

**NIKKEN ROTARY TABLES
FOR FANUC ROBODRILL**

FANUC **ROBODRILL**



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 other brands.

Fanuc Robodrill is an intelligent and versatile high speed CNC milling machine capable of meeting a wide variety of machining needs. These vertical machining centers are capable of outperforming traditional drill and tap machines by 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.



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1.



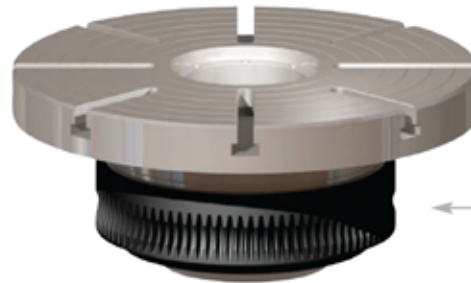
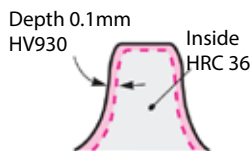
Patented Solid Carbide Worm Screw and Heat Treated Steel Worm Wheel

- 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.

LYNDEX-NIKKEN

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

The material used for the Nikken worm wheel is custom made steel, specially hardened and ion nitrided on the teeth. As a consequence, frictions between the gears are eliminated.

OTHER BRANDS

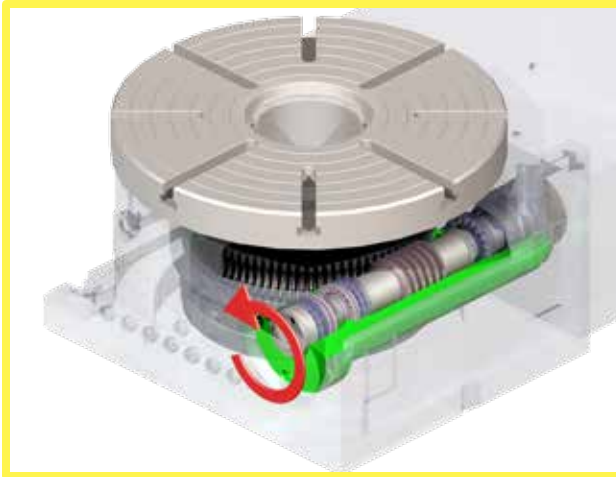
Bolt-on bronze wheel to a two pieces faceplate and quill design. Configuration relies on the malleability of the worm wheel to deform around the shape of the worm screw to eliminate backlash



← Bolt-on faceplate to quill base

← Soft worm wheels wear much quicker, resulting in indexing inaccuracies and unnecessary maintenance

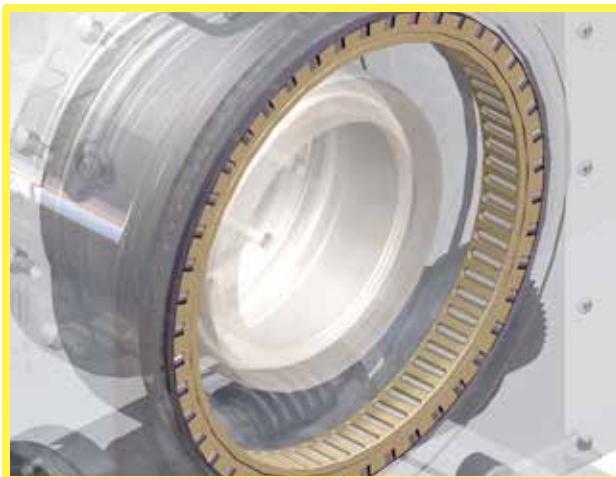
3.



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

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

GENERAL MACHINE SPECIFICATIONS

TRAVEL X-AXIS	11.8 in. (300 mm)
TRAVEL Y-AXIS	11.8 in. (300 mm)
TRAVEL Z-AXIS	13.0 in. (330 mm)
TABLE TO SPINDLE NOSE	5.9 in. (150 mm)
INDEXING TABLE SIZE	24.8 x 13.0 in. (630 x 330 mm)
MAX. LOAD CAPACITY	441 lbs. (200 kg) uniform load
FEED RATE - RAPID X/Y/Z	2,125 / 2,125 / 2,125 ipm
ATC TIME (TOOL TO TOOL)	1.4 sec. (14 turret), 1.6 sec. (21 turret)



CNC180



CNC202

Please contact Lyndex-Nikken to confirm FANUC / Nikken Rotary Table working envelope.

α-D21MiA5/D21MiA • α-D14MiA5/D14MiA

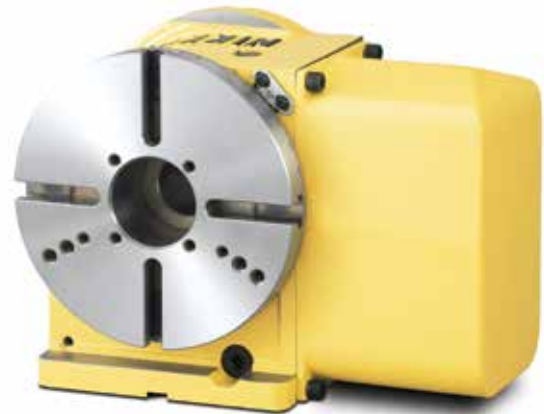


TRAVEL X-AXIS	19.7 in. (500 mm)
TRAVEL Y-AXIS	15.7 in. (400 mm)
TRAVEL Z-AXIS	13.0 in. (330 mm)
TABLE TO SPINDLE NOSE	5.9 in. (150 mm)
INDEXING TABLE SIZE	25.6 x 15.7 in. (650 x 400 mm)
MAX. LOAD CAPACITY	661 lbs. (300 kg) uniform load
FEED RATE - RAPID X/Y/Z	2,125 / 2,125 / 2,125 ipm
ATC TIME (TOOL TO TOOL)	1.4 sec. (14 turret), 1.6 sec. (21 turret)

GENERAL MACHINE SPECIFICATIONS



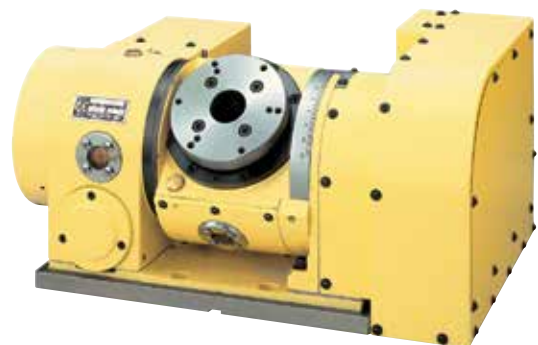
CNC180



CNC202



DD250F-150



5AX-130

Please contact Lyndex-Nikken to confirm FANUC / Nikken Rotary Table working envelope.

