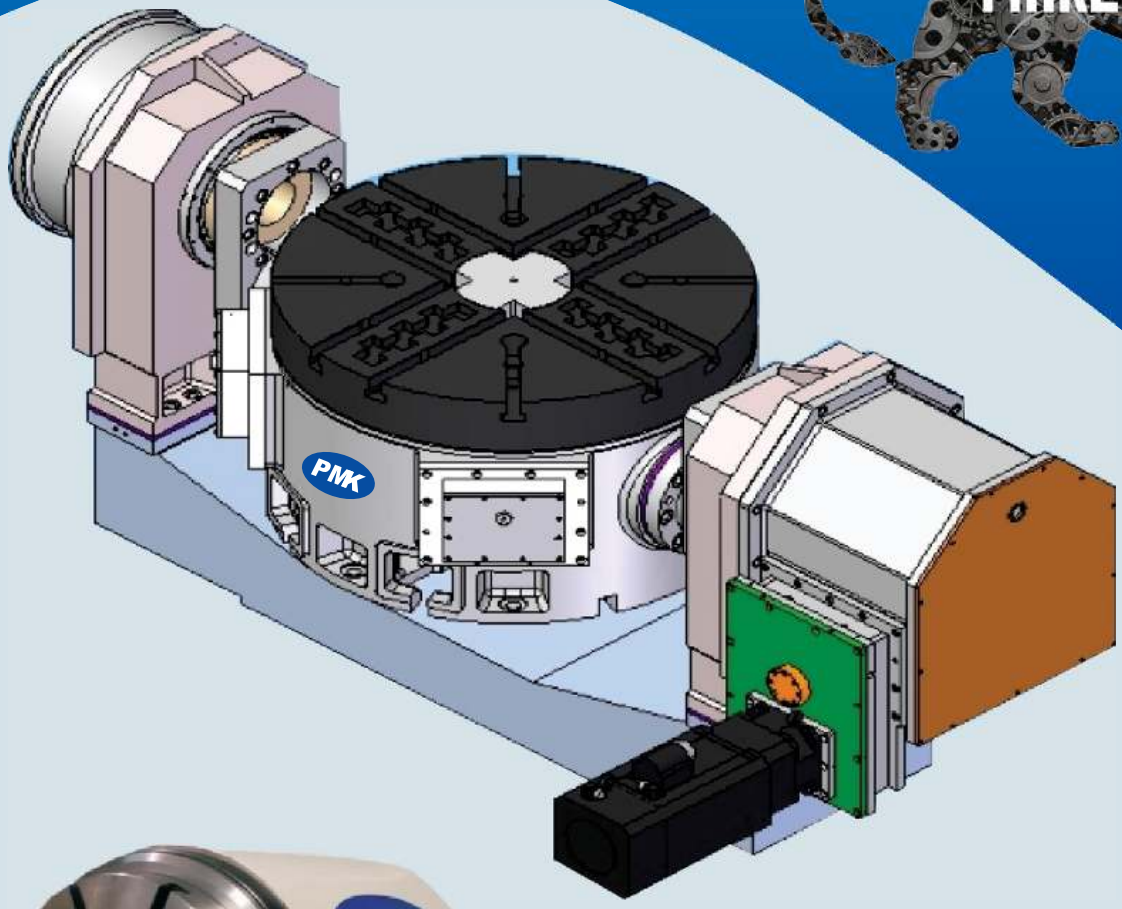
PRECISION ROTARY TABLES









PMK

Precision Machinekraft (P) Ltd.,
www.pmkindia.com

Precision MachineKraft is a unique organization having more than 5 decades of experience in serving Machine Tool Industry. We are leading manufacturers of

- Precision High Frequency Spindles for Turning, Milling, Drilling and Grinding applications
- Precision Ground and Rolled Ball screw from 8 mm to 140 mm and 6 meter longs as per C2, C3, C5 and C7 class of accuracy
- Precision Planetary roller screw upto 3 meter long.
- NC rotary Tables from 170mm to 5000mm dia with pneumatic and hydraulic clamping
- Indexing Table, Production system, Tilting Rotary Table and Automatic Pallet Changer
- Tail-stock, Tail support with pneumatic and hydraulic clamping.
- Precision Ground Locknuts
- Precision Bearings like Taper Roller, Cross Roller, Double Row Angular contact, Thrust Bearing, Wire Race Bearing and Slewing Ring Bearings
- Special / Customised CNC machines

Other Products

Linear elevation actuators
Outriggers
Mast-Pneumatic
Frangible Mast
Gimble

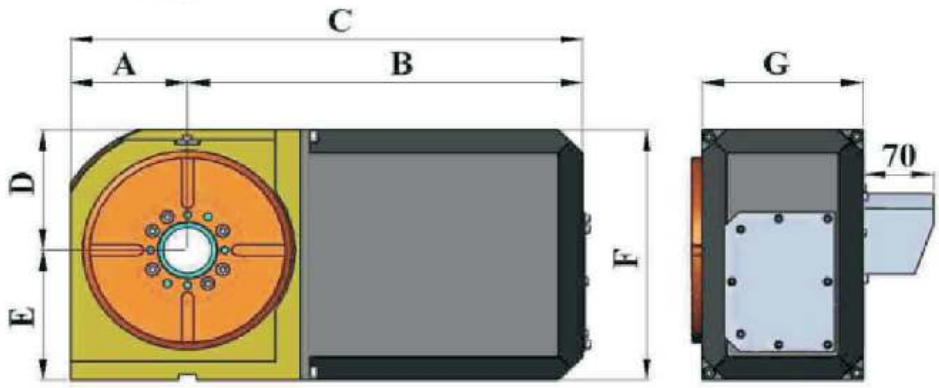
Azimuth
elevation System
Electro-mechanical Mast
Rack Traverser Unit





PMK NC ROTARY TABLES





MODEL	RH 170	RH 200	RH 250	RH 320	RH 400
Dimension A	110	120	140	170	206
Dimension B	342	360	490	475	545
Dimension C	452	80	580	645	651
Dimension D	100	130	140	175	210
Dimension E	132	140	160	210	230
Dimension F	235	272	301	380	430
Dimension G	160	171	204	204	240
Table Diameter	170	200	250	320	400
Thru Hole Diameter	40	60	60	60	60
AC Servo Motor - Fanuc	α2/5000i	α4/4000i	α4/4000i	α8/3000i	αc12/3000i
AC Servo Motor - Siemens	1FK704257F71	1FK70605AF71	1FK70605AF71	1FK70805AF71	1FK70805AF71
Gear Ratio	1:90	1:90	1:120	1:180	1:180
Maximum R.P.M.	55.5	44.4	33.3	16.6	16.6
Minimum Resolution (Degree)	0.001	0.001	0.001	0.001	0.001
Indexing Accuracy (Second)	±15	±15	±15	±15	±15
Repeatability (Second)	±4	±4	±4	±4	±4
Clamping Force (Nm) HYD	480	530	620	1200	2200
-Air Pressure at 6bar	210	270	425	NA	NA
Permissible Load Kg- Horizontal	353	441	551	772	900
- Vertical	176	220	276	386	430
Weight (kg)	51	63	112	218	263

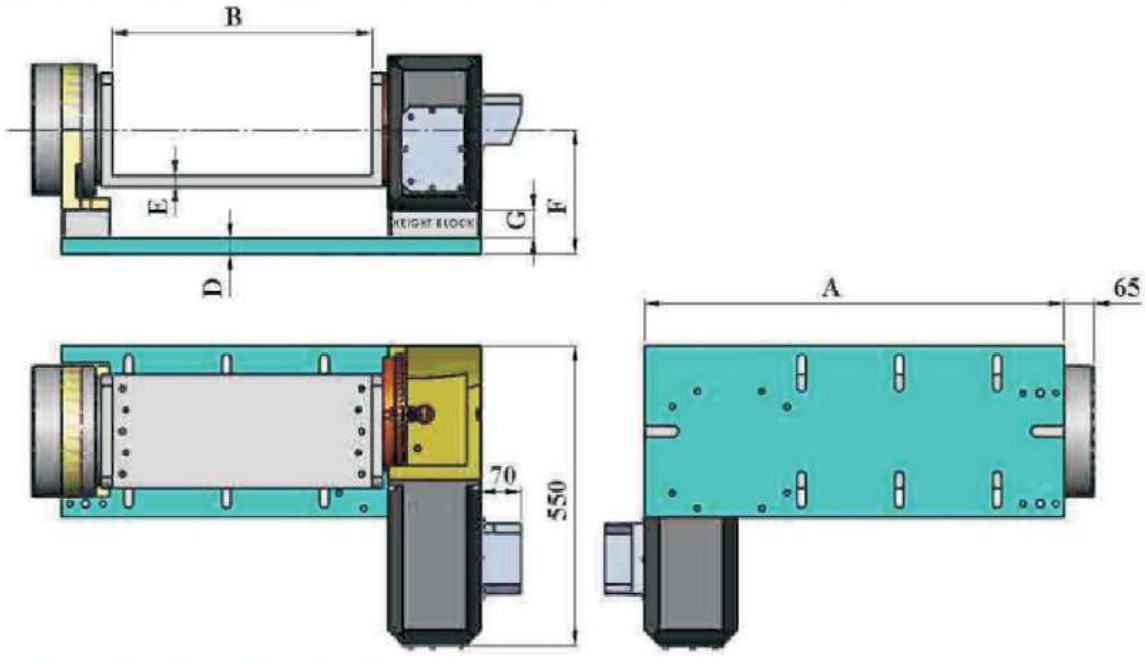
*Special purpose Rotary Tables up to 4500 mm dia can be manufactured as per customer requirements.

