

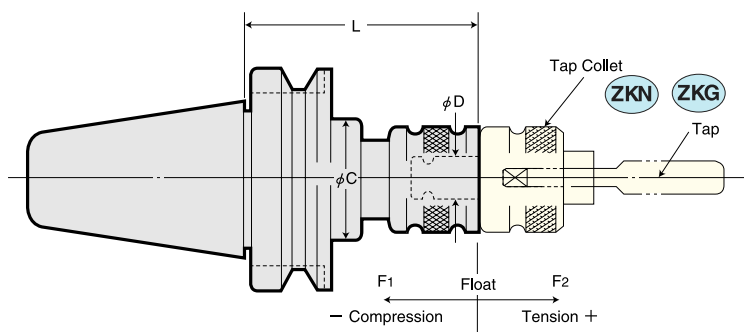
AUTO. DEPTH CONTROL TAPPER CHUCK

NIKKEN

- Most suitable for tapping gas threads, blind-end threads and light alloys.
- When normal rotation of machine is stopped at specified position, the Tapper Chuck runs idle after progressing by its elongation (4mm for ZL12 type). Simply rotate the machine in the reverse direction, and the tap depth will be made uniform within a high-precision.



ZL



TAPER	Code No.	Tapping Capability			D	L	C	Float		Tap Collet	Weight (kg)		
		M	U	P				F ₁	F ₂				
No.30	BT30-ZL 8-110 *1	M 2～ 8	1/8～1/4	—	13	110	34	3	3	ZKN 8 *1	1.5		
	-ZL12-130	M 2～12	1/8～1/2	P1/16～1/4	19	130	58	5	4	ZKG12	1.9		
No.40	BT40-ZL 8-120 *1	M 2～ 8	1/8～1/4	—	13	120	34	3	3	ZKN 8 *1	1.6		
	(IT40)-ZL12-100	M 2～12	1/8～1/2	P1/16～1/4	19	100	58	5	4	ZKG12	1.9		
	-ZL12-130					130					2.3		
	-ZL16-150	M 3～16	1/8～5/8	P1/8～3/8	25	150	60	6	7	ZKG16	2.9		
	-ZL24-160	M 8～24	1/2～ 1	P1/4～5/8	30	160	73			ZKG24	3.3		
	-ZL38-190	M18～38	3/4～13/8	P3/8～ 1	45	190	92	8	10	ZKN38	6.0		
No.50	BT50-ZL 8-130 *1	M 2～ 8	1/8～1/4	—	13	130	34	3	3	ZKN 8 *1	4.2		
	(IT50)-ZL12- 85	M 2～12	1/8～1/2	P1/16～1/4	19	85	58	5	4	ZKG12	3.4		
	-ZL12-130					130					4.3		
	-ZL16-135	M 3～16	1/8～5/8	P1/8～3/8	25	135	60	6	7	ZKG16	4.6		
	-ZL24-100	M 8～24	1/2～ 1	P1/4～5/8	30	100	73			ZKG24	4.5		
	-ZL24-142					142					5.8		
	-ZL38-150	M18～38	3/4～13/8	P3/8～ 1	45	150	92	8	10	ZKN38	6.9		

★ In Case of IT40, IT40-ZL16-160 and IT40-ZL24-175 are standard.

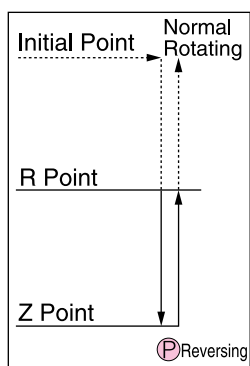
★ In Case of IT50, IT50-ZL12-130, IT50-ZL24-142 and IT50-ZL38-180 are standard.

★ Marked *1 ZL8 Tapper Chuck and ZK8 Tap Collet are available as semi-standard.

★ Please refer to P.51 (ZKG) ~ P.52 (ZK) for ISO, IMPERIAL, DIN Tap Collet, P.53 (ZKG) ~ P.54 (ZKN) for JIS Tap Collet, and P.55 for Long Size Tap Collet.

★ Centre Coolant type Tapper Chuck is also available. Please contact with us.

★ Flange through type Tapper Chuck is also available. Please contact with us.



Program of Auto-Depth Control Tapper Chuck (ZL)

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NO. 1 M03 S—; Spindle Rotating
NO. 2 G00 X—Y—; Initial Point
NO. 3 G00 Z—; R Point
NO. 4 G01 Z—F—; Z Point
NO. 5 G04 P—; Dwell
NO. 6 M05 Spindle Stop
NO. 7 M04 Spindle Reversing
NO. 8 G01 Z—; R Point
NO. 9 M05 Spindle Stop
NO.10 G00 Z— M03; Initial Point, Spindle Normal Rotating
    
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⚠ When using ZL Tapper Chuck, please make sure of the following program.

G04 P —; — Threads are made only by Spindle Rotation during Dwell. Thus, exact depth is controlled.

M05 ; — Spindle stop.

M04 ; First command Spindle Reversing. Then, upward movement of Z. If upward movement of Z is commanded earlier than Spindle Reversing, down movement of tap and up movement of Z may cause breakage of tap.

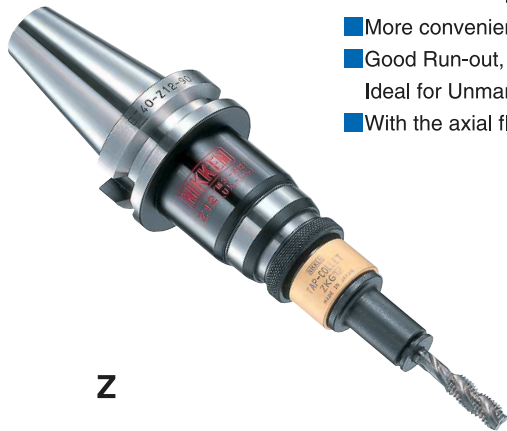
G01 Z —;