GENERAL MACHINE SPECIFICATIONS

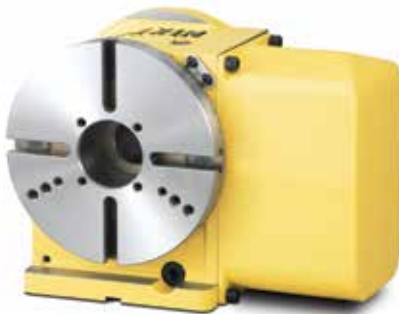
TRAVEL X-AXIS	27.5 in. (700 mm)
TRAVEL Y-AXIS	15.7 in. (400 mm)
TRAVEL Z-AXIS	13.0 in. (330 mm)
TABLE TO SPINDLE NOSE	5.9 in. (150 mm)
INDEXING TABLE SIZE	33.5 x 16.1 in. (850x 410 mm)
MAX. LOAD CAPACITY	661 lbs. (300 kg) uniform load
FEED RATE - RAPID X/Y/Z	2,125 / 2,125 / 2,125 ipm
ATC TIME (TOOL TO TOOL)	1.4 sec. (14 turret), 1.6 sec. (21 turret)



CNC180



5AX-130



CNC202



5AX-201



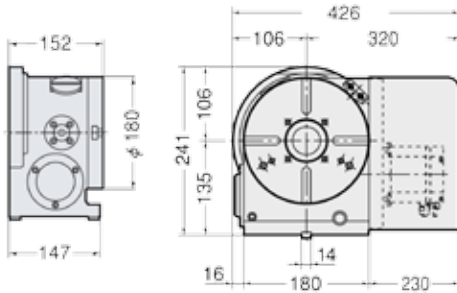
CNC260



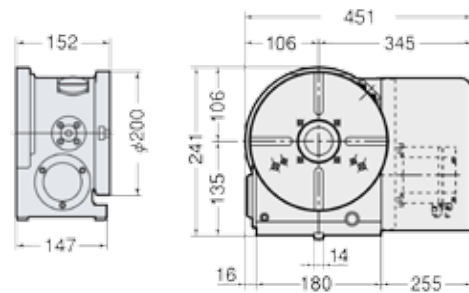
DD250F-150

Please contact Lyndex-Nikken to confirm FANUC / Nikken Rotary Table working envelope.

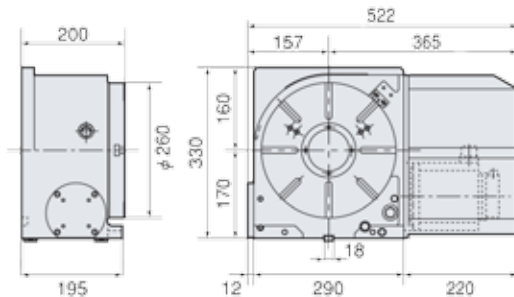
Rotary Table Dimensions



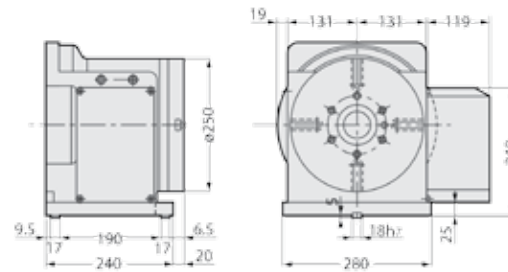
CNC180 (7.09" faceplate)



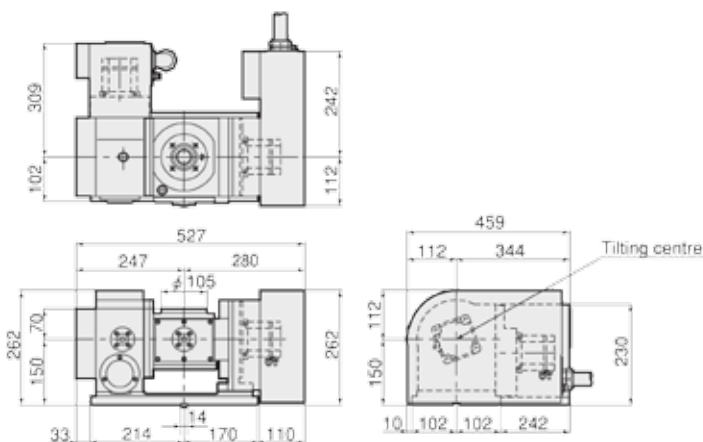
CNC202 (7.87" faceplate)



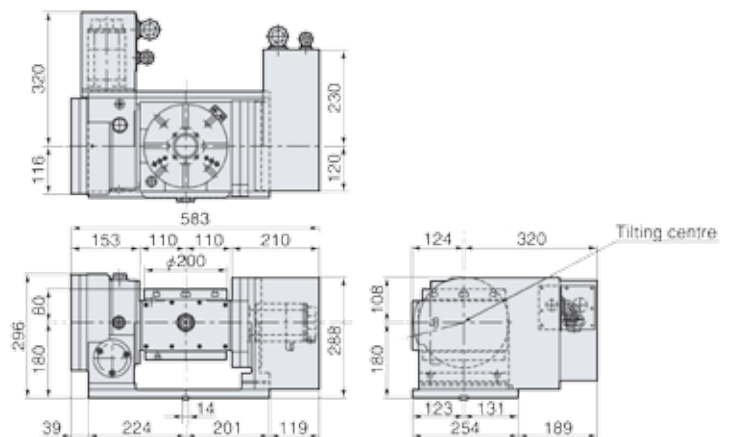
CNC260 (10.24" faceplate)



DD250F-150 (9.84" faceplate)



5AX-130 (5.12" faceplate)











5AX-201 (7.87" faceplate)

ITEM NO.		CNC180	CNC202	CNC260
Diameter of Table	ømm	180	200	260
Diameter of Spindle Hole	ømm	ø60 _{H7} ø40	ø60 _{H7} ø40	ø80 _{H7}
Center Height	mm	135	135	170
Width of T Slot	mm	12 ^{+0.018} ₀	12 ^{+0.018} ₀	12 ^{+0.018} ₀
Clamping System		Air	Air	Air/Hyd.
Clamping Torque	N·m	303	303	588/1568
Table Inertia at Motor Shaft (GD ² /4) kg·m ² ×10 ³		0.08	0.09	0.33
Servo Motor	min ⁻¹	αiF2 / 5000-2000	αiF4 / 4000-2000	αiF4 / 4000-2000
MIN. Increment		0.001°	0.001°	0.001°
Rotation Speed	min ⁻¹	22.2	22.2	16.6
Total Reduction Ratio		1/90	1/90	1/120
Indexing Accuracy	sec	±20	±20	20
Net Weight	kg	45	55	115
MAX. Work Load on the Table	Vertical kg	100	100	175
	Horizontal kg	200	200	350
MAX. Thrust Load applicable on the Table	N	10780	10780	25480
	F×L N·m	415	415	984
	F×L N·m	980	980	3332
MAX. Work Inertia	Vertical (GD ² /4) kg·m ²	0.4	1.0	3.2
Driving Torque	N·m	72	144	192

ITEM NO.		DD250F-150
Diameter of Table	ømm	250
Diameter of Spindle Hole	ømm	ø75 _{H7}
Center Height	mm	170
Width of T Slot	mm	12 _{H7}
Clamping System		Air (0.5MPa)
Clamping Torque	N·m	500
Motor (FANUC)		DiS150/300
Encoder		αiCz Sensor 512A
MIN. Incremental	deg.	0.001°
Rotation Speed	min ⁻¹	150
Indexing Accuracy	sec	±10
Net Weight	kg	105
MAX. Work Load	kg	100
MAX. Torque	N·m	380
Constant Torque	N·m	73/170*1

Rotary Table 5-AX Specifications

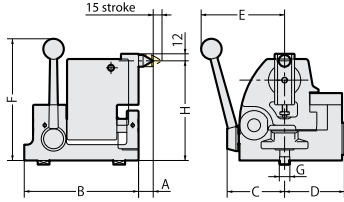
ITEM NO.		5AX-130	5AX-201
Diameter of Table	ømm	ø105 (with a ø130 sub table)	200
Diameter of Spindle Hole	ømm	ø60 _{H7} ø30	ø60 _{H7} ø50
Center Height (90°)	mm	150	180
Table Height in Horizontal Position (0°)	mm	235	260
Width of T Slot	mm	ø10 _{H7} Pin hole	12 ^{+0.018} ₀
Axis		Rotary	Tilting (0°~105°)
Clamping System		Air	Air
Clamping Torque	N·m	205	303
Table Inertia at Motor Shaft	(GD ² /4) kg·m ² ×10 ⁻³	0.09	0.12
Servo Motor	min ⁻¹	αiS2 / 5000-2000	αiF2 / 5000-2000
MIN. Increment		0.001°	0.001°
Rotation Speed	min ⁻¹	22.2	11.1
Total Reduction Ratio		1/90	1/180
Indexing Accuracy	sec	±30	60
Net Weight	kg	115	160
MAX. Work Load on the Table	0° to 30°  kg	50	60
	30° to 90°  kg	25	40
MAX. Thrust Load applicable on the Table	Tilting Angle = 0°  N	5880	9800
	Tilting Angle = 0°  L = 65mm F = 2940N	L = 65mm F = 2940N	L = 100mm F = 4900N
	Tilting Angle = 90°  L ₁ = 0mm F ₁ = 3460N L ₂ = 100mm F ₂ = 1590N	L ₁ = 0mm F ₁ = 3460N L ₂ = 100mm F ₂ = 1590N	L ₁ = 0mm F ₁ = 5880N L ₂ = 100mm F ₂ = 2940N
	Tilting Angle = 90°  F×L N·m	98	382
MAX. Work Inertia	Vertical  (GD ² /4) kg·m ²	0.12	0.5
Driving Torque	 N·m	72	72