LARGE BORE ROTARY TABLE



Large Bore Rotary Table					
Model		LBRT255	LBRT320	LBRT400	LBRT500
Diameter (mm)		255	320	400	500
Center Height (mm)		160	210	255	310
Overall Height (mm)		305	380	465	560
Center Bore Diameter (mm)		100H7	120H7	180H7	220H7
T-Slot (mm)		12	14	14	18
Indexing Accuracy (arc sec)		±20"			
Repeatability (arc sec)		4"			
Speed Reduction Ratio		1:120	1:120	1:180	1:180
Rated Speed (rpm)		25	25	16.6	16.6
Allowable Load Capacity	Vertical (kg)	200	225	240	320
	Horizontal (kg)	640	750	800	960
	With Tail-Stock (kg)	400	450	480	640
Weight (kg)		100	180	270	400





	A	B	C	D	E	APPROX WT.	F
RTPS 170	750	350	175	28	25	166	160
RTPS 200	850	450	225	28	25	177	168
RTPS 250	950	550	275	28	25	190	188
RTPS 320	1050	650	275	40	30	200	250
RTPS 400	1150	750	275	40	30	235	270

4TH & 5TH AXIS TILTING ROTARY TABLE

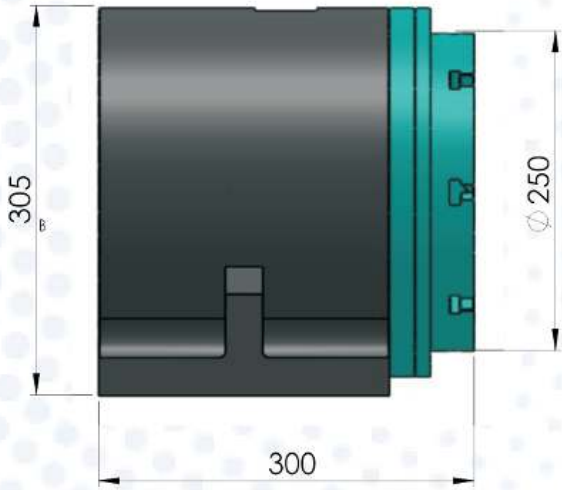


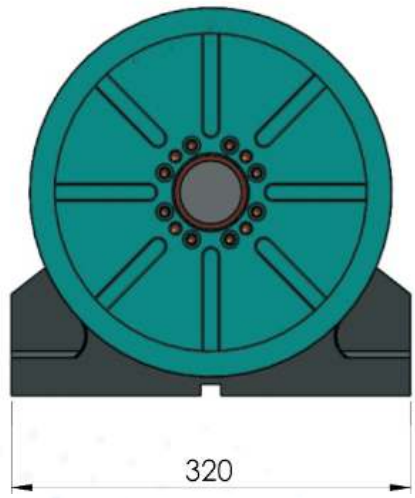
Model		TRT 125		TRT 170		TRT 200		TRT 250		TRT 320	
Worktable Diameter (mm)		125		170		200		250		350	
Table Height (Horizontal Position) (mm)		236		264.5		265		315		350	
Overall Height (Vertical Position) (mm)		260		388.5		389		395		450	
Table Center Height (Vertical Position) (mm)		150		189.5		190		235		280	
Centre Bore Diameter (mm)		25 H7		35 H7		40 H7		40 H7		100 H7	
Centre Bore Diameter (mm)		25		35		40		40		100	
Width of T-Slot (mm)		12 H7		12 H7		12 H7		12 H7		14 H7	
Width of Guide - Block (mm)		14 H7		18 H7		18 H7		18 H7		18 H7	
		Rotary	**Tilting**	**Rotary**	**Tilting**	**Rotary**	**Tilting**	**Rotary**	**Tilting**	**Rotary**	**Tilting**
Servo Motor (FANUC)		α2/4000i	β4/4000i	α2/4000i	β4/4000i	β4/4000i	β8/2000i	β8i/2000	β8i/2000	β8i/2000	β12/2000i
Servo Motor (Siemens)		**1FK7042-5AF71**	**1FK7042-5AF71**	**1FK7042-5AF71**	**1FK7042-5AF71**	**1FK7060-5AF71**	**1FK7060-5AF71**	**1FK7060-5AF71**	**1FK7060-5AF71**	**1FK7060-5AF71**	**1FK7060-5AF71**
Total Speed Reduction Ratio		1:90	1:90	1:90	1:90	1:90	1:90	1:120	1:120	1:180	1:180
Minimum Input Increment		0.001^0	0.001^0	0.001^0	0.001^0	0.001^0	0.001^0	0.001^0	0.001^0	0.001^0	0.001^0
Table Rotation Speed (RPM)		33.3	33.3	33.3	33.3	33.3	22	16	16	16.6	16.6
Load Capacity	0^0 Tilting Angle (kg)	55		50		50		100		200	
	0^0 - 90^0 Tilting Angle (kg)	40		35		35		50		100	
Max. Diameter of Workpiece (mm)		40		170		210					
Clamping Torque		5 Bar Pneumetic Pressure	30 Bar Hydraulic Pressure	5 Bar Pneumetic Pressure		5 Bar Pneumetic Pressure		5 Bar Pneumetic Pressure	30 Bar Hydraulic Pressure	5 Bar Pneumetic Pressure	30 Bar Hydraulic Pressure
Rotation Axis	Indexing Accuracy	±30"		±15"		±15"		±15"		±15"	
	Repeatability	4"		4"		4"		4"		4"	
Tilting Axis	Indexing Accuracy	±40"		±30"		±30"		±30"		±60"	
	Repeatability	6"		6"		6"		30"		30"	
Tilting Angle		-20^0-$+110^0$		-20^0-$+110^0$		-20^0-$+110^0$		-20^0-$+110^0$		-20^0-$+110^0$	
Net Weight (kg)		150		155		160		290		750	

DIRECT DRIVE ROTARY TABLE



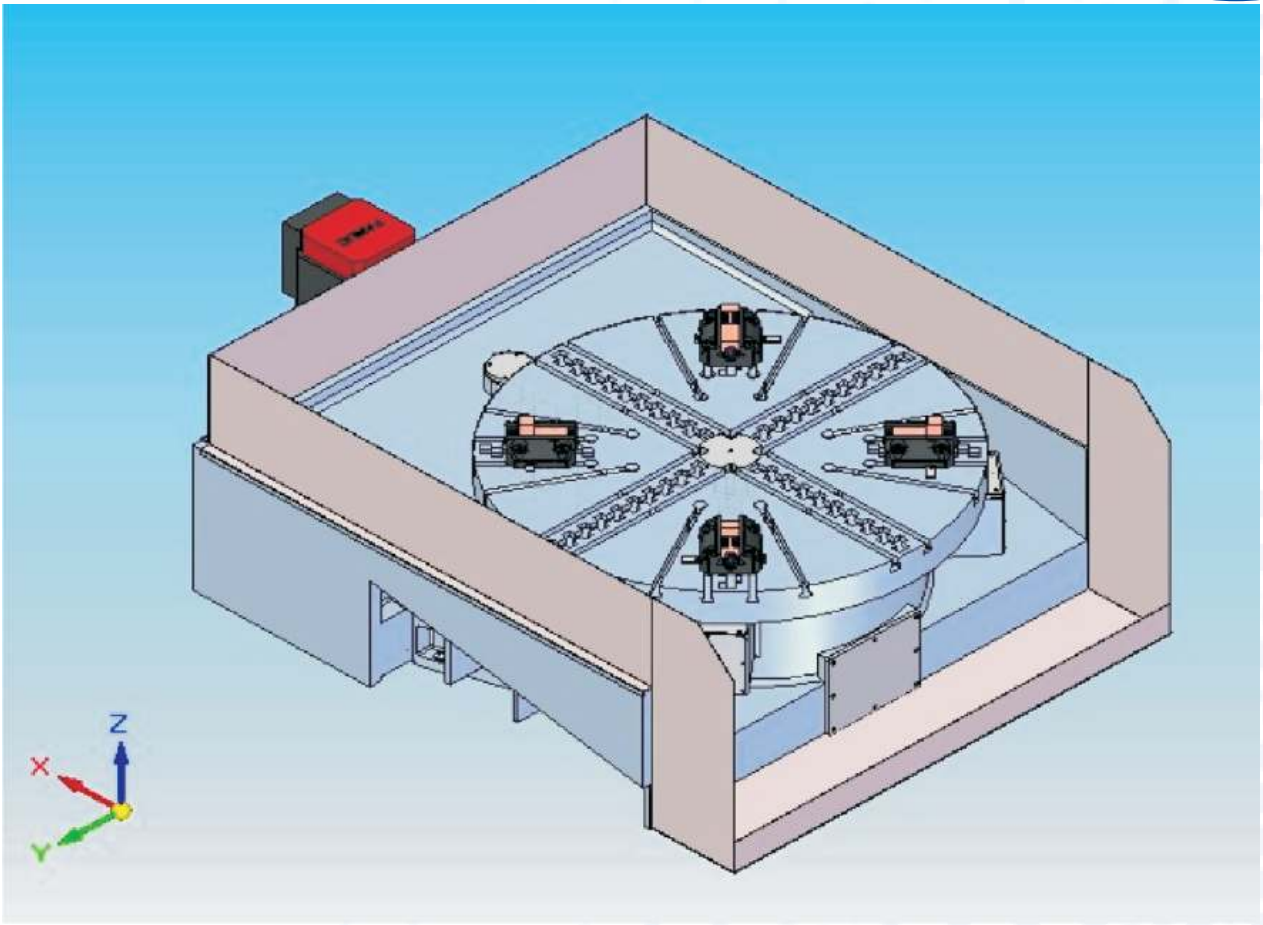
Built in Torque Motor
High Torque & Compact Design





Direct Drive Rotary Table				
Model	**DDR135**	**DDR200**	**DDR250**	**DDR320**
Diameter (mm)	135	200	250	320
Center Height (mm)	120	150	170	220
Motor Voltage (V)	AC 220/380			
Continuous Torque (Nm)	35	150	350	450
Rated Speed (rpm)	200	200	100	60
Allowable Load (kg)	25	55	180	250
Indexing Accuracy (arc sec)	±8			
Repeatability (arc sec)	4"			
Weight (kg)	25	55	130	300

LARGE ROTARY TABLE UNIT



SPECIFICATIONS:-

TABLE DIAMETER ---------- 4500 MM

TABLE INDEXING SPEED ---------- 0.01 TO 1 RPM

(OPTIONALLY) TABLE ROTATIONAL SPEED FOR TURNING ---------- 1 TO 10 RPM

TABLE POSITIONAL ACCURACY (INDEXING WITH CNC COMPENSATION) ---- +/- 15ARC SEC

MAX. JOB WEIGHT ON TABLE ---------- 20,000 KG

MAX. CUTTING LOAD AT 2000 MM HT. & AT 2000 MM RADIUS ---------- 2000 KG

RADIAL SUPPORT BEARINGS ---------- ROLLER BRS.

