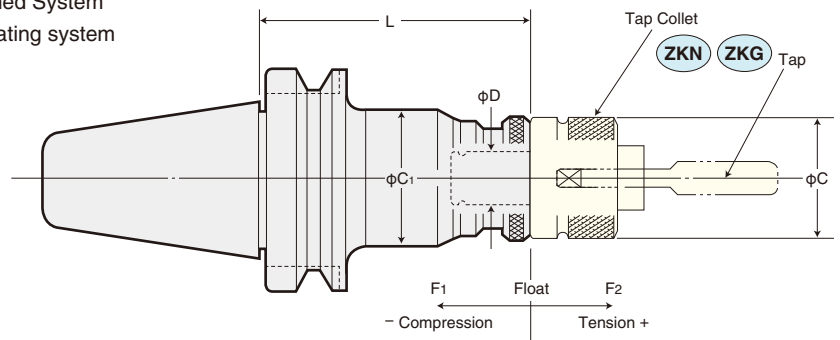


Suitable Tapper Chuck for Conventional M/C

- More convenient in tapping, thanks to stable torque and slim body
- Good Run-out, No Pull-out and No Tap Breakage with NIKKEN Tapper Chuck
Ideal for Unmanned System
- With the axial floating system



Z



TAPER	Code No.	Tapping Capability			D	L	C	C ₁	Float		Tap Collet	Weight (kg)	
		M	U	P					F ₁	F ₂			
No.30	BT30-Z 8- 90* ¹	M 2~ 8	1/8~1/4	—	13	90	23	33	5	15	ZKN 8* ¹	1.2	
	-Z12-105	M 2~ 12	1/8~1/2	P1/16~1/4	19	105	32	45	5	15	ZKG12	1.2	
No.40	BT40-Z 8- 90* ¹	M 2~ 8	1/8~1/4	—	13	90	23	33	5	15	ZKN 8* ¹	1.4	
	(IT40)-Z12- 90	M 2~ 12	1/8~1/2	P1/16~1/4	19	90	32	45	5	15	ZKG12	1.5	
	-Z12-130								15			1.6	
	-Z16-109	M 3~ 16	1/8~5/8	P1/8~3/8	25	109	39	55	8	20	ZKG16	2.0	
	-Z24-100	M 8~ 24	1/2~ 1	P1/4~5/8	30	100	46	68	10	20	ZKG24	2.1	
	-Z24-187											63	20
-Z38-140	M18~ 38	3/4~13/8	P3/8~ 1	45	140	78	85	8	22	ZKN38	6.7		
No.50	BT50-Z 8-105* ¹	M 2~ 8	1/8~1/4	—	13	105	23	33	5	15	ZKN 8* ¹	4.2	
	(IT50)-Z12-130	M 2~ 12	1/8~1/2	P1/16~1/4	19	130	32	45	15	15	ZKG12	4.3	
	-Z12-175											175	4.8
	-Z12-220											220	5.0
	-Z16-135	M 3~ 16	1/8~5/8	P1/8~3/8	25	135	39	55	8	20	ZKG16	5.2	
	-Z24-142	M 8~ 24	1/2~ 1	P1/4~5/8	30	142	46	63	20	20	ZKG24	5.8	
	-Z24-187											187	6.2
	-Z38-175	M18~ 38	3/4~13/8	P3/8~ 1	45	175	78	98	10	25	ZKN38	8.3	
-Z65-160	M36~100	1~33/4	P1~ 3	68	160	110* ² (125)	110	10	25	ZKN65	9.0		

★In Case of IT40, IT40-Z8-95*¹ and IT40-Z24-125 are standard.

★In Case of IT50, IT50-Z8-105*¹, IT50-Z38-187 and IT50-Z65-165 are standard.

★Marked *1 Z8 Tapper Chuck and ZK8 Tap Collet are available as semi-standard.

★Please refer to P.59 (ZKG) ~ P.52 (ZK) for ISO, IMPERIAL, DIN Tap Collet, P.61 (ZKG) ~ P.54 (ZKN) for JIS Tap Collet, and P.63 for Long Size Tap Collet.

★Marked *2 () dimension is for M65 or more size of ZK Tap Collet.



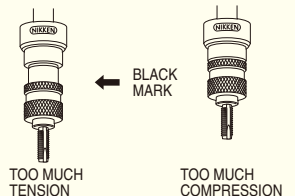
① Caution for Floating Mechanism

(1). Too Much Tension

When tension movement exceeds the limitation, the black line will appear. In this case increase machine feed.

(2). Too Much Compression

When machine feed is too fast for the tap thread pitch, the compression floating mechanism will work. The machine program should be modified to slow feed rate down.



- When the drilled hole diameter is too small (this is often caused by the drilling of the tough materials, extended drilling diameter is not large enough.), the tap will slip before the breakage due to torque limiter mechanism. In this case enlarge the drilled hole and do not adjust the torque setting.
- For a blind hole tapping, the tap might hit the bottom of the hole and the floating shaft will not extend any further, if the Z point is too close to the component. And the point of reversing the floating shaft could compress further than the extension, it may cause damage to the tapped hole. In this case, make the drilled hole deeper or restrict Z point at the higher position.
- When the R point is too close to the component, the spindle will moves upwards with the fully extended float mechanism at reversing operation, and it might cause damage to the tapped hole as the tap may be still in the hole when the spindle try to return to the initial point at the rapid feed. In this case, give further distance between the R point and the component.
- In case of the tapping with Z type tapper chuck, since the Z Axis stroke will move upwards after reversing operation starts at the Z point due to the machine tapping cycle features, it may cause damage to the tapped hole. In this case, input the dwell command at the Z point on the program in order to make the upward movement of Z Axis with the tapper chuck as its extended float mechanism.