NIKKEN ROTARY TABLES FOR BROTHER COMPACT MACHINING CENTER SPEEDIO S500X1/S700X1/R450X1
Our Mission: Advanced Technology and Leading Innovation

At Lyndex-Nikken, we have made it our mission to provide the two things our customers need most: advanced technology and the innovation to keep it moving forward.

With a history rich in innovation and a focus on the technology of the future, Lyndex-Nikken has become the leader in manufacturing innovation. Our industry-leading design and capabilities give us the power to create ground-breaking tools and machine tool accessories that will perform with amazing precision and reliability.

All of our products are made in Japan, ensuring an extremely high level of quality and long-term reliability. We are continually striving to improve our technology through constant innovation to enhance the respect and reliability that our products have thus far earned within their respective industries.

Not only are we committed to providing the highest quality of equipment, but also the highest quality of service and customer care. Our team of highly experienced technicians and product specialists offers unmatched customer service and engineering support to our customers worldwide.

As an international company with offices conveniently located throughout Europe, Asia, and North America, Lyndex-Nikken is there to serve you, no matter where you are.
Nikken Rotary Tables for SPEEDIO

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Rotary Tables for Brother Speedios require a dedicated servo motor and a servo amp. Rotary Tables currently used on tapping centers cannot be transferred to be used on Speedios.

When placing an order, please specify exact machine model and rotary table model. As standard, left hand motor style (L Type) will be supplied.

SPEEDIO R450X1*
(Pallet Change)

SPEEDIO S500X1
S700X1

<table>
<thead>
<tr>
<th>SPEEDIO R450X1* (Pallet Change)</th>
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<tbody>
<tr>
<td>CNCZ105LSA-BR2</td>
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<td>CNCZ180LSA-BR2</td>
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<td>5AX-130BASA-BR2</td>
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<td>DD250LS-50</td>
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* Being a pallet change machine, this machine can use two rotary tables
Proven with Performance - Nikken CNC Rotary Table

1. Patented Solid Carbide Worm Screw and Heat Treated 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

2. Nikken’s unique design shrink fits the worm wheel onto the solid faceplate and quill body. This along with the hand pairing of the carbide worm screw eliminates backlash.

   - Much shorter distance from face plate to gear allows for greater torsional forces to be sustained
   - Fine pitch of the worm wheel contributes to 4 arc second repeatability

   - Nikken Worm Gears are made of high quality steel reinforced by a special heat treatment method, and finished with an additional strengthening Ion Nitriding process. This results in smooth gear transmission and wear resistance to help maintain indexing accuracy and rigidity.

 OTHER BRANDS

Bolt-on Phosphorous Bronze-Aluminum Bronze wheel to a two piece faceplate and quill design. Configuration relies on the malleability of the worm wheel to deform around the shape of the worm screw to eliminate backlash.

   - Bolt-on faceplate to quill base
   - Soft worm wheels wear much quicker, resulting in indexing inaccuracies and unnecessary maintenance
Proven with Performance - Nikken CNC Rotary Table

3. Unique Faceplate and Worm Wheel Assembly
- Unique shrunk fit worm wheel design onto solid faceplate and quill body for high precision concentricity
- Shorter distance from faceplate to gear allows for greater torsional forces to be sustained
- Fine pitch contributes to 4 arc second repeatability

![Diagram showing worm wheel assembly](image)

4. 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

Nikken’s patented worm screw and worm gear combination provides the highest wear resistance, rotational speed, and rigidity. Proven with performance, and guaranteed for success, let Nikken take your production performance to the next level.
Nikken Rotary Tables for Speedio S500X1/S700X1

CNCZ180LSA-BR2

CNC180ZLSA-BR2 Specs
Rotary Table Diameter: 180mm
Table Load Capacity: Horizontal 200kg
Vertical 100kg
RPM: 66.6 RPM (Z Type)*
Indexing Accuracy (sec): +/- 20
Brake Torque: 303 Nm
Weight: 48kg
Motor: R2AA08100HXPGA
Center Bore: Dia. 60mm H7 X 40mm Deep