FLOATING TAPPER CHUCK

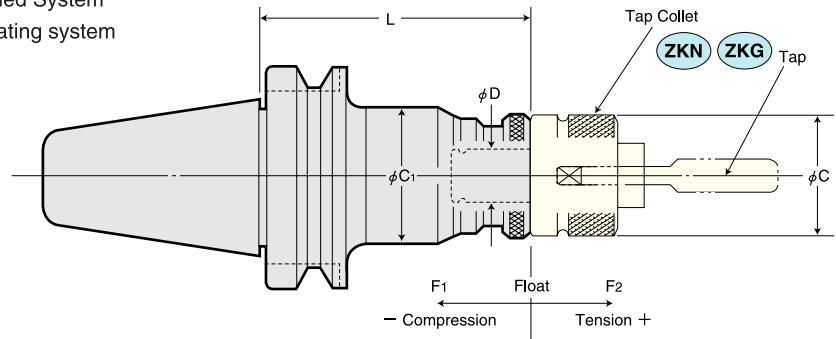
NIKKEN

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	M 2~ 12	1/8~1/2	P1/16~1/4	19	130	32	45	15	15	ZKG12	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	M 8~ 24	1/2~ 1	P1/4~5/8	30	187	46	63	20	20	ZKG24	3.5
	-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					130						4.3
	-Z12-175	M 2~ 12	1/8~1/2	P1/16~1/4	19	175	32	45	15	15	ZKG12	4.8
	-Z12-220	M 2~ 12	1/8~1/2	P1/16~1/4	19	220	32	45	15	15	ZKG12	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	M 8~ 24	1/2~ 1	P1/4~5/8	30	187	46	63	20	20	ZKG24	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.51 (ZKG)~P.52 (ZK) for ISO, IMPERIAL, DIN Tap Collet, P.53 (ZKG)~P.54 (ZKN) for JIS Tap Collet, and P.55 for Long Size Tap Collet.

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



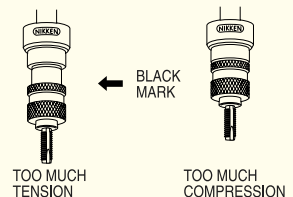
① Caution for Floating Mechanism

(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.

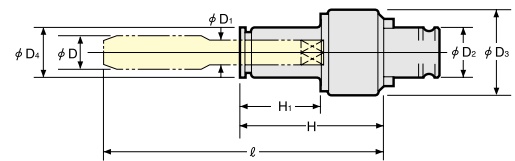
BT

ONE TOUCH TAP COLLET (ISO, IMPERIAL, DIN)

NIKKEN

- Can be used with all NIKKEN Floating Tapper Chucks.
- Setting and Removal of Tap can be done in ONE TOUCH.
- Torque Limiter Mechanism built-in.

Reversing Torque is 1.4 times of Normal Rotation in order to prevent the troubles caused by swarf.



ZKG

Tapping Capacity	ZKG12		ZKG16			ZKG24		
	M2~5	M6~12	M3~5	M6~12	M14~20	M8~12	M14~20	M22~24
D ₂	19		25			30		
D ₃	32		39			46		
D ₄	13	19	13	19	26	19	26	32
H	54.5	55	64.5	65	66	73	74	
H ₁	30.5	31	37.5	38	42	45	48	

TAP SPEC.	ZKG12				
	Code No.	D	D ₁	W	L
ISO Metric	ZKG12-2S	2	2.5	2	74
	-3S	3	3.15	2.5	79
	-4S	4	4	3.15	83
	-5S	5	5	4	87
	-6S	6	6.3	5	92
	-8S	8	8	6.3	96
	-10S	10	10	8	103
	-12S	12	9	7.1	111
ISO Pipe	ZKG12-1/8PS	9.728	8	6.3	87
IMPERIAL BSW BSF	ZKG12-1/8S(No.5S)	3.175	3.15	2.5	78
	-No.6S	3.505	3.55	2.8	80
	-No.8S	4.166	4.5	3.55	82
	-3/16S(No.10S)	4.762	5	4	86
	-No.12S	5.48	5.6	4.5	90
	-1/4S	6.35	6.3	5	90
	-5/16S	7.937	8	6.3	95
	-3/8S	9.525	10	8	101
	-7/16S	11.112	8	6.3	108
	-1/2S	12.7	9	7.1	111
IMPERIAL Pipe	ZKG12-1/8PB	9.728	8.08	6	83.037
DIN Metric	ZKG12-2D(DIN352)	2	2.8	2.1	72
	-3D(DIN371)	3	3.5	2.7	85
	-4D(DIN371)	4	4.5	3.4	92
	-5D(DIN371)	5	6	4.9	97
	-6D(DIN371)	6	6	4.9	107
	-8D(DIN376)	8	6	4.9	117
	-8D7(DIN371)	8	8	6.2	113
	-10D(DIN376)	10	7	5.5	124
	-10D7(DIN371)	10	10	8	121
	-12D(DIN376)	12	9	7	132
DIN Pipe	ZKG12-1/8R(DIN353)	9.728	7	5.5	92

TAP SPEC.	ZKG16				
	Code No.	D	D ₁	W	L
ISO Metric	ZKG16-4S	4	4	3.15	93
	-5S	5	5	4	97
	-6S	6	6.3	5	102
	-8S	8	8	6.3	106
	-10S	10	10	8	113
	-12S	12	9	7.1	121
	-14S	14	11.2	9	122
	-16S	16	12.5	10	128
ISO Pipe	ZKG16-1/8PS	9.728	8	6.3	97.5
	-1/4PS	13.157	10	8	103.5
	-3/8PS	16.662	12.5	10	109.5
IMPERIAL BSW BSF	ZKG16-1/8S(No.5S)	3.175	3.15	2.5	88
	-No.6S	3.505	3.55	2.8	90
	-No.8S	4.166	4.5	3.55	92
	-3/16S(No.10S)	4.762	5	4	96
	-No.12S	5.48	5.6	4.5	100
	-1/4S	6.35	6.3	5	100
	-5/16S	7.937	8	6.3	105
	-3/8S	9.525	10	8	111
	-7/16S	11.112	8	6.3	118
	-1/2S	12.7	9	7.1	121
	-9/16S	14.288	11.2	9	122
	-5/8S	15.875	12.5	10	128
IMPERIAL Pipe	ZKG16-1/8PB	9.728	8.08	6	93.537
	-1/4PB	13.157	10.9	8.18	98.3
	-3/8PB	16.662	13.77	10.31	99.888
DIN Metric	ZKG16-4D(DIN371)	4	4.5	3.4	102
	-5D(DIN371)	5	6	4.9	107
	-6D(DIN371)	6	6	4.9	117
	-8D(DIN376)	8	6	4.9	127
	-8D7(DIN371)	8	8	6.2	123
	-10D(DIN376)	10	7	5.5	134
	-10D7(DIN371)	10	10	8	131
	-12D(DIN376)	12	9	7	142
	-14D(DIN376)	14	11	9	137
	-16D(DIN376)	16	12	9	137
DIN Pipe	ZKG16-1/8R(DIN353)	9.728	7	5.5	102.5
	-1/4R(DIN353)	13.157	11	9	98.5
	-3/8R(DIN353)	16.662	12	9	105.5

