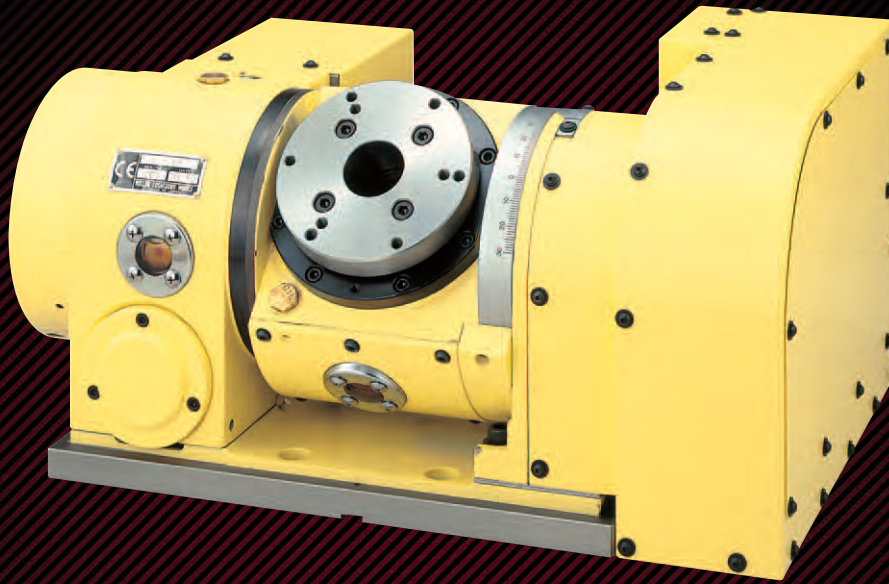


NIKKEN ROTARY TABLES FOR FANUC ROBODRILL

LYNDEX
NIKKEN



FANUC
ROBODRILL



Nikken's Patented Ion Nitrided Worm Wheel

Less Maintenance, More Productivity

Nikken's Rotary Tables are known worldwide for their long-term reliability and productivity. These benefits, along with our unparalleled long-term accuracy and repeatability, are achieved mainly due to our patented Ion Nitrided Worm Wheel.

- Reduces friction and wear by up to 8 times (compared to common phosphorous bronze and aluminum bronze worm wheel construction)
- Reduction of wear translates into reduced maintenance, and therefore more uptime and productivity

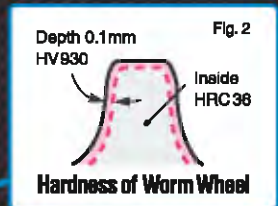
V-Grade Carbide Worm Screw

- Extremely durable and wear resistant
- Maintains long-term accuracy
- Dual bearing support



Ion Nitrided Worm Wheel

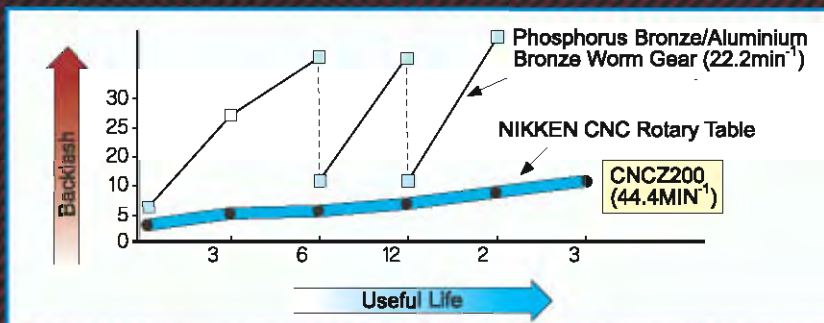
- Specially hardened and ion nitrided treated on teeth
- Eliminates sliding friction



Unmatched Custom Bearings

- Excellent weight load capacities
- Large custom roller and thrust bearing surfaces
- Measured in micron accuracies

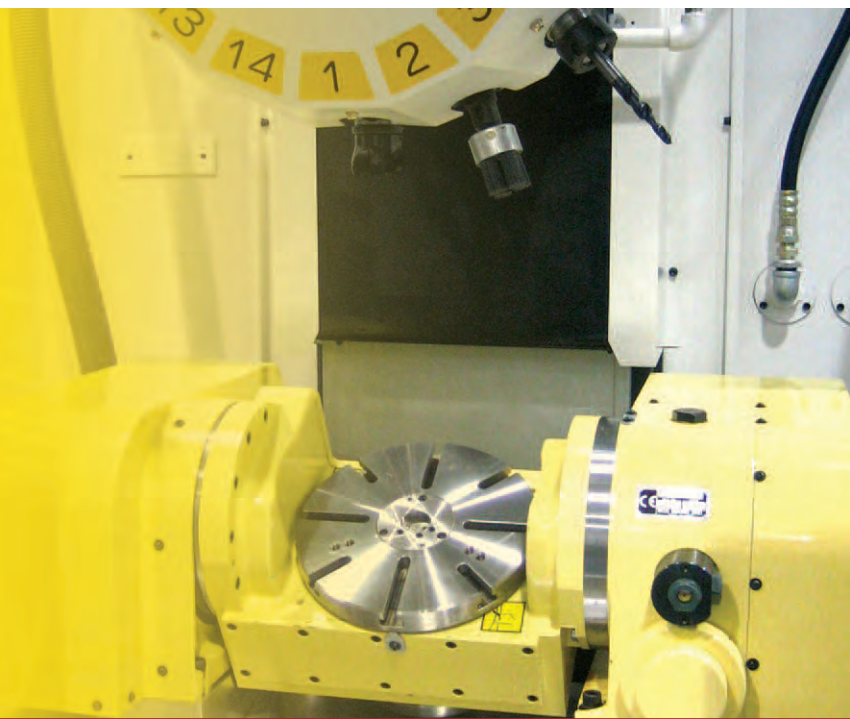
Japan (PAT.1856406)
USA (PAT.4576058)
GERMANY (PAT.DE3417860C2)
UK (PAT.2158546)
FRANCE (PAT.8407554)



Backlash Compensation

As wear is reduced, so is the need for backlash compensation. This chart shows typical wear characteristics, as well as the necessity for frequent backlash adjustments for other manufacturers' rotary tables.

