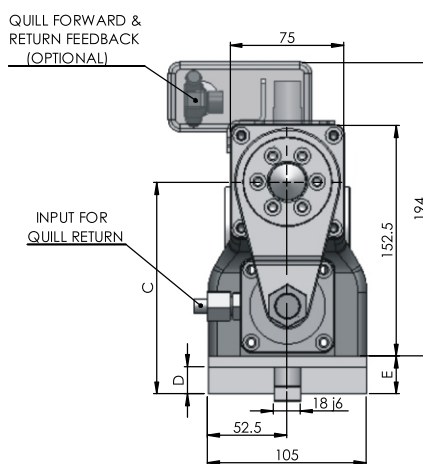
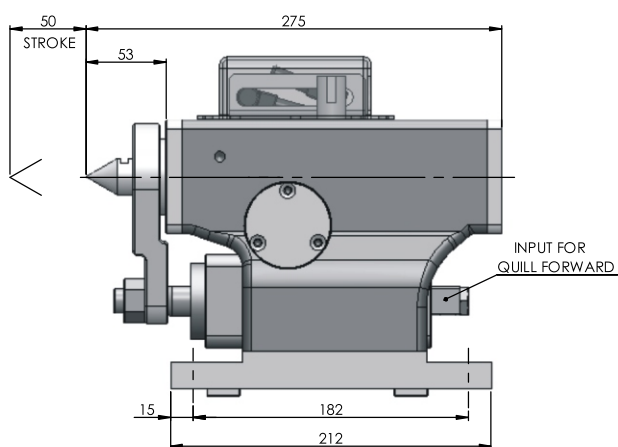
Accessories

Dimensional Diagrams



Hydraulic Tailstock

26



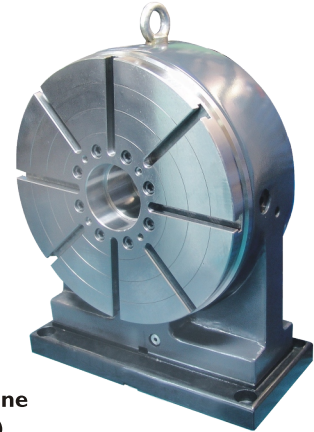
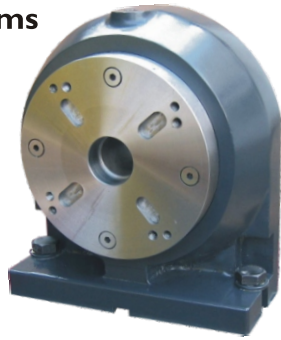
Dimensional Data

Model	For Rotary Table	C	D	Dead Center	Stroke	Axial Thrust Hyd @ 30 Bar	Net Weight (Kgs) (approx)
UTAIL-135-H	URH-170	135	18	MT#3	50	3750N	18
UTAIL-140-H	URH-201	140	23	MT#3	50	3750N	21
UTAIL-160-H	URH-251	160	23	MT#3	50	3750N	24
UTAIL-210-H	URH-321	210	23	MT#3	50	3750N	28
UTAIL-230-H	URH-401	230	23	MT#3	50	3750N	30

Revolving Centers for Tailstocks (optional)



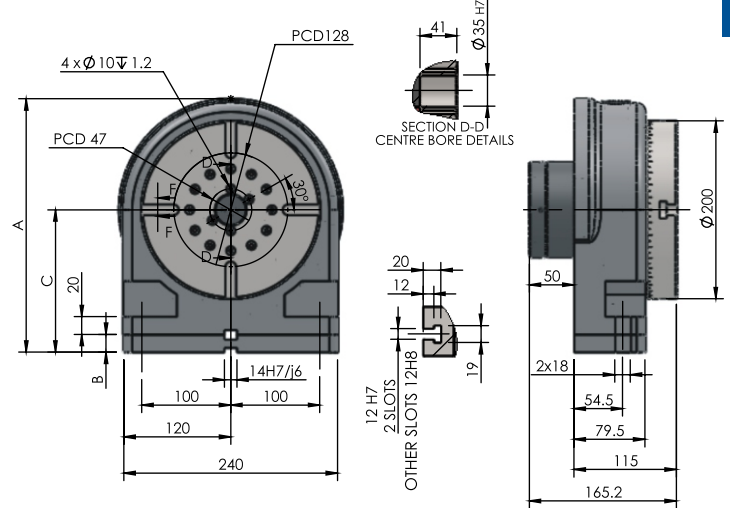
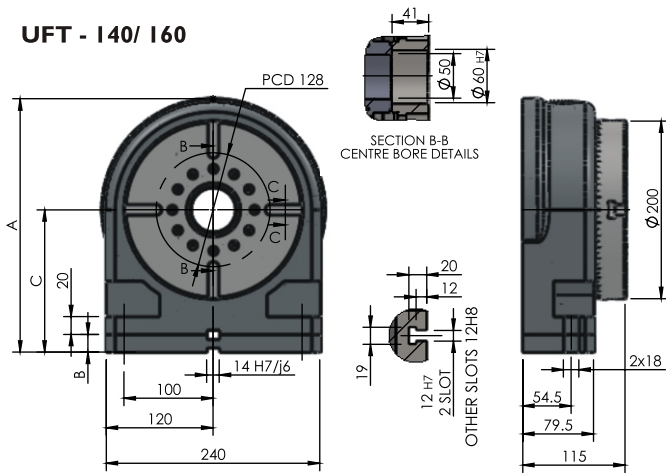
Dimensional Diagrams



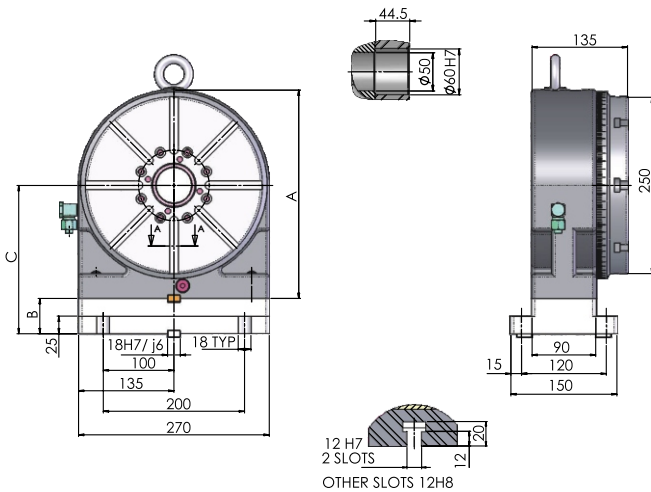
Face Plate Tailstock

Face Plate Tailstock with 4 line Rotary Union (option 5 line)

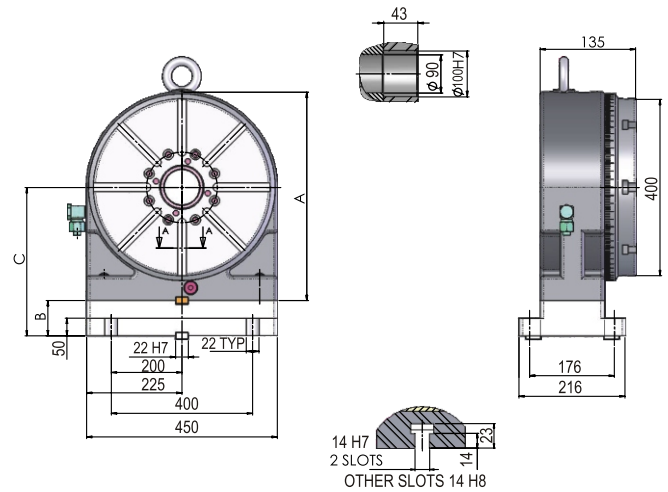
UFT - 140/ 160



UFT - 210/ 230



UFT - 310/ 325

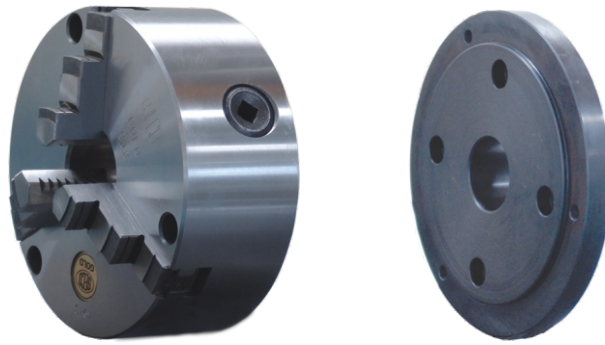


Model	For Rotary Table	A	B	C	Clamping Torque		Weight
					Pneu@5bar	Hyd@30bar	
UFT-140i	URH-20I	265	0	140	200Nm	500Nm	30
UFT-160i	URH-25I	285	20	160	200Nm	500Nm	32
UFT-210-H	URH-32I	295	50	210	NA	600Nm	65
UFT-230-H	URH-40I	295	70	230	NA	600Nm	70
UFT-310-H	URH-50I	480	75	310	NA	2000Nm	185
UFT-325-H	URH-63I	480	90	325	NA	2000Nm	190

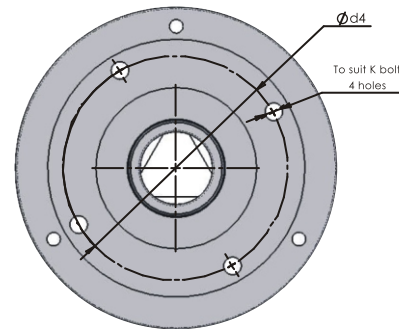
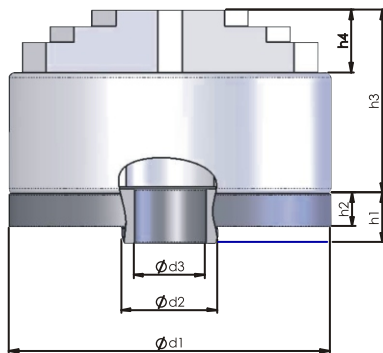
NA: Not Applicable

Accessories

Dimensional Diagrams



28 Manual Scroll Chuck



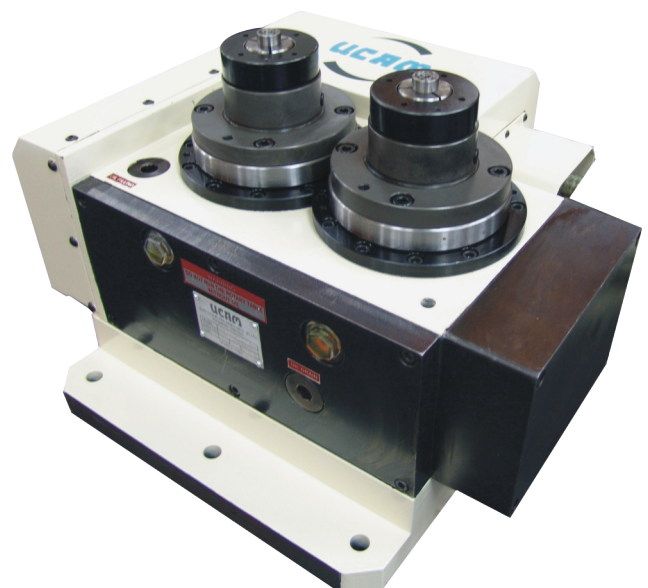
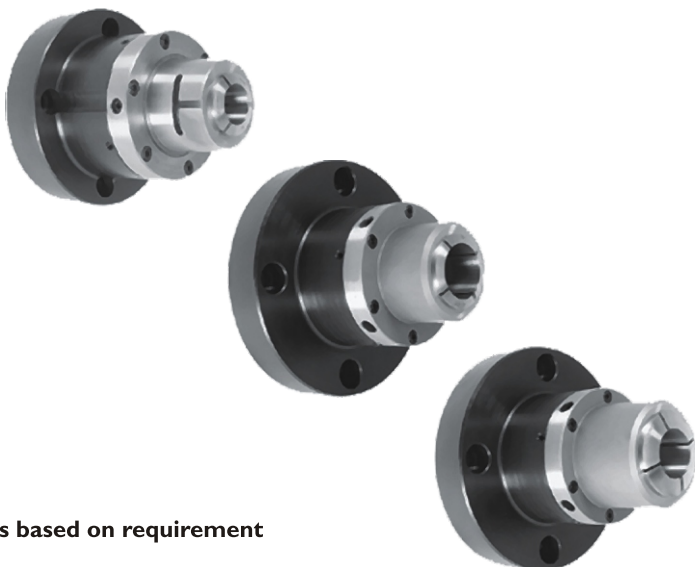
Dimensional Data