*CNC260ZLSA-BR2 is also available

CNCZ260LSA-BR2

CNC260ZLSA-BR2 Specs
Rotary Table Diameter: 260mm
Table Load Capacity: Horizontal 300kg
Vertical 150kg
RPM: 50RPM (Z Type)*
Indexing Accuracy (sec): 20
Brake Torque: 588 Nm (Pneumatic)
1568 Nm (Hydraulic)
Weight: 120kg
Motor: R2AA08100HXPGA
Center Bore: Dia. 80mm H7

*CNCZ302LSA-BR2 is also available

*Blue dimensions refer to S700X1 model
Nikken Rotary Tables for Speedio S500X1/S700X1

5AX-130SA-BR2

5AX-130SA-BR2 Specs
Rotary Table Diameter: 260mm
Table Load Capacity:  
  Horizontal 50kg  
  Vertical 25kg
RPM: 22.2 (Rotary) 11.1 (Tilt)
Indexing Accuracy (sec): +/-30 (Rotary) 60 (Tilt)
Brake Torque:  
  588Nm (Rotary)  
  303Nm (Tilt)  
  (Hydraulic 3.5 Mpa)  
  303Nm (Tilt)  
  (Pneumatic 0.5 Mpa)
Weight: 115kg
Motor: R2AA08100HXPGA (Rotary)  
R2AA08100HXPGA (Tilt)
Center Bore: Dia. 60mm H7
Tilt Range: 0~105 degrees

*SBlue dimensions refer to S700X1 model

5AX-201SA-BR2

5AX-201SA-BR2 Specs
Rotary Table Diameter: 200mm
Table Load Capacity:  
  Horizontal 60kg  
  Vertical 40kg
RPM: 22.2 (Rotary) 16.6 (Tilt)
Indexing Accuracy (sec): +/-20 (Rotary) 60 (Tilt)
Brake Torque:  
  588Nm (Rotary)  
  303Nm (Tilt)  
  (Hydraulic 3.5 Mpa)  
  303Nm (Tilt)  
  (Pneumatic 0.5 Mpa)
Weight: 160kg
Motor: R2AA08100HXPGA (Rotary)  
R2AA08100HXPGA (Tilt)
Center Bore: Dia. 60mm H7
Tilt Range: 0~105 degrees

*SBlue dimensions refer to S700X1 model

5AX-130SA-BR2

5AX-201SA-BR2
Nikken Rotary Tables for Speedio S500X1/S700X1

CNCZ100-2W-105-120SABR-2

5AX-2MT-105-120SABR-2
Nikken Direct Drive Rotary Table for Speedio S500X1/S700X1

**DD250-LS-50**

**DD250LS-50 Direct Drive Motor Rotary Table**
- Rotary Table Diameter: 250 (Optional faceplate)
- Spindle Outer Diameter: Dia. 130mm
- RPM: 200
- Indexing Accuracy (sec): 15
- Brake Torque: 500Nm
- Weight: 75kg
- Motor: DB23A053021W00
- Operating Torque: 50 Nm
- Max Torque: 200 Nm
- Center Bore: Dia. 53mm H7

**Additional Accessories (Sold Separately)**
- 250mm face plate
- 6-port rotary joint

*Blue dimensions refer to S700X1 model

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**FOR HIGH PRODUCTION MANUFACTURING**
- For best results, all work pieces should be supported with a rotary support table.
- Swing of work pieces, fixtures, and other types of work holding must fit within the allowable work inertia of the rotary table. Excessive unbalance will not only affect indexing accuracy but also proper functioning of the unit.
- **CNC105**: 10Nm
- **CNC180, 202**: 20Nm
- **CNC260, 302**: 30Nm
- Please note that applications with unbalance that exceeds the allowable rating, the Z type rotary table is not suitable.
- If drawings and specifications of the workpiece and fixture are supplied, Nikken can provide engineering support to suggest the most suitable Rotary Table.
- For applications in high volumes of cutting fluid, Nikken can provide an air purge of 0.03 Mpa to prevent flooding within the motor cover. Please contact us for more details.
- Faceplates without T slots are also available. Please contact us for more details.

