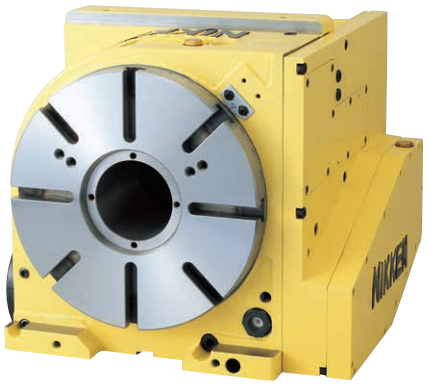
BACK SIDE MOTOR MOUNTED CNC ROTARY TABLE NIKKEN



CNC260B

- Suitable for the machine which does not have so wide space for Y axis, such as the gantory type M/C or the M/C with sprash guard
- Also compatible with rotary joints
- Select among pneumatic, hydraulic, and air-hydro clamping systems

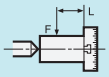
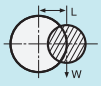
Option

ADD. AXIS P.57 | ACCURACY SPEC. P.99 | ROTARY JOINT P.89 | ULTRA PRECISIO P.87

Accessories

SUPPORT TABLE P.79 | TAIL STOCK P.81 | SCROLL CHUCK P.83 | POWER CHUCK P.84 | CLAMP DEVICE P.85 | T-NUT P.86

Specifications

Item / Code No.		CNC180B	CNC202B	CNC260B	CNC302B*5	CNC321B*5	CNC401B
Diameter of Table	ϕmm	180	200	260	300	320	400
Diameter of Spindle Hole	ϕmm	ϕ60H7 ϕ40	ϕ60H7 ϕ40	ϕ80H7	ϕ80H7	ϕ105H7	ϕ105H7
Center Height	mm	180	180	170	170	230	230
Width of T Slot	mm	$12^{+0.018}_{0}$	$12^{+0.018}_{0}$	$12^{+0.018}_{0}$	$12^{+0.018}_{0}$	$12^{+0.018}_{0}$	$14^{+0.018}_{0}$
Clamping System		Pneumatic*4	Pneumatic*4	Pneumatic*4 / Hydraulic	Pneumatic*4 / Hydraulic	Hydraulic	Hydraulic
Clamping Torque	N·m	303	303	588／1568	588／1568	1760	1760
Table Inertia at Motor Shaft	$(\frac{GD^2}{4})$ kg·m²×10⁻³	0.4	0.4	1.7	1.8	7.0	7.0
Servo Motor	r/min	αiF2・3000	αiF4・3000	αiF4・3000	αiF4・3000	αiF12・2000	αiF12・2000
MIN. Increment		0.001°	0.001°	0.001°	0.001°	0.001°	0.001°
Rotation Speed*6	r/min	33.3	33.3	25.0	25.0	22.2	22.2
Total Reduction Ratio		1/90	1/90	1/120	1/120	1/90	1/90
Indexing Accuracy	sec	±20	±20	20	20	15	15
Net Weight	kg	56	60	145	150	240	270
MAX. Work Load on the Table	Vertical  kg	100	100	175	175	250	250
	Horizontal  kg	——	——	——	——	——	——
MAX. Thrust Load applicable on the Table	 N	18000	18000	42480	42480	53100	53100
	*1  FXL N·m	542	542	1442	1442	2648	2648
	 FXL N·m	690	690	2320	2320	3840	3840
Guide Line of MAX. Unbalancing Load	*2  N·m	30	50	50	50	100	100
MAX. Work Inertia	Vertical  $(\frac{GD^2}{4})$ kg·m²	0.4	1.0	3.2	3.2	6.4	6.4
Driving Torque	*3  N·m	72	144	192	192	432	432

∗1 This is the strength of the worm wheel without brake. It is applied against dynamic cutting thrust.
∗2 The guide line of MAX unbalancing load means the unbalancing load, when the rotary table is used with support table.
The guide line figure will be different according to the servo motor, please refer to ☞P.57 for more detail.
∗3 Driving torque means the torque at MAX. rotation speed after acceleration. Driving torque is almost constant and independent from the load except unbalancing load is applied.
∗4 Air Intensifying Booster system is available if the supplied air pressure is under 0.5MPa or the brake torque is required to increase. ☞ **P.95**
∗5 **CNC302B, CNC321B** is semi-standard model.
∗6 The table rotation speed when the motor rotates at 3000r/min. Depending on the application(unbalance of the jig,work) and the motor specification, the motor may not be able to rotate at 3000r/min. ★αiF4/5000 motor can be mounted on **CNC180B**.
★αiF8/4000 motor can be mounted on **CNC260B, 302B**.
★The air-hydraulic Booster is available, when the rotary table with hydraulic clamping system is used on the M/C without hydraulic source, please refer ☞ **P.95**.