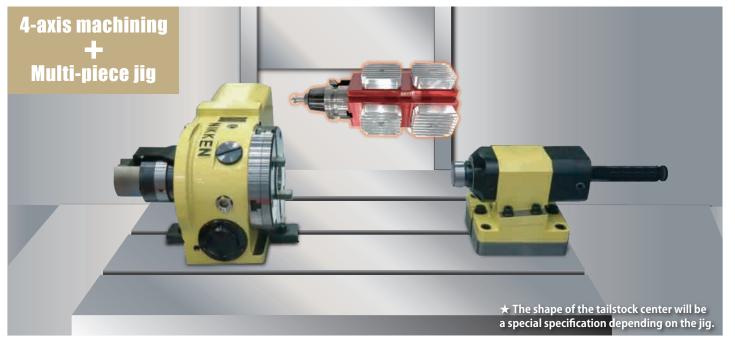
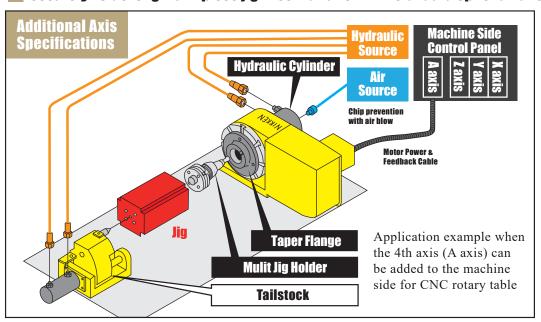
Rotary table technology + Tooling technology NIKKEN's unique dual technologies



Image of multi-jig holder application configuration



Securely holds long multi-piece jig in combination with standard optional tailstock



Tailstock





AR21 Controller

Custom options are available with M functionality for control of hydraulic tailstocks and other actuators.

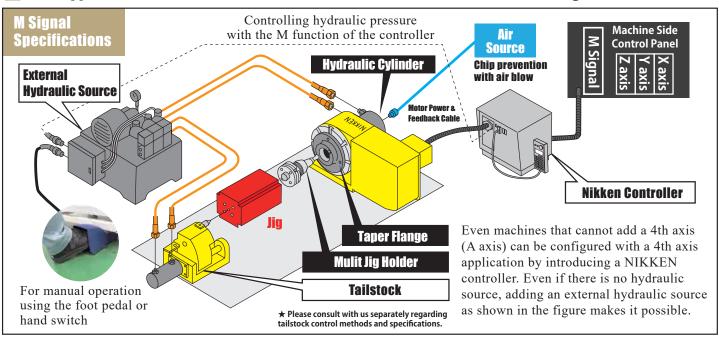


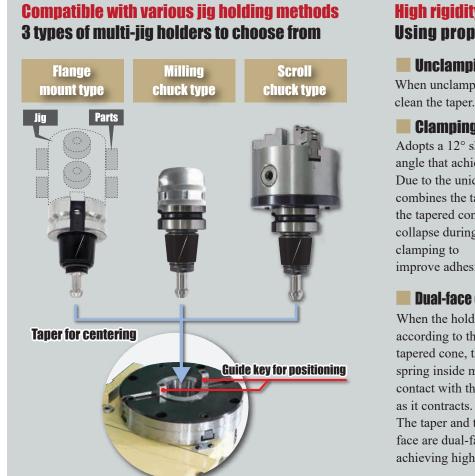
Hvdraulic Unit TCC-150

MAX. 1.4 L/min MAX. 3.5MPa



Can support machines that cannot add a 4th axis and can be retrofitted on to existing machines





High rigidity & strong clamp

Using proprietary dual contact interface

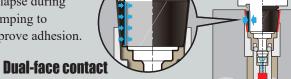
Unclamping

When unclamping, air is released to clean the taper.

Clamping

Adopts a 12° short taper with gradual angle that achieves high static rigidity. Due to the unique structure that combines the tapered cones.