HIGH PRECISION AND INTELLIGENT MACHINING



The Perfect Solution for Your Manufacturing Needs

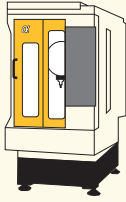
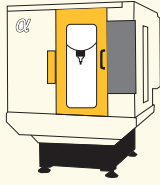
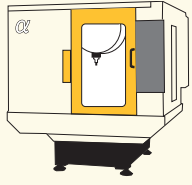
Lyndex-Nikken Rotary Tables are known worldwide for wear-resistance, rigidity and high-speed rotation. Every part of every table is designed and built to provide high-accuracy, increased production and a trouble-free long life. All Nikken Rotary Tables have built-in features and benefits unmatched by the competition.

Fanuc Robodrill is an intelligent high-speed CNC drill with versatility which offers application solutions to meet a wide variety of machining needs. These vertical machining centers are capable of outperforming drilling and tapping machines and offering milling capability comparable to a 40 taper machine.

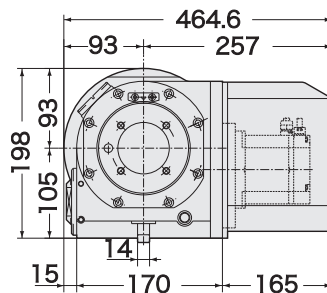
Our Rotary Tables seamlessly become part of the machine to create the perfect solution for every manufacturing requirement. The result is simple: maximum productivity and efficiency.



**LYNDEX
NIKKEN**  **FANUC
ROBODRILL**

Fanuc Robodrill		Nikken Rotary Table	
		4 Axis	5 Axis
	α-T14iFs/T14iFse α-T21iFs/T21iFse	CNCZ105LFA CNC180LFA CNC202LFA CNC260LFA	5AX-130FA
	α-T14iF/T14iFe α-T21iF/T21iFe	CNCZ105LFA CNC180LFA CNC202LFA CNC260LFA	5AX-130FA 5AX-150FA
	α-T14iFL/T14iFLe α-T21iFL/T21iFLe	CNCZ105LFA CNC180LFA CNC202LFA CNC260LFA	5AX-130FA 5AX-150FA 5AX-201FA NEW!

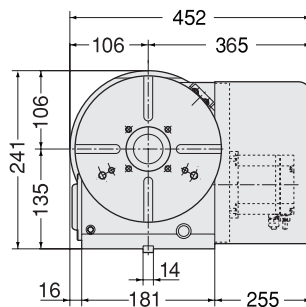
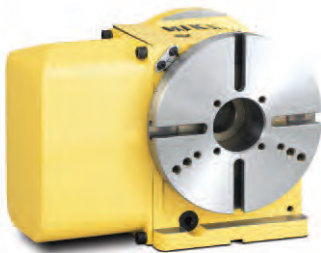
CNCZ105



Part Number	Faceplate Dia. (mm)	Rotation Speed (rpm)	Clamp Torque (Nm)	Max. Vert. Load (kg)
CNCZ105	∅105	44.4	205	30

- Available as high-speed model
- Compact design
- Suitable for a wide range of applications from small machines with simple indexing to full CNC integration for production application

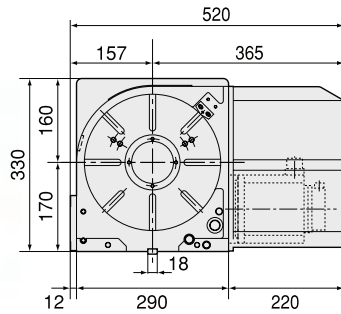
CNC180 and CNC202



Part Number	Faceplate Dia. (mm)	Rotation Speed (rpm)	Clamp Torque (Nm)	Max. Vert. Load (kg)
CNC(Z)180	∅180	22.2 (44.4)	303	100
CNC(Z)202	∅200	22.2 (44.4)	303	100

- Available in standard and high-speed (Z) models
- Suitable for a wide range of applications from small machines with simple indexing to full CNC integration for production application

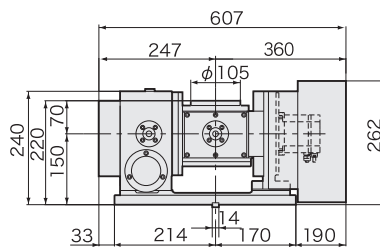
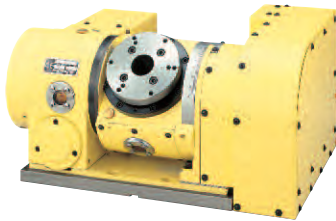
CNC260 and CNC302



Part Number	Faceplate Dia. (mm)	Rotation Speed (rpm)	Clamp Torque (Nm)	Max. Vert. Load (kg)
CNC(Z)260	∅260	16.6(33.3)	588/1568	175
CNC(Z)302	∅260	16.6(33.3)	588/1568	175

- Available in standard and high-speed (Z) models
- Several options available for motor mounting position, including right side, left side, back and top
- Highest weight load capacity in its class

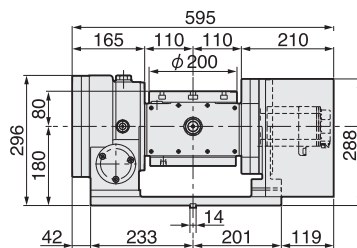
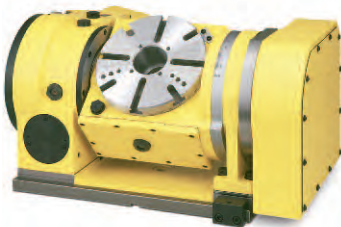
5AX-130