AXIAL SUPPORT BEARING ---------- HYDROSTATIC

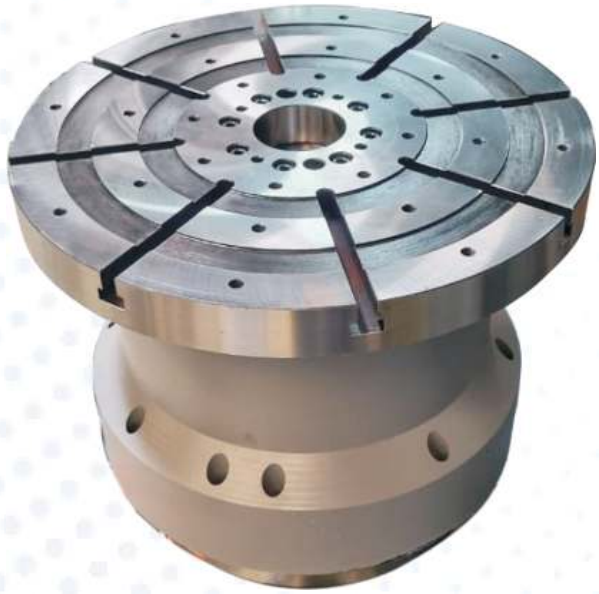
TABLE WITH 8 PAIRS OF 'T' SLOTS FOR JAW BOXES (OPTIONAL)

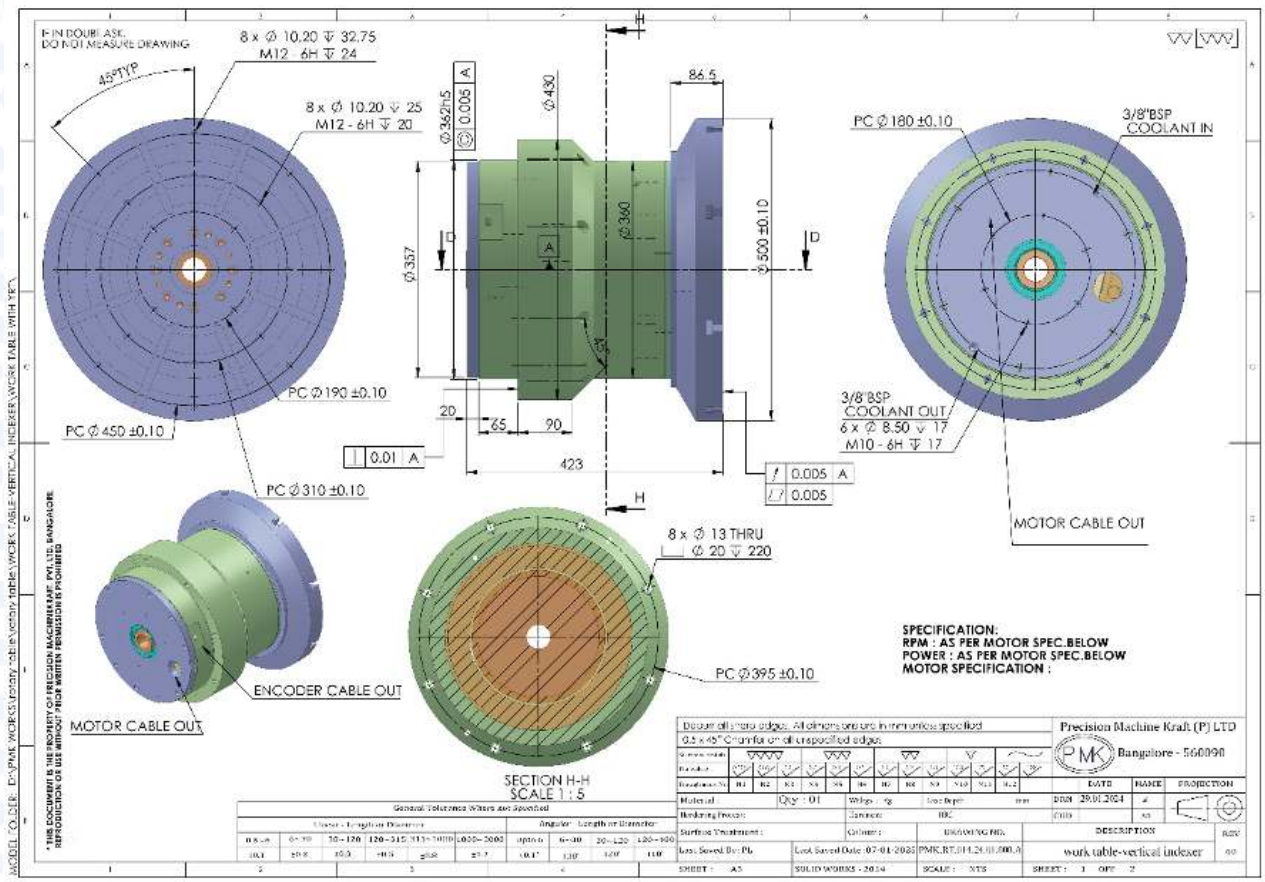
TABLE DRIVE (INDEXING) ---------- SERVOMOTOR WITH PLANETARY GEAR BOX

(OPTION) TABLE DRIVE (INDEX +TURNING) - SPINDLE MOTOR WITH GEAR BOX

*Special purpose Rotary Tables up to 4500 mm dia can be manufactured as per customer requirements.