Applicable NCRT model	d1	d2	d3	d4 (pcd)	h1	h2	h3	h4	k
URH - 170	160	40h6	-	140 ± 0.2	26	16	96	29	M10
URH - 201	200	60 h6	45H7	176 ± 0.2	31	21	106	31	M10
URH - 251	250	60 h6	40H7	224 ± 0.2	36	26	121	36	M10
URH - 321	320	100 h6	80H7	286 ± 0.2	39	24	123	36	M12

Chuck runout : 0.04mm

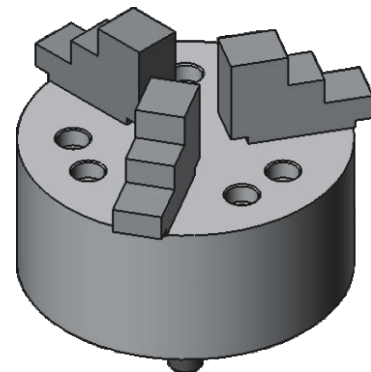
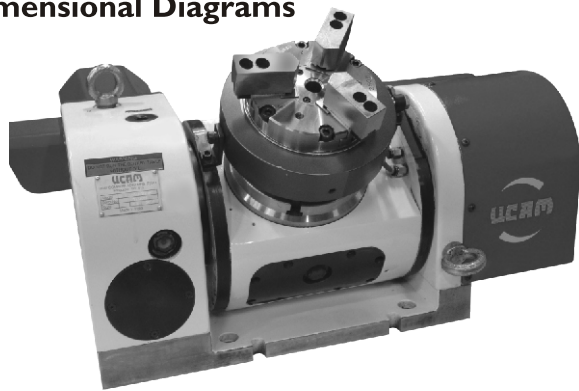
* Fine Adjustable Chucks available for finer runout

Collet Chucks

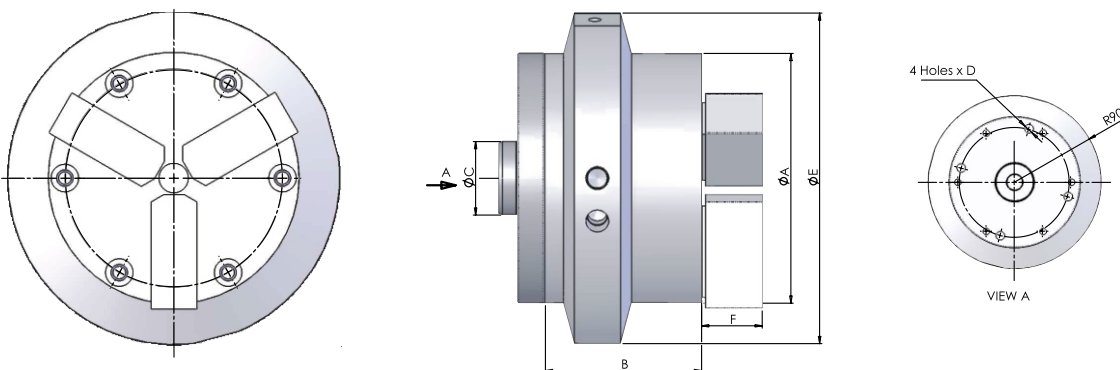


Sizes based on requirement

Dimensional Diagrams



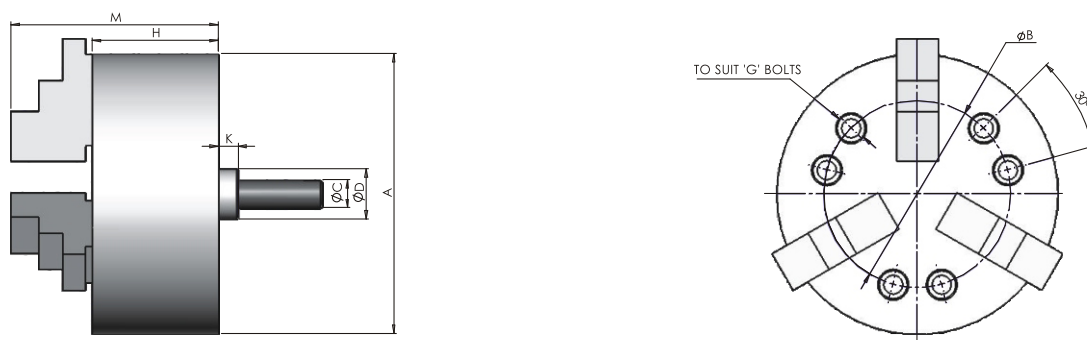
Rotary Air Chuck



Dimensional Data

Application	A	B	C	D	E	F	Gripping Force (N)
Rotary Table Model							(N)
URH - 150	136	85	40	M8	180	33	9000
URH - 170	166	93	40	M10	210	40	16000
URH - 201	215	112	60	M10	250	42	26000
URH - 251	255	120	60	M10	290	46	38000

Hydraulic Power Chuck



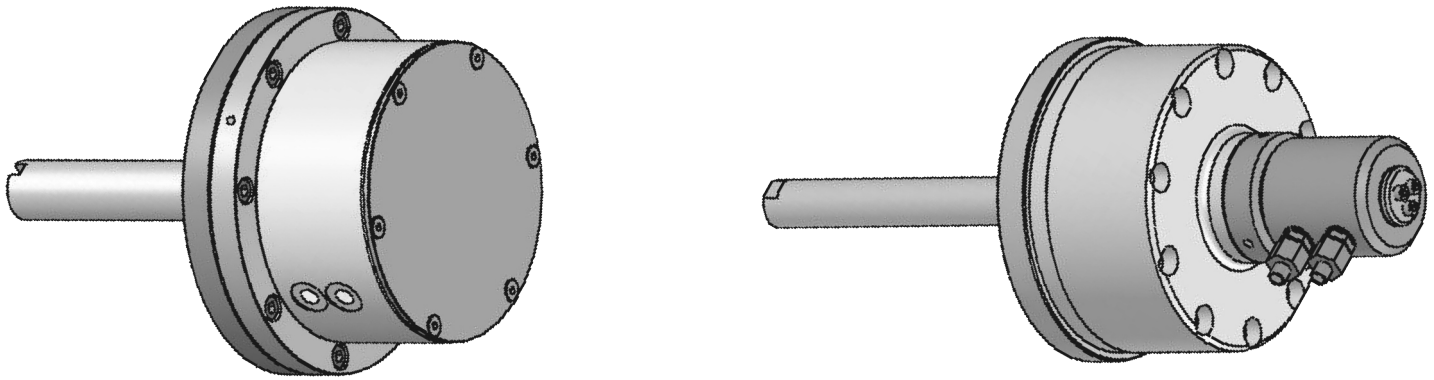
Dimensional Data

Applicable NCRT model	A	B (PCD)	C	D	G	H	K	M	Gripping Force (N)
URH - 170	160	104.8	M16	32	M10	75	20	114	37000
URH - 201	200	133.4	M20	36	M12	90	20	148	58000
URH - 251	250	133.4/171.4	M20	36	M12/M16	97	20	155	79000
URH - 321	315	171.4/235	M20	36	M16/M18	105	20	171	107000

Chuck runout : 0.025mm

Accessories

Dimensional Diagrams



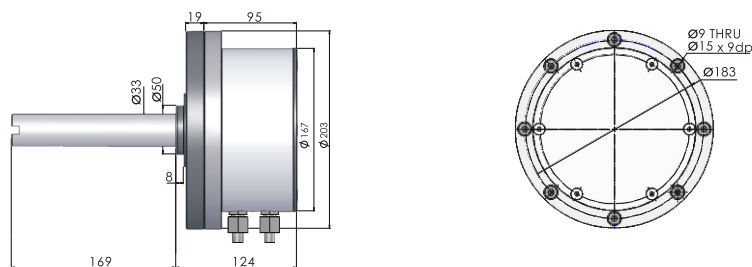
30

Hydraulic Rotary Cylinders

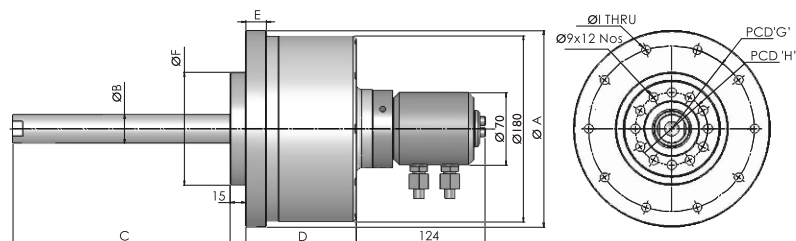
Specifications

Model	For Rotary Table	Clamping Thrust (Kg)	Stroke (mm)	Hydraulic Pressure (Bar)
URC - 100 - 15	URH - 201	1350	15	30
URC - 140 - 25S	URH - 251	4500	25	30
URC - 140 - 25B	URH - 321	4500	25	30

URC - 100 - 15



URC - 140 - 25

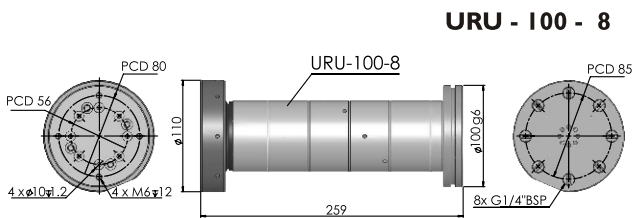
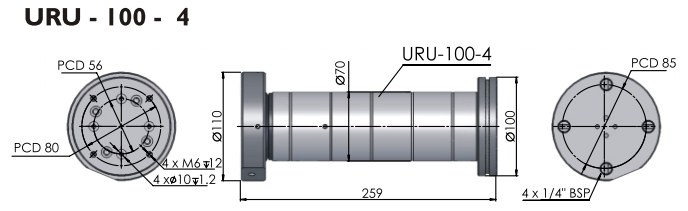
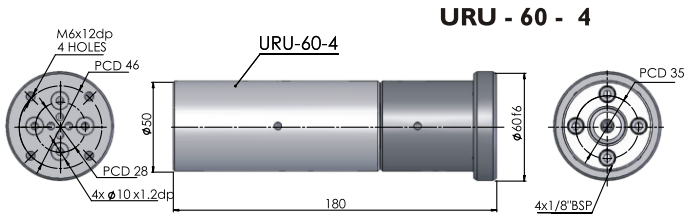


Dimensional Data

Model	A	B	C	D	E	F	G	H	I
URC-140-25-S	190	28	210	107	20	109	160	70	6.8x10Nos
URC-140-25-B	240	35	262	131	25	125	204.5	85	6.8x12Nos