TAP SPEC.	ZKG24				
	Code No.	D	D ₁	W	L
ISO Metric	ZKG24-12S	12	9	7.1	129
	-14S	14	11.2	9	130
	-16S	16	12.5	10	136
	-18S	18	14	11.2	145
	-20S	20	14	11.2	145
	-22S	22	16	12.5	145
	-24S	24	18	14	155
ISO Pipe	ZKG24-1/4PS	13.157	10	8	110
	3/8PS	16.662	12.5	10	116
	-1/2PS	20.955	16	12.5	122
	-5/8PS	22.911	18	14	124
IMPERIAL BSW BSF	ZKG24-1/2S	12.7	9	7.1	129
	-9/16S	14.288	11.2	9	130
	-5/8S	15.875	12.5	10	136
	-3/4S	19.05	14	11.2	145
	-7/8S	22.225	16	12.5	145
	-1S	25.4	18	14	155
IMPERIAL Pipe	ZKG24-1/4PB	13.157	10.9	8.18	104.8
	-3/8PB	16.662	13.77	10.31	106.388
	-1/2PB	20.955	17.45	13.08	114.5
	-5/8PB	22.911	20.32	15.3	114.5
DIN Metric	ZKG24-12D(DIN376)	12	9	7	150
	-14D(DIN376)	14	11	9	145
	-16D(DIN376)	16	12	9	145
	-18D(DIN376)	18	14	11	158
	-20D(DIN376)	20	16	12	168
	-22D(DIN376)	22	18	14.5	166
	-24D(DIN376)	24	18	14.5	186
DIN Pipe	ZKG24-1/4R(DIN353)	13.157	11	9	105
	-3/8R(DIN353)	16.662	12	9	112
	-1/2R(DIN353)	20.955	16	12	116

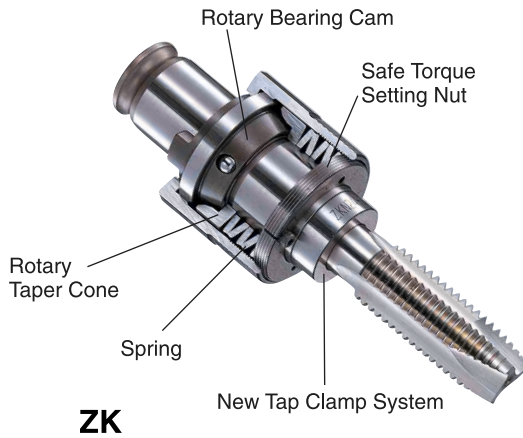
★Long size TAP Collet is available. P.55 e.g. ZKG12-4S-50L

★High torque setting type example for stainless steel is available. Please add "-HT" at the end of Code No. e.g. ZKG12-3S-HT

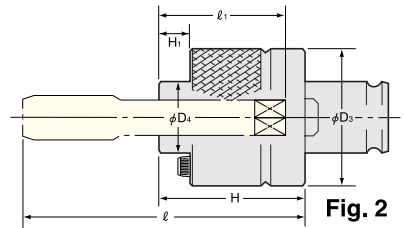
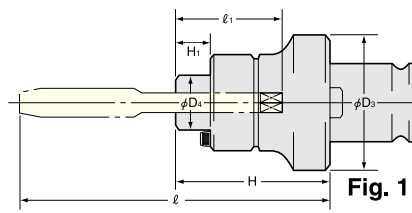
★TAP Clamp Mechanism for PIPE TAP is Side Lock System.

ZK TAP COLLET (ISO, IMPERIAL, DIN)

NIKKEN



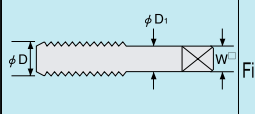
- Can be used with all NIKKEN Floating Tapper Chucks.
- Torque Limiter Mechanism built-in.

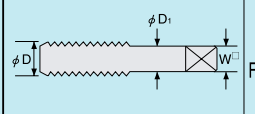


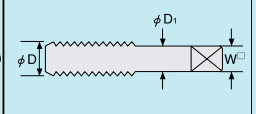
Total length "l" is calculated as ;
 $l = \text{Tap length} - l_1 + H$

	ZK8	ZK38	ZK65
D ₄	13	45	68
D ₃	23	78	110
H ₁	6.5	12	13
H	29.5	64	89

ZK8 type is semi-standard.

TAP SPEC.	ZK 8					Fig			
	Code No.	D	D1	W	l1				
ISO Metric	ZK8-2S	2	2.5	2.0	22.5	2			
	-3S	3	3.15	2.5	23.5				
	-4S	4	4.0	3.15	24.5				
	-5S	5	5.0	4.0	25.5				
	-6S	6	6.3	5.0	26.5				
ISO Pipe									
IMPERIAL BSW BSF	ZK8-No.2S	2.18	2.8	2.24	23.5	2			
	-No.3S	2.515							
	-No.4S	2.845	3.15	2.5	23.5				
	-No.5S(1/8S)	3.175							
	-No.6S	3.505					3.55	2.8	
	-No.8S	4.166					4.5	3.55	24.5
	-No.10S(3/16S)	4.826					5.0	4.0	25.5
	-No.12S	5.480	5.6	4.5					
	-1/4S	6.350	6.3	5.0	26.5				
IMPERIAL Pipe									
DIN Metric	ZK8-2D	2(Din 371)	2.8	2.1	23.5	2			
	-3D	3(Din 371)	3.5	2.7	24.5				
	-4D	4(Din 371)	4.5	3.4					
	-5D	5(Din 371)	6.0	4.9	26.5				
	-6D	6(Din 371)							
	-8D	8(Din 376)							
DIN Pipe									

