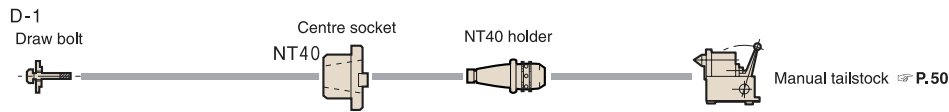
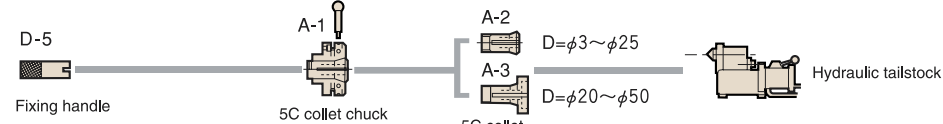


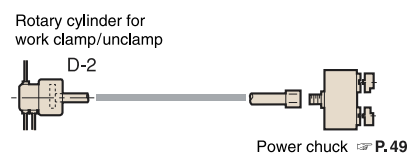
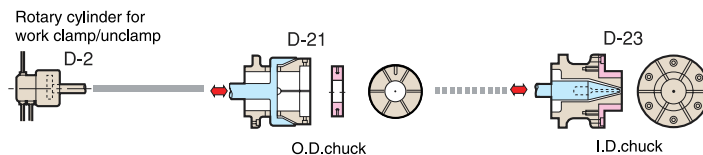
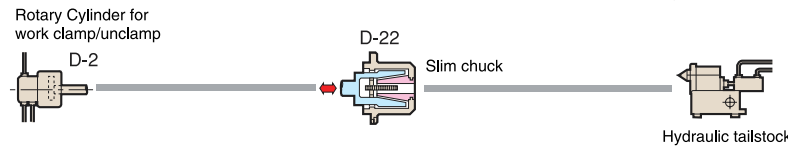
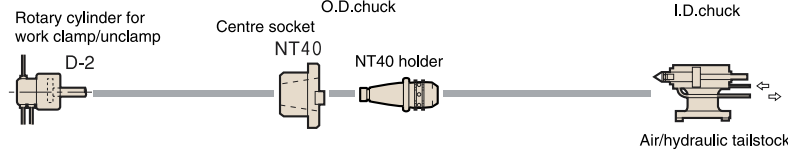
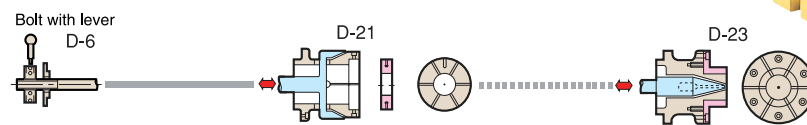
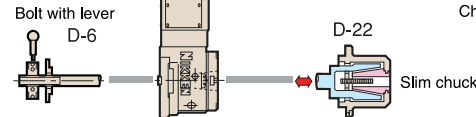
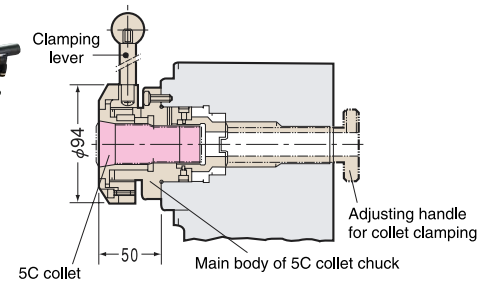
Attachment for **⌘** Series CNC ROTARY TABLE**NIKKEN**

All of **⌘** Series CNC Rotary Tables, as the through holes are standardized $\phi 60$ straight hole, they have same attachment in common. Plentiful attachment can be supplied according to your application.

■ 5C Collet Chuck

**CNC105A21-5C**

■ Air/Hydraulic Tailstock



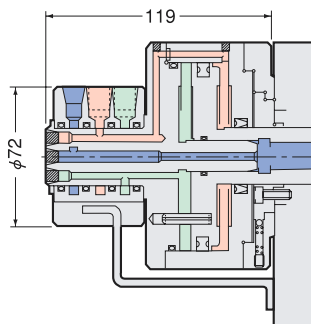
■ Hydraulic Unit

**TCC-150**

● Specifications

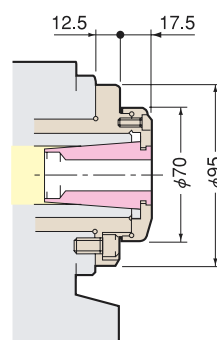
- MAX. 14ℓ/min.
- MAX. 3.5MPa
- AC200~220V, 3 phases, Capacity : 1KVA.
- Solenoid valves and pressure switches depends on your applications.
- Dimension : 400×405×479mm

Rotary Cylinder for Work Clamp/Unclamp



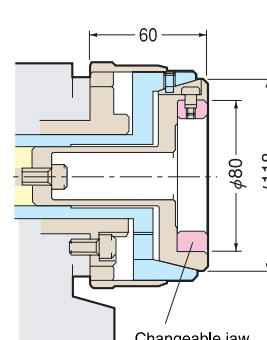
Pulling Force:
3130KN at air 0.5MPa
(Hydraulic cylinder is also available)