List of Tailstock and Support Table

Table Model	Centre Height	Tailstock			
		Manual Stroke: 15mm	Air/Hyd. Tailstock Stroke: 60mm	Hyd. Tailstock Stroke: 100mm	Support Table Built-in Brake (Hyd.)
CNC105	105	P-105S	PBA-105		TAT105
CNC180, 202	135	P-125S	PBA-135		TAT170
CNC180B, 202B	180	P-170S	PBA-180	H-170S	
NST250	155	P-150S		H-150S	
CNC260, 302	170	P-170S	PBA-170	H-170S	TAT250
CNC321, 401	230	P-230S		H-230S	TAT320,400
CNC501, 601	310	P-310S			TAT500,600
NST300	208	P-210S		H-210S	
NST450, 500	288	P-280S			
5AX-130	150	P-150S	PBA-150	H-150S	
5AX-201, 200(II)	180	P-170S	PBA-180	H-170S	
5AX-230	240	P-230S		H-230S	
5AX-350	300	P-310S			
CNC100-2, 3, 4W	105		PBA-105-2,3,4W		
NSV2180	135	P-125S	PBA-135		
NSV2300	170	P-170S	PBA-170	H-170S	TAT250
NSVX400	240	P-230S		H-230S	TAT400

Dimension of Manual Tailstock

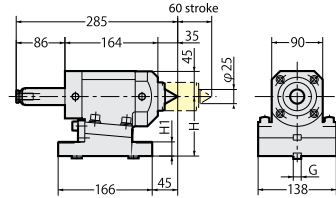


Code No.	Centre Height H	A	B	C	D	E	F	G	Weight (Kg)
P-105S	102-110	27	150	76	74	120	195	14	10
P-125S	125-135	27	150	76	74	120	210	14	11.5
P-150S	145-160	25	195	98	102	145	210	18	22
P-170S	160-180	25	195	98	102	145	210	18	22.5
P-210S	200-220	25	195	98	102	145	250	18	26.5
P-230S	220-240	25	195	98	102	145	250	18	27
P-280S	280-300	15	235	103	124	145	330	20	41
P-310S	300-310	15	235	103	124	145	330	20	41.5

The centre height can be adjusted. Please refer Centre Height H on the table.

- * Left handed tailstocks are available in all sizes.
- * For P-150S or larger size tailstocks, 5 pcs of changeable centres are included.

Air/Hyd. both usable Small Size Tailstock

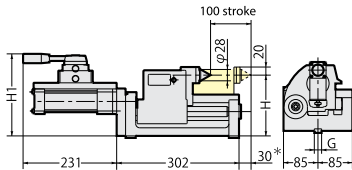


Code No.	Centre Height H	H ₁	G	Thrust (N)		Weight (Kg)
				Air 0.5MPa	Hyd. 2MPa	
PBA-105	105	25	14	1176	4733	15
PBA-135	135	55	14	1176	4733	20
PBA-150	150	70	18	1176	4733	22
PBA-170	170	90	18	1176	4733	24.5
PBA-175	175	95	18	1176	4733	25
PBA-180	180	100	18	1176	4733	25.5

The centre height can be adjusted within 0.35mm.

- * Rotary centre is built-in.
- * MT (Morse Taper) type quill is also available. Please contact us.
- * Different stroke lengths are available. Please contact us.

Hydraulic Tailstock



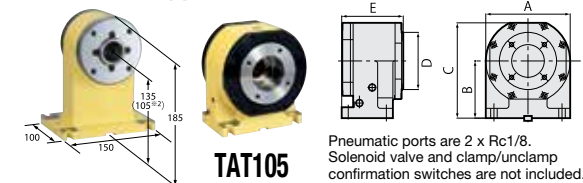
Code No.	Centre Height H	H ₁	G	Thrust (N)	Weight (Kg)
				Hyd. 3.5MPa	
H-150S	145-160	191	18	5370	28
H-170S	160-180	211	18	5370	35
H-210S	200-220	251	18	5370	41
H-230S	220-240	271	18	5370	45

The centre height can be adjusted. Please refer Centre Height H on the table.

- * Rotary centre is built-in.
- * MAX. work piece diameter must be smaller than $\phi 130$ mm, when the stroke of changing the work piece is more than 30mm marked *.

- For details of CNC rotary table for tailstock, please contact with us for more details.
- In case of air/hyd. tailstock, the hydraulic unit, connecting cables and air/hyd. hoses are supplied as an option.

Small Size Support Table TAT (JAPAN. PAT)



CST100-105, 135
(w/o brake)

* Please add "- centre height" at the end of Code No. for the support table with different centre height (B). e.g. TAT105-135

Code No.	A	B	C	D	E	Clamping System	Brake Torque	Weight
TAT105	155	105	175	105	113	Air	205	16
TAT170	155	135	220	170	138	Air	205	25

- * Air pressure is 0.5MPa. (N * m) (Kg)
- * Double intensifying clamping mechanism is installed on TAT105 & TAT170.
- * Rotary joint is available for all models

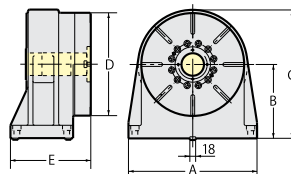
Support Table TAT



Code No.	A	B	C	D	E	Clamping System	Brake Torque	Weight
TAT200	250	150	250	200	145	Air/Hyd.	112 / 784	43
TAT250	250	170	295	250	145	Air/Hyd.	112 / 784	50
TAT320	400	230	390	320	250	Hyd.	1470	120
TAT400	400	230	430	400	250	Hyd.	1470	140
TAT500	480	310	560	500	250	Hyd.	1470	200

- * Air pressure is 0.5MPa. (N * m) (kg)
- * Hydraulic pressure is 3.5MPa.
- * Rotary joint is available for all models
- * Air-hydraulic booster is available, when the support table with hydraulic clamping system is used on the M/C without hydraulic source.

* Please add "- centre height" at the end of Code No. for the support table with different centre height (B). e.g. TAT320-240 (For CNC321T)



Hydraulic ports are 2 x Rc3/8 and pneumatic ports are 2 x Rc1/4. Solenoid valve and clamp/unclamp confirmation switches are not included.

Complete Turnkey Installation and Interface

Lyndex-Nikken is the only rotary table manufacturer to offer complete interface and installation on Fanuc controller machining centers. You can rely on us to provide a clean and professional installation which will look as if it came directly from the factory.

We guarantee a seamless integration with your machine tool and CNC control, whether a 4th or 5th axis, on vertical or horizontal machining centers.