TAP SPEC.	ZK38					Fig	
	Code No.	D	D1	W	l1		
ISO Metric	ZK38-18S	18	14	11.2	44	1	
	-20S	20					
	-22S	22	16	12.5	46		
	-24S	24	18	14	48		
	-27S	27	20	16	54	2	
	-30S	30					
	-33S	33	22.4	18	56		
	-36S	36	25	20	58		
	ISO Pipe	ZK38-3/8PS	16.662	12.5	10	34	1
-1/2PS		20.955	16	12.5	38		
-5/8PS		22.911	18	14	40		
-3/4PS		26.441	20	16	46		
-7/8PS		30.201	22.4	18	48	2	
- 1 PS		33.249	25	20	50		
IMPERIAL BSW BSF	ZK38- 3/4S	19.050	14	11.2	44	1	
	- 7/8S	22.225	16	12.5	46		
	- 1 S	25.400	18	14	48		
	-11/8S	28.575	20	16	54		
	-11/4S	31.750	22.4	18	56	2	
	-13/8S	34.925	25	20	58		
IMPERIAL Pipe	ZK38- 3/8PB	16.662	13.77	10.31	33.7	1	
	- 1/2PB	20.955	17.45	13.08	39.9		
	- 5/8PB	22.911	20.32	15.3	39.5		
	- 3/4PB	26.441	23.01	17.3	43.5		
	- 7/8PB	30.201	27.76	20.6	45.1	2	
	- 1 PB	33.249	28.57	21.4	46.6		
DIN Metric	ZK38-18D	18(Din 376)	14	11	44	1	
	-20D	20(Din 376)	16	12	45		
	-22D	22(Din 376)	18	14.5	47		
	-24D	24(Din 376)					
	-27D	27(Din 376)	20	16	53	2	
	-30D	30(Din 376)	22	18	55		
	-33D	33(Din 376)	25	20	57		
	-36D	36(Din 376)	28	22	59		
DIN Pipe	ZK38-3/8R	16.662	12	9	33	1	
	-1/2R	20.955	16	12	37		
	-5/8R	22.911	18	14.5	39		
	-3/4R	26.441	20	16	45		
	-7/8R	30.201	22	18	47	2	
	- 1 R	33.249	25	20	49		

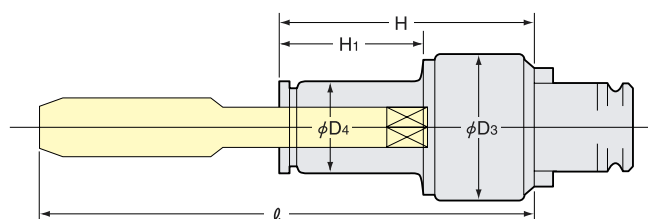
TAP SPEC.	ZK65					Fig	
	Code No.	D	D1	W	l1		
ISO Metric	ZK65-36S	36	25.0	20.0	58	2	
	-39S	39	28.0	22.4	60		
	-42S	42					
	-45S	45	31.5	25.0	65		
	-48S	48					
	-52S	52	35.5	28.0	68		
	-56S	56					
	-60S	60	40.0	31.5	71		
	-64S	64					
ISO Pipe	ZK65-11/4PS	41.910	31.5	25	51	2	
	-11/2PS	47.803	35.5	28	55		
	-13/4PS	53.746					
	- 2 PS	59.614	40	31.5	62		
IMPERIAL BSW BSF	ZK65-11/2S	38.100	28	22.4	60	2	
	-13/4S	44.450	31.5	25.0	65		
	- 2 S	50.800	35.5	28.0	68		
	-21/4S	57.150	40.0	31.5	71		
	-21/2S	63.500					
IMPERIAL Pipe	ZK65-11/4PB	41.910	33.32	25.0	51	2	
	-11/2PB	47.803	38.10	28.57	50		
	-13/4PB	53.746	41.28	30.94	62		
	- 2 PB	59.614	47.63	35.71	56		
DIN Metric	ZK65-36D	36(Din 376)	28.0	22.0	59	2	
	-39D	39(Din 376)	32.0	24.0	61		
	-42D	42(Din 376)					
	-45D	45(Din 376)	36.0	29.0	69		
	-48D	48(Din 376)					
	-52D	52(Din 376)	40.0	32.0	72		
	-56D	56(Din 376)					
	-60D	60(Din 376)	45.0	35.0	75		
	-64D	64(Din 376)					
			50.0	39.0	78		
DIN Pipe	ZK65-11/8R	37.898 (Din 353)	28.0	22.0	51	2	
	-11/4R	41.910 (Din 353)	32.0	24.0	53		
	-13/8R	44.325 (Din 353)					
	-11/2R	47.803 (Din 353)	36.0	29.0	55		
	-13/4R	53.746 (Din 353)					
	- 2 R	59.614 (Din 353)					

★ Tap collet Code No. "ZK" is for ISO, IMPERIAL and DIN Taps.
 ★ Tap collet Code No. "ZKN" is for JIS Taps.

ONE TOUCH TAP COLLET (JIS)

NIKKEN

ZKG Tap Collet

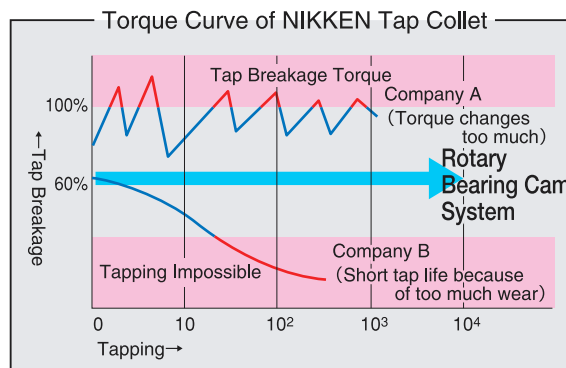


D₃ Dimension
ZKG12:32mm
ZKG16:39mm
ZKG24:46mm

■ **High Accuracy, Quick Response and Long Tap Life.**
 NIKKEN ZKG Tap Collet can be used with all of NIKKEN floating Tapper Chucks.