Dimensional Diagrams

Rotary Union

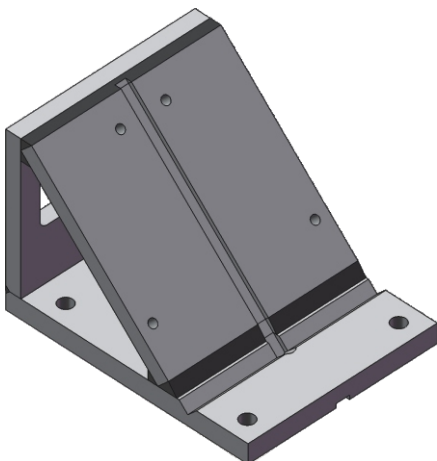


Dimensional Data

MODEL	For Rotary Table	No. of Lines	Input connection
URU - 60 - 4	URH-20I	4	G1/8" BSP
	URH-25I		
URU - 100-4	URH-32I	4	G1/4" BSP
	URH-40I		
URU - 100-8	URH-32I	8	G1/4" BSP
	URH-40I		

Above Rotary Union suitable for operating pressure upto 100 bar,
Request for special Rotary Union for operating pressure higher than 100 bar

Angle Plate

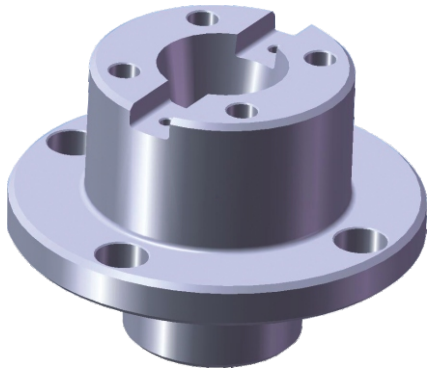


- Available to suit different models of Rotary Tables
- Can be manufactured to match required angles

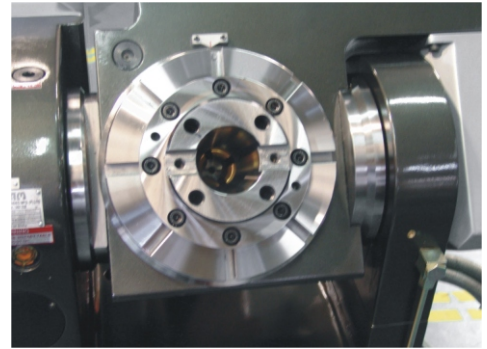


Accessories

Taper Adaptor and Taper Center Bore

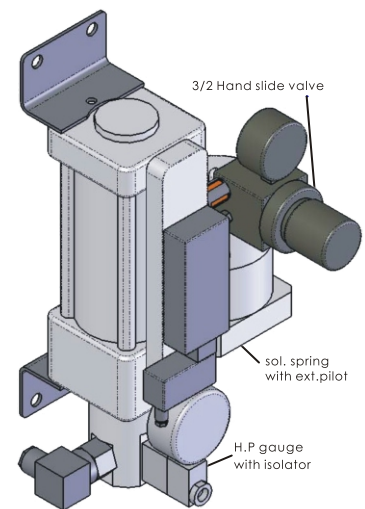
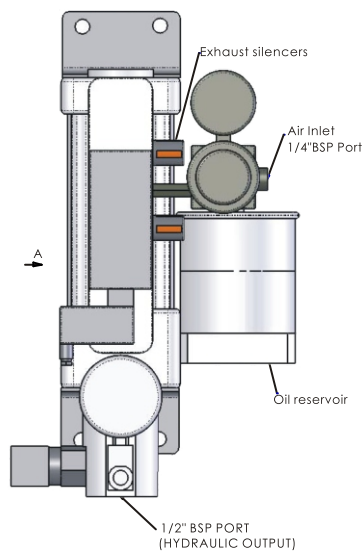
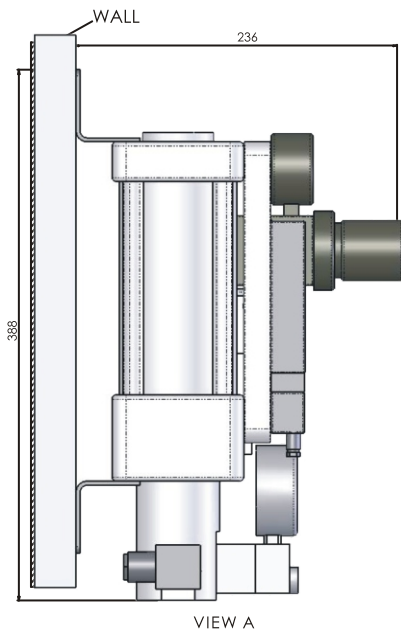


- Standard adaptors available for BT30, BT40, MT3, MT4 Tapers
- Dia 200 Rotary Tables and Tilting Tables also available with integrated taper center bore as option



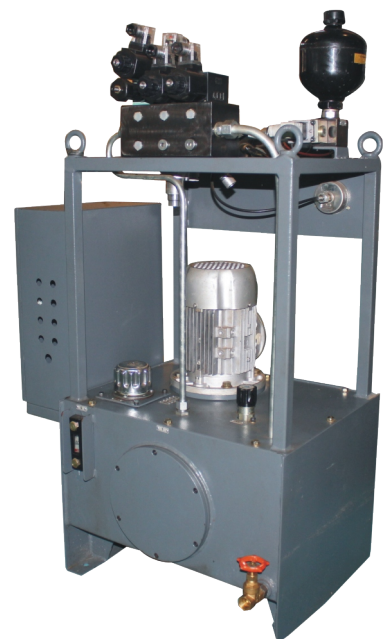
32

Hydropneumatic Booster



Hydraulic Power Pack

- Flow: 6.8 / 9 / 12 lpm
- Pressure: 30 Bar Max.
- Solenoid valves and pressure switches depends on your applications



Single Axis Controller

- G Codes Programming
- Can be interfaced with CNC Machine through M-codes
- Work offset available
- RS 232 Interface
- Software limit functions available
- Input Power: Single Phase AC 200 - 220V
- Alarm can be sent and received from Machine for Safety Interlock



Servo Motors for UCAM Rotary Tables.

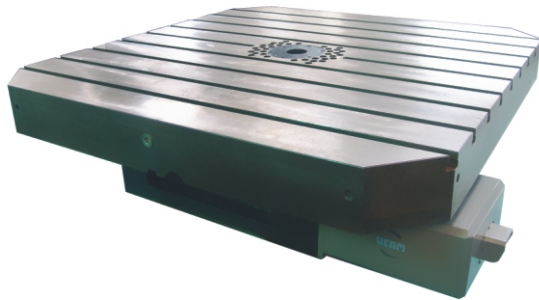
UCAM Rotary Table	Fanuc α series	Fanuc β series	Siemens series
URH - 150	Fanuc α 2i	Fanuc β 4 is	IFK 7042 5AF7I
URH - 170	Fanuc α 2i	Fanuc β 4 is	IFK 7042 5AF7I
URH - 201	Fanuc α C4i	Fanuc β 4 is	IFK 7060 5AF7I
URH - 251	Fanuc α C8i	Fanuc β 8 is	IFK 7060 5AF7I
URH - 321	Fanuc α C8i	Fanuc β 8 is	IFK 7063 5AF7I
URH - 401	Fanuc α C12i	Fanuc β 12 is	IFK 7063 5AF7I
URH - 501	Fanuc α C12i	Fanuc β 12 is	IFK 7083 5AF7I
URH - 631	Fanuc α C12i	Fanuc β 12 is	IFK 7083 5AF7I

UCAM Rotary Production System	Fanuc α series	Fanuc β series	Siemens series
URH - 201-Opt I, II, III	Fanuc α C4i	Fanuc β 4 is	IFK 7060 5AF7I
URH - 201-Opt IV, V, VI	Fanuc α C4i	Fanuc β 8 is	IFK 7060 5AF7I
URH - 251-Opt II, III, IV, V, VI	Fanuc α C8i	Fanuc β 8 is	IFK 7060 5AF7I
URH - 321-Opt III, IV, V, VII	Fanuc α C8i	Fanuc β 12 is	IFK 7063 5AF7I

UCAM tilting Rotary Table	Fanuc α series	Fanuc β series	Siemens series
URH-150 rotary axis	Fanuc α 2i	Fanuc β 4 is	IFK 7042 5AF7I
URH-150 tilt axis	Fanuc α 2i	Fanuc β 4 is	IFK 7042 5AF7I
URH-200 rotary axis	Fanuc α C4i (st.shaft)	Fanuc β 4 is(st.shaft)	IFK 7042 5AF7I
URH-200 tilt axis	Fanuc α C4i	Fanuc β 8 is	IFK 7060 5AF7I
URH-250 rotary axis	Fanuc α C8i	Fanuc β 8 is	IFK 7060 5AF7I
URH-250 tilt axis	Fanuc α C8i	Fanuc β 8 is	IFK 7060 5AF7I
URH-320 rotary axis	Fanuc α C8i	Fanuc β 8 is	IFK 7063 5AF7I
URH-320 tilt axis	Fanuc α C8i	Fanuc β 8 is	IFK 7063 5AF7I

UCAM Multi Spindle Rotary Table	Fanuc α series	Fanuc β series	Siemens series
URH - 125-2S, 3S	Fanuc α C4i	Fanuc β 4 is	IFK 7060 5AF7I
URH - 170-2S, 3S	Fanuc α C8i	Fanuc β 8 is	IFK 7060 5AF7I





CNC Rotary Tables for Horizontal Application



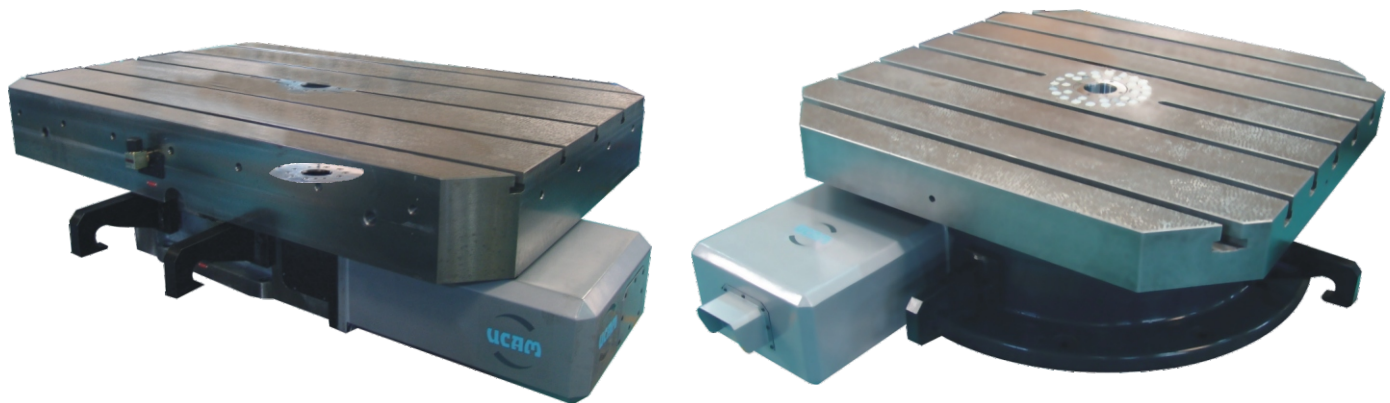
Features:

- Hydraulic Clamping
- High Grade C I Construction.
- Dual Lead Worm Gear Set.
- Horizontal mounting.