DIRECT DRIVEN HORIZONTAL ROTARY TABLE



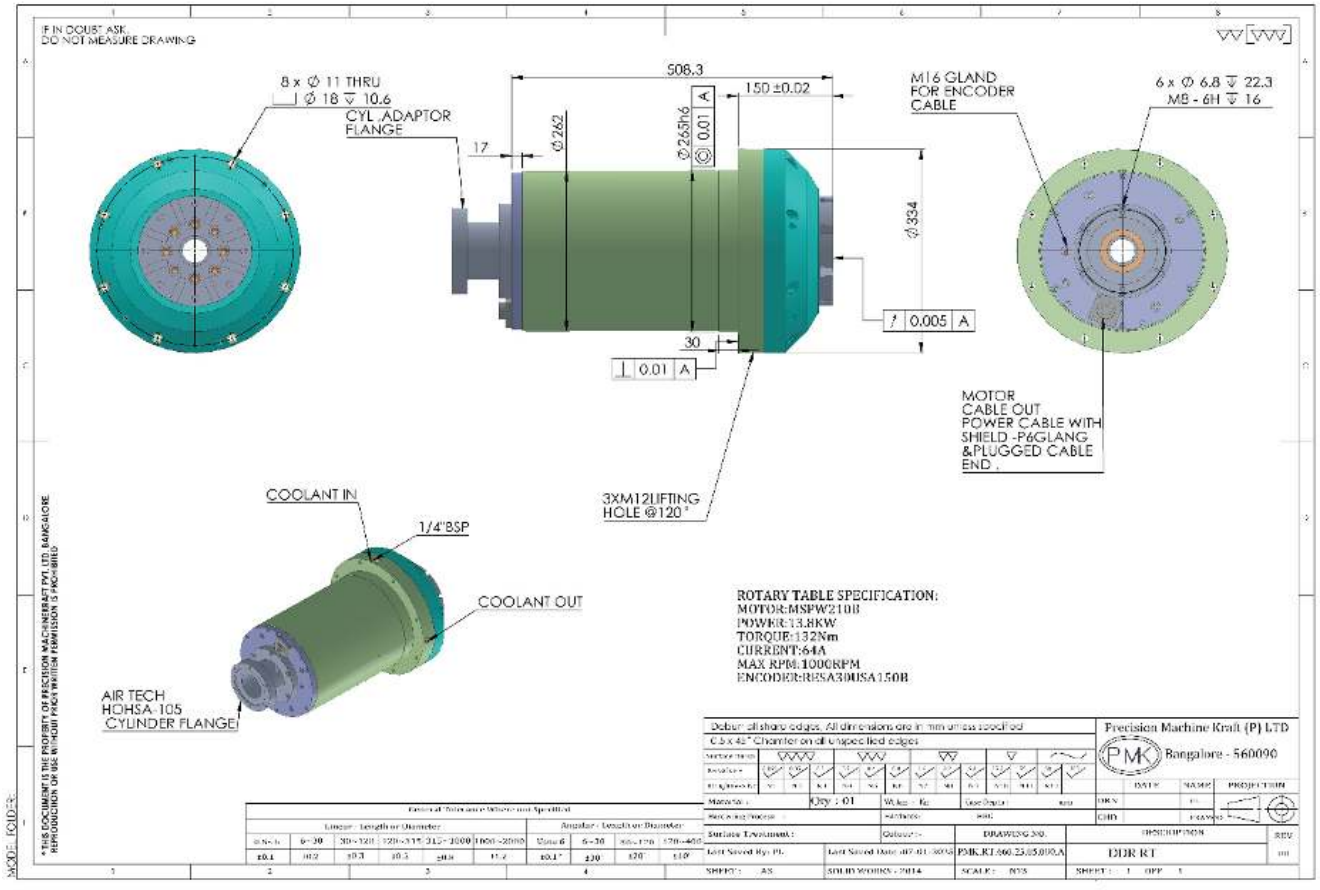


Direct Drive Horizontal Rotary Table						
Model	**PMKDDH150**	**PMKDDH200**	**PMKDDH250**	**PMKDDH400**	**PMKDDH500**	**PMKDDH10000**
Table Diameter (mm)	150	200	250	400	500	1000
Motor Voltage (V)	AC 220/380					
Rated Speed (rpm)	200	200	150	150	70	70
Torque (Nm)	40	125	350	350	480	830
Allowable Load (kg)	28	100	150	260	500	1000
Indexing Accuracy (arc sec)	±10"					
Repeatability (arc sec)	4"					
Weight (kg)	45	80	130	280	330	1100

*Size can customised as per customer requirements.

GEAR HOBBING MACHINE DIRECT DRIVE ROTARY TABLE

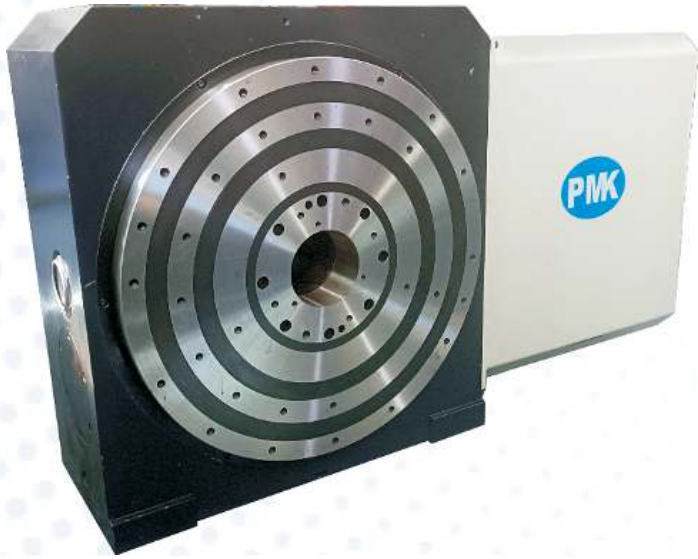


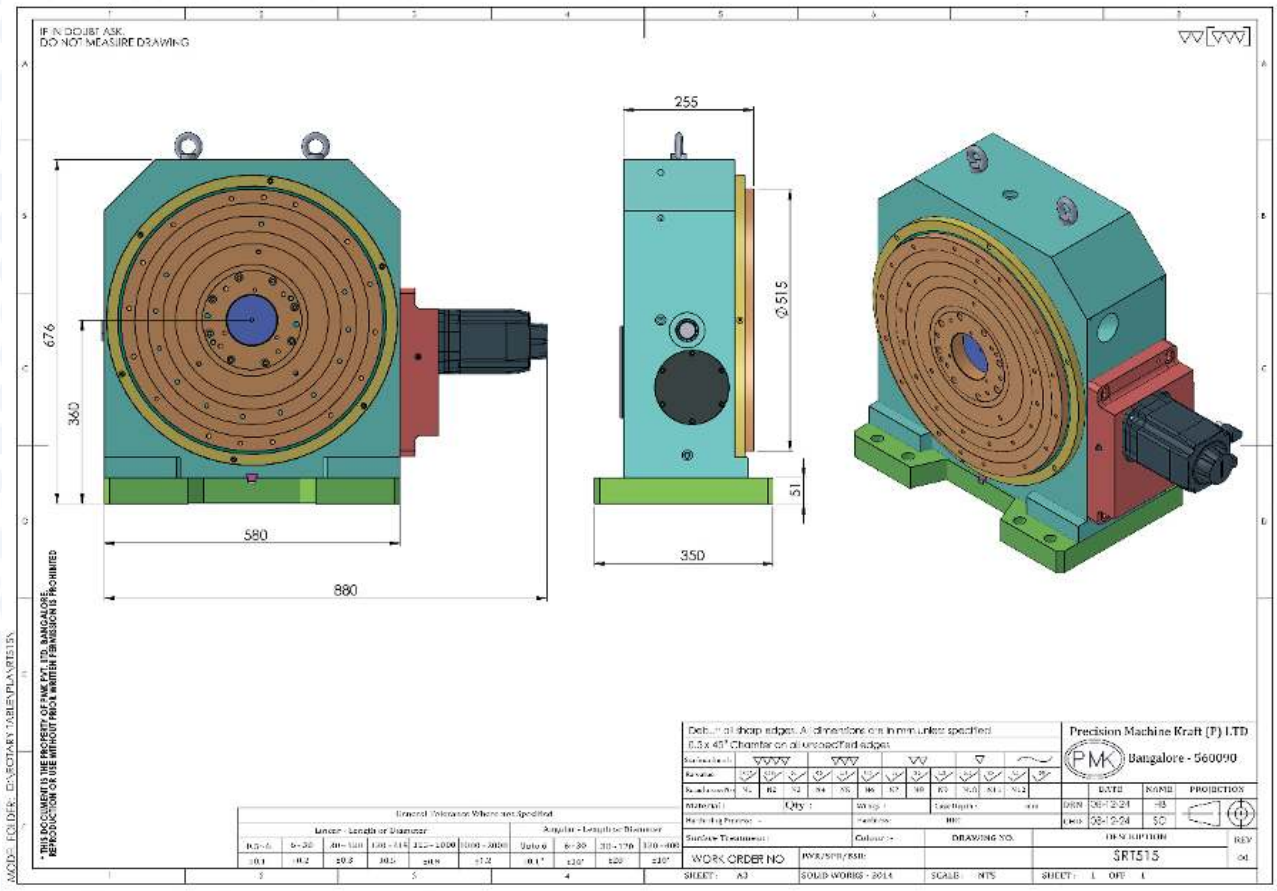


Work Table Direct Drive Used For Gear Hobbing Machine					
Model	**GHDDR180**	**GHDDR260**	**GHDDR500**	**GHDDR600**	**GHDDR800**
Table Diameter (mm)	180	260	500	600	800
Motor Voltage (V)	AC 220/360				
Rated Speed (rpm)	200	200	80	75	60
Torque (Nm)	132	370	2000	2500	3000
Allowable Load (kg)	200	380	500	900	1100
Indexing Accuracy (arc sec)	±8"				
Repeatability (arc sec)	4"				
Weight (kg)	80	120	300	400	600

*Size can customised as per customer requirements.

