

NIKKEN ROTARY TABLES

FOR OKK MACHINES

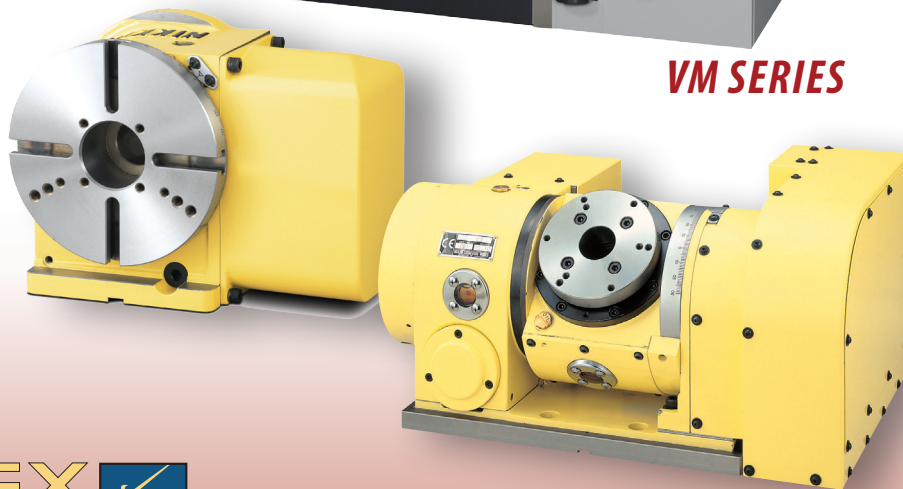
OKK



VP SERIES



KCV SERIES



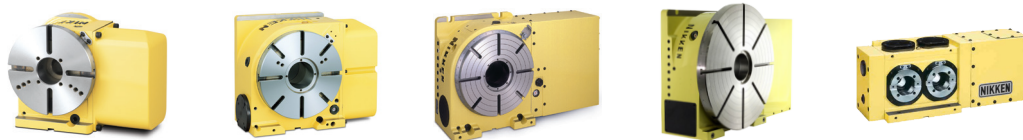
VM SERIES



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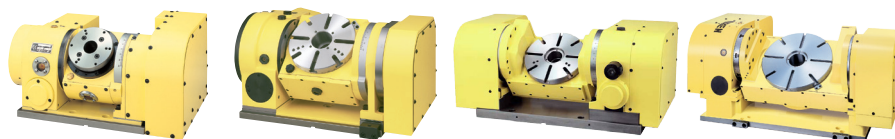
CAT2016-OKK-RT MAY 2016

CNC Rotary Tables



		CNC180FA-M/202FA-M	CNC260FA-M/CNC302	CNC321FA-M/401FA-M	CNC501FA-M/601FA-M	CNC100-2W,3W,4W FA-M
Table diameter (mm)		180/200	260/300	320/400	500/600	105
Max RPM (rotary/tilt)		22.2 (44.4)	16.6(33.3)	22.2 (44.4)	16.6(33.3)/11.1(22.2)	11.1(44.4)
Indexing Accuracy/Repeatability (sec)		+/-20/ +/-2	+/-10/ +/-2	+/-10/ +/-2	+/-7.5	+/-30
Clamp System		Air	Air/Hyd	Hydraulic	Hydraulic	Air
Clamp Torque Nm (rotary/tilt)		303 Nm	588/1568	588/1568	4655	147
MACHINE MODEL	TABLE SIZE (mm)	CNC180FA-M/202FA-M	CNC260FA-M/CNC302	CNC321FA-M/401FA-M	CNC501FA-M/601FA-M	CNC100-2W,3W,4W FA-M
VM-43R	630 X 430 X 460	YES	NO	NO	NO	ALONG X-AXIS
VM-53R	1050 X 530 X 510	YES	YES	NO	NO	ALONG X-AXIS
VM-76R	1540 X 760 X 660	-	YES	NO	NO	ALONG X-AXIS
VM-600	1300 X 660 X 660	-	YES	NO	NO	-
VM-900	2060 X 940 X 820	-	YES	YES	YES	-
VP-600	1120 X 610 X 460	-	YES	YES	YES	-
KCV-800	3050 X 865 X 720	-	YES	YES	YES	-
KCV-1000	3500 X 1065 X 720	-	-	-	YES	-

5-Axis Rotary Tables



		5AX-130FA-M	5AX-201FA-M	5AX-250FA-M	5AX-350FA-M
Table diameter (mm)		130	200	250	350
Max RPM (rotary/tilt)		22.2/11.1	22.2/16.6	22.2/22.2	22.2/22.2
Indexing Accuracy/Repeatability (sec)		+/-30/+/-30	+/-10/+/-30	+/-10/+/-30	+/-10/+/-30
Clamp System		Air	Air/Hyd	Hydraulic	Hydraulic
Clamp Torque Nm (rotary/tilt)		205/303	303/588	588/490	1568/1568
MACHINE MODEL	TABLE SIZE (mm)	5AX-130FA-M	5AX-201FA-M	5AX-250FA-M	5AX-350FA-M
VM-43R	630 X 430 X 460	YES	ALONG X-AXIS	NO	NO
VM-53R	1050 X 530 X 510	YES	YES	ALONG X-AXIS	NO
VM-76R	1540 X 760 X 660	YES	YES	ALONG X-AXIS	ALONG X-AXIS
VM-600	1300 X 660 X 660	YES	YES	ALONG X-AXIS	NO
VM-900	2060 X 940 X 820	-	-	YES	ALONG X-AXIS
VP-600	1120 X 610 X 460	YES	YES	NO	NO
KCV-800	3050 X 865 X 720	-	-	ALONG X-AXIS	YES
KCV-1000	3500 X 1065 X 720	-	-	YES	YES

