

NIKKEN ROTARY TABLES

FOR YAMA SEIKI MACHINES

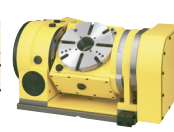
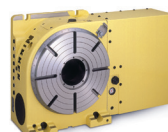
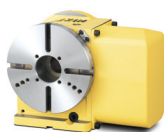
YAMA SEIKI®



LYNDEX
NIKKEN

1468 Armour Boulevard, Mundelein, IL 60060
Phone: (847) 367-4800 • Fax: (847) 367-4815
E-mail: inquiries@lyndexnikken.com
www.lyndexnikken.com

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			CNC180FA-M/202FA-M		CNC260FA-M/CNC302	CNC321FA-M/401FA-M	5AX-130FA-M	5AX-201FA-M
Table diameter (mm)			180/200		260/300	320/400	130	200
Max RPM (rotary/tilt)			22.2 (44.4)		16.6(33.3)	22.2 (44.4)	22.2/11.1	22.2/16.6
Indexing Accuracy/Repeatability (sec)			+/-20/ +/-2		+/-10/ +/-2	+/-10/ +/-2	+/-30/+/-30	+/-10/+/-30
Clamp System			Air		Air/Hyd	Hydraulic	Air	Air/Hyd
Clamp Torque Nm (rotary/tilt)			303 Nm		588/1568	588/1568	205/303	303/588
MACHINE MODEL	TABLE SIZE (mm)		CNC180FA-M/202FA-M		CNC260FA-M/CNC302	CNC321FA-M/401FA-M	5AX-130FA-M	5AX-201FA-M
AF Series	AF-610	700 X 450	YES	YES	NO	NO	ALONG X-AXIS	NO
	AF-650	750 X 510	YES	YES	YES (with stroke limit)	NO	YES	ALONG X-AXIS
	AF-860	1000 X 600	YES	YES	YES	YES (with stroke limit)	YES	YES
	AF-1000	1200 X 550	YES	YES	YES	NO	YES	YES (with stroke limit)
	AF-1060	1200 X 600	YES	YES	YES	YES (with stroke limit)	YES	YES
	AF-1250	1350 X 620	YES	YES	YES	YES (with stroke limit)	YES	YES
	AF-1460	1500 X 800	YES	YES	YES	YES	YES	YES
	AF-1600	1700 X 800	YES	YES	YES	YES	YES	YES
AV Series	AV-610	610 X 450	YES	YES	NO	NO	ALONG X-AXIS	NO
	AV-650	610 X 510	YES	YES	YES (with stroke limit)	NO	YES	ALONG X-AXIS
	AV-860	860 X 600	YES	YES	YES	YES (with stroke limit)	YES	YES
	AV-1000	1020 X 550	YES	YES	YES	NO	YES	YES (with stroke limit)
	AV-1060	1060 X 600	YES	YES	YES	YES (with stroke limit)	YES	YES
	AV-1250	1250 X 600	YES	YES	YES	YES (with stroke limit)	YES	YES
	AV-1460	1400 X 620	YES	YES	YES	YES (with stroke limit)	YES	YES
BM Series	BM-850	1050 X 600	YES	YES	YES	YES (with stroke limit)	YES	YES
	BM1020	1200 X 600	YES	YES	YES	YES (with stroke limit)	YES	YES
	BM1200	1300 X 600	YES	YES	YES	YES (with stroke limit)	YES	YES
	BM1460	1500 X 650	YES	YES	YES	YES (with stroke limit)	YES	YES
	BM1400	1500 X 800	YES	YES	YES	YES	YES	YES
	BM1600	1700 X800	YES	YES	YES	YES	YES	YES

Additional Rotary Table Accessories - Please call for more details



Hand Operated
Tailstock



Manual Tailstock



Air/Hydraulic
Tailstock



Hydraulic Tailstock



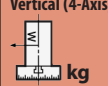
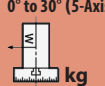
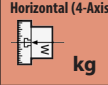
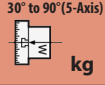
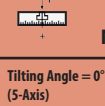
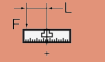
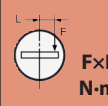
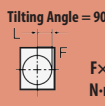
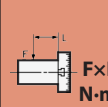
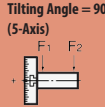
Support Table