Part Number	Faceplate Dia. (mm)	Rotation Speed (rpm)		Clamp Torque (Nm)		Max. Work Load (kg)
		Rotary	Tilting	Rotary	Tilting	
5AX-130	∅105	22.2	11.1	205	303	25 (0°-30°) 15 (30°-90°)

- Excellent full 5 axis contouring capabilities
- Compact design

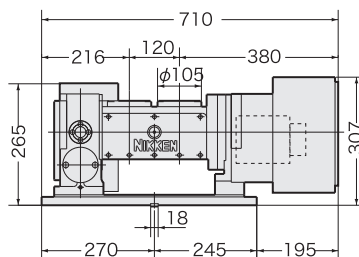
5AX-201 **NEW TABLE!**



Part Number	Faceplate Dia. (mm)	Rotation Speed (rpm)		Clamp Torque (Nm)		Max. Work Load (kg)
		Rotary	Tilting	Rotary	Tilting	
5AX-201	∅200	22.2	16.6	588	612	80 (0°~30°) 50 (30°~90°)

- Excellent full 5 axis contouring capabilities
- Compact design

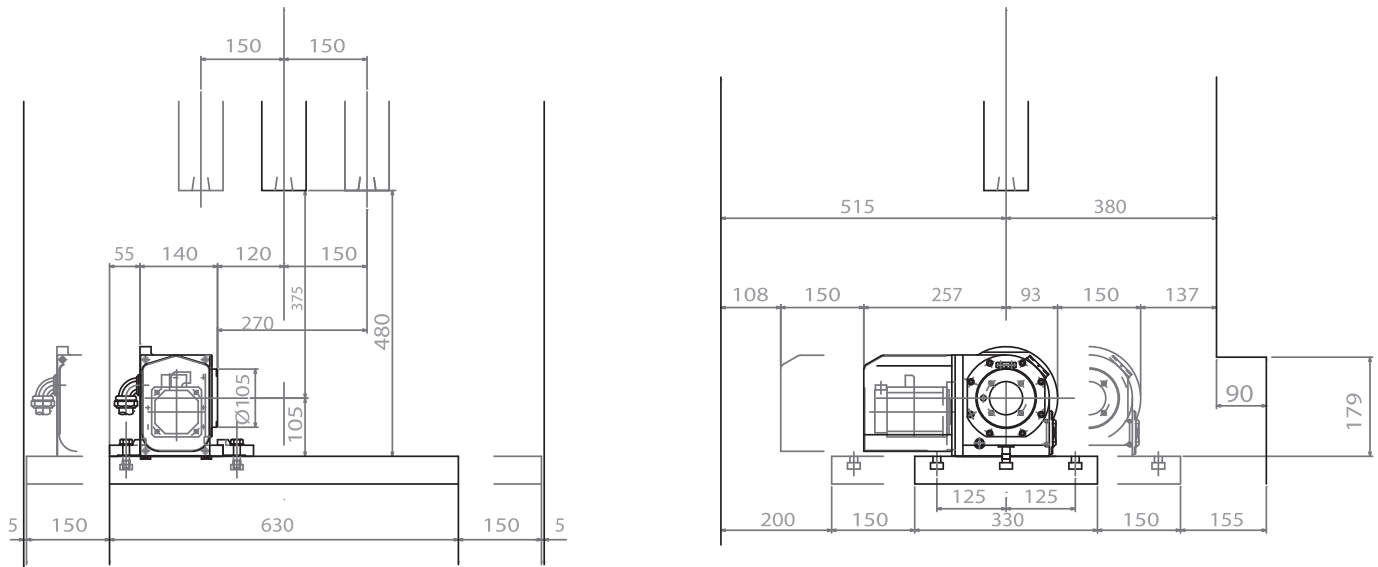
5AX-2MT-105



Part Number	Faceplate Dia. (mm)	Rotation Speed (rpm)		Clamp Torque (Nm)		Max. Work Load (kg)
		Rotary	Tilting	Rotary	Tilting	
5AX-2MT	∅105	22.2	11.1	147	147	15(0°-30°) 10(30°-90°)

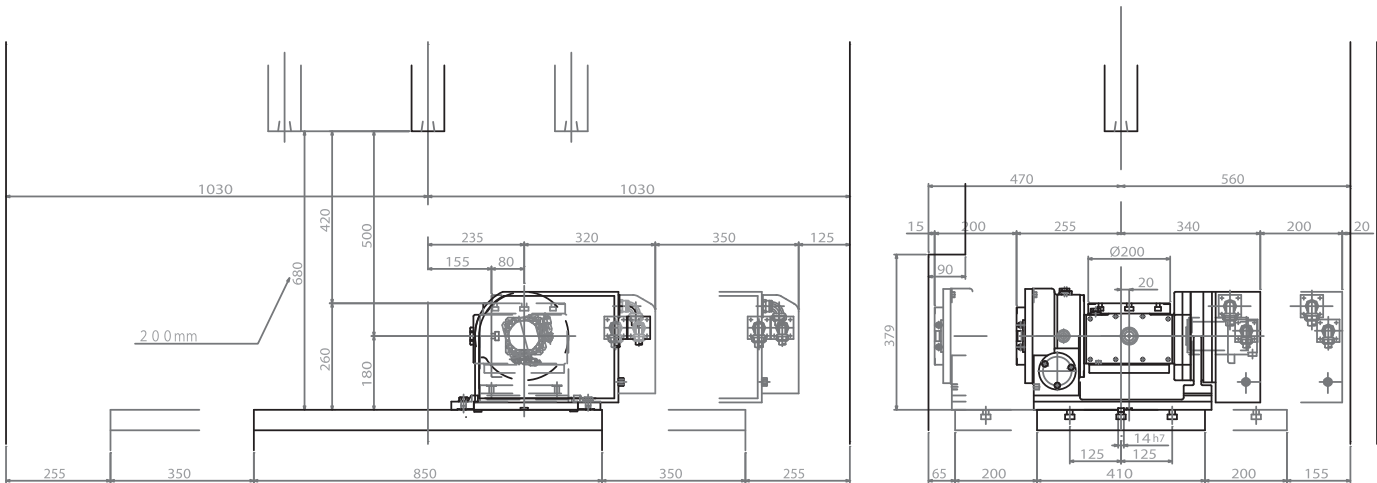
- Offer increased versatility for machine tools
- For higher productivity, option for multiple set-ups on a single spindle machine