A team of experts dedicated to provide 100% customer satisfaction

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 thru 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 Fanuc parts
- Genuine Fanuc option parameters
- Cut and wear resistant Waterproof Cabling
- Cable management

Factory Clean Installation

Our service includes the following:

- Drive Installation
- Parameter Changes
- Communication Cables
- Table Installation
- Fiber Optic Cables
- Documentation
- Bulkhead Cable Set
- External Cable Installation



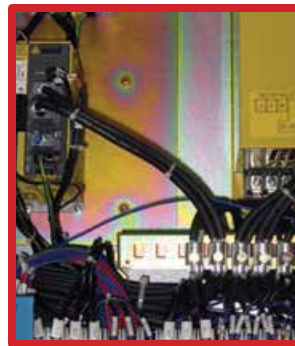
Step 1 - Electrical Cable Setup

1. Mount cable kit and air line plate on to sheet metal.
2. Plumb the electrical cables to the electrical cabinet.



Step 2 - Amplifier

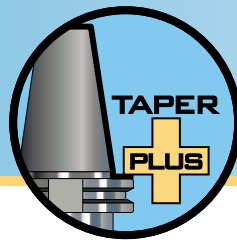
1. Mount Fanuc amplifier and fiber optic cables.
2. Set parameters to turn on additional axes.



Step 3 - Rotary Table Setup

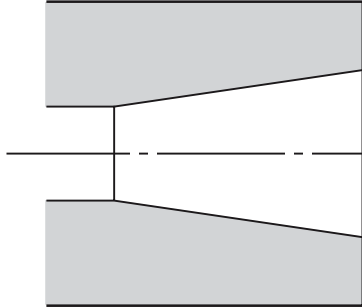
1. Install rotary table for fine tuning.
2. Install brake clamp and unclamp buttons on control panel.
3. Setup and programming training.



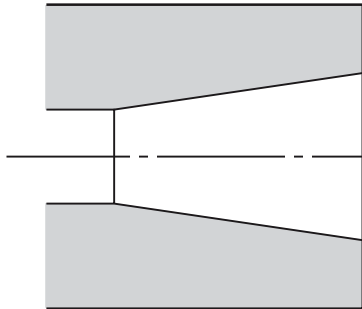


Taper Plus Technical Specifications

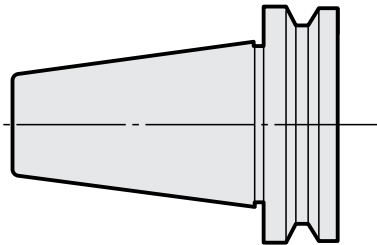
Standard 7/24 taper spindle



Dual Face Contact 7/24 taper spindle



Taper Plus Toolholder



Taper Plus Toolholders are interchangeable between Standard and Dual Face Contact spindles for greater flexibility!

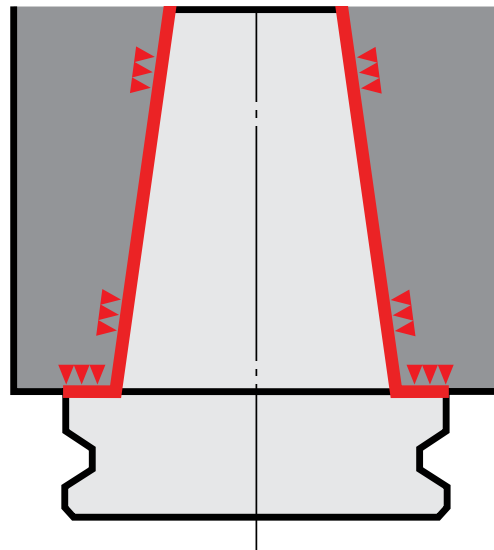
Run-Out Accuracy

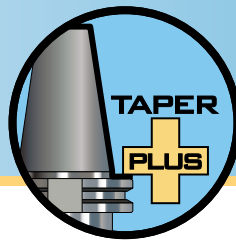


CAT/BT Dual Face Contact Spindle

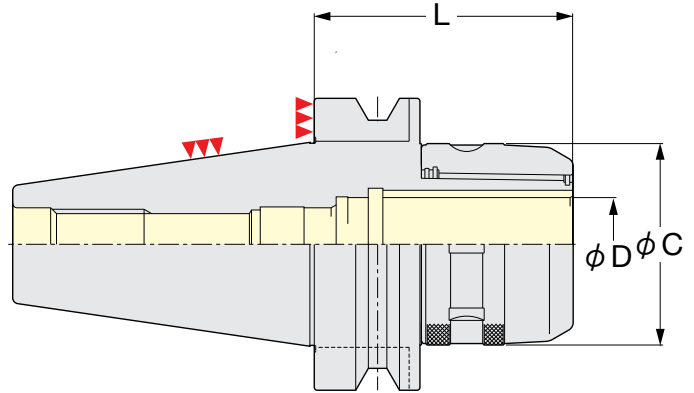


Taper Plus Toolholder





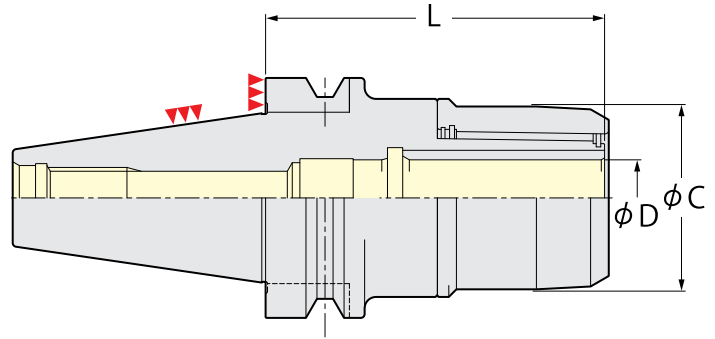
Milling Chucks



Part Number	Collet Series	Wrench	Clamping Range	D	L	C
NBT30-C3/4-75	KM3/4 or CCK3/4	9HC22	0.125 - 0.750"	0.75"	2.953"	2.047"
NBT30-C1-80	KM1 or CCK1	9HC25	0.125 - 1.0"	1.0"	3.15"	2.165"

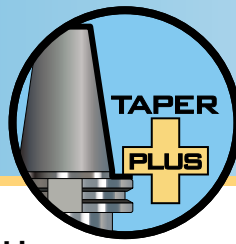
KM and CCK Reduction Collets available on page 17.

High Speed Milling Chucks



Part Number	Collet Series	Wrench	Clamping Range	D	L	C
NBT30-C3/4-75G	KM3/4 or CCK3/4	GH20	0.125 - 0.750"	0.75"	2.953"	1.89"
NBT30-C1-80G	KM1 or CCK1	GH25	0.125 - 1.0"	1.0"	3.15"	2.165"

KM and CCK Reduction Collets available on page 17.



KM 3/4 Collet-Inch and Metric

Size	Collet Number
1/8"	KM3/4-1/8
3/16"	KM3/4-3/16
1/4"	KM3/4-1/4
5/16"	KM3/4-5/16
3/8"	KM3/4-3/8
7/16"	KM3/4-7/16
1/2"	KM3/4-1/2
9/16"	KM3/4-9/16
5/8"	KM3/4-5/8
6mm	KM3/4-6
7mm	KM3/4-7
8mm	KM3/4-8
10mm	KM3/4-10
12mm	KM3/4-12
14mm	KM3/4-14
16mm	KM3/4-16