■ Rotary Bearing Cam Mechanism

The ZKG tap collet can response very smoothly for the change of the tapping torque.



■ The torque of CCW is 1.4 times of the torque of CW to prevent the problem of the swarf.

■ The tap can be clamped with one touch operation.

■ The adjustment mechanism of the setting torque is not installed on the ZKG tap collet. The high torque setting type is available for the tapping on the stainless as an option. e.g ZKG12-4HT

The **ZKG** tap collet is not interchangeable with **ZKN** tap collet.

	ZKG12					ZKG16					ZKG24										
	Code.No	D ₄	H	H ₁	ℓ	Code.No	D ₄	H	H ₁	ℓ	Code.No	D ₄	H	H ₁	ℓ						
Metric (M)	ZKG12- 2	13	54.5	30.5	72	ZKG16- 3	13	64.5	37.5	85.5	ZKG24- 8	19	73	45	111						
	- 3				75	- 4				90.5	-10				116						
	- 4				80	- 5				98.5	-12				122						
	- 5				88	- 6				100.5	-14				123						
	- 6	19	55	31	90	- 8	19	65	38	104	-16	26	74	48	128						
	- 8				94	-10				109	-18				128						
	-10				99	-12				115	-20				136						
	-12				105	-14				116	-22				141						
						-16	26	66	42	121	-24	32			144						
Unified (U) or British Standard Whitworth (W)	ZKG12-1/8	13	54.5	30.5	75	ZKG16-1/8	13	64.5	37.5	85.5	ZKG24-1/2	19	73	45	124						
	-3/16				88	-3/16				98.5	-9/16				125						
	-1/4				19	55				31	90	-1/4	19	65	38	100.5	-5/8	26	74	48	129
	-5/16										93.5	-5/16				104	-3/4				137
	-3/8	99	-3/8	109			-7/8	141													
	-7/16	103	-7/16	113			-1	149													
	-1/2	107	-1/2	117																	
						-9/16	26	66	42	118											
						-5/8				122											
Pipe (PT) (PS) (PF)	ZKG12-1/8P	19	56	32	83	ZKG16-1/8P	19	66.5	39	93	ZKG24-1/4P	26	75	49	104						
	-1/4P	26	60	36	89	-1/4P	26	68.5	44	97	-3/8P				105						
	-1/16P	19	56	32	81.5	-3/8P				98	-1/2P	32			114						
	-1/16P-Y	19	56	32	81.5					-5/8P	115										

★ Tap for pipe thread is clamped with the side lock screw.

★ High torque setting type example for stainless steel is available. Please add "HT" at the end of Code No. e.g. ZKG12-4-HT

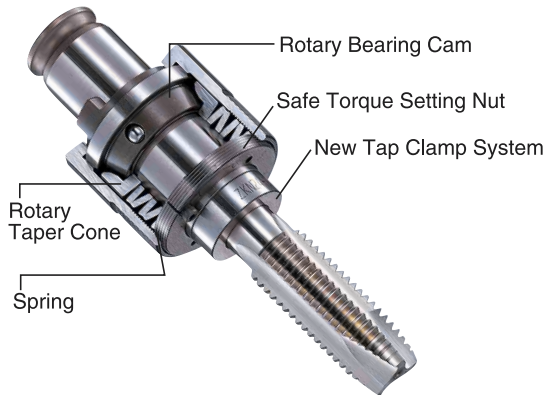
★ Low torque setting is "LT". e.g. ZKG12-4-LT

★ Please refer to P.55 for the long size tap collet.

★ The shank dimension of the 1/16P tap varies depending on the tap maker.

★ The internal mechanism of the tap collet for the left handed tap is different from the standard one. Please use the special tap collet for the left handed tap.

ZKN Tap Collet



■ High Accuracy, Quick Response and Long Tap Life.

■ Rotary Bearing Cam Mechanism

NIKKEN ZKG Tap Collet can be used with the all NIKKEN floating Tapper Chucks.

■ The torque of CCW is 1.4 times of the torque of CW to prevent the problem of the swarf.

■ The setting torque can be adjusted.

Smaller equal to ZKG38-24

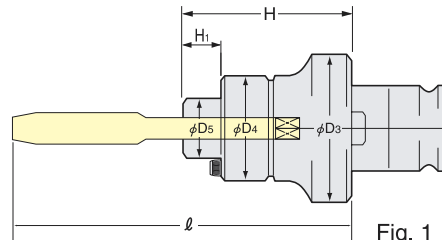


Fig. 1

All size for ZKN8
Larger equal to ZKN38-27
All size of ZKN65

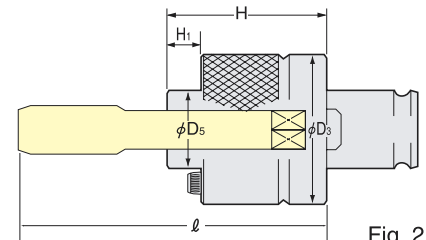


Fig. 2

ZKN65 : The tap collet for the unified thread is also available. (U,W)
1³/₈, 1¹/₂, 1⁵/₈, 1³/₄, 1⁷/₈, 2, 2¹/₄,
2¹/₂, 2³/₄, 3, 3¹/₄, 3¹/₂, 3³/₄

	ZKN8	ZKN38		ZKN65	
		M18~24	M27~36	M36~65	M68~100
D ₃	23	78		110	125
D ₄	—	56	—	—	—

ZKN8 is semi-standard.

