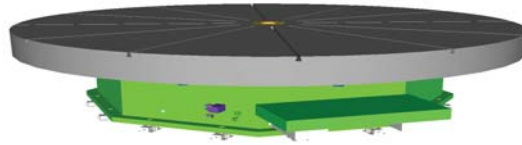




Rusach International 2-Series: Horizontal Air Bearing Rotary Tables Range C 2,000mm thru 5,000mm



Made in the USA

The Rusach Advantages

Application

Suitable for inspection applications and some machining applications, with high accuracies and load capabilities. Size range 2,000mm to 5,000mm. Larger diameters designed on request.

Bearing

Preloaded axial-radial air bearing to provide high rigidity in both planes. Sensitivity and fine positioning ensured.

Clamping

Distortion free passive clamping achieved by several mechanically pre-loaded devices which are hydraulically released.

Measuring Systems

Standard mechanical accuracy of +/- 15.0 arc seconds. High precision Heidenhain encoders are offered for increased accuracies to +/-1.0 arc seconds.

Motors

AC and DC servomotors.

Positioning Accuracy

Positioning accuracy up to +/-1 arc seconds or better are available.

Repeatability

Repeatability 1/2 or better of positioning accuracies.

Construction

Modular design permits freedom to match application requirements. Worm gear drive is specifically configured for maximum torque and minimum (adjustable) backlash, if applicable.



Every Challenge Has A Solution

Technical Data		Unit	2-20	2-25	2-30	2-40	
Type Designation	Round		D2000	D2500	D3000	D4000	
			D2500	D3000	D4000	D5000	
	Square		2000x2000	2500x2500	3000x3000	4000x4000	
			2500x2500	3000x3000	4000x4000	5000x5000	
Rectangle		2000x2500	2500x3000	3000x4000	4000x5000		
Table Diameter	Round	mm	2000	2500	3000	4000	
		Inches	78.74	98.43	118.11	157.48	
	Square	mm	2500	3000	4000	5000	
		Inches	98.43	118.11	157.48	196.85	
Table Size	Square	mm	2000x2000	2500x2500	3000x3000	4000x4000	
		inches	78x78	98x98	118x118	157x157	
	Rectangle	mm	2500x2500	3000x3000	4000x4000	5000x5000	
		inches	98x98	118x118	157x157	196x196	
	Rectangle	mm	2000x2500	2500x3000	3000x4000	4000x5000	
		Inches	78x98	98x118	118x157	157x196	
Base Dimension		mm	2000	2500	3000	4000	
		inches	78.74	98.43	118.11	157.48	
Total Height	Round	mm	650	800	1,050	1,300	
		inches	25.59	31.50	41.34	51.18	
		Square	mm	700	850	1,100	1,350
			inches	27.56	33.46	43.31	53.15
	Square	mm	750	900	1,150	1,400	
		inches	29.53	35.43	45.28	55.12	
		Rectangle	mm	770	920	1,170	1,420
			inches	30.31	36.22	46.06	55.91
	Rectangle	mm	800	950	1,200	1,450	
		inches	31.50	37.40	47.24	57.09	
Bearing Type		Air Bearing					
T-slots (DIN 650 H12)	Size number	mm	28	28	28	28	
			16	16	16	16	
Centre Bore H6		mm	250	250	250	250	
		Inches	9.84	9.84	9.84	9.84	
Loading Capacity		kg	20,000	30,000	40,000	50,000	
		lbs	44,000	66,000	80,000	110,000	
Permitted Machining Force (Axial)		Nm	40,000	50,000	60,000	70,000	
		ft lbs	28,000	36,000	43,000	50,000	
Permitted Machining Force (Radial) ₁		Nm	15,000	20,000	25,000	30,000	
		ft lbs	10,000	14,000	18,000	21,000	
Clamping Moment		Nm	50,000	70,000	90,000	110,000	
		ft lbs	36,150	50,610	65,070	79,530	
Max. take of Torque ₂		Nm	62,000	80,000	100,000	120,000	
		ft lbs	44,826	57,840	72,300	86,760	
Weight (Approx) w/o motor	Round	kg	20,000	25,000	30,000	40,000	
		lbs	44,080	55,100	66,120	88,160	
		Square	kg	23,000	28,000	33,000	43,000
			lbs	50,692	61,712	72,732	94,772
	Square	kg	21,000	26,000	31,000	41,000	
		lbs	46,284	57,304	68,324	90,364	
		Rectangle	kg	25,000	30,000	35,000	45,000
			lbs	55,100	66,120	77,140	99,180
	Rectangle	kg	24,000	29,000	34,000	44,000	
		lbs	52,896	63,916	74,936	96,976	
	(1) With closed clamping increase by 20%. (2) Actual torque available dependent on power unit.						
	Mechanical Accuracies						
Parallelism	mm	0.01	0.015	0.02	0.025		
	inches	0.0004	0.0006	0.0008	0.0009		
Face Plate Runout	mm	0.005	0.005	0.01	0.02		
	inches	0.0002	0.0002	0.0004	0.0008		
Runout of Center Bore	mm	0.005	0.005	0.005	0.005		
	inches	0.0002	0.0002	0.0002	0.0002		

Available options

- Hand Scraped Table Top Surface
- Hydrostatic Drive
- Customized Table Top
- Workpiece Clamping System
- Various Motor Drives and Intermediate Gear Boxes
- Prepared for Linear Axis (Saddle)
- Other Paint Surface Finishes
- NC Systems to Suit Your Application
- Prepared for Pallet Automation
- Larger Diameters Engineered on Request

Standard Resolution

0.0001 degree (others on request)

Standard Accuracy

+/-15 arc seconds. Higher accuracies on request

Clamp Release Pressure

90 bar or 1300 psi

Painted Surface Finish

RAL-color range in textured surface finish

For other specifications please contact our Technical Dept. The rights for technical modifications are reserved.

Reference dimensions only. Approval prints are supplied on all tables.

Call Rusach International

100 Raymond Street

Hope, IN 47246

Phone: 317-638-0298

www.rusach.com



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