SPECIAL ROTARY TABLE



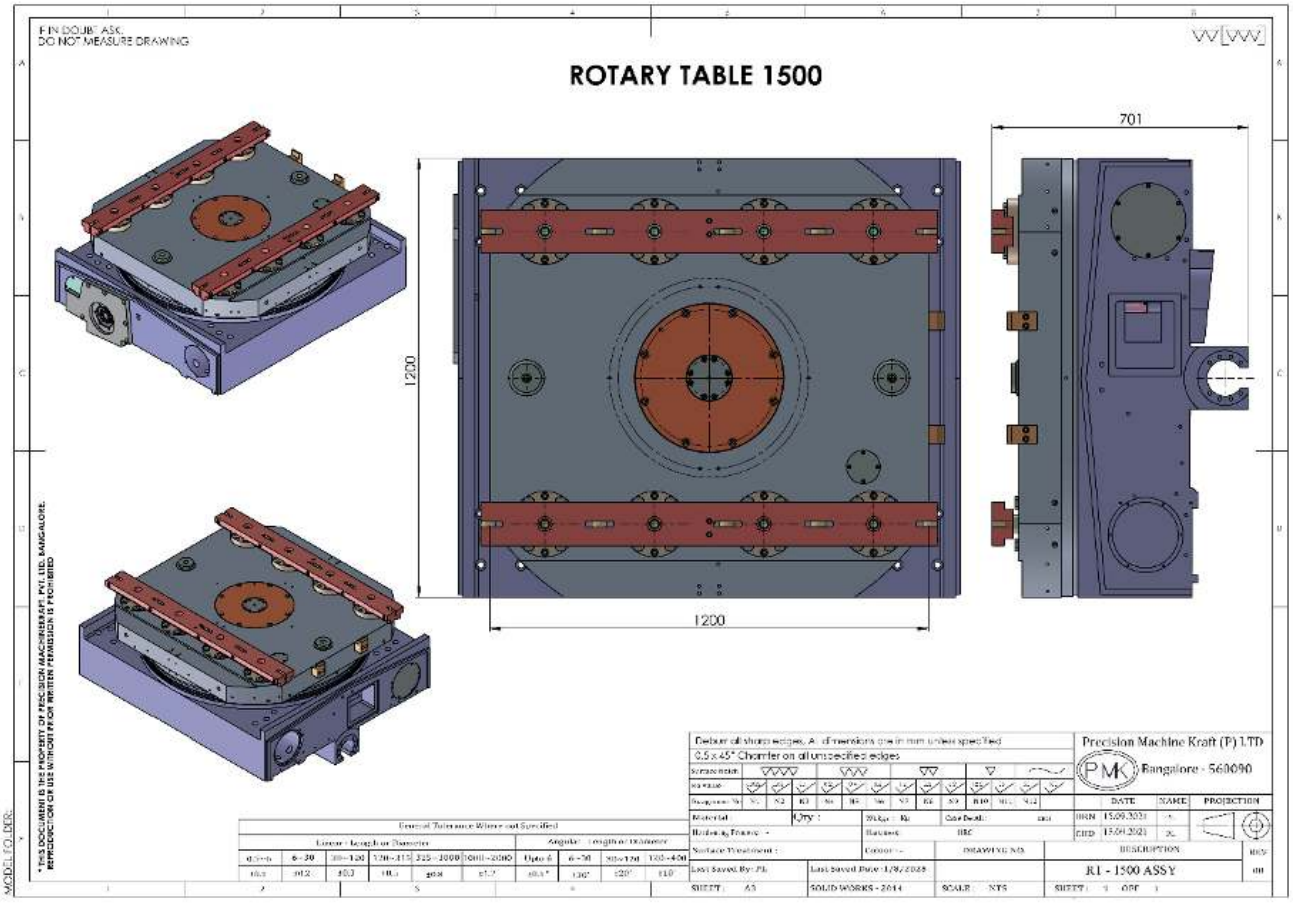


Special Rotary Table					
Model	**SRT400**	**SRT515**	**SRT650**	**SRT810**	**SRT1000**
Table Diameter (mm)	400	515	650	810	1000
Rotary Table Center Height (mm)	240	310	355	210	330
Servo Motor (Nm)	12	12	16	16	27
Speed Reduction Ratio	1:180	1:180	1:180	1:180	1:360
Rated Speed (rpm)	11	11.11	11.11	11.11	5.5
Allowable Load Capacity Vertical (kg)	400	550	700	1300	1500
Allowable Load Capacity Horizontal (kg)	800	1250	1400	3000	4000
Clamp Type 30bar	Hydraulic				
Indexing Accuracy (arc sec)	±15"				
Repeatability (arc sec)	4"				
Net Weight (kg)	280	600	800	1400	2000

*Size can customised as per customer requirements.

LARGE ROTARY TABLE WITH ZERO POINT CLAMPING SYSTEM

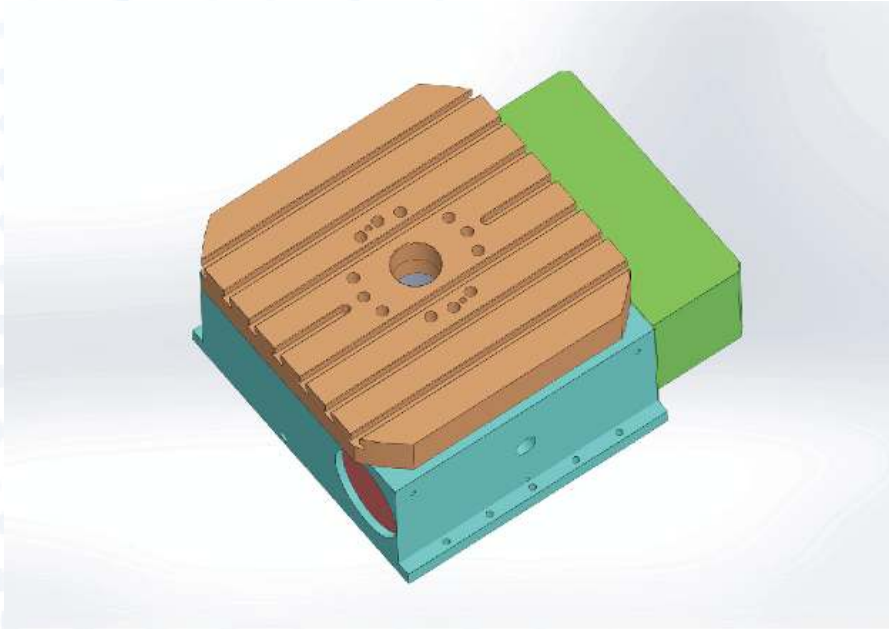


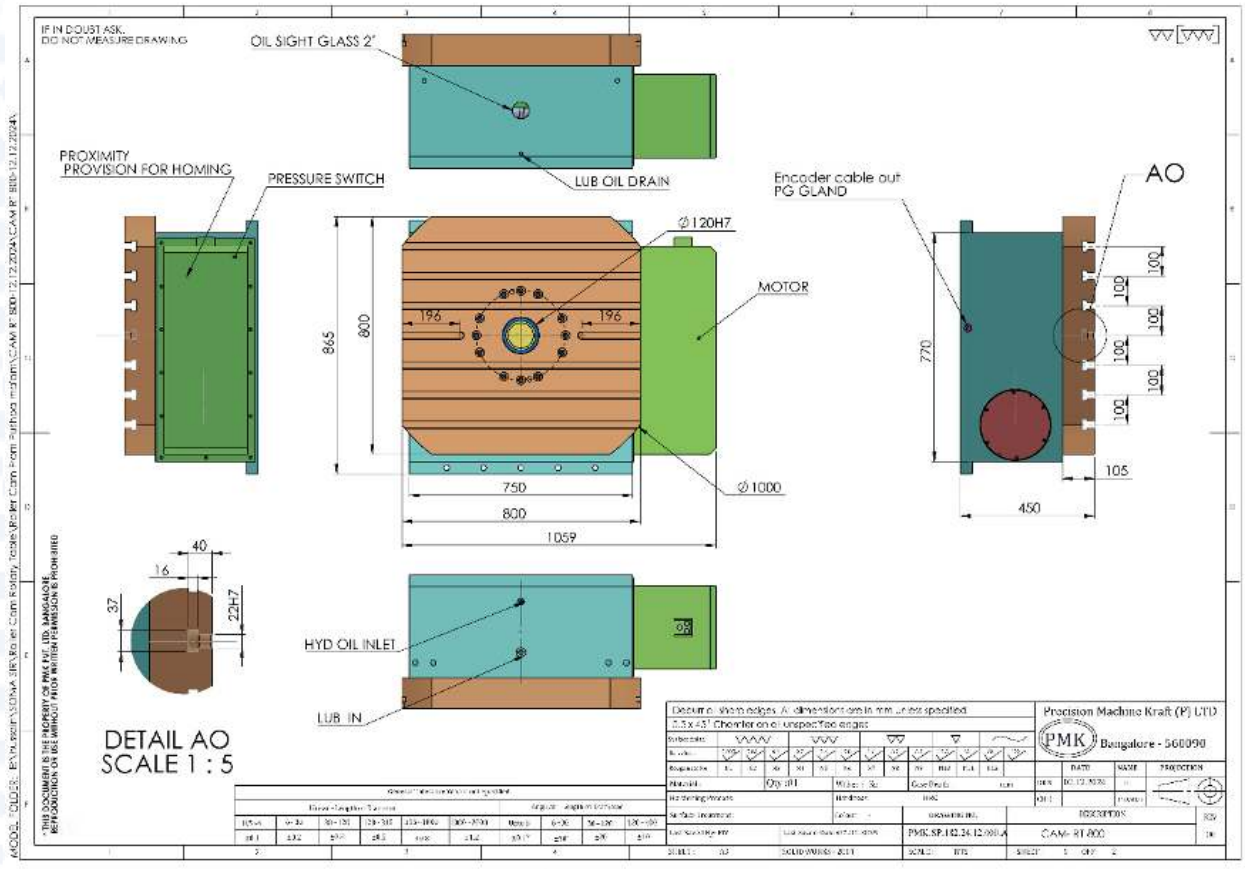


Large Rotary Table as Pallet Receiver with Zero Point Clamping Systems					
Model	**LRT 1000**	**LRT 1500**	**LRT 2000**	**LRT 2500**	**LRT 3000**
Table Diameter (mm)	1000	1500	2000	2500	3000
Load Capacity Horizontal (kg)	10000	20000	25000	30000	35000
Servo Motor Torque (Nm)	27	36	47	56	62
Indexing Accuracy (arc sec)	±15"				
Axial Runout (mm)	0.02	0.02	0.04	0.05	0.06
Radial Runout (mm)	0.02	0.02	0.02	0.03	0.03
Repeatability (arc sec)	44"				6"
Number Of Guideways (Nos.)	2				
Clamping Type	Hydraulic				

*Size can customised as per customer requirements.