α -T14iFs/ α -T14iFse/ α -T21iFs/ α -T21iFse with **CNCZ105LFA**

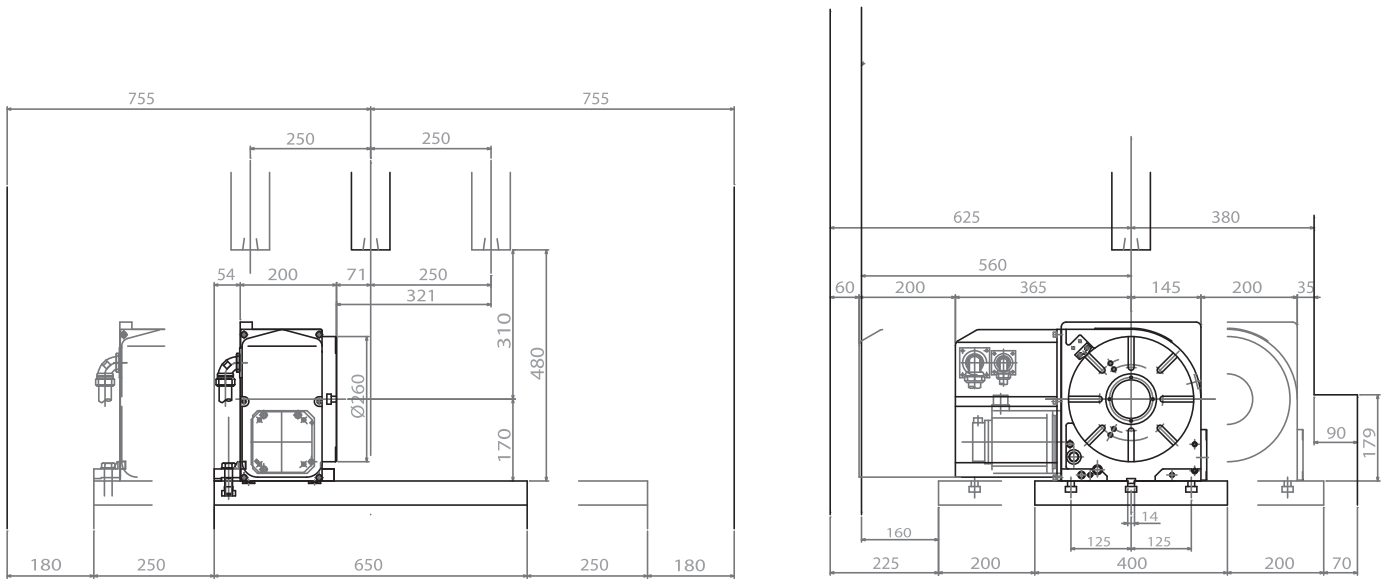


α -T14iFL/ α -T14iFLe/ α -T21iFL/ α -T21iFLe with **5AX-201FA**

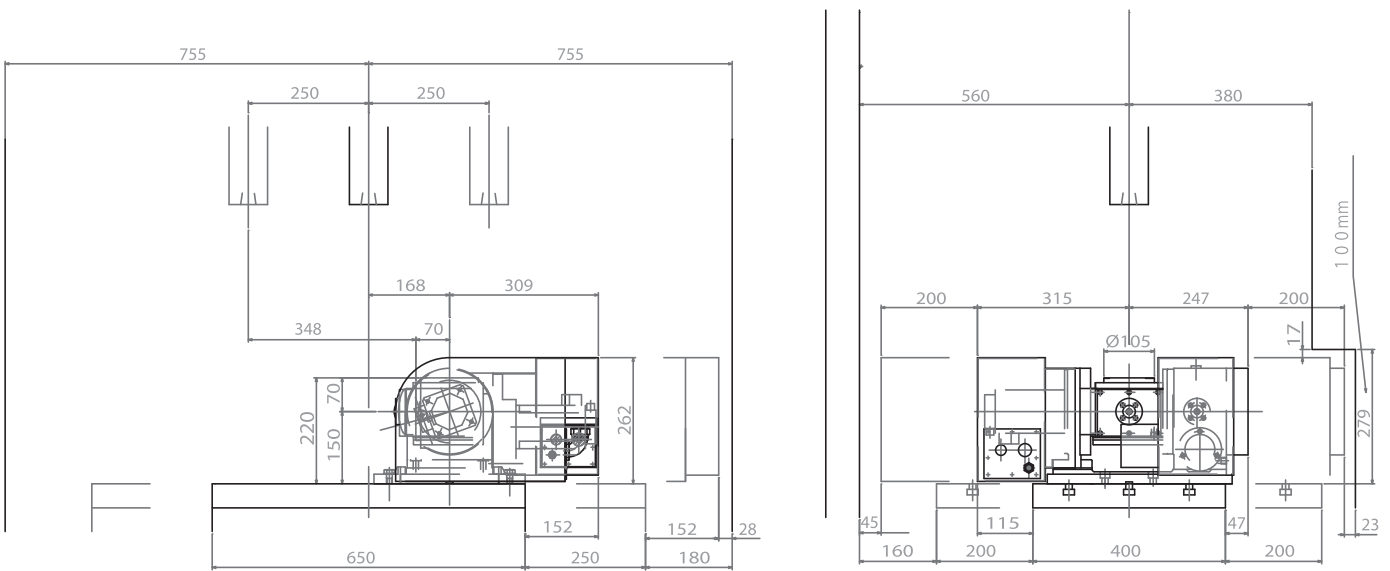
NEW TABLE!