Specification

Basic Table		URH-800			
Model		URH-800	URH-SQ800	URL-1000	URL-SQ1000
Turn size (mm)		∅800	Sq800	∅1000	Sq1000
Table height (mm)		350	355	350	365
Center Bore diameter (H7) (mm)		∅ 80	∅ 80	∅ 80	∅ 80
T-Slot size (mm)	Ref slots (H7)	18H8	18H8	18H8	18H8
	Other slots (H8)	18H12	18H12	18H12	18H12
Tenon Slot size (H7) (mm)		22	22	22	22
Servo Motor Torque (Nm)		16	16	16	16
Speed Reduction ratio		1:300	1:300	1:300	1:300
Table Gyration angle/pulse		0.001°	0.001°	0.001°	0.001°
Table Rotation speed (rpm)	(Motor 2000 rpm)	6.66	6.66	6.66	6.66
Load capacity (Kgs)	Horizontal 	8100	8000	7850	7650
Thurst on Table top (Nm)		75000	75000	75000	75000
Tilting moment (Nm)	Horizontal (FxL) 	26000	26000	26000	26000
Clamp Torque (Nm)	Hydraulic 60 bar 	12000	12000	12000	12000
Driving Torque (Nm) 		7000	7000	7000	7000
Indexing Accuracy (with direct mounted encoder) (Arc Sec)		±5"	±5"	±5"	±5"
Repeatability (Arc Sec)		4"	4"	4"	4"
Net Weight (Kgs) (approx)		1100	1200	1350	1550

CNC Rotary Tables for Horizontal Application



Specification

Basic Table		URH-1200				URH-1600			
Model		URH-1200	URH-SQ 1200	URL-1600	URL-SQ 1600	URH-1600	URH-SQ 1600	URL-2000	URL-SQ 2000
Turn size (mm)		Ø1200	SQ1200	Ø1600	Sq1600	Ø1600	SQ1600	Ø2000	SQ2000
Table height (mm)		450	450	470	490	510	525	520	550
Center Bore diameter (H7) (mm)		Ø 80	Ø 80	Ø 80	Ø 80	Ø 100	Ø 100	Ø 100	Ø 100
T-Slot size (mm)	Ref slots (H7)	22H8	22H8	22H8	22H8	28H8	28H8	28H8	28H8
	Other slots (H8)	22H12	22H12	22H12	22H12	22H12	22H12	22H12	22H12
Tenon Slot size (H7) (mm)		22	22	22	22	22	22	22	22
Servo Motor Torque (Nm)		28	28	28	28	35	35	35	35
Speed Reduction ratio		1:360	1:360	1:360	1:360	1:360	1:360	1:360	1:360
Table Gyration angle/pulse		0.001°	0.001°	0.001°	0.001°	0.001°	0.001°	0.001°	0.001°
Table Rotation speed (rpm)	(Motor 2000 rpm)	5.5	5.5	5.5	5.5	5.5	5.5	5.5	5.5
Load capacity (Kgs)	Horizontal 	12200	12000	11200	10800	18700	18000	17300	16000
Thrust on Table top (Nm)		178000	178000	178000	178000	250000	250000	250000	250000
Tilting moment (Nm)	Horizontal (FxL) 	70000	70000	70000	70000	100000	100000	100000	100000
Clamp Torque (Nm)	Hydraulic 60 bar 	25000	25000	25000	25000	32000	32000	32000	32000
Driving Torque (Nm) 		17000	17000	17000	17000	28000	28000	28000	28000
Indexing Accuracy (with direct mounted encoder) (Arc Sec)		±5"	±5"	±5"	±5"	±5"	±5"	±5"	±5"
Repeatability (Arc Sec)		4"	4"	4"	4"	4"	4"	4"	4"
Net Weight (Kgs) (approx)		2850	3100	3900	4300	4800	5500	6200	7500

Bigger size upto Dia 4000 and above is available on request

Hydraulic Index Tables



Features:

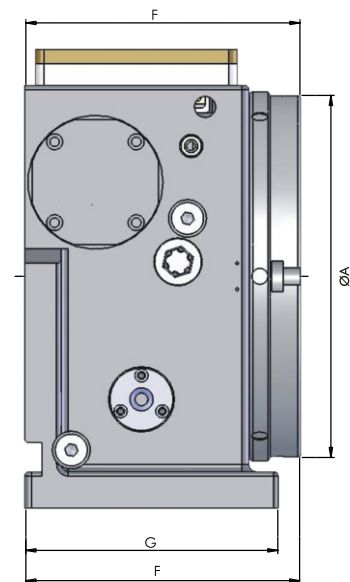
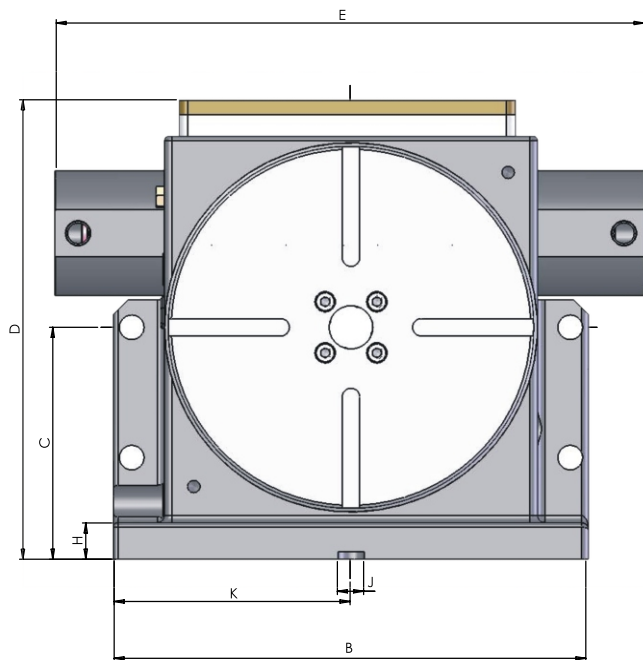
- Non-lift types, 3 piece face tooth coupling
- Hydraulic Operated rack & pinion gear drive.
- Positioning accuracy ± 3 arc secs.
- Vertical / Horizontal mounting.

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Vertical / Horizontal Mounting

Specifications

Model	UHID-250	UHID-400	UHID-500	UHID-600
Table top size (mm)	$\varnothing 250$	$\varnothing 400$	$\varnothing 500$	$\varnothing 600$
Center Bore diameter (mm)	$\varnothing 30H7$	$\varnothing 40H7$	$\varnothing 60H7$	$\varnothing 60H7$
Operation	Hydraulic 25 bar pressure			
Clamp/ Declamp Rotation	Standard option: select from 4, 6, 8, 10, 12 & 24 division Special option: select from 2, 3, 5, 9, 10 etc			
Number of Divisions				
Indexing Accuracy (Arc Sec)	$\pm 5''$	$\pm 3''$	$\pm 3''$	$\pm 3''$
Repeatability (Arc Sec)	2''	2''	2''	2''
Load capacity (Kgs)	Vertical	125	175	-
	Horizontal	300	500	800
Net Weight (Kgs)	80	125	300	600



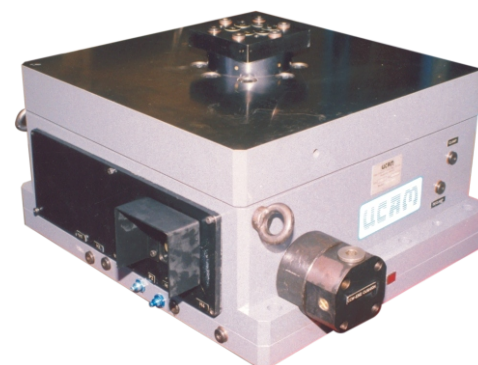
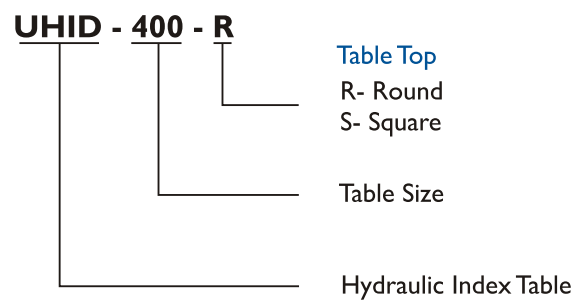
Dimensional Data

Model	$\varnothing A$	B	C	D	E	F	G	H	J	K
UHID-250	250	325	160	317	450	189	173.3	25	18H7	162.5
UHID-400	400	390	230	430	550	217	182	30	18H7	195

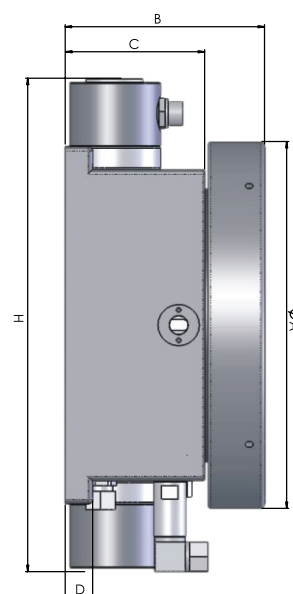
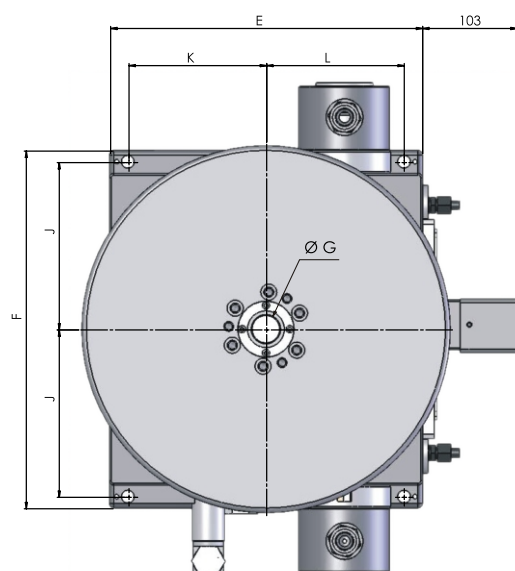
Bigger size available on request

Dimensional Diagrams

Ordering code for Index Tables



Horizontal Mounting



Dimensional Data

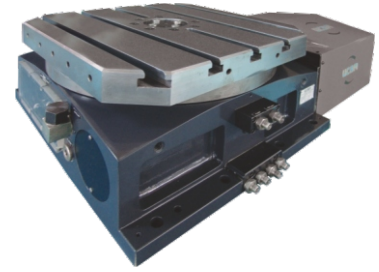
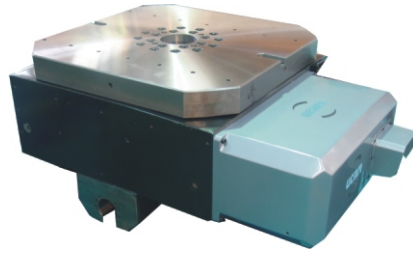
Model	A	B	C	D	E	F	ØG	H	I	K	L
UHID-400	400	217	152	30	340	390	40	550	182.5	150	150
UHID-500	500	250	168	35	470	540	60	790	252.5	200	200
UHID-600	600	300	205	35	600	720	60	995	335	200	250

3 Piece Face Tooth Coupling



Rotary Index Tables for HMC

Without Pallet Clamp

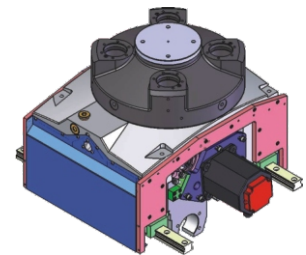
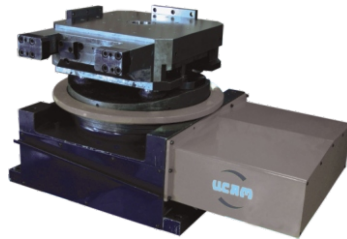