CCK 3/4 Collet-Inch and Metric

Size	Collet Number	Coolant Thru Nut	Slotted Nut	Disc Wrench
1/8"	CCK3/4-1/8	CKFN3/4-1/8C	KFN3/4-1/8	CCKL20
3/16"	CCK3/4-3/16	CKFN3/4-3/16C	KFN3/4-3/16	
1/4"	CCK3/4-1/4	CKFN3/4-1/4C	KFN3/4-1/4	
5/16"	CCK3/4-5/16	CKFN3/4-5/16C	KFN3/4-5/16	
3/8"	CCK3/4-3/8	CKFN3/4-3/8C	KFN3/4-3/8	
7/16"	CCK3/4-7/16	CKFN3/4-7/16C	KFN3/4-7/16	
1/2"	CCK3/4-1/2	CKFN3/4-1/2C	KFN3/4-1/2	
9/16"	CCK3/4-9/16	CKFN3/4-9/16C	KFN3/4-9/16	
5/8"	CCK3/4-5/8	CKFN3/4-5/8C	KFN3/4-5/8	
6mm	CCK3/4-6	CKFN3/4-6C	KFN3/4-6	
7mm	CCK3/4-7	CKFN3/4-7C	KFN3/4-7	
8mm	CCK3/4-8	CKFN3/4-8C	KFN3/4-8	
10mm	CCK3/4-10	CKFN3/4-10C	KFN3/4-10	
12mm	CCK3/4-12	CKFN3/4-12C	KFN3/4-12	
14mm	CCK3/4-14	CKFN3/4-14C	KFN3/4-14	
16mm	CCK3/4-16	CKFN3/4-16C	KFN3/4-16	



CCK Collet



CCK Collet Nut

KM 1 Collet-Inch and Metric

Size	Collet Number
1/8"	KM1-1/8
3/16"	KM1-3/16
1/4"	KM1-1/4
5/16"	KM1-5/16
3/8"	KM1-3/8
7/16"	KM1-7/16
1/2"	KM1-1/2
9/16"	KM1-9/16
5/8"	KM1-5/8
3/4"	KM1-3/4
7/8"	KM1-7/8
6mm	KM1-6
7mm	KM1-7
8mm	KM1-8
10mm	KM1-10
12mm	KM1-12
14mm	KM1-14
16mm	KM1-16
18mm	KM1-18
20mm	KM1-20

CCK 1 Collet-Inch and Metric

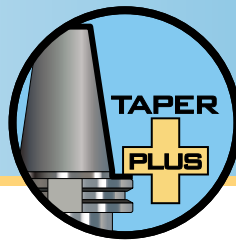
Size	Collet Number	Coolant Thru Nut	Slotted Nut	Disc Wrench
1/8"	CCK1-1/8	CKFN1-1/8C	KFN1-1/8	CCKL25
3/16"	CCK1-3/16	CKFN1-3/16C	KFN1-3/16	
1/4"	CCK1-1/4	CKFN1-1/4C	KFN1-1/4	
5/16"	CCK1-5/16	CKFN1-5/16C	KFN1-5/16	
3/8"	CCK1-3/8	CKFN1-3/8C	KFN1-3/8	
7/16"	CCK1-7/16	CKFN1-7/16C	KFN1-7/16	
1/2"	CCK1-1/2	CKFN1-1/2C	KFN1-1/2	
9/16"	CCK1-9/16	CKFN1-9/16C	KFN1-9/16	
5/8"	CCK1-5/8	CKFN1-5/8C	KFN1-5/8	
3/4"	CCK1-3/4	CKFN1-3/4C	KFN1-3/4	
7/8"	CCK1-7/8	CKFN1-7/8C	KFN1-7/8	
6mm	CCK1-6	CKFN1-6C	KFN1-6	
7mm	CCK1-7	CKFN1-7C	KFN1-7	
8mm	CCK1-8	CKFN1-8C	KFN1-8	
10mm	CCK1-10	CKFN1-10C	KFN1-10	
12mm	CCK1-12	CKFN1-12C	KFN1-12	
14mm	CCK1-14	CKFN1-14C	KFN1-14	
16mm	CCK1-16	CKFN1-16C	KFN1-16	
18mm	CCK1-18	CKFN1-18C	KFN1-18	
20mm	CCK1-20	CKFN1-20C	KFN1-20	



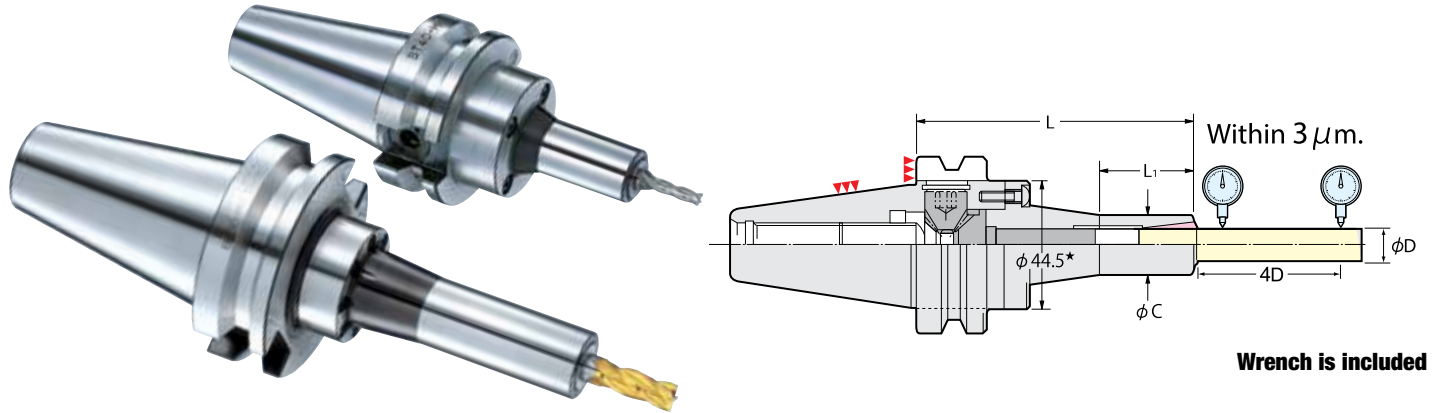
CCK Collet with Nut



KM Collet



MMC Collet Chucks



Wrench is included

Part Number	Collet Series	Clamping Range	L	L1	C
NBT30-MMC4-105	MPK4	0.039 - 0.157"	4.134"	1.181"	0.591"
NBT30-MMC8-105	VMK8	0.079 - 0.375"	4.134"	1.417"	0.787"
NBT30-MMC12-105	VMK12	0.157 - 0.500"	4.134"	1.378"	1.181"

MPK4 Collet-Inch and Metric

Size	Collet Number
1/16"	MPK4-1/16
3/32"	MPK4-3/32
1.0mm	MPK4-1
1.5mm	MPK4-1.5
2.0mm	MPK4-2
2.5mm	MPK4-2.5
3.0mm	MPK4-3
3.5mm	MPK4-3.5
4.0mm	MPK4-4

VMK8 Collet-Inch and Metric

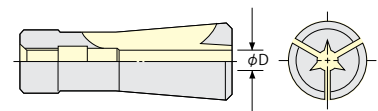
Size	Collet Number	Slotted Collet
1/8"	VMK8-1/8	VMK8-1/8J
3/16"	VMK8-3/16	VMK8-3/16J
1/4"	VMK8-1/4	VMK8-1/4J
5/16"	VMK8-5/16	VMK8-5/16J
3/8"	VMK8-3/8	VMK8-3/8J
2mm	VMK8-2	VMK8-2J
3mm	VMK8-3	VMK8-3J
4mm	VMK8-4	VMK8-4J
5mm	VMK8-5	VMK8-5J
6mm	VMK8-6	VMK8-6J
8mm	VMK8-8	VMK8-8J
10mm	VMK8-10	VMK8-10J