α -T14iF/ α -T14iFe/ α -T21iF/ α -T21iFe with **CNC260LFA**



α -T14iF/ α -T14iFe/ α -T21iF/ α -T21iFe with **5AX-130FA**



Dedicated to offering a "Total Commitment Package"



Service and Support:

Lyndex-Nikken has a team of dedicated application and engineering staff available to advise and support our entire product line throughout the United States, Canada, Mexico and South America.

We provide expert process and product consultation for even the most demanding applications with full on-demand field support and ongoing training.

Installation:

Lyndex-Nikken Rotary Tables are always seamlessly integrated with the end-user's machine tool and CNC control.

Lyndex-Nikken regional managers will assist you with product selection, integration and installation, guaranteeing complete customer satisfaction.

Installation includes drive, cable, table installation, parameter changes and documentation.

Rotary Table Accessories:



Rotary Table	Manual Tailstock	Air/Hyd. Tailstock	Support Table (w/brake)	Bearing Support
CNCZ105	P-105S	PBA-105	TAT105	CST105
CNC180, 202	P-125S	PBA-135	TAT170	CST135
CNC260, 302	P-170S	PBA-170	TAT250	-

Lyndex-Nikken Tooling and Accessories

Our complete range of quality-driven toolholding solutions are designed to meet your strictest requirements and maximize the potential of your machine tool.

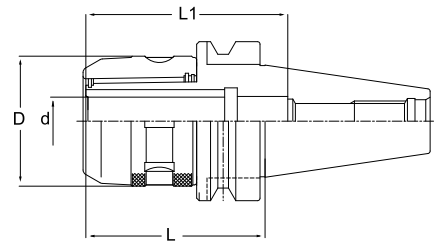


Ultra-Lock Milling Chuck

Only the Lyndex-Nikken Milling Chuck can obtain run-out accuracy within 0.0002 at 4.0" from the nose. The Ultra-Lock Milling Chuck incorporates the multi-roller system including

140% more bearing surface than the imitations. The retainer is not made of phosphorous bronze, but of a special steel, which will never break.

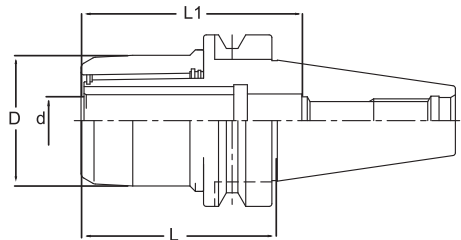
BT TAPER ULTRA-LOCK™ MILLING CHUCKS



Part Number	Collet Series 	Wrench 	Clamping Range	d	L	L1	D
BT30-C3/4-75	KM3/4	9HC22	0.125-0.750"	0.750"	2.953"	3.150"	2.047"

Note: Milling Chuck collets are located on pages 17-22 of the Lyndex-Nikken Advanced Product Catalog.
Spanner wrench not included.

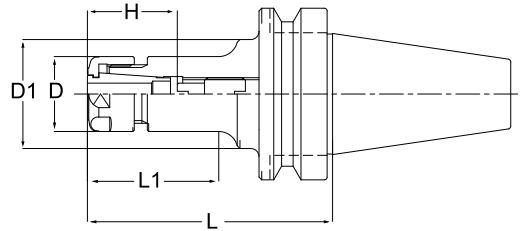
BT TAPER HIGH SPEED ULTRA-LOCK™ MILLING CHUCKS





Part Number	Collet Series 	Wrench 	Clamping Range	d	L	L1	D
BT30-C3/4-75G	KM3/4	GH20	0.125 - 0.750"	0.750"	2.953"	3.150"	1.890"

Note: Milling Chuck collets are located on pages 17-22 of the Lyndex-Nikken Advanced Product Catalog.
Spanner wrench not included.

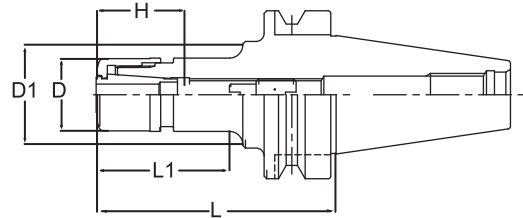
BT30 SK COLLET CHUCKS





Part Number	Collet Series 	Wrench 	L	L1	H	D	D1	Back Up Screw
BT30-SK6-60	SK06	SKL-6W	2.362"	1.299"	0.827-1.378"	0.768"	0.768"	SKG-8
BT30-SK6-90	SK06	SKL-6W	3.543"	2.205"	0.827-1.378"	0.768"	1.260"	SKG-8
BT30-SK10-45	SK10	SKL-10	1.772"	0.866"	1.181-1.969"	1.083"	1.083"	SKG-12S
BT30-SK10-60	SK10	SKL-10	2.362"	1.378"	1.181-1.969"	1.083"	1.083"	SKG-12L
BT30-SK10-90	SK10	SKL-10	3.543"	2.559"	1.181-1.969"	1.083"	1.083"	SKG-12L
BT30-SK16-60	SK16	9HC16	2.362"	1.457"	1.772-2.362"	1.575"	1.575"	SKG-12L
BT30-SK16-90	SK16	9HC16	3.543"	2.638"	1.772-2.559"	1.575"	1.575"	SKG-12
BT30-SK25-90	SK25	9HC22	3.543"	2.559"	2.165-2.953"	2.165"	2.165"	SKG-12

Note: SK collets are located on page 31-34 of the Lyndex-Nikken Advanced Product Catalog.
Spanner Wrench not included.