Specifications

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Model	UHI-400-H	UHR-400-H	UHI-500-H	UHR-500-H	UHI-630-H	UHR-630-H
Min. Increment	1°	0.001°	1°	0.001°	1°	0.001°
Turn Table Size (mm)	Ø 400/□400	Ø 400/□400	Ø 500/□500	Ø 500/□500	Ø 630/□630	Ø 630/□630
Center Bore diameter (mm)	Ø 50	Ø 50	Ø 100	Ø 100	Ø 100	Ø 100
T-Slot size (mm)	2 ref slots (H7) Other slots (H8)		14X5	14X8	18X5	18X8
Type of Mounting	Fixed/Moving	Fixed/Moving	Fixed/Moving	Fixed/Moving	Fixed/Moving	Fixed/Moving
Servo Motor Torque (Nm)	8	8	12	12	22	22
Speed Reduction ratio	1:144	1:180	1:180	1:180	1:120	1:120
Table Rotation speed (Motor 2000 rpm)	13.88	11.11	11.11	11.11	16.6	16.6
Clamp Torque (Nm) Hydraulic 30 Bar	1840	2000	2300	2800	3500	3500
Load capacity (Kgs) Horizontal	500	800	800	1200	1500	3000
Tilting moment (Nm)	4500	5000	6000	7000	8000	10000
Max. Torque capacity of worm gear (Nm)	800	800	1500	1500	1800	1800
Indexing Accuracy (Arc Sec)	±3"	±15"	±3"	±15"	±3"	±15"
Repeatability	2"	4"	2"	4"	2"	2"
Net Weight (Kg) (approx)	470	470	575	575	750	750

With Pallet Clamp



Specifications

Model	UHI-400-H-PC	UHR-400-H-PC	UHI-500-H-PC	UHR-500-H-PC	UHI-630-H-PC	UHR-630-H-PC
Min. Increment	1°	0.001°	1°	0.001°	1°	0.001°
Table top	With cup & cone / Datum clamp					
Type of mounting	Fixed / Moving					
Servo Motor Torque (Nm)	8	8	12	12	22	22
Speed Reduction ratio	1:144	1:180	1:180	1:180	1:120	1:120
Table Rotation speed (Motor 2000 rpm)	13.88	11.11	11.11	11.11	16.6	16.6
Clamp Torque (Nm) Hydraulic 30 Bar	1840	2000	2300	2800	3500	3500
Load capacity (Kg) Horizontal	500	800	800	1200	1500	3000
Tilting moment (Nm)	4500	5000	6000	7000	8000	10000
Max. Torque capacity of worm gear (Nm)	800	800	1500	1500	1800	1800
Indexing Accuracy (Arc Sec)	±3"	±15"	±3"	±15"	±3"	±15"
Repeatability	2"	4"	2"	4"	2"	4"
Net Weight (Kg) (approx)	470	470	575	575	750	750



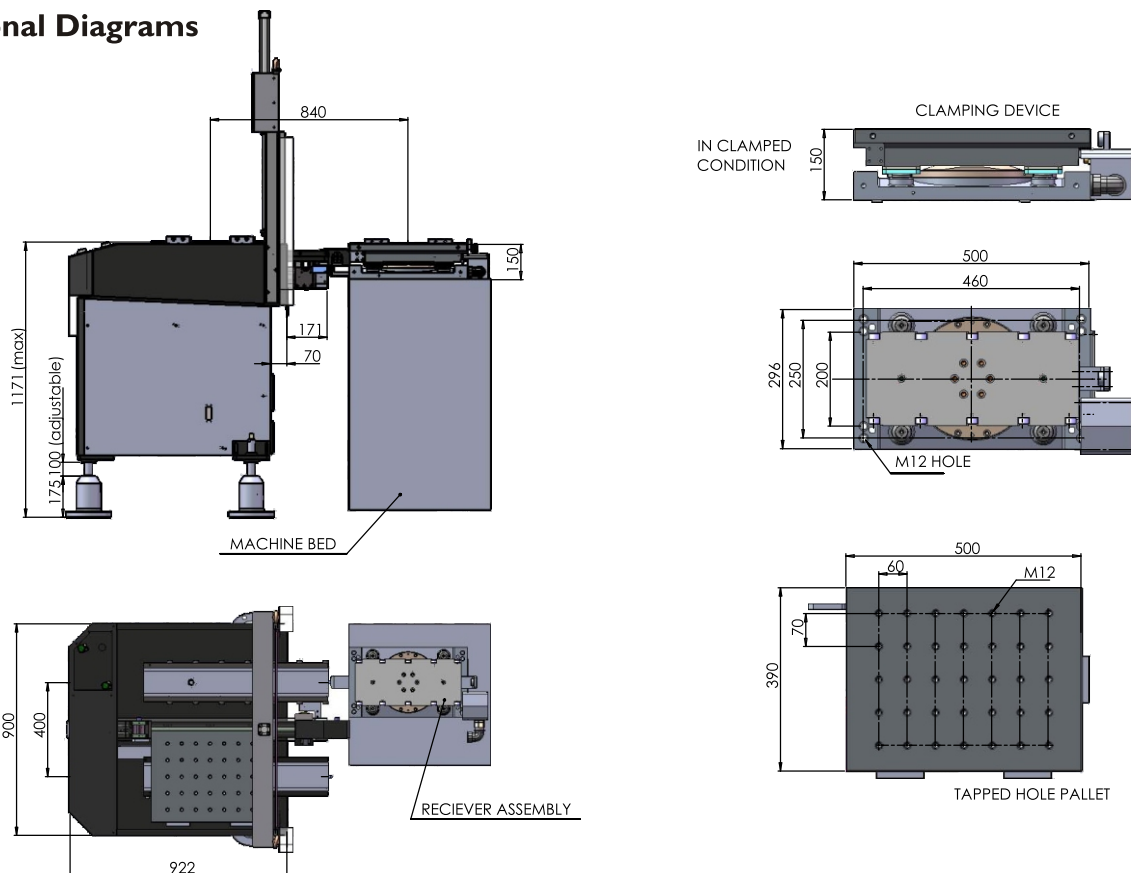
Features:

- Compact in design
- Side loading
- Servo operated for fast Pallet change

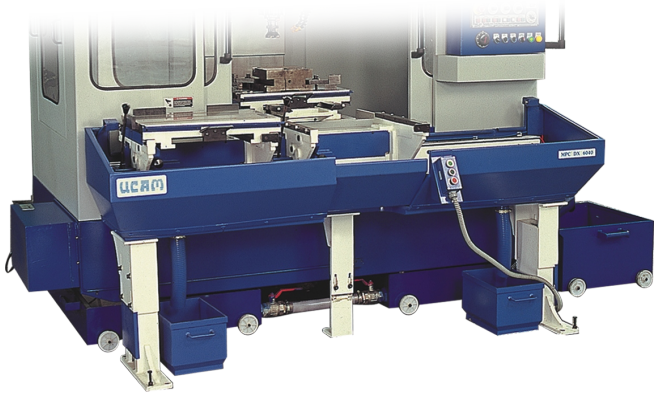
Specifications

Model		APC 5039
Pallet Size		500x390
No. of Pallets		2
Pallet top	A. Plain	Plain
	B. Tapped Holes	M12x35 No.s
Tenon Slot size	Std.	18 H8
Pallet changing		Servo
Pallet Clamping (bar)	Pneumatic	7
Pallet Changing time (sec)		12
Pallet Weight (Kgs)	Tapped hole pallet	60
Clamping Device Weight (Kgs)		75
Changer Weight (Kgs.)		300
Load capacity (on pallet) (Kgs)		150
Clamping Force (N)	Pneumatic - 5 bar	9000

Dimensional Diagrams



Manual Pallet Changers



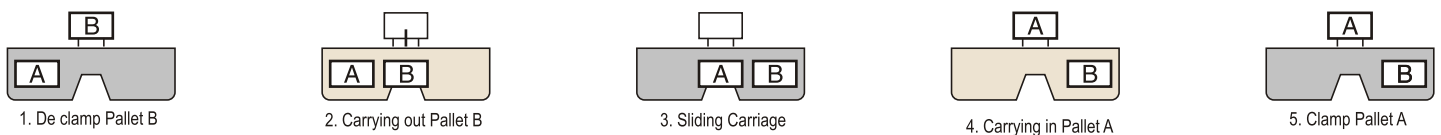
Features:

- Compact in design
- Smooth, guided movement of loaded pallet.
- Easy accessibility to work area.

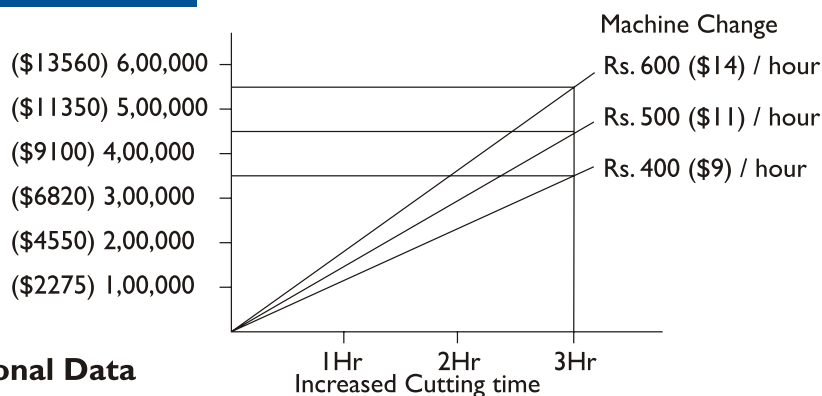
Specifications

Model		MPC 5030	MPC 6040
Pallet Size		500x300	600x400
No. of Pallets		2	2
Pallet Top	a. Plain	Plain	Plain
	b. Taped holes	M12x35 nos	M16x35 nos
	c. T-Slot	Ref	14H8
Fixing		14H9	18H9
Tenon Slot size	Std	14H8	18H8
Pallet Changing		Manual	Manual
Pallet Changing (bar)	Pneumatic	5	5
Pallet Weight (Kgs)	Tapped hole pallet	76	86
	T-Slot pallet	76	106
Clamping Device Weight (Kgs)		70	100
Changer Weight (Kgs)		540	540
Load Capacity (on Pallet) (Kgs)		120	200
Clamping Force (N)	Pneumatic-5 Bar	9800	12500

Sequence of Operation



Benefits of Pallet Changers



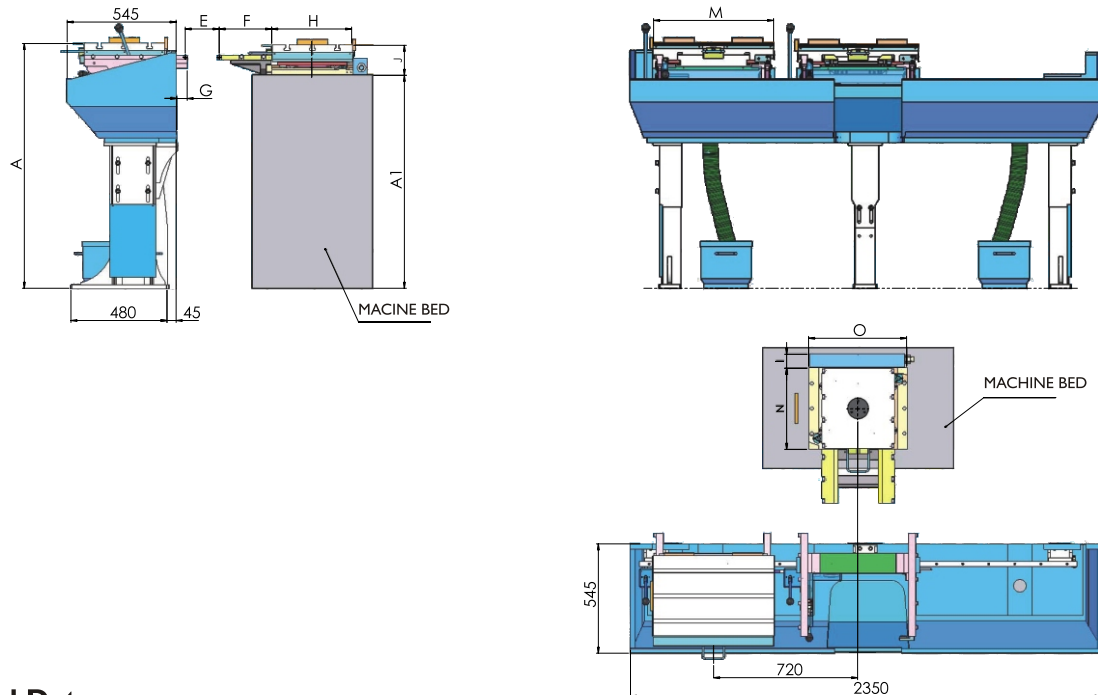
Annual returns can be increased by 4.5 Lakhs (\$10225) by changing 3 hours of non cutting into actual cutting time per day.