	ZKN 8					ZKN38					ZKN65						
	Code.No	D ₅	H	H ₁	ℓ	Code.No	D ₅	H	H ₁	ℓ	Code.No	D ₅	H	H ₁	ℓ		
Metric (M)	ZKN 8-2	13	29.5	6.5	50	ZKN38-18	32	61	17	117	ZKN65- 36	68	89	20	179		
	-3				55	-20				121	- 39				187		
	-4				56	-22				130	- 42				189		
	-5				64	-24				133	- 45				194		
	-6				66	-27				142	- 48				198		
	-8				73	-30				145	- 52				205		
						-33	45	64	12	153	- 56				212		
						-36				161	- 60				222		
						-38				121	- 64				229		
															- 65	229	
															- 68	254	
Unified (U) or British Standard Whitworth (W)	ZKN 8-1/8	13	29.5	6.5	55	ZKN38-3/4	32	61	17	122	- 72	84	94	25	254		
	-3/16				64	-7/8				130	- 80				264		
	-1/4				66	-1				138	-100*				274		
						-11/8	45	64	12	145	ZKN65-1P	68	89	20	127		
						-11/4				153	-11/8P				135		
						-13/8				161	-11/4P				139		
											-13/8P				144		
											-11/2P				144		
											-15/8P				144		
Pipe (PT) (PS) (PF)						ZKN38 -3/8P	26	61	17	24	91				-13/4P	144	
						-1/2P	32			61	17				100	-2P	149
						-5/8P									104	-21/4P	159
						-3/4P		45	64			12	103	-21/2P	174		
						-7/8P	106			-23/4P	174						
						-1P	109			-3P	174						

★ * mark: The Code No. of tap collet for M85 to M90 is ZKN65-100.

The Code No. of tap collet for M95 to M100 is ZKN65-100N.

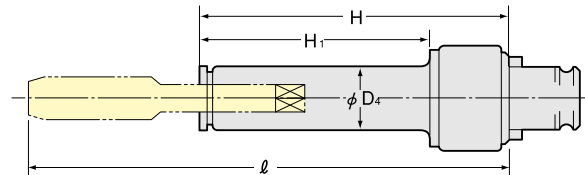
★ The internal mechanism of the tap collet for the left handed tap is different from the standard one. Please use the special tap collet for the left handed tap.

LONG SIZE ONE TOUCH TAP COLLET (ISO)

NIKKEN

ZKG-L

JAPAN PAT.



(ISO)

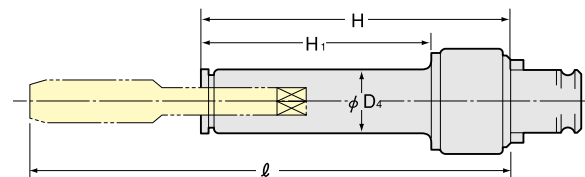
	ZKG12L					ZKG16L					ZKG24L				
	Code.No	D ₄	H	H ₁	ℓ	Code.No	D ₄	H	H ₁	ℓ	Code.No	D ₄	H	H ₁	ℓ
50mm Long	ZKG12- 3S- 50L	13	104.5	80.5	129	ZKG16- 3S- 50L	13	114.5	87.5	139	ZKG24- 8S- 50L	19	123	95	164
	- 4S- 50L				133	- 4S- 50L				143	-10S- 50L				171
	- 5S- 50L				137	- 5S- 50L				147	-12S- 50L				179
	- 6S- 50L	19	105	81	142	- 6S- 50L	19	115	88	152	-14S- 50L	26	124	98	180
	- 8S- 50L				146	- 8S- 50L				156	-16S- 50L				186
	-10S- 50L				153	-10S- 50L				163	-18S- 50L				195
	-12S- 50L				161	-12S- 50L				171	-20S- 50L				195
		26	116	92		-14S- 50L	26	116	92	172	-22S- 50L	32			195
						-16S- 50L				178	-24S- 50L				205
100mm Long	ZKG12- 3S-100L	13	154.5	130.5	179	ZKG16- 3S-100L	13	164.5	137.5	189	ZKG24- 8S-100L	19	173	145	214
	- 4S-100L				183	- 4S-100L				193	-10S-100L				221
	- 5S-100L				187	- 5S-100L				197	-12S-100L				229
	- 6S-100L	19	155	131	192	- 6S-100L	19	165	138	202	-14S-100L	26	174	148	230
	- 8S-100L				196	- 8S-100L				206	-16S-100L				236
	-10S-100L				203	-10S-100L				213	-18S-100L				245
	-12S-100L				211	-12S-100L				221	-20S-100L				245
		26	166	142		-14S-100L	26	166	142	222	-22S-100L	32			245
						-16S-100L				228	-24S-100L				255

LONG SIZE ONE TOUCH TAP COLLET (JIS)

NIKKEN

ZKG-L

JAPAN PAT.



(JIS)

	ZKG12L					ZKG16L					ZKG24L				
	Code.No	D ₄	H	H ₁	ℓ	Code.No	D ₄	H	H ₁	ℓ	Code.No	D ₄	H	H ₁	ℓ
50mm Long	ZKG12- 3- 50L	13	104.5	80.5	125	ZKG16- 3- 50L	13	114.5	87.5	135.5	ZKG24- 8- 50L	19	123	95	161
	- 4- 50L				130	- 4- 50L				140.5	-10- 50L				166
	- 5- 50L				138	- 5- 50L				148.5	-12- 50L				172
	- 6- 50L	19	105	81	140	- 6- 50L	19	115	88	150.5	-14- 50L	26	124	98	173
	- 8- 50L				144	- 8- 50L				154	-16- 50L				178
	-10- 50L				149	-10- 50L				159	-18- 50L				178
	-12- 50L				155	-12- 50L				165	-20- 50L				186
		26	116	92		-14- 50L	26	116	92	166	-22- 50L	32			191
						-16- 50L				171	-24- 50L				194
100mm Long	ZKG12- 3-100L	13	154.5	130.5	175	ZKG16- 3-100L	13	164.5	137.5	185.5	ZKG24- 8-100L	19	173	145	211
	- 4-100L				180	- 4-100L				190.5	-10-100L				216
	- 5-100L				188	- 5-100L				198.5	-12-100L				222
	- 6-100L	19	155	131	190	- 6-100L	19	165	138	200.5	-14-100L	26	174	148	223
	- 8-100L				194	- 8-100L				204	-16-100L				228
	-10-100L				199	-10-100L				209	-18-100L				228
	-12-100L				205	-12-100L				215	-20-100L				236
		26	166	142		-14-100L	26	166	142	216	-22-100L	32			241
						-16-100L				221	-24-100L				244

AUTO. REVERSING TAPPER CHUCK

NIKKEN

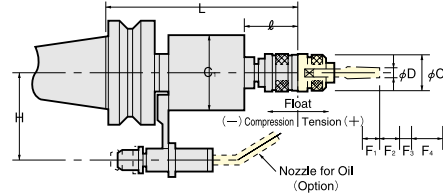


Explanation of the Code No.