BT30 HIGH SPEED SK COLLET CHUCKS



Part Number	Collet Series 	Wrench 	L	L1	H	D	D1	Back Up Screw
BT30-GSK6-60P	SK06	GH6	2.362"	1.496"	0.827 - 1.378"	0.768"	0.768"	SKG-8
BT30-GSK6-90P	SK06	GH6	3.543"	2.480"	0.827 - 1.378"	0.768"	0.768"	SKG-8
BT30-GSK10-45P	SK10	GH10	1.772"	0.906"	1.181 - 1.969"	1.083"	1.083"	SKG-12S
BT30-GSK10-60P	SK10	GH10	2.362"	2.677"	1.181 - 1.969"	1.083"	1.083"	SKG-12L
BT30-GSK10-90P	SK10	GH10	3.543"	1.496"	1.181 - 1.969"	1.083"	1.083"	SKG-12L
BT30-GSK16-60P	SK16	GH16	2.362"	1.496"	1.772 - 2.362"	1.575"	1.575"	SKG-12L
BT30-GSK16-90P	SK16	GH16	3.543"	2.677"	1.772 - 2.559"	1.575"	1.575"	SKG-12
BT30-GSK25-90P	SK25	GH25	3.543"	1.693"	2.165 - 2.953"	2.165"	2.165"	SKG-28

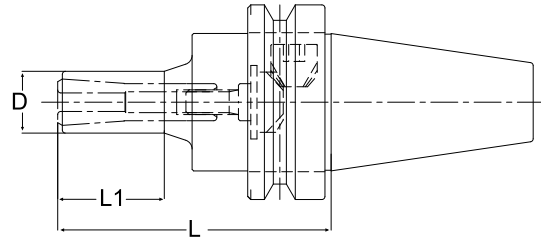
Note: SK collets are located on pages 31-34 of the Lyndex-Nikken Advanced Product Catalog.
Spanner wrench not included.


MMC Collet Chuck for Small Diameter

The MMC Collet Chuck features a slim and compact body for precision machining with small diameter tools (up to 1/2"). The MMC has an easy-to-use draw-in collet clamping

system, and is an ideal toolholder for your high-speed machining needs.

BT30 MMC COLLET CHUCKS



Part Number	Collet Series 	L	L1	D
BT30-MMC4-105	MPK04	4.134"	1.181"	0.591"
BT30-MMC8C-105	VMK08	4.134"	1.417"	0.787"
BT30-MMC12C-105	VMK12	4.134"	1.378"	1.181"

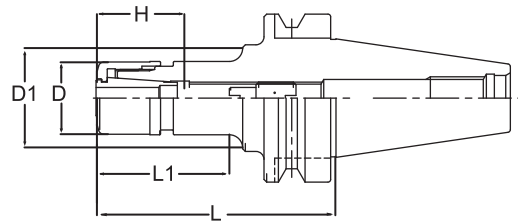
Note: For MPK and VMK Collets see page 42 of the Lyndex-Nikken Advanced Product Catalog.



VC High Performance Collet Chuck

The VC Holder produces exceptional gripping torque, run-out accuracy and cutting rigidity. This high performance toolholder excels in holding end mills during high-speed rotations,

especially suitable for finishing on die mold machining. It is capable of speeds up to 40,000 rpm.

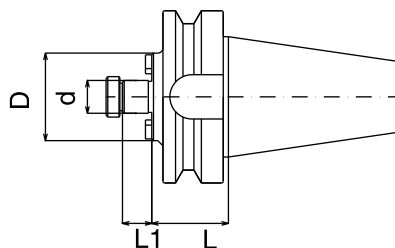
BT30 VC COLLET CHUCKS



Part Number	Collet Series 	Wrench 	L	L1	H	D	D1	Back Up Screw
BT30-VC6-45	VCK6	GH10	1.772"	0.906"	1.38"-1.77"	1.083"	1.083"	VCG6-8A
BT30-VC6-60	VCK6	GH10	2.362"	1.378"	1.38"-1.77"	1.083"	1.248"	VCG6-8A
BT30-VC6-90	VCK6	GH10	3.543"	2.559"	1.38"-1.77"	1.083"	1.315"	VCG6-8A
BT30-VC13-60	VCK13	GH16	2.362"	1.457"	1.97"-2.36"	1.575"	1.618"	VCG13-15A
BT30-VC13-90	VCK13	GH16	3.543"	2.638"	1.97"-2.36"	1.575"	1.626"	VCG13-15A
BT30-VC13-120	VCK13	GH16	4.724"	3.819"	1.97"-2.36"	1.575"	1.669"	VCG13-15A

Note: For VCK Collets see page 50 of the Lyndex-Nikken Advanced Product Catalog.

BT TAPER SHELL MILL HOLDERS

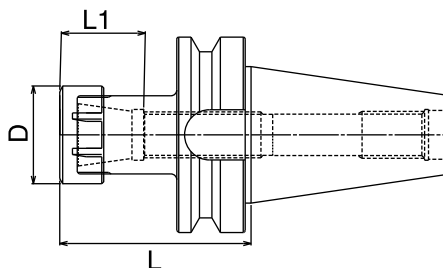




Part Number	Taper	d	L	D	L1	Key Size	Arbor Thread
B3001-0500	BT30	1/2"	1.19"	1.38"	0.57"	1/4"	1/4"-28
B3001-0750	BT30	3/4"	1.19"	2.00"	0.67"	5/16"	3/8"-24
B3001-1000	BT30	1"	1.19"	2.38"	0.67"	3/8"	1/2"-20

HSBALANCE™ Shell Mill Holders

For high-speed applications, refer to page 97 of the Lyndex-Nikken Advanced Product Catalog.