Slim Chuck



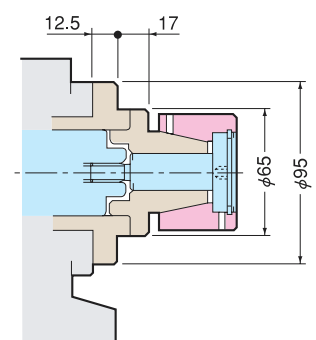
SK Collet
SK10: $\phi 0.75 \sim \phi 10$ mm
SK16: $\phi 2.75 \sim \phi 16$ mm
SK25: $\phi 16 \sim \phi 25.4$ mm

O.D.Chuck



Chucking range: $\phi 25 \sim \phi 80$ mm

I.D.chuck



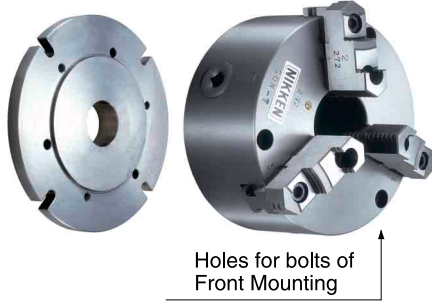
Chucking range:
 $\phi 10 \sim \phi 12$ mm $\phi 30 \sim \phi 40$ mm
 $\phi 13 \sim \phi 16$ mm $\phi 40 \sim \phi 50$ mm
 $\phi 17 \sim \phi 20$ mm $\phi 50 \sim \phi 60$ mm
 $\phi 20 \sim \phi 30$ mm

SCROLL CHUCK & POWER CHUCK



Chuck Plate

Scroll Chuck



- Scroll Chucks with chuck plate marked * are NIKKEN Scroll Chuck of Front Mounting (Fig.1)
- NIKKEN Scroll Chuck is used for X-4B, X-6E & X-9F.
- The chuck plates for the scroll chucks without * can be used for the scroll chuck based on JIS B6151 SC/TC standard.

List of Scroll Chuck & Chuck Plate

Scroll Chuck Table Model	4"	5"	6"	7"	9"	10"	12"
CNC105	X-4B						
CNC180		X-5C*	X-6B*				
CNC202		X-5C*	X-6B*	X-7A*			
CNC260, 302			X-6G*	X-7L*	X-9H, X-9J ^{#1}		
CNC321, 401				X-7N, 7K ^{#2}	X-9K, 9D ^{#2}	X-10G, 10D ^{#2}	X-12F, 12G ^{#2}
CNC501, 601					X-9D	X-10	X-12B
NST250		X-5B	X-6A	X-7B			
NST300		X-5B	X-6A	X-7B	X-9A	X-10B-1	X-12A-1
NST500				X-7G	X-9B	X-10C	X-12
5AX-130	X-4B						
5AX-201, 200II	X-4B	X-5C*	X-6B*	X-7A*			
5AX-230			X-6B*	X-7A*	X-9F		
5AX-350				X-7M	X-9J	X-10E-1	X-12D-1
NSVZ180			X-6E				
NSVZ300			X-6A	X-7B	X-9A	X-10B-1	
NSVX400				X-7D	X-9C	X-10A	X-12C

- ★Chuck plate marked #1 is used for ϕ 300 table.
- ★Chuck plates marked #2 are used for ϕ 400 table.

Chucking Range

Chuck Size	Range	
	External	Internal
4"	2~ 89	36~ 78
5"	3~104	42~ 92
6"	3~135	52~119
7"	3~153	56~134
9"	4~190	64~169
10"	10~229	72~208
12"	10~258	82~238

This is the actual gripping range not jaw stroke.