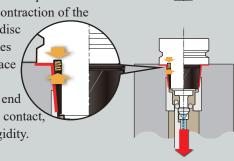
the tapered cones collapse during improve adhesion.



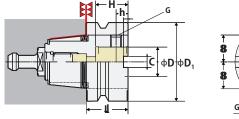
When the holder is clamped down according to the contraction of the

tapered cone, the disc spring inside makes contact with the face

The taper and the end face are dual-face contact achieving high rigidity.



Flange mount type multi jig holder



Target Model

CNC105

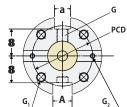
CNC202

CNC260P 5AX-201

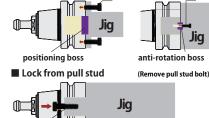
Code No.

RN40-63-25-PS332

RN45-85-32-PS3

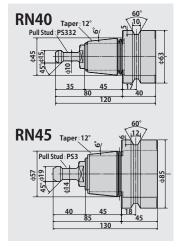


a^{±0.005} $A^{+0.2}$

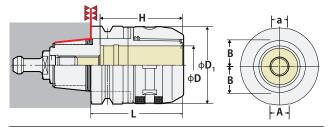


■ Lock from jig side G,

	_	i ₂		G				
5	В	С	PCD	G	G,	G ₂	Mounting weight	Weight
	22.5	10H ₇	48	M10×25L	M 8×15L	M4× 8L	Approx. 8kg	1.5 kg
	29	12H ₇	65	M10×25L	M10×15L	M5×10L	Approx. 10kg	2.5 kg



Milling chuck type multi jig holder



D D, н h

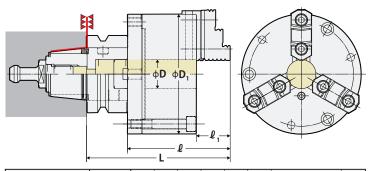
32H, 85 35 20 20 18 29

63 30 15 18 16

40 25H₆

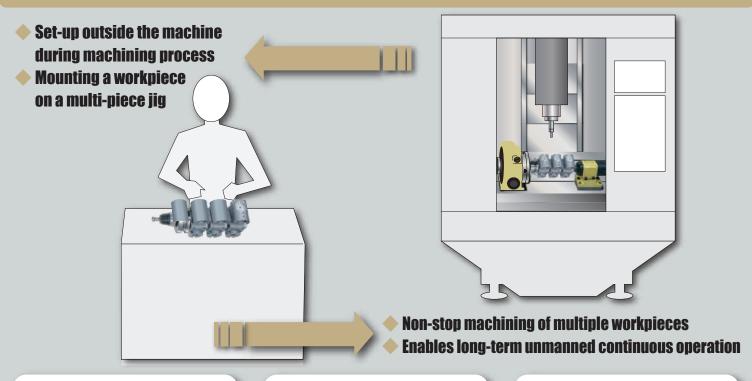
Code No.	Model	L	D	D ₁	Н	A+0.2	a ^{±0.005}	В	Weight
RN40-C32-90-PS	332 CNC105 5AX-130	90	32	69	77	18	16	22.5	2.5kg
	CNC180	100	32	69	85	20	18	29	3.8kg
RN45-C32-100-P	CNC202								
111113 C32 100 1	CNC260P								
	5AX-201								
	CNC180	100	42	84	90	20	18	29	4.5 kg
RN45-C42-100-P	CNC202								
111113 C12 100 1	CNC260P								
	5AX-201								

Scroll chuck type multi iig holder



Code No.	Target	L	e l	l ,	D	D,	Chuck Size	Grip Range*		Weight
Code No.	Model							OD	ID	weight
RN40-SC4-PS332	CNC105	141.3	101.3	31.25	24	112	4"	2∼ 89	36∼78	6kg
111140-304-1 3332	5AX-130									
	CNC180	158.3	112 2	37 25	32	132	5″	3~104	42~92	
RN45-SC5-PS3	CNC202									0 5kg
111145 505 1 55	CNC260P		113.3	37.23						J.JRg
	5AX-201									

STEP 1 Easy and immediate labor saving with multi-jig holders



EASY O

If you use a multi-jig holder that exhibits high centripetal force, you don't need skill or experience for centering work.