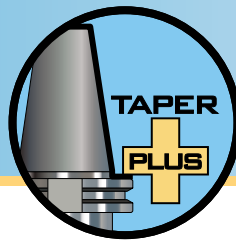


MPK Collet

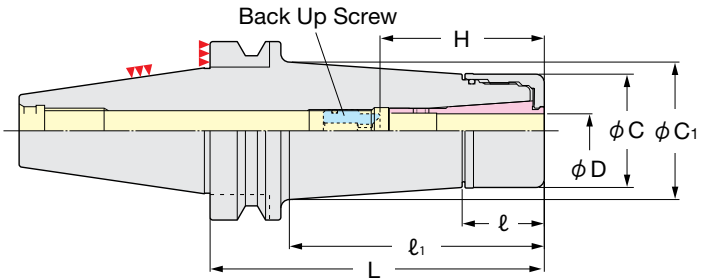


VMK Collet





VC Collet Chucks



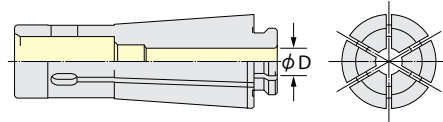
Part Number	Collet Series	Wrench	L	L1	H	D	D1	Back Up Screw
NBT30-VC6-45	VC6	GH10	1.772"	0.906"	1.378-1.772"	1.083"	1.083"	VCG6-8A
NBT30-VC6-60	VC6	GH10	2.362"	1.378"	1.378-1.772"	1.083"	1.248"	VCG6-8A
NBT30-VC6-90	VC6	GH10	3.543"	2.559"	1.378-1.772"	1.083"	1.315"	VCG6-8A
NBT30-VC13-60	VC13	GH16	2.362"	1.457"	1.969-2.362"	1.575"	1.618"	VCG13-15A
NBT30-VC13-90	VC13	GH16	3.543"	2.638"	1.969-2.362"	1.575"	1.626"	VCG13-15A
NBT30-VC13-120	VC13	GH16	4.724"	3.819"	1.969-2.362"	1.575"	1.669"	VCG13-15A

VC Collets-Inch

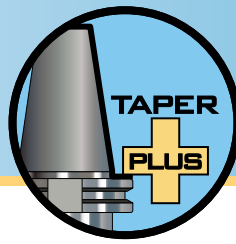
Part Number	Collet Size
VCK6-1/8	1/8"
VCK6-3/16	3/16"
VCK6-1/4	1/4"
VCK13-1/8	1/8"
VCK13-3/16	3/16"
VCK13-1/4	1/4"
VCK13-5/16	5/16"
VCK13-3/8	3/8"
VCK13-7/16	7/16"
VCK13-1/2	1/2"

VC Collets-Metric

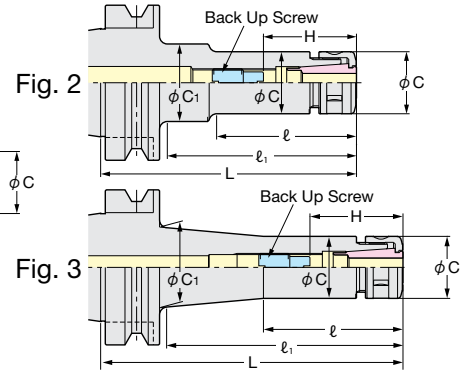
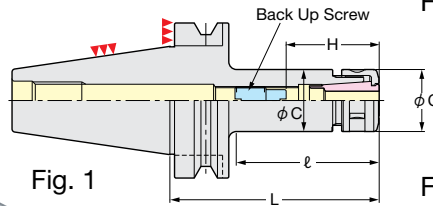
Part Number	Collet Size
VCK6-2	2.0mm
VCK6-3	3.0mm
VCK6-4	4.0mm
VCK6-5	5.0mm
VCK6-6	6.0mm
VCK13-3	3.0mm
VCK13-4	4.0mm
VCK13-5	5.0mm
VCK13-6	6.0mm
VCK13-7	7.0mm
VCK13-8	8.0mm
VCK13-9	9.0mm
VCK13-10	10.0mm
VCK13-11	11.0mm
VCK13-12	12.0mm



VC Collet

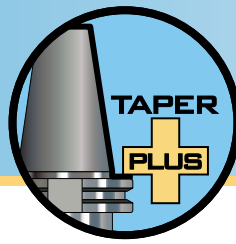


SK Collet Chucks

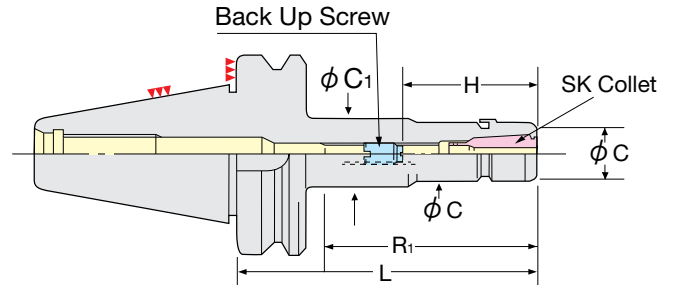


Part Number	Collet Series	Wrench	Clamping Range	L	L1	H	C	C1	Back Up Screw	Figure
NBT30-SK6C-60	SK6	SKL-6W	0.027 - 0.236"	2.362"	1.299"	1.024-1.220"	0.768"	0.768"	SKG6-6HG	1
NBT30-SK6C-90	SK6	SKL-6W	0.027 - 0.236"	3.543"	2.205"	1.024-1.220"	0.768"	1.260"	SKG6-6HG	2
NBT30-SK6C-120	SK6	SKL-6W	0.027 - 0.236"	4.724"	2.441"	1.024-1.220"	0.768"	1.260"	SKG6-6HG	
NBT30-SK10C-45	SK10	SKL-10	0.068 - 0.393"	1.772"	0.866"	1.299-1.614"	1.083"	1.083"	SKG10-10HG	
NBT30-SK10C-60	SK10	SKL-10	0.068 - 0.393"	2.362"	1.378"	1.299-1.614"	1.083"	1.083"	SKG10-10HG	
NBT30-SK10C-75	SK10	SKL-10	0.068 - 0.393"	2.953"	1.969"	1.299-1.614"	1.083"	1.083"	SKG10-10HG	
NBT30-SK10C-90	SK10	SKL-10	0.068 - 0.393"	3.543"	2.559"	1.299-1.614"	1.083"	1.083"	SKG10-10HG	
NBT30-SK10C-120	SK10	SKL-10	0.068 - 0.393"	4.724"	3.740"	1.299-1.614"	1.083"	1.083"	SKG10-10HG	
NBT30-SK16C-60	SK16	9HC16	0.108 - 0.629"	2.362"	1.457"	1.850-2.047"	1.575"	1.575"	SKG16-12HGE	
NBT30-SK16C-75	SK16	9HC16	0.108 - 0.629"	2.953"	2.047"	1.772-2.047"	1.575"	1.575"	SKG16-10HG	
NBT30-SK16C-90	SK16	9HC16	0.108 - 0.629"	3.543"	2.638"	1.772-2.559"	1.575"	1.575"	SKG16-12HG	
NBT30-SK16C-120	SK16	9HC16	0.108 - 0.629"	4.724"	3.819"	1.772-2.559"	1.575"	1.575"	SKG16-12HG	
NBT30-SK25C-90	SK25	9HC22	0.629 - 1.0"	3.543"	2.559"	2.165-2.953"	2.165"	2.165"	SKG-12	

SK Collets available on pages 22-24.