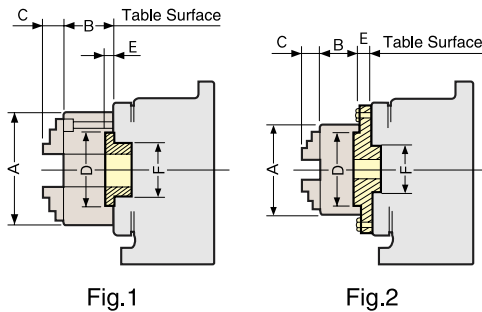


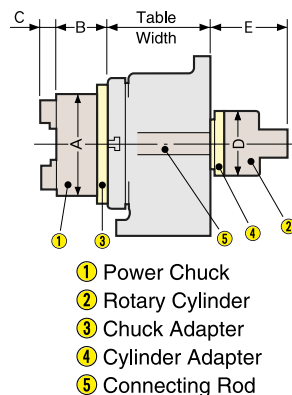
Fig.1

Fig.2

Front End Dimensions with Scroll Chuck & Chuck Plate

Chuck Size	Chuck Plate Code No.	A	B	C	D	E	F	Fig. No.
4"	X-4B	112	58	31.75	80	13	60	2
							16	
5"	X-5B	132	60	37.25	100	3.5	60	2
	X-5C*						1	
6"	X-6A	167	66	44.25	130	4	60	2
	X-6B*						1	
	X-6E						2	
	X-6G*						1	
	X-7A*, X-7L*						1	
7"	X-7B	192	75	46.25	155	16	60	2
	X-7D, 7M						80	
	X-7G						75	
	X-7K, 7N						105	
	X-9A, 9B, -9C, 9G,						18	
9"	X-9D, 9F	233	82	55.25	190	18	130,60	2
	X-9H						80	
	X-9J, 9K						80,105	
	X-10, 10A-10C						20	
10"	X-10B-1, 10E-1	274	86	53.25	230	25	60,80	2
	X-10D, 10G						105	
	X-12, 12B						20	
12"	-12C, 12G	310	92	59.25	260	25	80,105	2
	X-12D-1, 12F-1						105	

- ★The maker of the scroll chuck was changed. This table shows the chuck plate of the new maker. Please refer CAT.8168 or older for the chuck plate of the old maker.
- ★The dimension from the table surface to the jaw is; \square :B+C Others: E+B+C



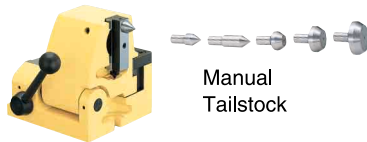
When power chuck or rotary cylinder is attached on 5AX-table, the 5AX-table must be High Column table.

Power Chuck & Rotary Cylinder

Chuck Size	Power Chuck Code No.	Rotary Cylinder Code No.	A	B	C	D	E	MIN.Table ϕ
4"	HOIMA-4	HH4C-80	110	70	27	115	215	ϕ 100
		HO5CH-100				130	220	
5"	HOIMA-5	HH4C-80	135	70	27	115	215	ϕ 150
		HO5CH-150				186	235	
6"	HOIMA-6	HH4C-100	165	94	43	135	240	ϕ 180
		HO5CH-175				210	240	
8"	HOIMA-8	HH4C-125	210	110	43	160	250	ϕ 250
		HO5CH-250				290	295	
10"	HOIMA-10	HH4C-125	254	120	43	160	250	ϕ 300
		HO5CH-300				340	310	
12"	HOIMA-12	HH4C-140	304	140	53	180	260	ϕ 320
		HO5CH-300				340	310	

- ★HOWA power chucks and rotary cylinders (Higher:hydraulic, Lower:Air) are listed. Other maker's one can be mounted, please specify the Code No.
- ★Above power chucks are not applicable to NST Table. Please contact with us for mounting.
- ★Rotary cylinder for 5AX-table is NIKKEN made.
- ★NIKKEN air/hydraulic rotary cylinder is also available.

TAILSTOCK (MANUAL, AIR, HYDRAULIC)

NIKKEN


Manual Tailstock



Air/Hyd. Tailstock



Hyd. Tailstock



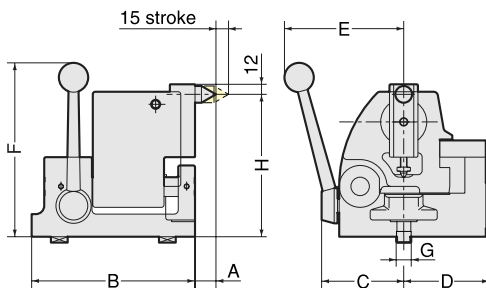
Photo shows support table with T slot (Option).

Support Table TAT P.6, 18

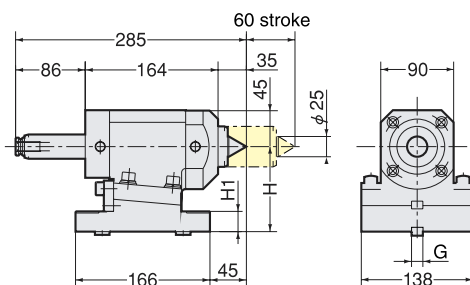
List of Tailstock and Support Table

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, 200II	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		
NSVZ180	135	P-125S	PBA-135		
NSVZ300	170	P-170S	PBA-170	H-170S	TAT250
NSVX400	240	P-230S		H-230S	TAT400

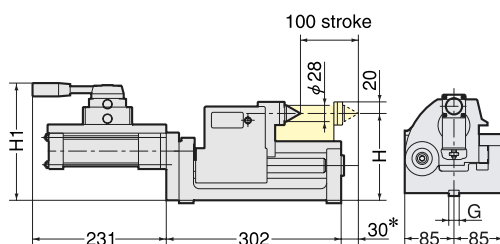
Dimension of Manual Tailstock



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



The centre height can be adjusted within 0.35mm.



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

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

★ 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

★ Rotary centre is built-in.

★ MT (Morse Taper) type quill is also available. Please contact with us.

★ The different length of the stroke is 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

★ Rotary centre is built-in.

★ MAX. work piece diameter must be smaller than ϕ 130mm, when the stroke of changing the work piece is more than 30mm marked *.

- For Support Table TAT, refer
- 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.