**WHEN USING CRADLE FIXTURES:**
1. When utilizing a sub plate below the rotary table and support table, the following assembly tolerances must be kept:
   - The face of the rotary table must be parallel to the Y-axis within 0.01mm
   - The rotary table base and sub plate center line must be in aligned within .02mm
   - The rotary table faceplate must be perpendicular to the table of the machine within .02mm
2. When using a rotary table and support table together, the following tolerances should be met:
   - Concentricity within .02mm
   - Centerline height should be within .01mm
3. When designing fixtures or cradle plates to be held between centers, the following should be met and verified:
   - Verify perpendicularity and flatness
   - Fixture support ends must be within 0.01mm

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Nikken Rotary Tables for Speedio R450X1

CNC180LSA-BR2

CNC180ZLSA-BR2 Specs
- Rotary Table Diameter: 180mm
- Table Load Capacity: Horizontal 200kg, Vertical 100kg
- RPM: 66.6 RPM (Z Type)*
- Indexing Accuracy (sec): +/- 20
- Brake Torque: 303 Nm
- Weight: 48kg
- Motor: R2AA08100HXP0, R1AA06006HXP0
- Center Bore: Dia. 60mm H7 X 40mm Deep

When incorporating a cradle style fixture, please use the L type Rotary Table. From the perspective of the operator, this will allow the motor cover to be behind the rotary table.

CNCZ180LSA-BR2 (TAT105N-135)

CNC180ZLSA-BR2 Specs
- Rotary Table Diameter: 180mm
- Table Load Capacity: Horizontal 200kg, Vertical 100kg
- RPM: 66.6 RPM (Z Type)*
- Indexing Accuracy (sec): +/- 20
- Brake Torque: 303 Nm
- Weight: 48kg
- Motor: R2AA08100HXP0A, R1AA06006HXP0
- Center Bore: Dia. 60mm H7 X 40mm Deep

4 Port Hydraulic Rotary Joint option available. Please contact your local Brother dealer for more details.

Sub Plate is not included. Please prepare sub plate in accordance to your application.

CNCZ180LSA-BR2

CNCZ202LSA-BR2 is also available

TAT105N-135

4 Port Hydraulic Rotary Joint option available. Please contact your local Brother dealer for more details.
Nikken Rotary Tables for Speedio R450X1

**5AX-130BASA-BR**

**5AX-130BASA-BR Specs**
- Rotary Table Diameter: 260mm
- Table Load Capacity: Horizontal 50kg, Vertical 25kg
- RPM: 22.2 (Rotary) 11.1 (Tilt)
- Indexing Accuracy (sec): +/- 30 (Rotary) 60 (Tilt)
- Brake Torque: 205Nm (Rotary) 303Nm (Tilt)
- Weight: 115kg
- Motor: R2AA08100HXP (Rotary) R2AA08100HXP (Tilt)
- Center Bore: Dia. 60mm H7
- Tilt Range: 0~105 degrees

4 Port Hydraulic Rotary Joint option available. Please contact your local Brother dealer for more details.

In order to utilize 2 X 5AX-130 tables, the machine must have 200kg capacity option

**CNCZ105LSA-BR2**

**CNC105LSA-BR2 Specs**
- Rotary Table Diameter: 105mm
- Table Load Capacity: Horizontal 30 kg
- RPM: 66.6 RPM (Z Type)*
- Indexing Accuracy (sec): +/- 20
- Brake Torque: 205Nm
- Weight: 30kg
- Motor: Q2A08050DXP35
- Center Bore: Dia. 60mm H7 X 30mm Deep

4 Port Hydraulic Rotary Joint option available. Please contact your local Brother dealer for more details.

5AX-130BASA-BR

CNCZ105LSA-BR2
**Tailstock-Support Table Options**

- *1* - With the use of a base plate, the center height can be adjusted
- *2* - This is the center height for CST105
- *P*-150S, P-170S, and 170SL have 5 center options available
- *3* - Left handed style (handle on the opposite end) available

- Compact tailstocks come with live centers
- Quill type with Morse Taper adapters are also available. Please contact us for more details.
- Different stroke lengths can also be provided. Please contact us for more details.
- Center Height H can be adjusted by 0.35mm

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**Pneumatic-Hydraulic Compact Tailstock**

- Pneumatic Type ports use Rc 1/8 for clamp and unclamp.
- Confirmation solenoid for clamp and unclamp are not included.
- Air Pressure to clamp and unclamp is 0.5 Mpa
- TAT105 and TAT170 utilizes Nikken’s brake clamp pressure multiplier
- Rotary Joints are available for all models