Scroll Chucks

Rotary Table CNC & 5-AX Specifications

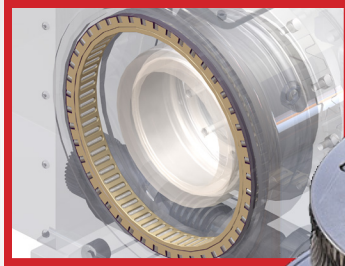


ROTARY TABLE NO.			CNC180	CNC202	CNC260	CNC302	CNC321	CNC401	5AX-130		5AX-201	
Diameter of Table $\varnothing$ mm			180	200	260	300	320	400	$\varnothing$ 105 (with a $\varnothing$ 130 sub table)		200	
Diameter of Spindle Hole $\varnothing$ mm			$\varnothing$ 60 _{H7} $\varnothing$ 40	$\varnothing$ 60 _{H7} $\varnothing$ 40	$\varnothing$ 80 _{H7}	$\varnothing$ 80 _{H7}	$\varnothing$ 105 _{H7}	$\varnothing$ 105 _{H7}	$\varnothing$ 60 _{H7} $\varnothing$ 30		$\varnothing$ 60 _{H7} $\varnothing$ 50	
Center Height mm			135	135	170	170	230	230	150		180	
Table Height in Horizontal Position (0°) mm			-	-	-	-	-	-	235		260	
Width of T Slot mm			12 ^{+0.018} ₀	12 ^{+0.018} ₀	12 ^{+0.018} ₀	12 ^{+0.018} ₀	12 ^{+0.018} ₀	14	$\varnothing$ 10 _{H7} Pin hole		12 ^{+0.018}	
Axis			-	-	-	-	-	-	Rotary	Tilting (0°~105°)	Rotary	Tilting (0°~105°)
Clamping System			Air	Air	Air/Hyd.	Air/Hyd.	Hyd.	Hyd.	Air	Air	(Air*) / Hyd.	(Air*) / Hyd.
Clamping Torque N·m			303	303	588/1568	343/1568	1760	1760	205	303	(303*) / 588	(303*) / 612
Table Inertia at Motor Shaft (GD ² /4) kg·m ² ×10 ⁻³			0.08	0.09	0.33	0.34	2.8	2.8	0.09	0.12	0.11	0.16
Servo Motor min ⁻¹			αiF2 / 5000-2000	αiF4 / 4000-2000	αiF4 / 4000-2000	αiF4 / 4000-2000	αiF12 / 3000-2000	αiF12 / 3000-2000	αiS2 / 5000-2000	αiF2 / 5000-2000	αiF2 / 5000-2000	αiS4 / 5000-2000
MIN. Increment			0.001°	0.001°	0.001°	0.001°	0.001°	0.001°	0.001°	0.001°	0.001°	0.001°
Rotation Speed min ⁻¹			22.2	22.2	16.6	16.6	22.2	22.2	22.2	11.1	22.2	16.6
Total Reduction Ratio			1/90	1/90	1/120	1/120	1/90	1/90	1/90	1/180	1/90	1/120
Indexing Accuracy sec			±20	±20	20	20	15	15	±30	60	20	60
Net Weight kg			45	55	115	125	200	225	115		160	
MAX. Work Load on the Table	 kg Vertical (4-Axis)	 kg 0° to 30° (5-Axis)	100	100	175	175	250	250	50		60	
	 kg Horizontal (4-Axis)	 kg 30° to 90° (5-Axis)	200	200	350	350	500	500	25		40	
MAX. Thrust Load applicable on the Table	 N 4-Axis	 N Tilting Angle = 0° (5-Axis)	10780	10780	25480	25480	31360	31360	5880		9800	
		 N Tilting Angle = 0° (5-Axis)							L = 65mm F = 2940N		L = 100mm F = 4900N	
	 F×L N·m	 F×L N·m Tilting Angle = 90° (5-Axis)	415	415	984	984	1166	1166	98		382	
	 F×L N·m	 F ₁ F ₂ L N·m Tilting Angle = 90° (5-Axis)	980	980	3332	3332	3920	3920	L ₁ = 0mm L ₂ = 100mm F ₁ = 3460N F ₂ = 1590N		L ₁ = 0mm L ₂ = 100mm F ₁ = 5880N F ₂ = 2940N	
MAX. Work Inertia	 Vertical (GD ² /4) kg·m ²		0.4	1.0	3.2	3.2	6.4	6.4	0.12		0.5	
Driving Torque	 N·m		72	144	192	192	432	432	72		72	

Nikken Patented Carbide Worm System: Less Maintenance, More Productivity

Independent Tubular Thrust and Radial Bearings

- Custom paired and matched for every rotary table
- Provide vibration dampening and internal gear protection
- Extreme rigidity and concentric accuracy from needle roller bearings



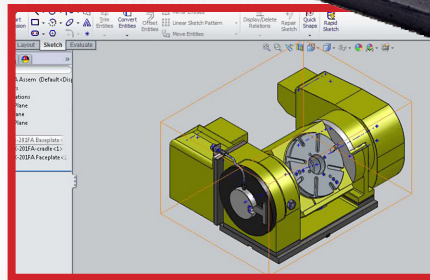
Patented Solid Carbide Worm Screw and Heat Treated & Ion Nitrided Steel Worm Wheel

- Hand matched and paired to maintain maximum thread engagement
- Four point bearing support system and eccentric housing structure
- Minimal wear compared to traditional bronze wheel configuration



Pre-Sale Support

- Dedicated application and engineering support staff for table layouts and assembly via Solid Works
- Lyndex-Nikken will assist you with table selection, brake system selection and machine fit



Post-Sale Support

- Complete turnkey installation and interface
- On-demand field support and ongoing training
- In-stock superior hardware and component replacement parts
- Service, repair and custom configuration completed on-site



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