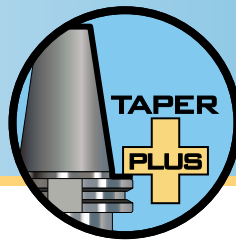


SK-P Collet Chucks



Part Number	Collet Series	Wrench	Clamping Range	L	R1	H	C	C1	Back Up Screw
NBT30-SK6C-60P	SK6	GH6	0.027 - 0.236"	2.362"	1.299"	1.024-1.220"	0.768"	0.768"	SKG6-6HG
NBT30-SK6C-90P	SK6	GH6	0.027 - 0.236"	3.543"	2.559"	1.024-1.220"	0.768"	1.260"	SKG6-6HG
NBT30-SK10C-45P	SK10	GH10	0.068 - 0.393"	1.772"	0.866"	1.299-1.614"	1.083"	1.083"	SKG10-10HG
NBT30-SK10C-60P	SK10	GH10	0.068 - 0.393"	2.362"	1.378"	1.299-1.614"	1.083"	1.083"	SKG10-10HG
NBT30-SK10C-75P	SK10	GH10	0.068 - 0.393"	2.953"	1.969"	1.299-1.614"	1.083"	1.083"	SKG10-10HG
NBT30-SK10C-90P	SK10	GH10	0.068 - 0.393"	3.543"	2.559"	1.299-1.614"	1.083"	1.083"	SKG10-10HG
NBT30-SK16C-60P	SK16	GH16	0.108 - 0.629"	2.362"	1.457"	1.850-2.047"	1.575"	1.575"	SKG16-12HGE
NBT30-SK16C-75P	SK16	GH16	0.108 - 0.629"	2.953"	2.047"	1.772-2.047"	1.575"	1.575"	SKG16-10HG
NBT30-SK16C-90P	SK16	GH16	0.108 - 0.629"	3.543"	2.638"	1.772-2.559"	1.575"	1.575"	SKG16-12HG
NBT30-SK25-90P	SK25	GH25	0.629 - 1.0"	3.543"	2.638"	2.165-2.953"	2.165"	2.165"	SKG-12

SK Collets available on pages 22-24.



SK6 Collets

SK6 Collets - Metric	Collet Range	Collapse Range
SK6-0.8	0.7 - 0.8	0.027 - 0.031"
SK6-1	0.9 - 1.0	0.035 - 0.039"
SK6-1.25	1.15 - 1.25	0.045 - 0.049"
SK6-1.5	1.3 - 1.5	0.051 - 0.059"
SK6-1.75	1.5 - 1.75	0.059 - 0.068"
SK6-2	1.8 - 2.0	0.070 - 0.078"
SK6-2.25	2.05 - 2.25	0.080 - 0.088"
SK6-2.5	2.3 - 2.5	0.090 - 0.098"
SK6-2.75	2.55 - 2.75	0.100 - 0.108"
SK6-3	2.8 - 3.0	0.110 - 0.118"
SK6-3.5	3.0 - 3.5	0.118 - 0.137"
SK6-4	3.5 - 4.0	0.137 - 0.157"
SK6-4.5	4.0 - 4.5	0.157 - 0.177"
SK6-5	4.5 - 5.0	0.177 - 0.196"
SK6-5.5	5.0 - 5.5	0.196 - 0.216"
SK6-6	5.5 - 6.0	0.216 - 0.236"

SK6 Collets - Inch	Collet Size
SK6-1/8A	.125"
SK6-3/16A	.187"



SK Collet

SK10 Collets

SK10 Collets - Metric	Collet Range	Collapse Range
SK10-2	1.75 - 2.0	0.068 - 0.078"
SK10-2.25	2.0 - 2.25	0.078 - 0.088"
SK10-2.5	2.25 - 2.5	0.088 - 0.098"
SK10-2.75	2.5 - 2.75	0.098 - 0.108"
SK10-3	2.75 - 3.0	0.108 - 0.118"
SK10-3.5	3.0 - 3.5	0.118 - 0.137"
SK10-4	3.5 - 4.0	0.137 - 0.157"
SK10-4.5	4.0 - 4.5	0.157 - 0.177"
SK10-5	4.5 - 5.0	0.177 - 0.196"
SK10-5.5	5.0 - 5.5	0.196 - 0.216"
SK10-6	5.5 - 6.0	0.216 - 0.236"
SK10-6.5	6.0 - 6.5	0.236 - 0.255"
SK10-7	6.5 - 7.0	0.255 - 0.275"
SK10-7.5	7.0 - 7.5	0.275 - 0.295"
SK10-8	7.5 - 8.0	0.295 - 0.314"
SK10-8.5	8.0 - 8.5	0.314 - 0.334"
SK10-9	8.5 - 9.0	0.334 - 0.354"
SK10-9.5	9.0 - 9.5	0.354 - 0.374"
SK10-10	9.5 - 10.0	0.374 - 0.393"

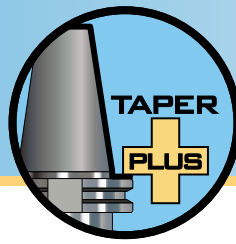
SK10 Collets - Inch	Collet Size
SK10-1/8A	0.125"
SK10-3/16A	0.187"
SK10-1/4A	0.25"
SK10-5/16A	0.312"
SK10-3/8A	0.375"

SK10 Coolant Collets

SK10 Coolant Collets - Inch	Collet Size
SK10-1/4AC	0.25"
SK10-5/16AC	0.312"
SK10-3/8AC	0.375"
SK10-6AC	6mm
SK10-7AC	7mm
SK10-8AC	8mm
SK10-9AC	9mm
SK10-10AC	10mm



Mechanically sealing up to 1200 psi



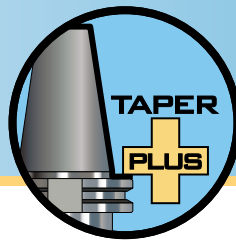
SK16 Collets

SK16 Collets - Metric	Collet Range	Collapse Range
SK16-3	2.75 - 3.0	0.108 - 0.118"
SK16-3.5	3.0 - 3.5	0.118 - 0.137"
SK16-4	3.5 - 4.0	0.137 - 0.157"
SK16-4.5	4.0 - 4.5	0.157 - 0.177"
SK16-5	4.5 - 5.0	0.177 - 0.196"
SK16-5.5	5.0 - 5.5	0.196 - 0.216"
SK16-6	5.5 - 6.0	0.216 - 0.236"
SK16-6.5	6.0 - 6.5	0.236 - 0.255"
SK16-7	6.5 - 7.0	0.255 - 0.275"
SK16-7.5	7.0 - 7.5	0.275 - 0.295"
SK16-8	7.5 - 8.0	0.295 - 0.314"
SK16-8.5	8.0 - 8.5	0.314 - 0.334"
SK16-9	8.5 - 9.0	0.334 - 0.354"
SK16-9.5	9.0 - 9.5	0.354 - 0.374"
SK16-10	9.5 - 10.0	0.374 - 0.393"
SK16-10.5	10.0 - 10.5	0.393 - 0.413"
SK16-11	10.5 - 11.0	0.413 - 0.433"
SK16-11.5	11.0 - 11.5	0.433 - 0.452"
SK16-12	11.5 - 12.0	0.452 - 0.472"
SK16-12.5	12.0 - 12.5	0.472 - 0.492"
SK16-13	12.5 - 13.0	0.492 - 0.511"
SK16-13.5	13.0 - 13.5	0.511 - 0.531"
SK16-14	13.5 - 14.0	0.531 - 0.551"
SK16-14.5	14.0 - 14.5	0.551 - 0.570"
SK16-15	14.5 - 15.0	0.570 - 0.590"
SK16-15.5	15.0 - 15.5	0.590 - 0.610"
SK16-16	15.5 - 16.0	0.610 - 0.629"

SK16 Collets - Inch	Collet Size
SK16-1/8A	0.125"
SK16-3/16A	0.187"
SK16-1/4A	0.25"
SK16-5/16A	0.312"
SK16-3/8A	0.375"
SK16-7/16A	0.437"
SK16-1/2A	0.5"
SK16-9/16A	0.562"
SK16-5/8A	0.625"