BT TAPER ER COLLET CHUCKS



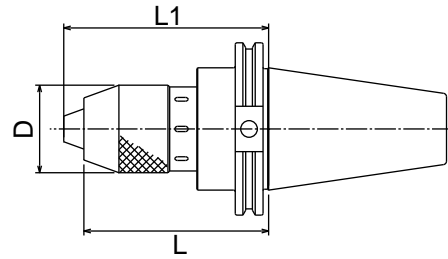
Part Number	Collet Series 	Wrench 	Collet Range	L	L1	D
B3007-0008	ER8	08-HSSPAN	.019-.196"	2.00"	0.51"	0.47"
B3017-0008	ER8	08-HSSPAN	.019-.196"	4.00"	0.51"	0.47"
B3007-0011	ER11	011-HEX	.019-.275"	2.00"	0.65"	0.75"
B3017-0011	ER11	011-HEX	.019-.275"	4.00"	0.65"	0.75"
B3007-0016	ER16	016-SPAN	.019-.406"	2.36"	0.87"	1.26"
B3017-0016	ER16	016-SPAN	.019-.406"	4.00"	0.87"	1.26"
B3027-0016	ER16	016-SPAN	.019-.406"	5.00"	0.87"	1.26"
B3037-0016	ER16	016-SPAN	.019-.406"	6.00"	0.87"	1.26"
B3007-0020	ER20	020-SPAN	.039-.511"	2.50"	1.06"	1.38"
B3017-0020	ER20	020-SPAN	.039-.511"	4.00"	1.06"	1.38"
B3007-0025	ER25	025-SPAN	.039-.629"	2.00"	1.18"	1.65"
B3017-0025	ER25	025-SPAN	.039-.629"	4.00"	1.18"	1.65"
B3007-0032	ER32	032-SPAN	.078-.787"	3.00"	1.34"	1.97"
B3017-0032	ER32	032-SPAN	.078-.787"	5.00"	1.34"	1.97"

HSBALANCE™ ER Collet Chucks

For high-speed applications, refer to page 102 of the Lyndex-Nikken Advanced Product Catalog.

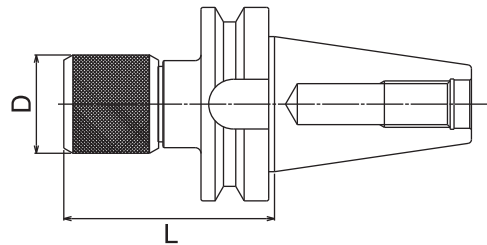
Note: ER Collets are located on page 63-75 of the Lyndex-Nikken Standard Product Catalog.

BT TAPER INTEGRAL KEYLESS DRILL CHUCKS



Part Number	Taper	Capacity	L	L1	D
BT30-NPU8-70	BT30	5/16" (8.0mm)	3.01"	3.29"	1.36"
BT30-NPU13-95	BT30	1/2" (13.0mm)	4.02"	4.45"	1.81"

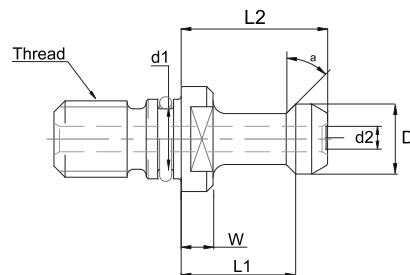
BT TAPER RIGID TAP HOLDERS



Part Number	Taper	Tap Range		System	L	D
		Hand	Pipe			
B30R5-0562	BT30	#0-9/16"	1/8"	#1	2.44"	1.25"

Note: For Tap Collets see page 128-140 of the Lyndex-Nikken Standard Product Catalog.

BT TAPER RETENTION STUDS



Part Number	D	d1	d2	L1	L2	Angle °	W	Thread	O-RING
B30-4500	0.430	0.492	--	0.709	0.91	45	0.19	M12P1.75	--
PS-132	0.430	0.492	0.19	0.709	0.91	45	0.19	M12P1.75	P-9

TOOLJAW® Lyndex-Nikken Item No. B30-TOOLJAW



Lyndex-Nikken ToolJaws are machinists' favorite tooling setup fixtures because they are so handy and practical. Load a toolholder into a ToolJaw, you'll gain immediate access to both the working end and the taper end, and your toolholder will be secured by a vise-tight grip.

Easy to use, just place or mount your ToolJaw in a convenient spot and slip a holder into its cradle. Raise the flange lock and secure it with an easy-to-grip thumb screw.

Features

- Access both ends of your toolholders simultaneously
- Minimize toolholder handling
- Speed up your setup
- Proven performance in the world's top shops
- Convenient and practical
- Easy to use

FlashPoint™ • Lyndex-Nikken Item No. FP - 1

Axis setter for steel workpieces.

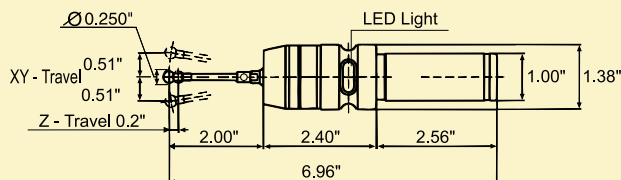
FlashPoint is fast, easy to use, and boasts unparalleled accuracy and repeatability. This is an ideal setup tool for CNC machining centers because exact setup points become easily visible from the machine's control panel.



- **Advanced conductive detection system**
Instant LED response
Works with ferrous metals only
Unaffected by cutting oil
- **Precise**
Height: 2" +/- 0.0001"
Parallelism: within 0.0002"
Repeatability: within 0.0002"
- **Magnetic**
Direct X-, Y-, and Z-axis setting for all ferrous metals
- **Overrun protection**
3/16"
- **Compact design**
- **Hardened and precision ground steel construction: built to last**

PointFinder™ • Lyndex-Nikken Item No. PF-2

Locate the precise relative positioning of the workpiece to the spindle
- measuring directly from the spindle itself.