BT40 - **ZR** **12**

- Shank No.
- Symbol of Auto Reversing Tapper Chuck
- Max Tapping Capability

- As Self-Reversing Mechanism is built in Tapper Chuck body, this tapper is very suitable for the operation that the main spindle rotates and reverses frequently.
- Floating Mechanism: With a built in Floating Mechanism, High Accuracy Tapping Operations can be achieved.
- Tapping depth can be kept within $\pm 0.1\text{mm}$.

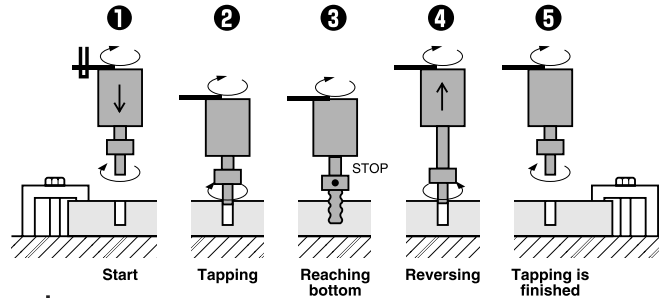
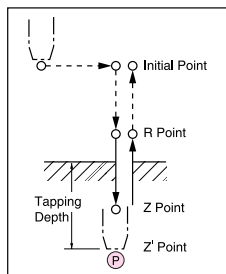


TAPER	Code. No.	Tapping Capability D	L	ℓ	C	C1	H	Float				MAX.min ⁻¹	Weight (Kg)	Tap Collet
								F1	F2	F3	F4			
No.40	BT40-ZR 8*1	M 3 ~ 8	157	43	23	55	60	4	5	2	9	1,500	2.6	ZKN 8
	-ZR12	M 3 ~ 12	171	51	38	70		6	7	4	14	1,000	3.7	ZKG12
	-ZR20	M10 ~ 16	199	66	56	80		6	7	4	14	600	4.8	ZKG16
No.50	BT50-ZR 8*1	M 3 ~ 8	166	43	23	55	82	4	5	2	9	1,500	5.2	ZKN 8
	-ZR12	M 3 ~ 12	180	51	38	70		6	7	4	14	1,000	6.3	ZKG12
	-ZR20	M10 ~ 16	208	66	56	80		6	7	4	14	600	7.5	ZKG16

★Marked *1 ZR8 Tapper Chuck and ZK8 Tap Collet are available as semi-standard.

★Please refer P.51 for ISO, IMPERIAL, DIN Tap Collet, P.52 for JIS Tap Collet, and P.53 for Long Size Tap Collet.

★Positioning Block is not included. When ordering, please advise name of M/C Builder and Model No. and so on.



Program example of ZR Tapper Chuck

No. 1 M03 S — ; Spindle Rotating
 No. 2 G00 X — Y — ; Initial Point
 No. 3 Z — ; R Point
 No. 4 G01 Z — F — ; Z Point
 No. 5 G04 P — ; Dwell: Only tap going to Z' Point
 No. 6 G01 Z — F — ; Only tap going to R Point with reversing
 No. 7 G00 Z — ;

★ZR tapper can be fed one block at a time. Check correct positions at the point No.3-No.5 and input correct values.

★Allow about 15mm for distance between Z-Z' (self-feed of the ZR tapper)

★Value F of No.4 is tapping self-feeding speed X 0.9.

★Value F of No.6 is tapping self-feeding speed X 1.1.

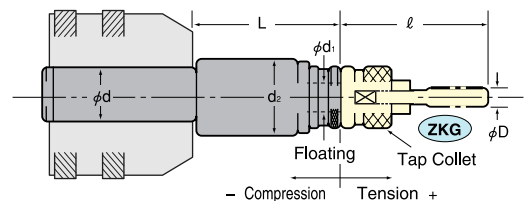
Straight Shank TAPPER CHUCK

NIKKEN

- For Slim body and Ultra Smooth Tapping Operations with Float Mechanism.



NZ



Style	Code. No.	Tapping Capability		L	d ₁	d	d ₂	Float		Weight (kg)	Tap Collet
		M	P					Compression	Tension		
32	NZ32-12-105	M 2~12	P1/16 ~1/4	105~125	19	32	45	5	15	1.3	ZKG12
	-16-125	M 3~16	P1/8 ~3/8	125~145	25		55	8	20	2.2	ZKG16
	-24-140	M 8~24	P1/4 ~5/8	140~160	30		63	8	20	2.8	ZKG24
42	NZ42-12- 90	M 2~12	P1/16 ~1/4	90~125	19	42	45	5	15	2.0	ZKG12
	-16-125	M 3~16	P1/8 ~3/8	125~160	25		55	8	20	3.0	ZKG16
	-24-140	M 8~24	P1/4 ~5/8	140~175	30		63	8	20	3.6	ZKG24

SYNCHRONIZED TAPPING HOLDER (for 100% Synchronized Feed)

NIKKEN

■ Synchronized (Rigid or Direct) Tapping Feed Function is one of recent machining function to feed 1 pitch of tap per 1 revolution of machine spindle.

Please use High Run-Out Accuracy & Powerful Gripping of SLIM CHUCK or MULTI LOCK Milling Chuck for this application.



SK

Please refer

P.37

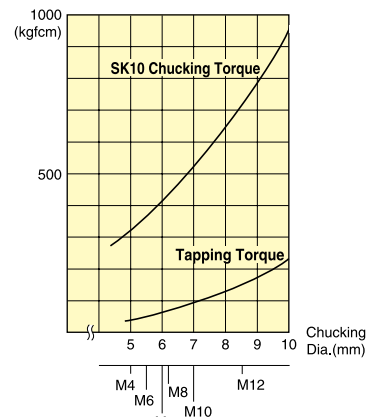


C

Please refer

P.29

At use of SK10 SLIM CHUCK with Standard SK Collet, the following shows this combination creates more than 4 times gripping torque of tapping torque.