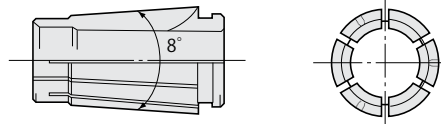
SK Collet



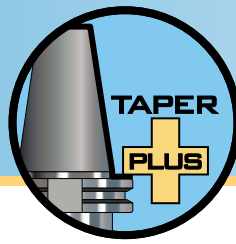
SK25 Collets

SK25 Collets - Metric	Collet Range	Collapse Range
SK25-16.5	16.0 - 16.5	0.629 - 0.649"
SK25-17	16.5 - 17.0	0.649 - 0.669"
SK25-17.5	17.0 - 17.5	0.669 - 0.688"
SK25-18	17.5 - 18.0	0.688 - 0.708"
SK25-18.5	18.0 - 18.5	0.708 - 0.728"
SK25-19	18.5 - 19.0	0.728 - 0.748"
SK25-19.5	19.0 - 19.5	0.748 - 0.767"
SK25-20	19.5 - 20.0	0.767 - 0.787"
SK25-20.5	20.0 - 20.5	0.787 - 0.807"
SK25-21	20.5 - 21.0	0.807 - 0.826"
SK25-21.5	21.0 - 21.5	0.826 - 0.846"
SK25-22	21.5 - 22.0	0.846 - 0.866"
SK25-22.5	22.0 - 22.5	0.866 - 0.885"
SK25-23	22.5 - 23.0	0.885 - 0.905"
SK25-23.5	23.0 - 23.5	0.905 - 0.925"
SK25-24	23.5 - 24.0	0.925 - 0.944"
SK25-24.5	24.0 - 24.5	0.944 - 0.964"
SK25-25	24.5 - 25.0	0.964 - 0.984"
SK25-25.4	25.0 - 25.4	0.984 - 1.0"

SK25 Collets - Inch	Collet Size
SK25-3/16A	0.187"
SK25-1/4A	0.25"
SK25-5/16A	0.312"
SK25-3/8A	0.375"
SK25-7/16A	0.437"
SK25-1/2A	0.5"
SK25-5/8A	0.625"
SK25-3/4A	0.75"



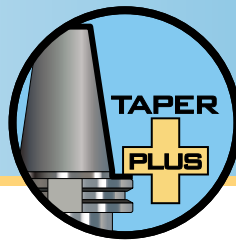
SK Collet



SK Coolant Collet System



Collet Chuck	Collet Series	Coolant Nut Part Number	High-Speed Coolant Nut Part #	Cutting Tool Size	Coolant-Thru Disk Part #	Slotted Disk Part #	Disk Wrench Part #	Blank Disk (machinable) Part #
SK6	SK6-range: 0.7-6.0mm (0.027-0.236")	SKN-6WBJ	SKN-6WBJ(GH)	3mm	SKJ6-3C	SKJ6-3	SKJL-6	SKJ6-BLANK
				4mm	SKJ6-4C	SKJ6-4		
				5mm	SKJ6-5C	SKJ6-5		
				6mm	SKJ6-6C	SKJ6-6		
				1/8"	SKJ6-1/8C	SKJ6-1/8		
				3/16"	SKJ6-3/16C	SKJ6-3/16		
SK10	SK10-range: 1.75-10.0mm (0.068-0.393")	SKN-10BJ	SKN-10BJ(GH)	3mm	SKJ10-3C	SKJ10-3	SKJL-10	SKJ10-BLANK
				4mm	SKJ10-4C	SKJ10-4		
				5mm	SKJ10-5C	SKJ10-5		
				6mm	SKJ10-6C	SKJ10-6		
				8mm	SKJ10-8C	SKJ10-8		
				10mm	SKJ10-10C	SKJ10-10		
				1/8"	SKJ10-1/8C	SKJ10-1/8		
				3/16"	SKJ10-3/16C	SKJ10-3/16		
				1/4"	SKJ10-1/4C	SKJ10-1/4		
				5/16"	SKJ10-5/16C	SKJ10-5/16		
SK16	SK16-range: 2.75-16.0mm (0.108-0.629")	SKN-16BJ	SKN-16BJ(GH)	6mm	SKJ16-6C	SKJ16-6	SKJL-16	SKJ16-BLANK
				8mm	SKJ16-8C	SKJ16-8		
				10mm	SKJ16-10C	SKJ16-10		
				12mm	SKJ16-12C	SKJ16-12		
				16mm	SKJ16-16C	SKJ16-16		
				1/4"	SKJ16-1/4C	SKJ16-1/4		
				5/16"	SKJ16-5/16C	SKJ16-5/16		
				3/8"	SKJ16-3/8C	SKJ16-3/8		
				7/16"	SKJ16-7/16C	SKJ16-7/16		
				1/2"	SKJ16-1/2C	SKJ16-1/2		
SK25	SK25-range: 16.0-25.4mm (0.629-1.0")	SKN-25BJ	SKN-25BJ(GH)	16mm	SKJ25-16C	SKJ25-16	SKJL-25	SKJ25-BLANK
				20mm	SKJ25-20C	SKJ25-20		
				25mm	SKJ25-25C	SKJ25-25		
				5/8"	SKJ25-5/8C	SKJ25-5/8		
				11/16"	SKJ25-11/16C	SKJ25-11/16		
				3/4"	SKJ25-3/4C	SKJ25-3/4		
				13/16"	SKJ25-13/16C	SKJ25-13/16		
				7/8"	SKJ25-7/8C	SKJ25-7/8		
				15/16"	SKJ25-15/16C	SKJ25-15/16		
1"	SKJ25-1C	SKJ25-1						



Accessories

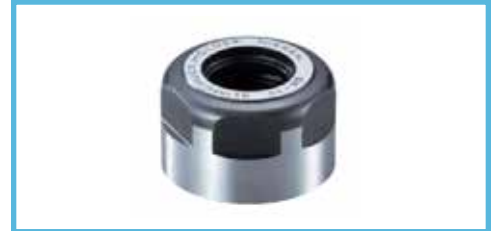
SK Collet Extractor

Part Number	Description
SKR-6	SK6 Collet Extractor
SKR-10	SK10 Collet Extractor
SKR-16	SK16 Collet Extractor
SKR-25	SK25 Collet Extractor



Replacement Nut for SK Collet Chuck - Standard Style

Part Number	Description
SKN-6WB	Nut for SK6 Collet Chuck
SKN-10B	Nut for SK10 Collet Chuck
SKN-16B	Nut for SK16 Collet Chuck
SKN-25B	Nut for SK25 Collet Chuck



Replacement Nut for SK Collet Chuck - High-Speed Style

Part Number	Description
SKN-6WB (GH)	Nut for SK6 High-Speed Collet Chuck
SKN-10B (GH)	Nut for SK10 High-Speed Collet Chuck
SKN-16B (GH)	Nut for SK16 High-Speed Collet Chuck
SKN-25B (GH)	Nut for SK25 High-Speed Collet Chuck



Wrench for SK Collet Chuck - Standard Style

Part Number	Description
SKL-6W	Wrench for SK6 Collet Chuck
SKL-10	Wrench for SK10 Collet Chuck
9HC16	Wrench for SK16 Collet Chuck
9HC22	Wrench for SK25 Collet Chuck



Wrench for SK Collet Chuck - High-Speed Style

Part Number	Description
GH6	Wrench for SK6 High-Speed Collet Chuck
GH10	Wrench for SK10 High-Speed Collet Chuck
GH16	Wrench for SK16 High-Speed Collet Chuck
GH25	Wrench for SK25 High-Speed Collet Chuck



Torque Wrench and Attachment for SK Collet Chuck

Part Number	Description
TQW-025	Torque wrench for SK6 Collet Chuck Nut
TQW-150	Torque wrench for SK10/16/25 Collet Chuck Nut
TQW-SK06(18)	SK6 attachment for TQW-025 torque wrench
TQW-SK10(1)	SK10 attachment for TQW-0150 torque wrench
TQW-SK16(43)	SK16 attachment for TQW-0150 torque wrench
TQW-SK25(60)	SK25 attachment for TQW-0150 torque wrench





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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.

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