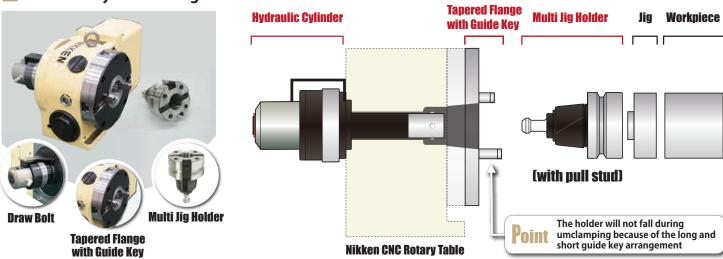
EASY 2

By using a multi jig that attaches multiple workpieces to a single jig, you can easily achieve high-efficiency continuous machining with external setup.

EASY &

By exchanging the jigs on the multi-jig holder, different workpieces can be handled, enabling high-mix low-volume production.

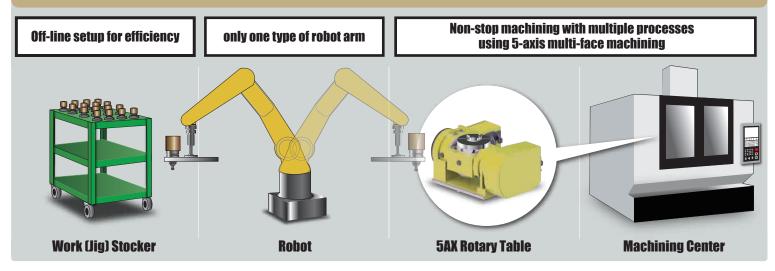




	Tai	rget CNC Rotai	ry Table	Flange mount type		Tapered flange	Tailstock*3	
Spec	Spec Face Plate Dia. Additional axis specification M signal specification		multi jig holder	(3.5MPa/Draw force7.9KN)	with guide key	(standard option)		
	ф100	CNC105(L)FA	CNC105(L)AR21-04	RN40-63-25-PS332	HYD-PD-CN105	TF40-GKYE-CN105	PBA-105 (Air/Hydraulic) *4	
1 a	ф180	CNC180(L)FA	CNC180(L)AR21-04	RN45-85-32-PS3	HYD-PD-CN180	TF45-GKYE-CN180	PBA-135 (Air/Hydraulic) *4	
axis	ф 200	CNC202(L)FA	CNC202(L)AR21-08	RN45-85-32-PS3	HYD-PD-CN180	TF45-GKYE-CN180	PBA-135 (Air/Hydraulic) *4	
	ф 260	CNC260P(L)FA	CNC260P(L)AR21-08	RN45-85-32-PS3	HYD-PD-CN26P	TF45-GKYE-CN26P	PBA-170 (Air/Hydraulic) *4 H-170S (Hydraulic)	
2 ax	ф130	5AX-130HFA	5AX-130HAR21-0404	RN40-63-25-PS332	HYD-PD-AX130	TF40-GKYE-AX130	-	
axes	ф 200	5AX-201HFA	5AX-201HAR21-0408	RN45-85-32-PS3	HYD-PD-AX201	TF45-GKYE-AX201	-	

- *1: Select the high column specification for the 2-axis models 5AX-130 and 5AX-201.
- *2: Code numbers for additional axis specifications are for FANUC motors. For non-FANUC motors, please consult us separately as the code No. will be different. *3: Specifications for all tailstock strokes are 100mm. The maximum workpiece diameter of H-170S is limited to φ130.
- *4: For the PBA series, select either pneumatic or hydraulic depending on the weight and dimensions of the jig and workpiece. Please contact us for specifications such as the tailstock control method.

