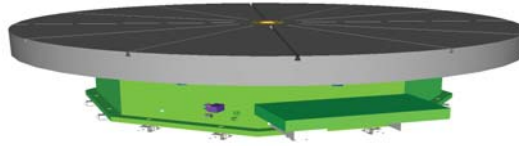




Rusach International 2-Series: Horizontal Roller Bearing Rotary Tables Range C 2,000mm thru 5,000mm



Made in the USA

The Rusach Advantages

Application

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

Bearing

Preloaded axial-radial roller bearings 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 available.

Repeatability

Repeatability 1/2 or better of positioning accuracies.

Construction

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



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
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
		mm	700	850	1,100	1,350
	Square	Inches	27.56	33.46	43.31	53.15
		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
Bearing Type	mm		800	950	1,200	1,450
		Inches	31.50	37.40	47.24	57.09
Roller Bearing						
T-slots (DIN 650 H12)	Size number	mm	28	28	28	28
		Inches	16	16	16	16
Centre Bore (H7)	mm		250	250	250	250
		Inches	9.84	9.84	9.84	9.84
Loading Capacity	kg		25,000	40,000	50,000	60,000
		Lbs	55,000	88,000	11,000	130,000
Permitted Machining Force (Axial)	Nm		150,000	160,000	170,000	180,000
		ft lbs	108,000	115,000	122,000	130,000
Permitted Machining Force (Radial) ₁	Nm		100,000	120,000	150,000	200,000
		ft lbs	72,000	86,000	108,000	144,000
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
		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		0.02	0.03	0.04	0.05
		Inches	0.0008	0.0012	0.0016	0.0012
Face Plate Runout	mm		0.01	0.015	0.02	0.04
		Inches	0.0004	0.0006	0.0008	0.0016
Runout of Center Bore	mm		0.01	0.01	0.01	0.01
		Inches	0.0004	0.0004	0.0004	0.0004

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
- Chiller Systems
- Extremely Heavy Load Systems

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.

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