HORIZONTAL ROTARY TABLE

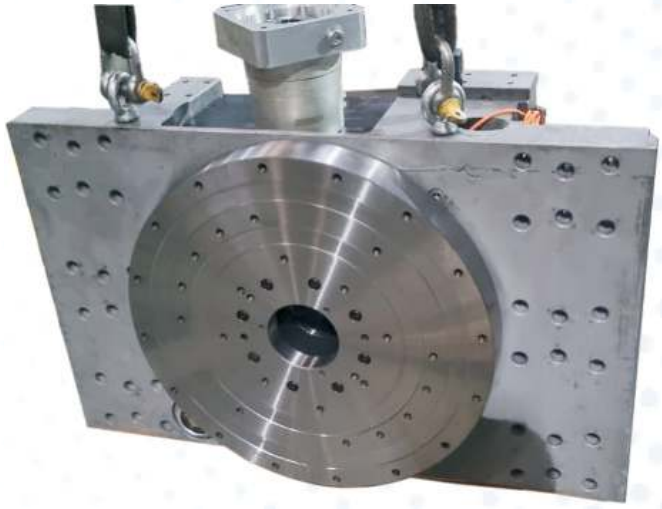


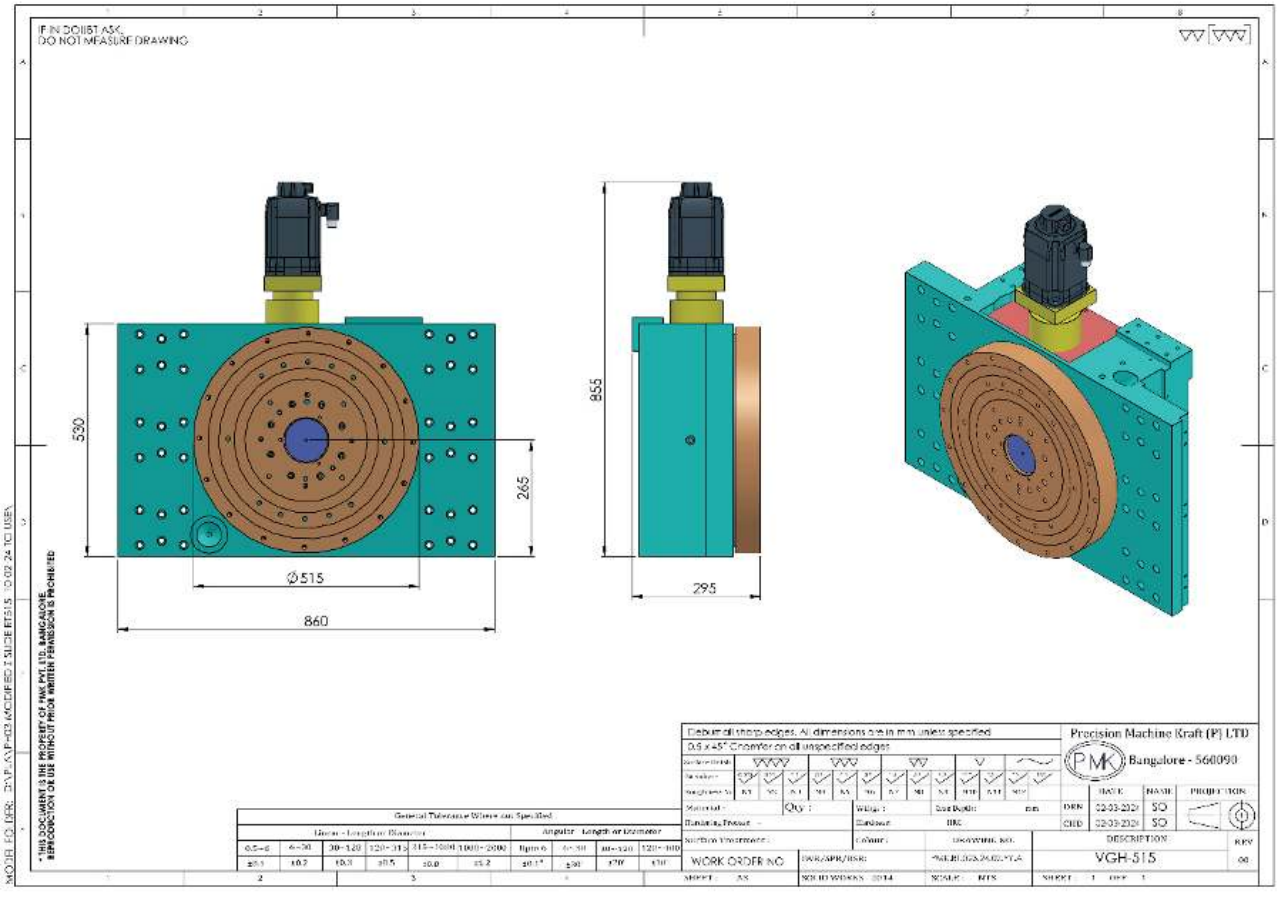


Horizontal Rotary Table					
Model	**HRT400**	**HRT500**	**HRT630**	**HRT800**	**HRT1000**
Table Size (mm x mm)	400 x 400	500 x 500	630 x 630	800 x 800	1000 x 1000
Center Bore (mm)	60 H7			120 H7	
T-Slot (mm)	18	18	18	22	22
Speed Reduction Ratio	1:180	1:180	1:180	1:300	1:300
Indexing Accuracy (arc sec)	±15"				
Repeatability (arc sec)	4"				
Allowable Load (kg)	800	1100	2000	3000	4000
Weight (kg)	400	450	860	1680	2200

*Size can customised as per customer requirements.

Z-SLIDE INDEXER USED FOR GEAR HOBBING MACHINE



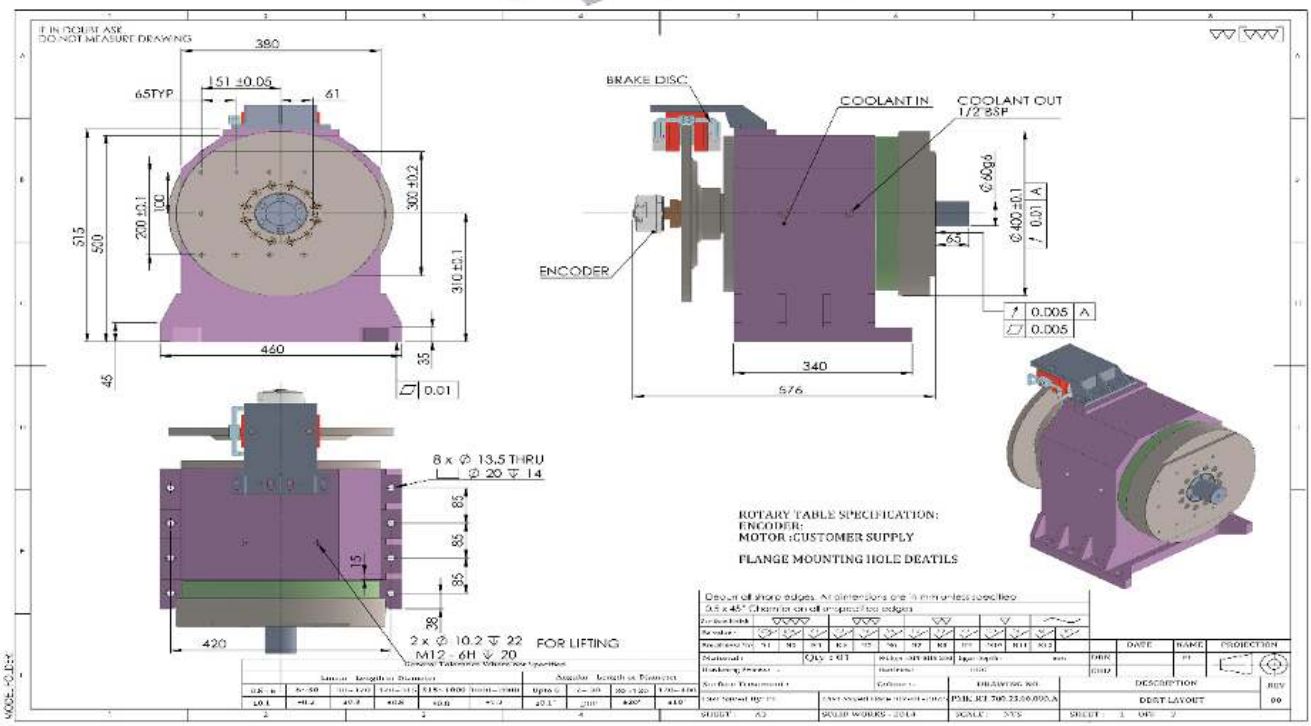


Z Slide With Indexer Used For Gear Hobbing Machine					
Model	**VGH400**	**VGH500**	**VGH630**	**VGH800**	**VGH1000**
Diameter (mm)	400	500	630	800	1000
Table Height (mm)	290	300	340	390	410
Center Bore (mm)	60 H7				80H7
T-Slot (mm)	18	18	18	22	22
Indexing Angle (deg.)	1^0 or 5^0				
Speed Reduction Ratio	1:120	1:180	1:180	1:180	1:360
Rated Speed (rpm)	25	16.6	16.6	16.6	5.6
Indexing Accuracy (arc sec)	±15"				
Repeatability (arc sec)	4"				
Allowable Load (kg)	500	700	2500	3000	5000
Weight (kg)	450	500	800	1000	2000

*Size can customised as per customer requirements.