Features

- Position your workpiece without primary axis setters
- Measure without calipers
- Set depths, find centers without gauges
- Fast, easy and accurate
- Turn expensive setup time into profit-making production time

E123 Tool Presetter

Fast, Accurate and Affordable

Our E123 line makes tool presetter as easy as one, two, three. The E123 is the affordable answer to fast and accurate tooling setup, measurement and inspection. No other tool presetter at this price level offers the high technology, precision and ease of use of the E123.

Part Number	Description
E123-50	50 Taper E123 Presetter
B30-MASTER	Resetting gauge BT30 Taper
50/30-REDUCE	Reducing sleeve for 30 Taper
O7WE	Portable Thermal Printer with labels

Mechanical Features

- Measuring Range: X-Axis – 130 mm (ø260 mm)
Z-Axis – 360 mm
- Zero Setting with Certified Resetting Gauge
- Resolution: X-Axis - 1µm, Z-Axis - 5µm

Spindle

- Fixed rotating spindle
- Incorporates six mini-bearings with radial concentricity error compensation
- Available in two standard versions: ISO/BT/CAT40 and ISO/BT/CAT50

Axis Movement

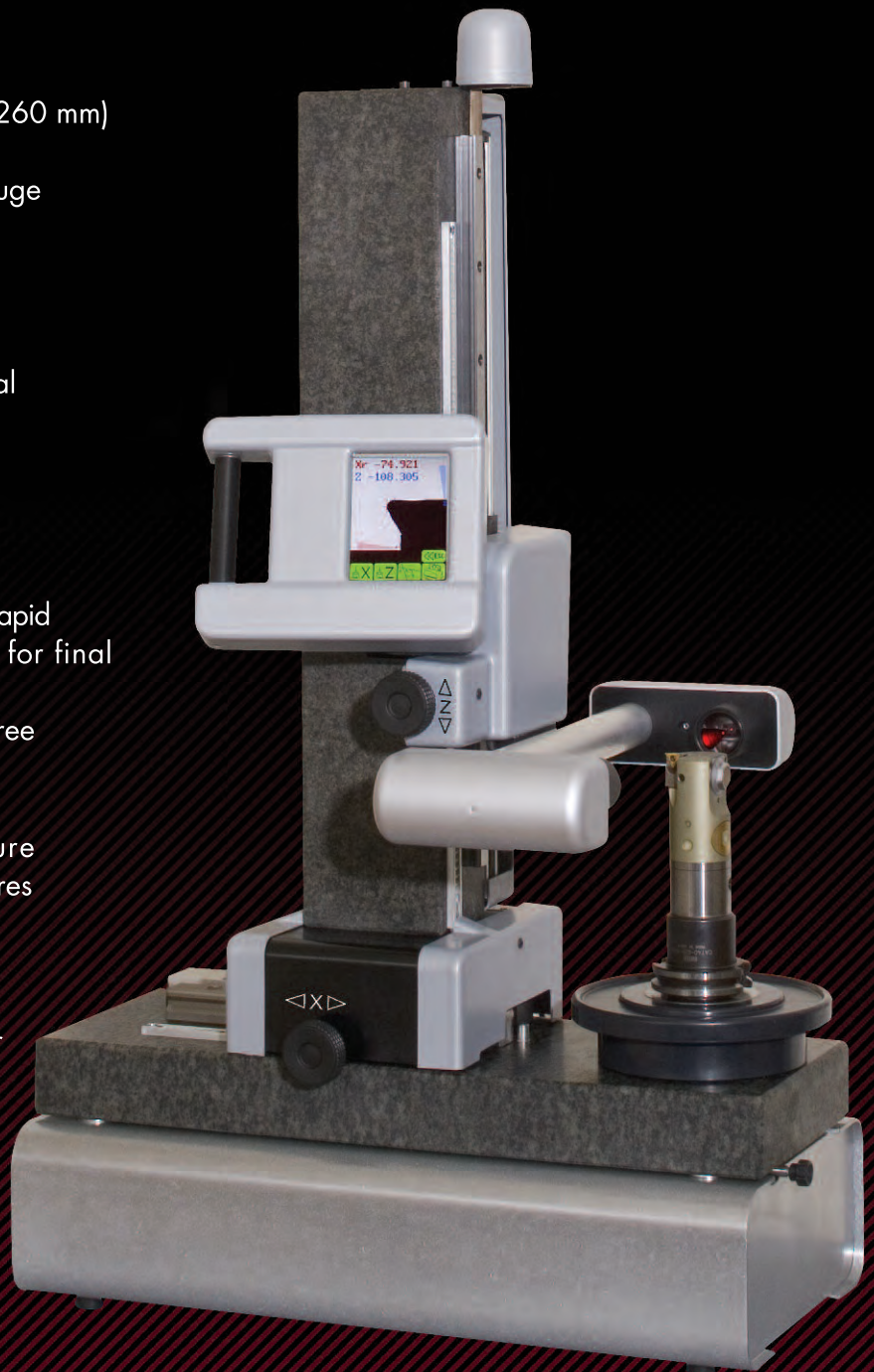
- Movement of both X and Z axis is manual rapid
- Simple hand wheels are incorporated for final framing of the profile in the screen
- Mechanism is completely maintenance-free

Base Column

- Ground granite bases and columns ensure accuracy of movement in all temperatures

Camera

- Touch-screen vision system
- Exclusive camera system features full-color LCD screen
- A CMOS image sensor with STN screen allows accurate measuring of any kind of tool profile
- Measurement is fully automatic and includes both radius and angle values
- Focusing bars ensure 100% repeatability





FANUC ROBODRILL α -iF series

FANUC technology has contributed to a world-wide manufacturing revolution, which evolved from the automation of a single piece of machine to the automation of entire factory production lines.

www.fanuc.co.jp

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Lyndex-Nikken High Quality Machine Tool Accessories

Lyndex-Nikken has emerged as the world's premier manufacturer of rotary tables and toolholders, capable of meeting all your application requirements.

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