Dimensional Data

Z-clamps	T-Nuts Bolts	Hyd/pneu Hose	Cables	Chip Bucket	Edge Locator	Clamp Confirmation Signal Unit	Air Saving device
▲	▲	▲	▲	▲	▲		▲

Standard: ▲

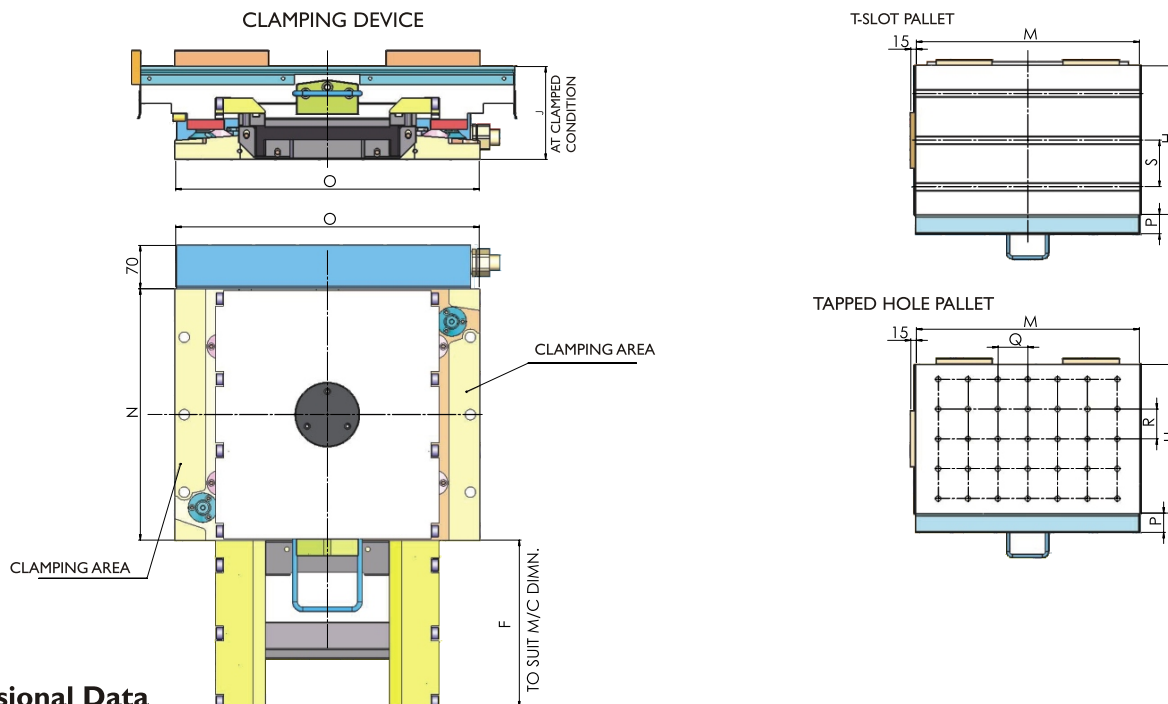
Dimensional Diagrams



Dimensional Data

Model	A	A1	E (Max)	F	G	H	O	M
MPC 5030	A1+J+Pallet Declamp Lift	M/C Bed Height	100	Varying depends on M/c	300	450	500	
MPC 6040	A1+J+Pallet Declamp Lift	M/C Bed Height	150	Varying depends on M/c	420	490	600	

Pallets and Clamping Device



Dimensional Data

Model	H	J-PPLT	J-TPLT	M	N	O	P	Q	R	S
MPC 5030	300	140	140	500	306	450	40	60	60	100
MPC 6040	400	140	150	600	406	490	60	80	80	125

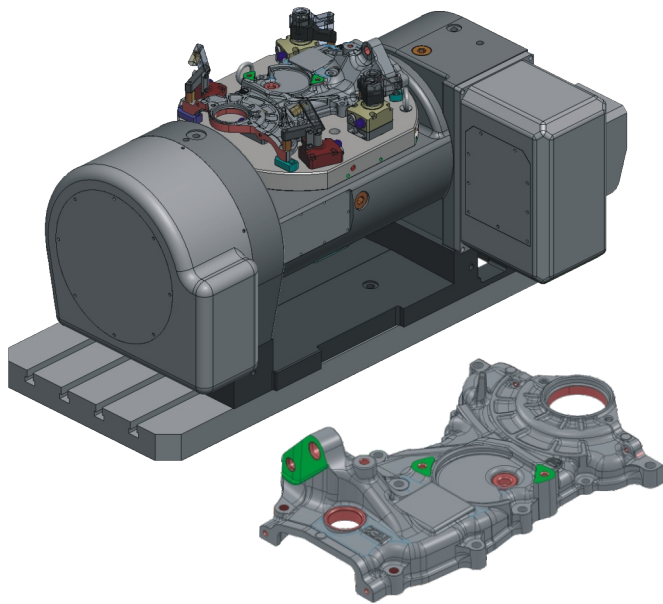
Work Holding Solutions

UCAM is equipped to provide innovative work holding solution on rotary and tilting axis as per customer requirements.

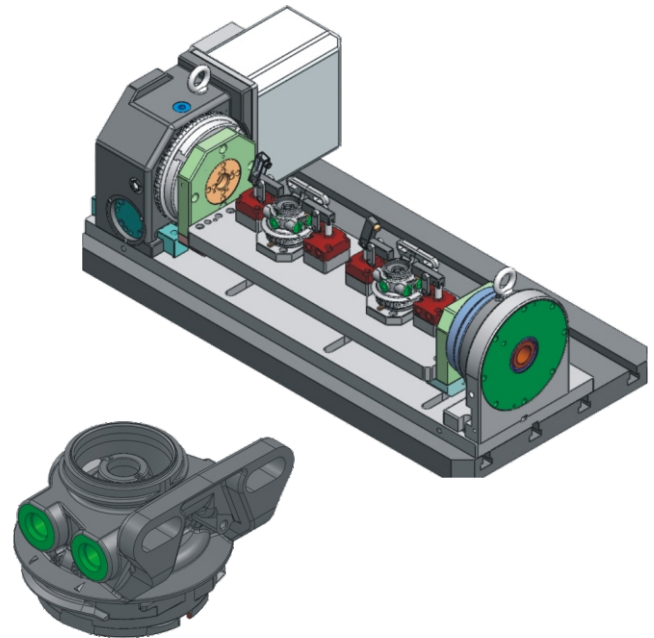
Dedicated team of qualified technicians in design and manufacturing provide cost effective solutions

Requirement: component drawing in STEP / IGES / Auto cad format along with machining details.