DIRECT DRIVE ROTARY TABLE WITH EXTERNAL BREAK



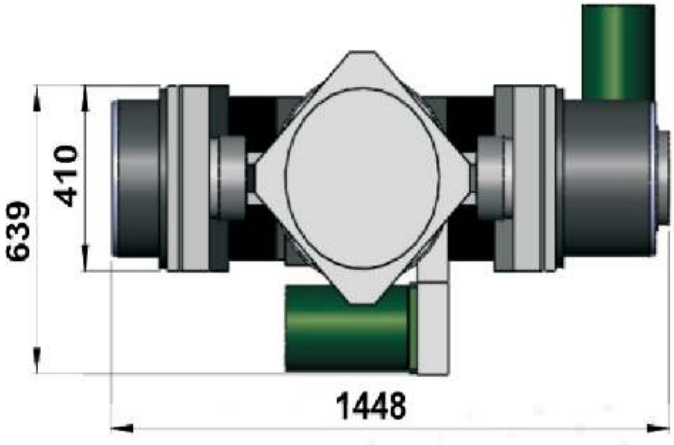


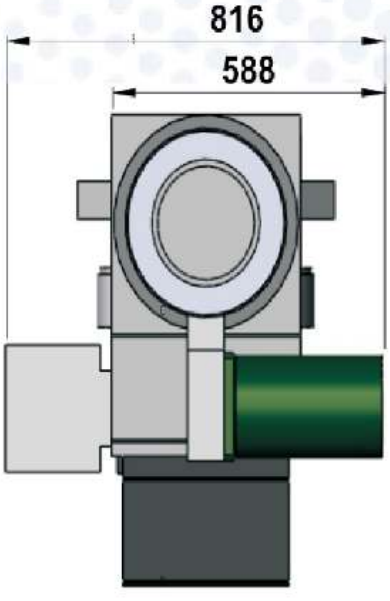
Direct Drive Rotary Table With External Break				
Model		**DRTE250**	**DRTE320**	**DRTE400**
Diameter (mm)		250	320	400
Center Height (mm)		160	210	310
Overall Height (mm)		330	450	500
Center Bore Diameter (mm)		50H7	50H7	50H7
T-Slot (mm)		12H7	14H7	14H7
Indexing Accuracy (arc sec)		±20"		
Repeatability (arc sec)		4"		
Speed Reduction Ratio		1:1	1:1	1:1
Max Speed (rpm)		150	150	150
Pressurre (Clamping System) (kg^2.)m		35 (Hyd.)	35 (Hyd.)	35 (Hyd.)
Allowable Load Capacity	**Vertical (kg)**	55	100	100
	Horizontal (kg)	80	150	120
	With Tail-Stock (kg)	80	150	120
Weight (kg)		150	210	330

*Size can customised as per customer requirements.

DIA 400 TILTING ROTARY TABLE WITH CUP,CONE & PALLET ARRANGEMENTS



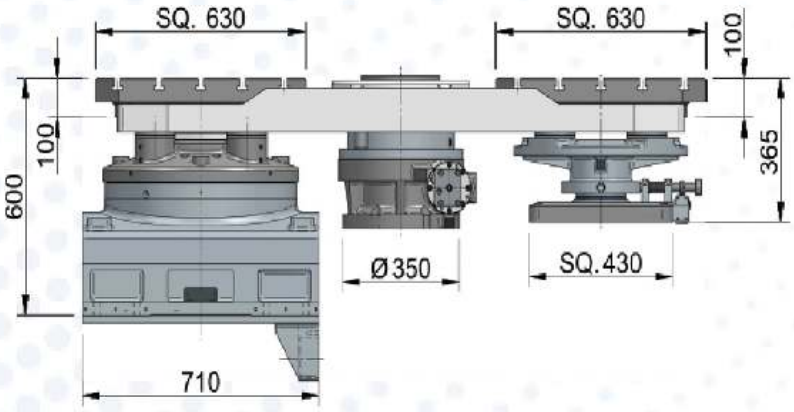


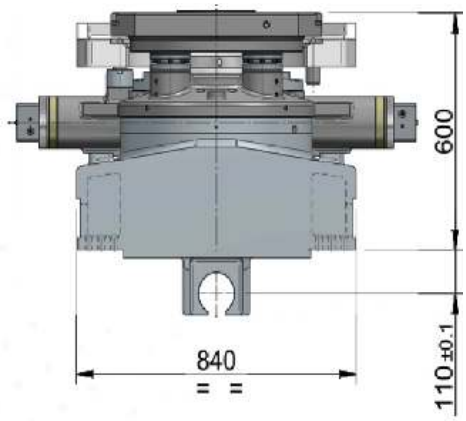


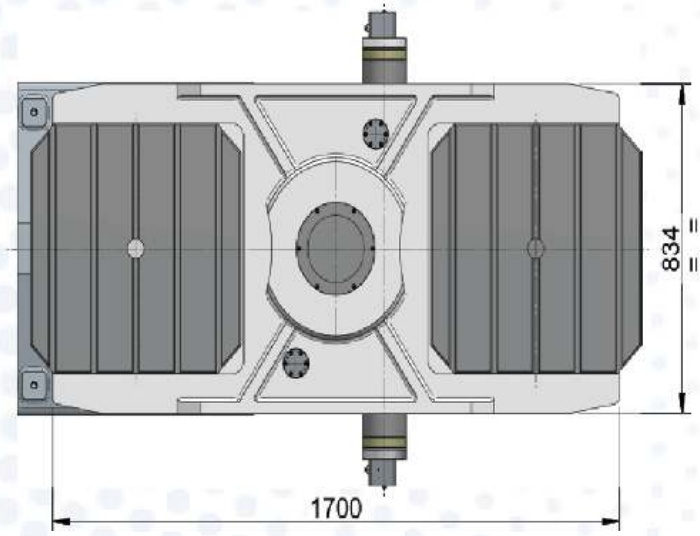
Specification

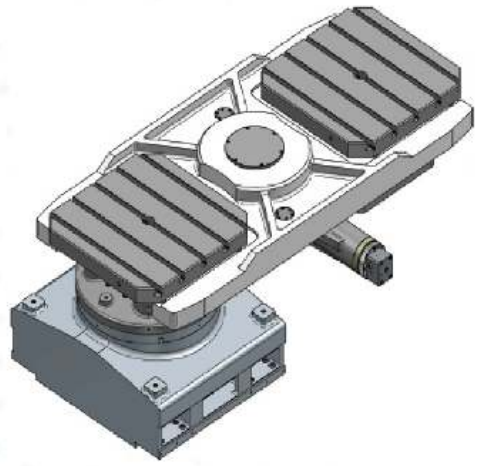
Rotary Table Size	Dia 400 mm
Tilting Angle	-90.0 to $+10^0$
Load carrying	650 kg
Table Rotation Speed	11.11rpm

CNC HORIZONTAL ROTARY TABLE WITH AUTOMATIC PALLET CHANGER







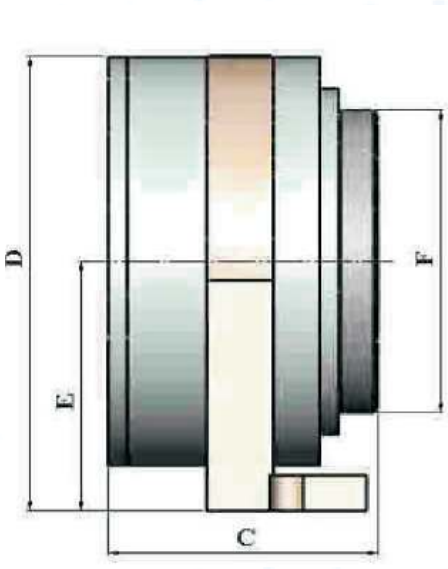


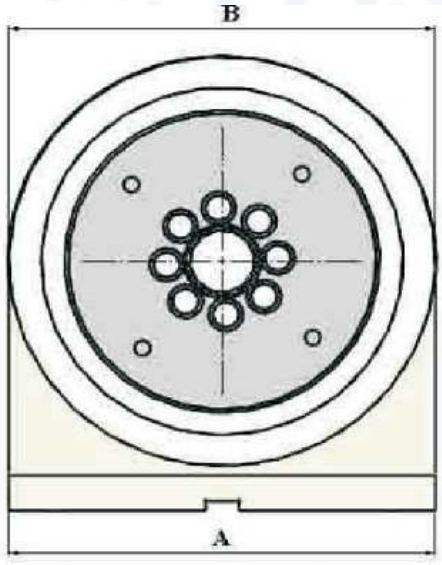
Specification

Pallet Size	630x630
Number of Pallet :	Two
Load Capacity	1000Kg
Pallet T Slot Dimensions :	18x125x5
Pallet Indexing Time :	25 Sec.
Rotary Table with Pallet Positioning Repeatability :	+/- 0.008mm
Rotary Table with Pallet Rotating Speed :	50rpm
Rotary Table with Pallet Indexing Accuracy :	360000 Positions (0.001 deg.)
Rotary Table	Torque Motor (DDR)

TAIL SUPPORT



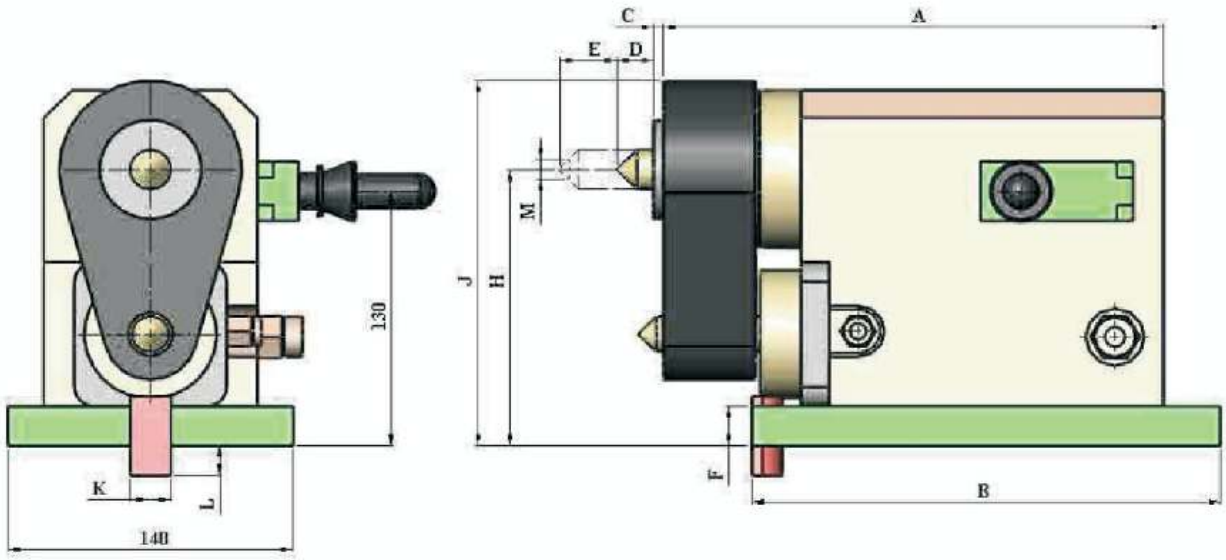




MODEL	A	B	C	D	E	F	THRU HOLE DIA.	CLAMPING FORCE Air Pressure	Hydraulic Oil Pressure
TSR-170	215	215	150	240	132	160	40	5bar	30bar
TSR-200	230	230	150	260	140	170	40	5bar	30bar
TSR-250	285	285	150	280	160	240	50	5bar	30bar
TSR-320	345	345	180	290	210	300	50	5bar	30bar
TSR-400	420	420	180	300	230	300	60	5bar	30bar