Additional Rotary Table Accessories - Please call for more details



Hand Operated
Tailstock



Manual Tailstock



Air/Hydraulic
Tailstock



Hydraulic Tailstock



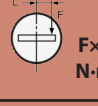
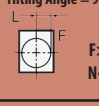
Support Table



Scroll Chucks

Rotary Table CNC & 5-AX Specifications

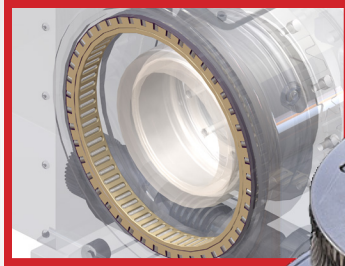


ROTARY TABLE NO.		CNC180	CNC202	CNC260	CNC302	CNC321	CNC401	CNC501	CNC601	5AX-130	5AX-201	5AX-250	5AX-350
Diameter of Table	ømm	180	200	260	300	320	400	500	600	ø105 (with a ø130 sub table)	200	250	300
Diameter of Spindle Hole	ømm	ø60 _{H7} ø40	ø60 _{H7} ø40	ø80 _{H7}	ø80 _{H7}	ø105 _{H7}	ø105 _{H7}	ø130 _{H7}	ø130 _{H7}	ø60 _{H7} ø30	ø60 _{H7} ø50	ø60 _{H7} ø50	ø80 _{H7}
Center Height	mm	135	135	170	170	230	230	310	310	150	180	235	300
Table Height in Horizontal Position (0°)	mm	-	-	-	-	-	-	-	-	235	260	235	300
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	14	14 ^{+0.018} ₀	ø10 _{H7} Pin hole	12 ^{+0.018} ₀	ø12 _{H8} Pin hole	12 ^{+0.018} ₀
Axis		-	-	-	-	-	-	-	-	Rotary Tilting (0°~105°)	Rotary Tilting (0°~105°)	Rotary Tilting (+30°~120°)	Rotary Tilting (+30°~120°)
Clamping System		Air	Air	Air/Hyd.	Air/Hyd.	Hyd.	Hyd.	Hyd.	Hyd.	Air	Air	(Air ^o)/Hyd.	(Air ^o)/Hyd.
Clamping Torque	N·m	303	303	588/1568	343/1568	1760	1760	4655	4655	205	303	(303 ^o)/588	(303 ^o)/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	6.8	4.9	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	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°	0.001°	0.001°
Rotation Speed	min ⁻¹	22.2	22.2	16.6	16.6	22.2	22.2	16.6	11.1	22.2	11.1	22.2	16.6
Total Reduction Ratio		1/90	1/90	1/120	1/120	1/90	1/90	1/120	1/180	1/90	1/180	1/90	1/180
Indexing Accuracy	sec	±20	±20	20	20	15	15	15	15	±30	60	20	60
Net Weight	kg	45	55	115	125	200	225	440	500	115	160	290	420 (w/out base: 355)
MAX. Work Load on the Table	Vertical (4-Axis)  kg	100	100	175	175	250	250	400	400	50	60	80	200
	Horizontal (4-Axis)  kg	200	200	350	350	500	500	800	800	25	40	50	200
MAX. Thrust Load applicable on the Table	4-Axis  N	10780	10780	25480	25480	31360	31360	39200	39200	5880	9800	9800	19600
	Tilting Angle = 0° (5-Axis)  N									L = 65mm F = 2940N	L = 100mm F = 4900N	L = 100mm F = 4900N	L = 175mm F = 4900N
	Tilting Angle = 90° (5-Axis)  F×L N·m	415	415	984	984	1166	1166	4655	4655	98	382	382	858
	Tilting Angle = 90° (5-Axis)  F×L N·m	980	980	3332	3332	3920	3920	5880	5880	L ₁ = 0mm L ₂ = 100mm F ₁ = 3460N F ₂ = 1590N	L ₁ = 0mm L ₂ = 100mm F ₁ = 5880N F ₂ = 2940N	L ₁ = 0mm L ₂ = 100mm F ₁ = 5880N F ₂ = 2940N	L ₁ = 0mm L ₂ = 100mm F ₁ = 17160N F ₂ = 8580N
MAX. Work Inertia	Vertical  (GD ² /4) kg·m ²	0.4	1.0	3.2	3.2	6.4	6.4	19.4	37	0.12	0.5	0.5	3.2
Driving Torque	 N·m	72	144	192	192	432	432	576	864	72	72	144	288

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



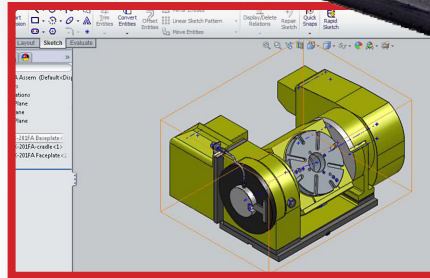
Patented Solid Carbide Worm Screw and Heat Treated & Ion Nitrided Steel Worm Wheel

- 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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