$\mathsf{STEP}\,\mathbf{2}$ Automated replacement of multi-jig holders with robots



Unmanned operation for hours with using robots



By automating the exchange of multi-jig holders through the use of robots, it is possible to produce off-the-shelf workpieces unattended, even at night and on holidays.

Process integration with using 5AX rotary table

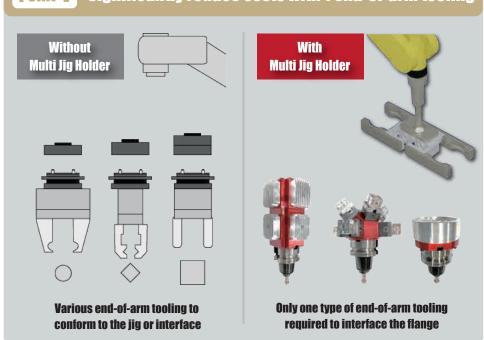






If it is combined with a 5AX rotary table, it is possible to consolidate the process instead of performing setup changes for each machining surface and enable even longer unmanned operation with one chucking.

Significantly reduce costs with 1 end-of-arm tooling



When automating robot applications, various arms and interfaces are required to match the jigs. In addition, the stocker design and teaching of robot also require additional time and cost. With Nikken's multi-jig holder system, only one type of robot arm that grips the V-flange of the holder is necessary. This will greatly reduce the difficulty of introducing robots in the future.

Utilize the tool wagon



Because of its design, it is possible to use a tooling wagon as a stocker. Not only does it make stocker production easier, but it also makes it easier to move and make arrangements for the next process smoothly.

Usage tips

Tips for usign a tooling wagon as a stocker



Holder positioning

Wagon positioning

ENTRY STEP Try the manual retraction type first



EASY

If you use a workpiece mounting jig holder that exhibits high centripetal force, no skill or experience is required for centering work.

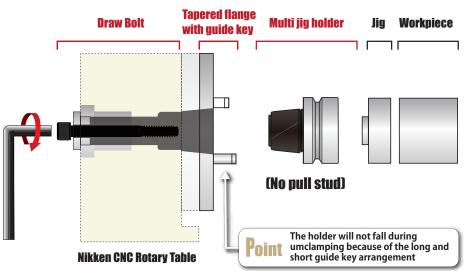
EASY 2

Streamlining even where introduction of hydraulic pressure is difficult. Simple setup change is possible by simply clamping the multi-jig holder with the jig attached.

Standard System Configuration

with guide key





	Та	rget CNC Rotar	y Table	Flange mount type	Draw Bolt	Tapered flange	Notes
Spec	Face Plate Dia.	Additional axis specification	M signal specification	multi jig holder	(with bolt collar)	with guide key	
	φ100	CNC105(L)FA	CNC105(L)AR21-04	RN40-63-25	PBS-CN105	TF40-GKYE-CN105	
	φ180	CNC180(L)FA	CNC180(L)AR21-04	RN45-85-32	PBS-CN180	TF45-GKYE-CN180	
axis	φ200	CNC202(L)FA	CNC202(L)AR21-08	RN45-85-32	PBS-CN180	TF45-GKYE-CN180	
	φ260	CNC260P(L)FA	CNC260P(L)AR21-08	RN45-85-32	PBS-CN26P	TF45-GKYE-CN26P	
2 a	φ130	5AX-130FA	5AX-130AR21-0404	RN40-63-25	PBS-AX130	TF40-GKYE-AX130	
axes	φ200	5AX-201FA	5AX-201AR21-0408	RN45-85-32	PBS-AX201	TF45-GKYE-AX201	

^{*}Code numbers for additional axis specifications are for FANUC motors. For non-FANUC motors, please consult us separately as the code No. will be different.