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**Support Tables**

- Air Pressure to clamp and unclamp is 0.5 Mpa
- TAT105 and TAT170 utilizes Nikken’s brake clamp pressure multiplier
- Rotary Joints are available for all models
## Nikken Tooling - SK Collet Chucks

### STANDARD

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<tr>
<th>Part Number</th>
<th>Collet Series</th>
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*Also available in dual face contact Taper Plus holders*

### HIGH SPEED

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*Also available in dual face contact Taper Plus holders*

For information regarding our collets, please reference the Lyndex-Nikken Tooling System Catalog.
MILLING CHUCKS

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Also available in dual face contact Taper Plus holders

HIGH SPEED MILLING CHUCKS

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Also available in dual face contact Taper Plus holders

For information regarding our collets, please reference the Lyndex-Nikken Tooling System Catalog
### Nikken Tooling - Shell Mill Holders

**BT30 - INCH**

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### Nikken Tooling - ER Collet Chucks

**BT30 - INCH**

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<td>1.38”</td>
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<tr>
<td>B3007-0025-2.00</td>
<td>ER25</td>
<td>.039-.629”</td>
<td>025-SPAN</td>
<td>2.00”</td>
<td>1.18”</td>
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<td>025-SPAN</td>
<td>4.00”</td>
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<td>1.65”</td>
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</table>
Nikken Static Turning Tools

**BT30-BHC20-38**
**BT30-BHC3/4-38**

ROUND BYTE HOLDER

**BT30-BHS20-96**
**BT30-BHS3/4-96**

SQUARE BYTE HOLDER

**BT30-BHSH20-79**
**BT30-BHSH3/4-79**

SQUARE BYTE HOLDER

For more Catalogs, including Nikken Rotary Tables for Brother CNC Tapping Centers, visit our catalog download page at: www.lyndexnikken.com/Online-Catalogs
Lyndex-Nikken Catalogs

Contact us for more information on our products lines.

Shrink Fit Catalog
CAT2012-SHRINK

Tooling System Catalog
CAT2011-TC

Modular Angle Head Catalog
CAT2014-MRAM

Taper Plus Catalog
CAT2014-TAPERPLUS
Lyndex-Nikken Service and Repair

A team of experts dedicated to provide 100% customer satisfaction

Lyndex-Nikken is dedicated to providing not only the highest quality products, but also the highest quality of service and customer care. Our fully equipped service department has over 30 years experience enabling complete and timely support for all Lyndex-Nikken products including: CNC rotary tables, CNC machining center tooling, Live and Static tools.

Lyndex-Nikken implements training certification programs in order to standardize a thorough understanding of our products. Our certified service engineers provide high quality service, technical support and training, and look forward to satisfying your industrial needs.

Before purchasing a rotary table, it’s important to go through preliminary steps which will insure that you choose the right table to fit your machine and meet your manufacturing expectations.

Lyndex-Nikken regional managers will guide you through these different steps and assist you with table selection, brake system selection and machine fit, guaranteeing complete customer satisfaction.

The highest quality hardware and components

We only use superior hardware and components to guarantee the best results and trouble-free, long term reliability for our products.

- Genuine Brother parts
- Cut and wear resistant Waterproof Cabling
- Cable management

Installation Kit

Our installation kit includes the following:

- Drive Installation
- Parameter Changes
- Communication Cables
- Fiber Optic Cables
- Bulkhead Cable Set
- Documentation
- Sheet Metal (where required)
Lyndex-Nikken In-house Services:

- Fault diagnosis and repair work
- Motor fitment and CNC M/C preparation
- Cable manufacture and guard modifications
- Brake boosters upgrades
- Rotary Table retrofit service for installation on different machining centers
- Tool repair and calibrations
- Complete rotary table refurbishment
- Customer training and support

Our comprehensive technical and repair services is here to protect your investment. Please contact us to arrange a visit or discuss any requirements in more detail.
www.lyndexnikken.com
1468 Armour Boulevard
Mundelein, IL 60060
E-mail: inquiries@lyndexnikken.com
Phone: (847) 367-4800
Fax: (847) 367-4815

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