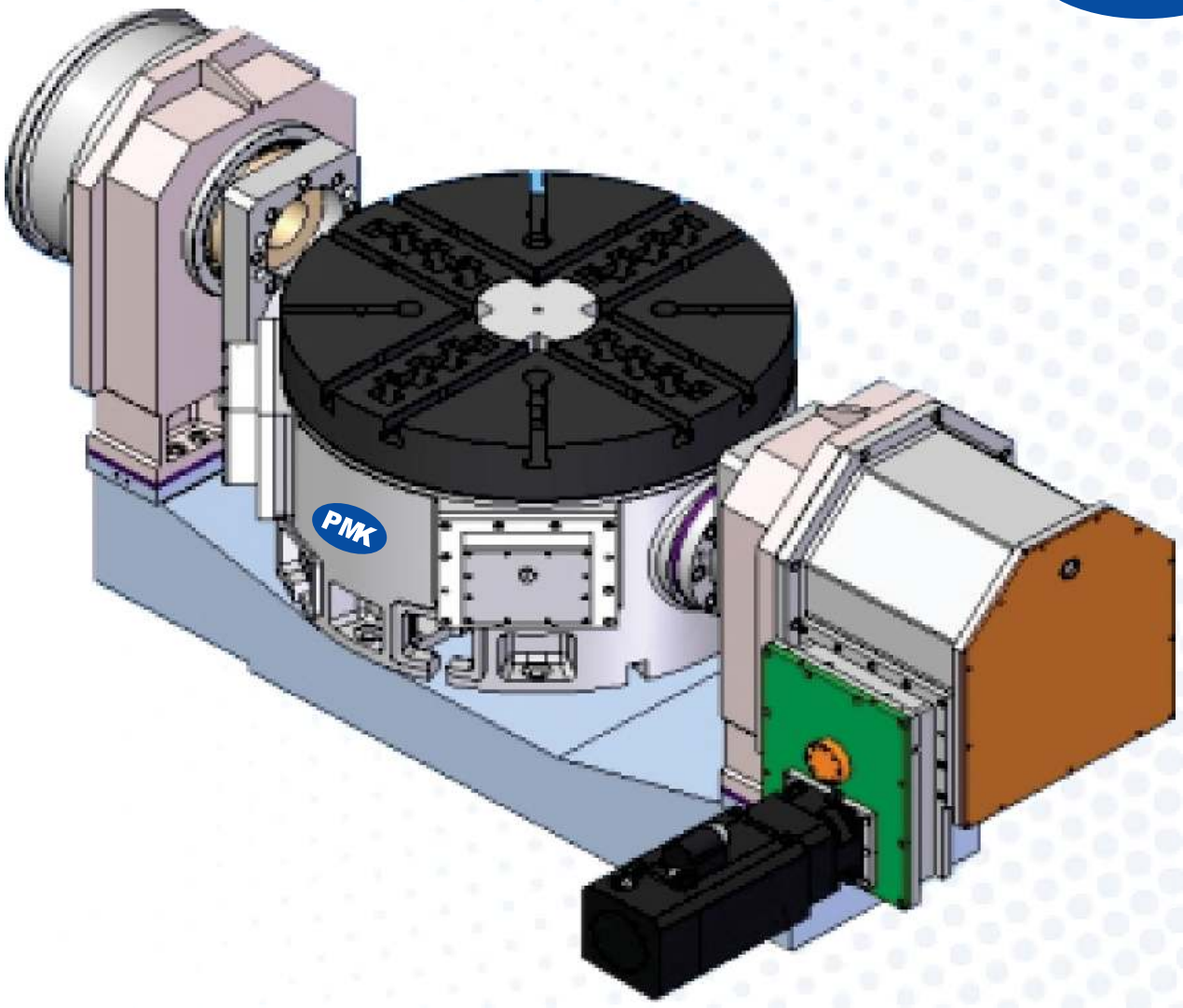
TAIL STOCK





MODEL	ROTARY TABLE	A	B	C	D	E	F	G	H	J	K	L	M
TS-170	RH-170	347	230	10	40	50	23	23	132	170	18.H7	8	10
TS-200	RH-200	347	230	10	40	50	23	23	140	178	18.H7	8	10
TS-250	RH-250	347	230	10	40	50	23	30	160	198	18.H7	8	10
TS-320	RH-320	347	230	10	40	50	23	30	210	248	18.H7	8	10
TS-400	RH-400	347	230	10	40	50	23	30	230	268	18H.7	8	10

TILTING ROTARY TABLE WITH DIRECT DRIVE



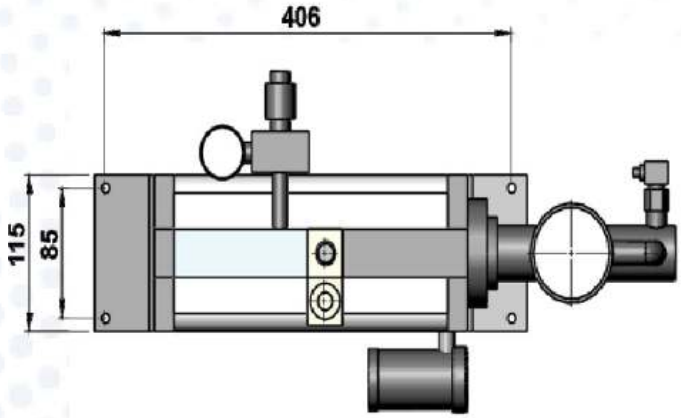
SPECIFICATION :

* Table Diameter - 1000 mm
* Swing Diameter - 1200 mm
* Rotary Table Speed - 315RPM Max
* Load on Table - 1000 KG Max
* Table Torque (Turning) - 830 Nm
* (Cont) / 1087Nm (40%ED)
* Table (Direct Drive) Power - 36 KW
* Tilting Angle - -110 to +110
* Tilting Rotational Speed - 6 RPM

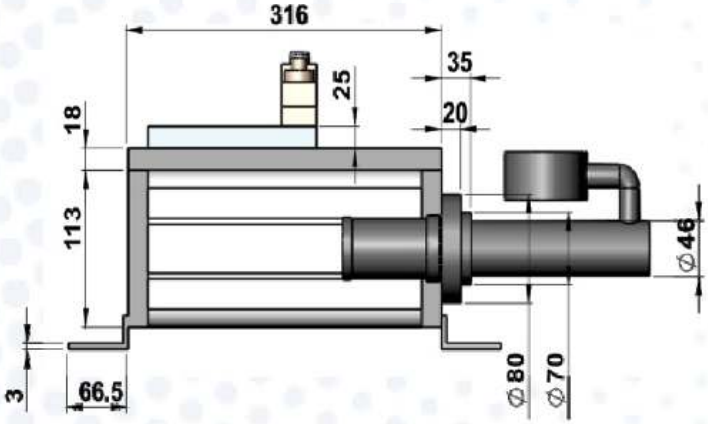
*Special purpose Rotary Tables up to 4500 mm dia can be manufactured as per customer requirements.

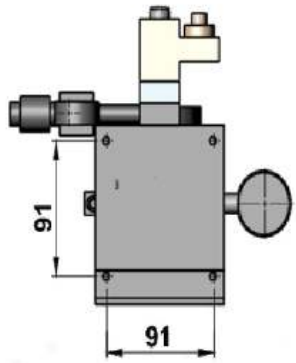
HYDRO PNEUMATIC BOOSTER

PMK









SPECIFICATION

Description	CLAMPING UNIT FOR ROTARY TABLE RH 200, RH 250	Clamping Unit for Rotary Table
Model No	PMK - 200 -250	PMK - 320 -600
Air Inlet	4-6Kg/cm^2	4-6Kg/cm^2
Output Oil Pressure at 5 Bar	40 bar	50 bar
Coil Voltage	24 V DC	24 V DC
Connection Port Size (Hyd)	G 1/2”	G 1/2”
Connection Port Size (Pneu)	G 1/4”	G 1/4”
Max oil displacement CC at 5 kg/cm^2	Max oil displacement CC at 5 kg/cm2	150 CC

Note : Due to constant improvements, dimensions and technical specifications are subjected to change with out notice

MANUAL CHUCK AND HYDRAULIC POWER CHUCK



HYDRAULIC POWER PACK



SPECIFICATION

a) Hydraulic pressure upto 70 bar

b) Oil flow 16 LPM

c) Solinoid Voltage 12V DC, 24VDC, 110VAC, 220VAC.

OTHER PRODUCTS

BALL SCREW



Planetary
Roller screw



HIGI FREQUENCY
INTERNAL
GRINDING SPINDLE



CUSTOMISED BEARINGS



LINEAR ACTUATOR



LINEAR ROLLER
BEARING