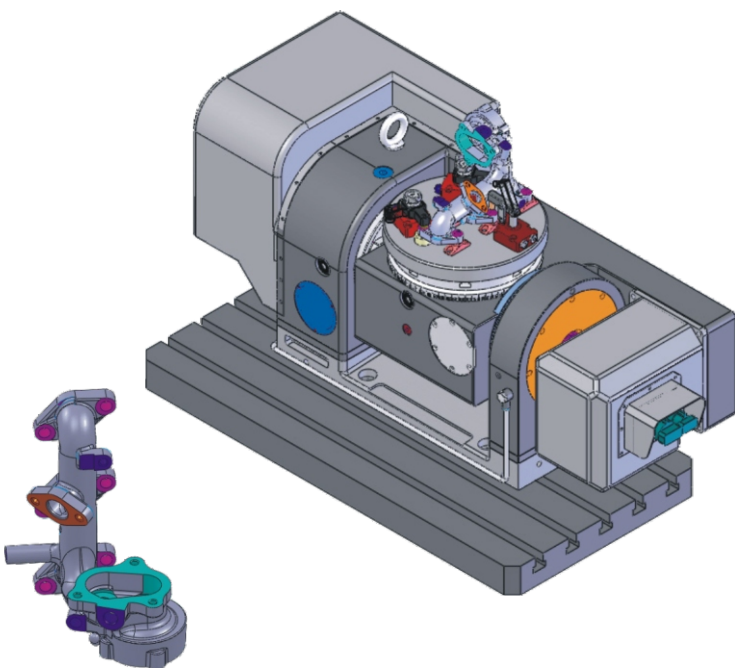
42



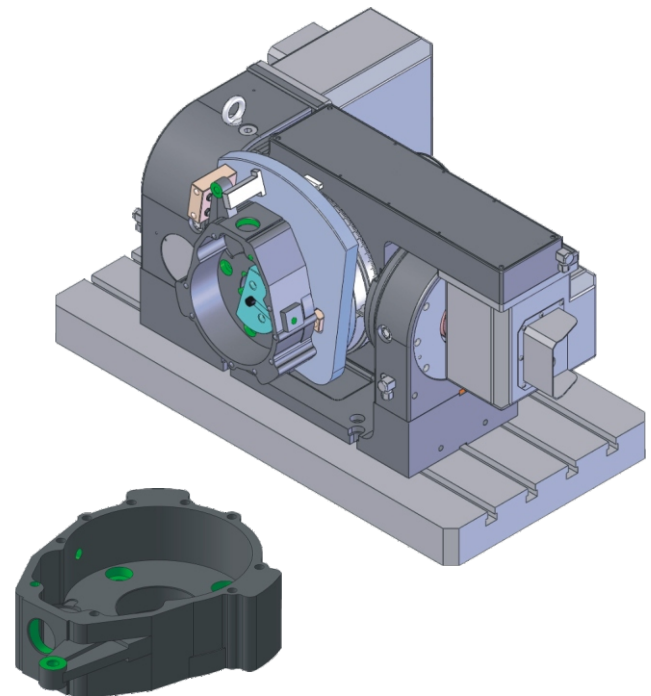
Component: Case chain



Component: Header filter



Component: Housing Turbine



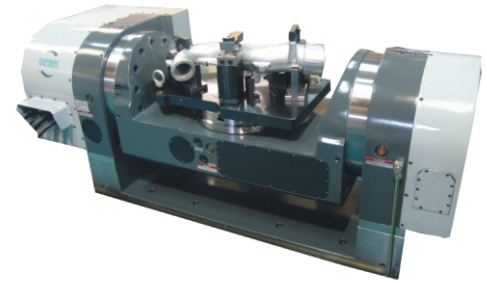
Component: Challenger Housing



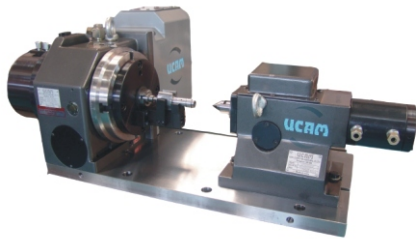
Component: Pump Housing



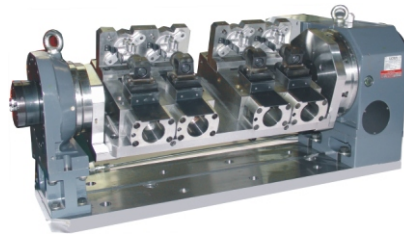
Component: Flange



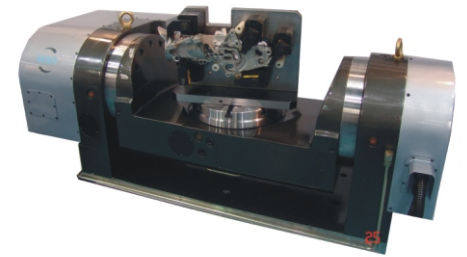
Component: Duct Air



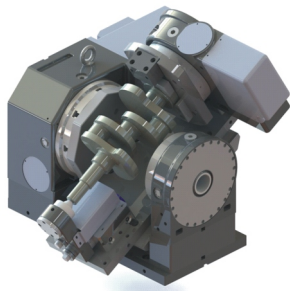
Component: Distributor Rotor



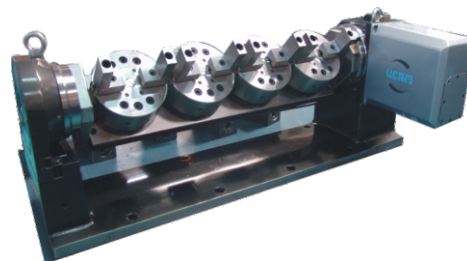
Component: Master Cylinder



Component: Filter Housing



Component: Crank shaft








Component: Basin Mixer



Component: Bearing Cap









Accuracy Standards

CNC Rotary Tables







Model		URH-150	URH-170	URH-201	URH-251	URH-321	URH-401	URH-500	URH-631
Table top Flatness (mm)	Per overall length 	0.01	0.01	0.01	0.01	0.01	0.015	0.015	0.015
Center bore Runout (mm)		0.01	0.01	0.01	0.01	0.01	0.015	0.015	0.015
Table top Runout (mm)		0.015	0.015	0.015	0.015	0.015	0.015	0.02	0.02
Parallelism of Table top base (mm) (Horizontal position)	Per overall length 	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02
Perpendicularity of Table top to base (mm) (Vertical position)	Per overall length 	0.02	0.02	0.02	0.02	0.02	0.02	0.02	0.02

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



Multi Spindle Rotary Tables

Model		URH-125-2S,3S	URH-170-2S,3S
Table top Flatness (mm)	Per overall length 	0.01	0.01
Table top Runout (mm)		0.015	0.015
Parallelism of table top base (mm) (Horizontal position)	Per overall length 	0.02	0.02
Center bore runout (mm)		0.01	0.01
Perpendicularity of Table top to base (mm) (Vertical position)	Per overall length 	0.02	0.02
Parallelism of Table top face to tenon slot (mm) (Vertical position)		0.02	0.02
Center height difference (mm)		0.02	0.02
Height difference on Table top (mm)		0.03	0.03

CNC Tilting Rotary Tables:






Model		URH-152-TN	URH-200-TN	URH-250-TN	URH-320-TN
Table top Flatness (mm)	Per overall length 	0.01	0.01	0.01	0.01
Table top Runout (mm)		0.015	0.015	0.015	0.015
Parallelism of Table top base (mm) (Horizontal position)	Per overall length 	0.02	0.02	0.02	0.02
Center bore Runout (mm)		0.01	0.01	0.01	0.01
Parallelism between Tilt axis center with base (mm)	Per overall length 	0.02	0.02	0.02	0.02
Parallelism between Table Top face and Guide Block (mm)	Per overall length 	0.02	0.02	0.02	0.02

CNC Rotary Tables for Horizontal Application

Model		URH-800	URH-1000	URH-1200	URH-1600
Table Flatness (mm)	Per overall length 	0.015	0.025	0.025	0.025
Table top Runout (mm)		0.02	0.03	0.03	0.03
Parallelism of Table top base (mm) (Horizontal position)	Per overall length 	0.03	0.04	0.04	0.04
Center bore Runout (mm)		0.01	0.01	0.01	0.01





Accuracy Standards

Direct Drive Rotary Table

Model			UDDRT-200/100	UDDR-T900/500H
Table top Flatness (mm)	Per overall length		0.01	0.015
Center bore Runout (mm)			0.01	0.01
Table top Runout (mm)			0.015	0.02
Parallelism of Table top base (mm) (Horizontal position)	Per overall length		0.02	0.02
Perpendicularity of Table top to base (mm) (Vertical position)	Per overall length		0.02	-

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Hydraulic Index Tables

Model			UHID-250	UHID-400	UHID-500	UHID-600
Table Flatness (mm)	Per overall length		0.015	0.015	0.015	0.015
Table top Runout (mm)			0.01	0.01	0.01	0.01
Parallelism of Table top base (mm) (Horizontal position)	Per overall length		0.02	0.02	0.02	0.02
Perpendicularity of Table top to base (mm) (Vertical position)	Per overall length		0.02	-	-	-

Auto Pallet Changers

Model	APC 5039
Pallet top Flatness	0.02
Repeatability in Positioning (sample pallet)	0.01
Parallelism between pallet top to Clamping device base	0.02
Mutual difference in Positioning between two pallet.	0.02

Manual Pallet Changers

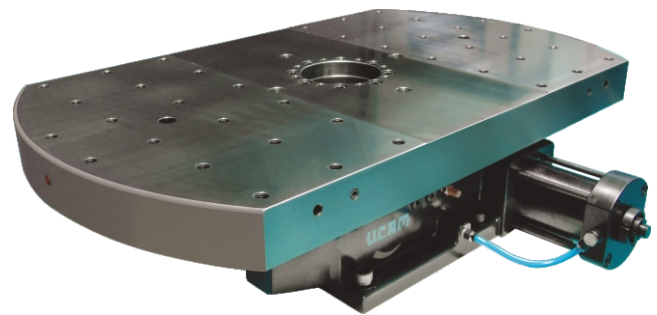
Model	MPC5030	MPC6040
Pallet top Flatness	0.02	0.02
Repeatability in Positioning (sample pallet)	0.01	0.01
Parallelism between pallet Top to Clamping device base	0.02	0.02
Mutual difference in Positioning between two Pallet.	0,02	0,02

Pneumatic Roto Pallet Changer: URPC-6040-P

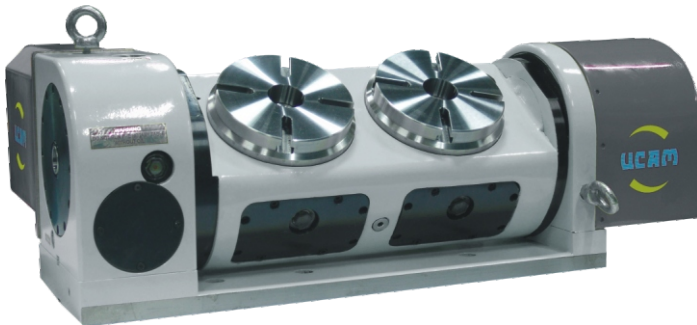
Key Specifications

Pallet size (mm)	600 x 400
Max. Load on Pallet (Kgs / pallet)	200
Pallet Change Time (sec)	3.5
Pneumatic Drive (bar)	5

Other models on available request



Two Spindle CNC Tilting Rotary Table: URH-I 50-TNRP-2S



Key Specifications

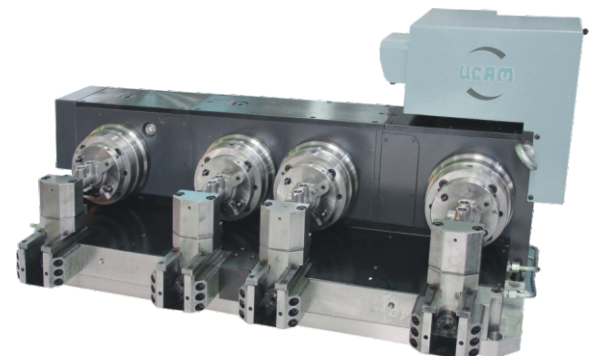
Table Top Diameter (mm)	150
Tilting Angle	$\pm 110^\circ$
Center Distance between Spindle (mm)	175

Other models on request

Four Spindle CNC Rotary Table: URH-I 70-4S

Key Specifications

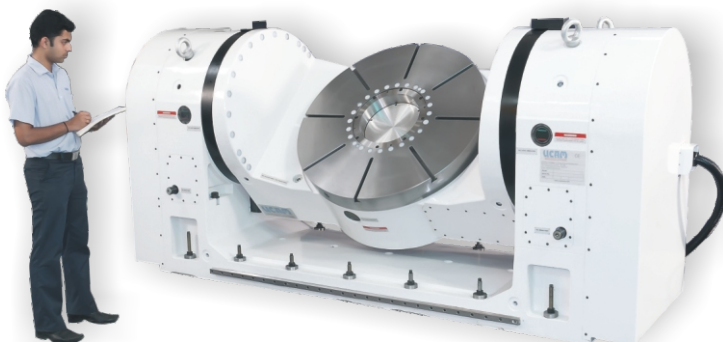
Table Top Diameter (mm)	170
No. of Spindle	4
Clamp Torque (Hydraulic-30 bar)(Nm)	450



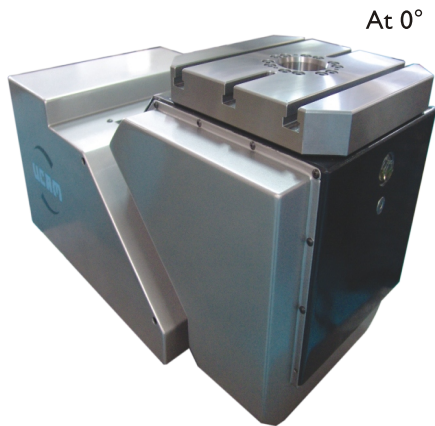
Deep Tilting Table Dia. 1200: URH-I 200-DTS

Key Specifications

Table Top Diameter (mm)	1200
Swing Diameter (mm)	1500
Load Capacity (Kgs)	5000
Positioning Accuracy (Arc Sec)	± 5
Clamp Torque - Rotary axis (Nm)	20000
Clamp Torque - Tilt axis (Nm)	45000



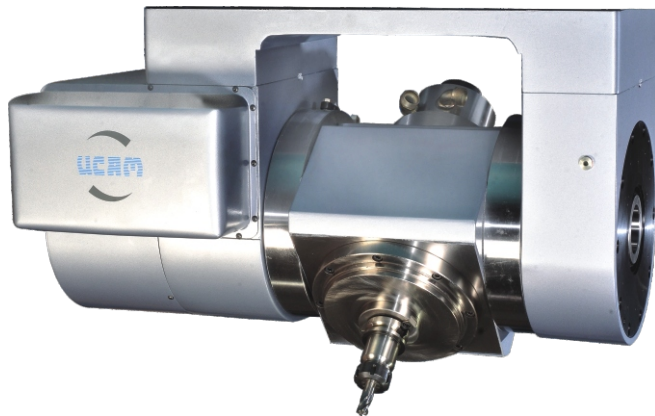
5 Face Machining Table



Key Specifications

	Rotary axis	Swivel axis
Turn Table Size (mm)	250sq	-
Driving Torque (Nm)	900	1100
Drive Option	Servo	Servo/ Hydraulic
Load Capacity (Kgs)	120	

Tilting Head for Spindle



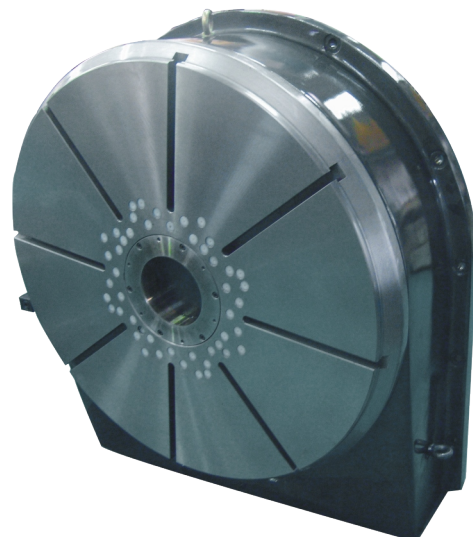
Key Specifications

Driving Torque (Nm)	636
Clamping Torque (Nm)	2200
Spindle Power (Kw)	16

Dia 1200 Horizontal/Vertical Rotary Table

Key Specifications

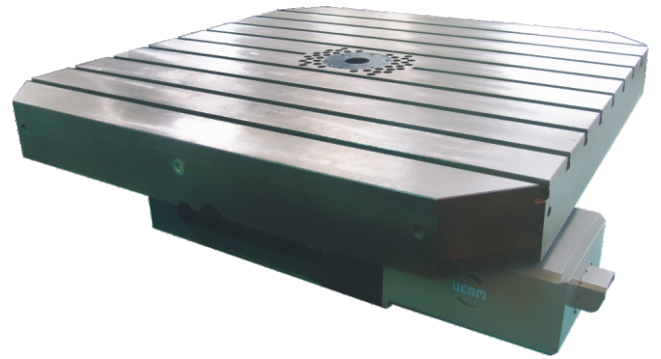
Table Top Diameter (mm)	1200
Load Capacity (Horizontal) (Kg)	5000
Load Capacity (Vertical) (Kg)	3000
Tilting Moment (Horizontal) (Nm)	2000
Tilting Moment (Vertical) (Nm)	6000
Clamp Torque (Hydraulic 30bar) (Nm)	15000



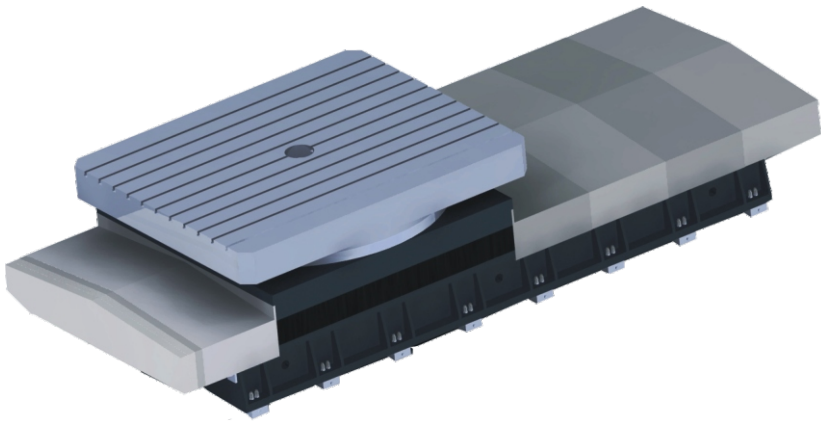
Large Size Rotary Table

Key Specifications

Turn Table Size (mm)	2500sq
Load Capacity (Kgs)	22000
Accuracy (Arc Sec)	±5



Large Size Rotary Table With W-Axis



- W-Axis stroke as per requirement
- Also available with rectangular table top
- Bigger sizes on request
- Detailed specifications on request

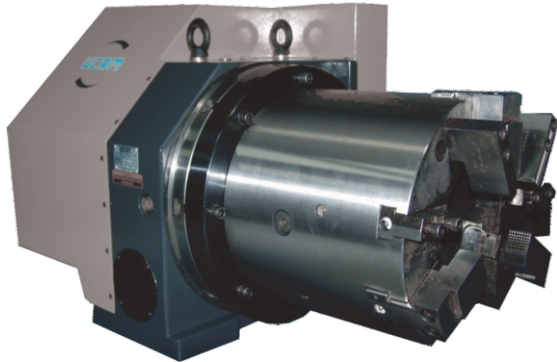
Direct Drive Tilting Table - Model UDDR-130T

Key Specifications

Turn Table size	Ø130
Load Capacity (Kgs)	25
Clamp Torque @5 (Bar) pneumatic	100



CNC Rotary Table for Crank Shaft Milling

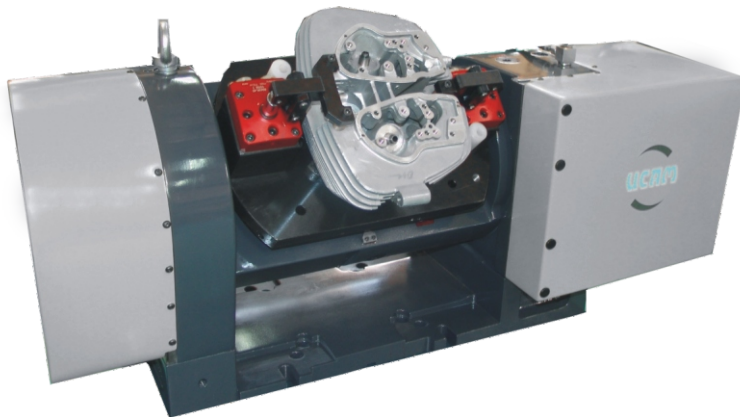


Sector Table

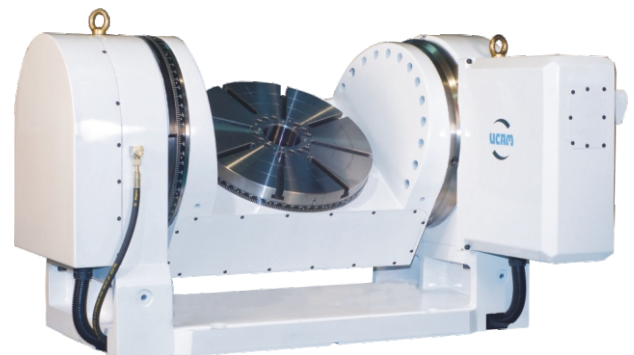


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Large Swing Tilting Rotary Table with Component fixture



Deep Tilting Rotary Table Dia 500mm



4-Spindle Rotary Table with Power Chuck

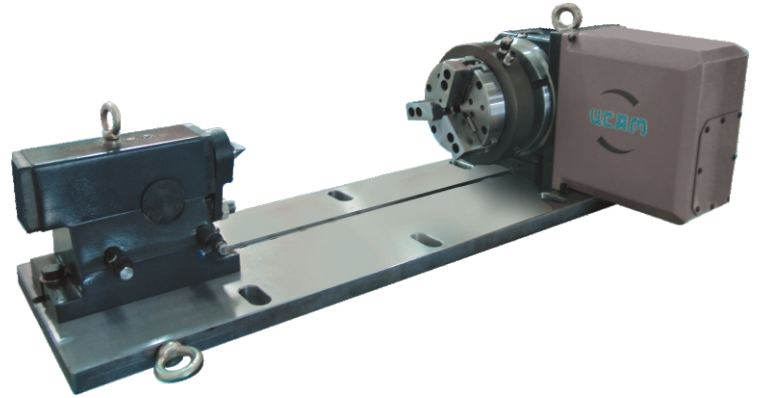


Product Gallery

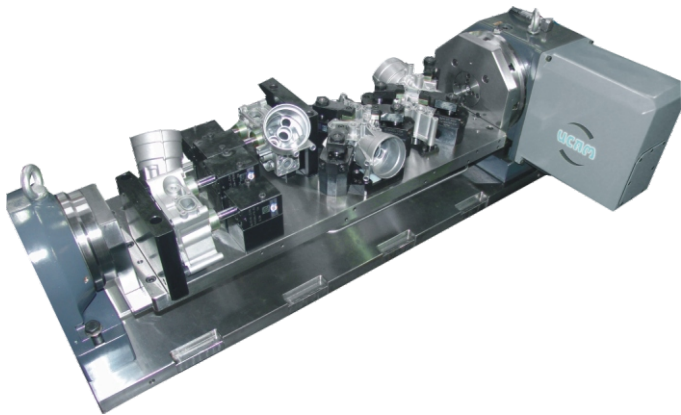
**Two Spindle CNC Rotary Table:
URH-320-RH-2S**



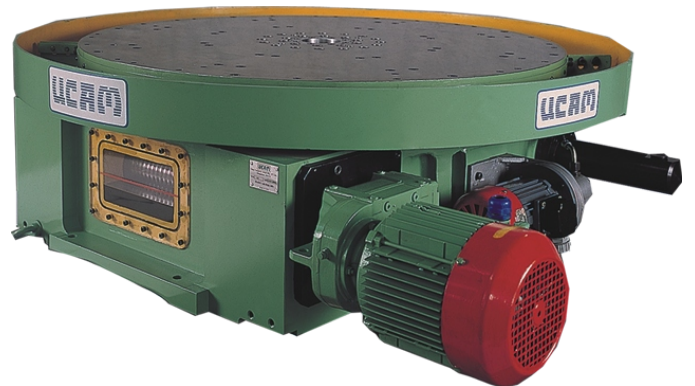
**CNC Rotary Table with
Rotary Air Chuck &
Compact Pneumatic Tailstock**



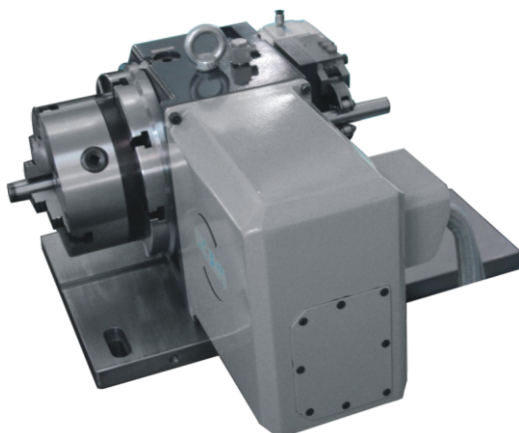
**Rotary Production System
with Component fixture**



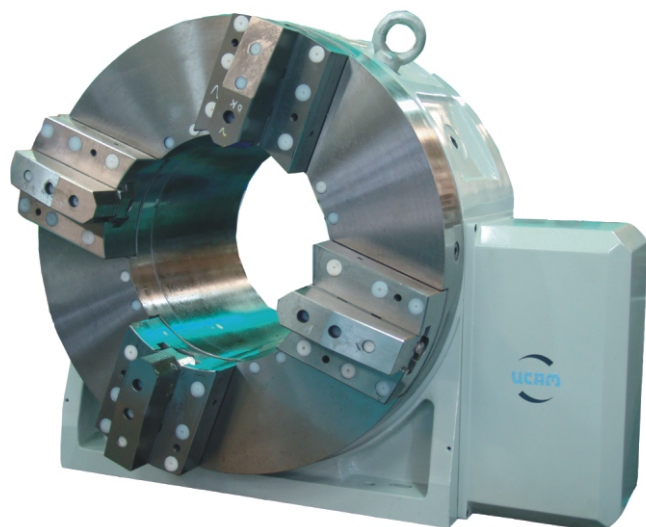
**Continuous Rotary
Milling/ Grinding Table**



**CNC Rotary Table with
Chuck & Steady Rest**



**Ø1000 Large Bore CNC Rotary Table
with Integrated 4-Jaw Manual Chuck**





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UCAM Website



Dia 1200 Deep tilting Table

Catalogue No. UCAM-Gen-2013/1

UCAM reserves the right to change specifications and dimensions without prior information.

Компания "**ИНТЕРТУЛМАШ**" - поставщик оборудования

UCAM в России.

UCAM – индийская компания, широко известная в сегменте точного вспомогательного оборудования для металлообрабатывающих станков. Особое место в производстве компании занимают поворотные столы и базы для прецизионной линейки.



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