8° Taper ··· Strong Gripping Power

■ Tapping holder & Collet for 100% Synchronized Tapping

■ For JIS TAP Shank

Metric Tap	Tap Shank Dia.	SLIM CHUCK	SLIM COLLET	MILLING CHUCK	KM COLLET
M 2	3.0	SK10	SK10- 3	C20	
M 3	4.0		SK10- 4		
M 4	5.0		SK10- 5		
M 5	5.5		SK10- 5.5		KM20- 5.5
M 6	6.0		SK10- 6		KM20- 6
M 8	6.2		SK10- 6.5		KM20- 6.2
M10	7	SK13	SK13- 7		KM20- 7
M12	8.5		SK13- 8.5		KM20- 8.5
M14	10.5		SK13-10.5		KM20-10.5
M16	12.5		SK13-12.5		KM20-12.5
M18	14	SK16	SK16-14	C32	KM20-14
M20	15		SK16-15		KM20-15
M22	17				KM32-17
M24	19				KM32-19
M27	20				KM32-20
M30	23				KM32-23

★ Tap Collet for Tap with Oil Hole is also available.

★ At use of MILLING CHUCK, please use tap with shank tolerance h7.

■ For ISO TAP Shank

Metric Tap	Tap Shank Dia.	SLIM CHUCK	SLIM COLLET	MILLING CHUCK	KM COLLET			
M 2	3.0	SK10	SK10- 3					
M 3	4.0		SK10- 4					
M 4	6.0		SK13	SK10- 6	C20	KM20- 6		
M 5	6.0							
M 6	6.0							
M 8	8.0							
M10	8.0							
M12	10.0	SK16	SK13- 8	C20	KM20- 8			
M14	12.0		SK13-10		KM20-10			
M16	16.0		SK13-12		KM20-12			
M18	16.0		SK16-16		C20	KM20-16		
M20	16.0							
M22	20.0						C32	KM32-20
M24	20.0							
M27	20.0							
M30	25.0			KM32-25				

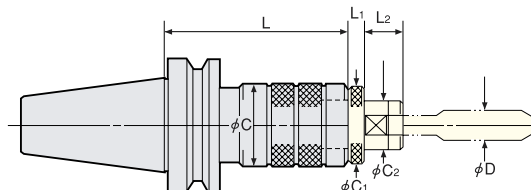
SYNCHRONIZED TAPPING HOLDER (with fine floating)

NIKKEN

■ This fine floating tapping holder improves tap life remarkably by absorbing fine pitch error completely with the small floating mechanism.



ZH



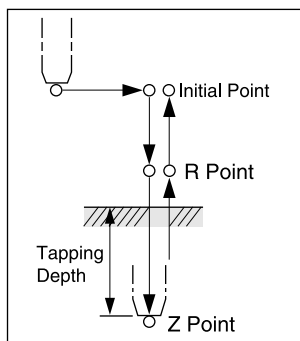
TAPER	Code No.	L	C	Weight (kg)	Tap Collet
No.40	BT40-ZH 8- 75	75	23	1.1	ZMK 8
	ZH12- 80	80	36	1.2	ZMK12
	ZH16- 95	95	45	1.5	ZMK16
	ZH24-105	105	56	1.8	ZMK24
No.50	BT50-ZH 8- 90	90	23	3.8	ZMK 8
	ZH12- 90	90	36	3.9	ZMK12
	ZH16-105	105	45	4.2	ZMK16
	ZH24-105	105	56	4.4	ZMK24

ZH Tapping Holder has fine floating mechanism, but it's not standard floating system (Tension/Compression) like Z or ZL Tap Holder.



Therefore, please use this ZH Tap Holder only with synchronized tapping cycle, not with ordinary tapping cycle.

■ Example of RIGID TAP cycle



No.1 MO3 S ... ; Spindle Rotation
No.2 G84.2 X ... Y ... Z ... R ... F ... ;
Rigid Tap Cycle Initial point Z point R point ★Feed

★F is calculated by Pitch of Tap and Spindle Rotation Speed.

For example, in case of M10×P1.5 and S400min⁻¹ (Cutting Speed 12.6m/min.) then F = 1.5mm×400min⁻¹ = 600 mm/min.

TAP COLLET without TORQUE CONTROL (JIS)

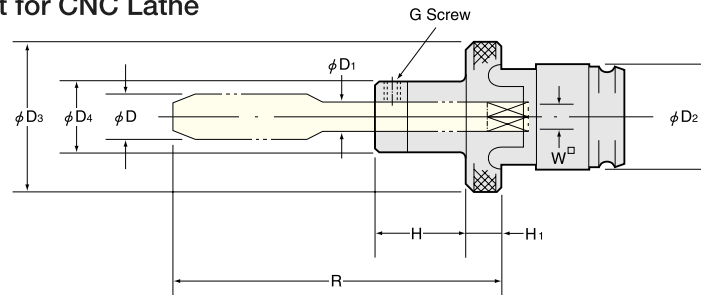
NIKKEN



ZMK

For Synchronized Tapping on M/C,
use ZMK tap collet with ZH Tapping
Holder, Please refer P.57.

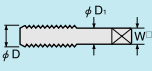
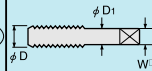
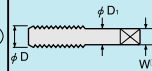
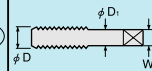
- Tap Collet for ZH Tapping Holder
- Tap Collet for CNC Lathe



Torque Control is not built-in. Careful attention must be paid to diameter of drilled hole, program and so on.

Dimension List of ZMK Tap Collet

	ZMK8		ZMK12		ZMK16			ZMK24		
D	M3~6	M8	M3~6	M8~12	M4~6	M8~12	M14~16	M12	M14~16	M18~24
D ₂	13		19		25			30		
D ₃	20		28		36			42		
D ₄	13	19	13	19	13	19	26	19	26	32
H	14	24	16	20	21			25		29
H ₁	4		6		6			8		
G	M4-0.5	M6-0.75	M4-0.5	M6-0.75	M4-0.5	M6-0.75		M6-0.75	M8-1.0	

	ZMK 8 				ZMK12 				ZMK16 				ZMK24 			
	Code No.	D ₁	W	ℓ	Code No.	D ₁	W	ℓ	Code No.	D ₁	W	ℓ	Code No.	D ₁	W	ℓ
Metric (M)	ZMK8-3	4	3.2	43.5	ZMK12- 3	4	3.2	47.5	ZMK16- 4	5	4.0	53.5	ZMK24-12	8.5	6.5	83
	-4	5	4.0	44.5	- 4	5	4.0	48.5	- 5	5.5	4.5	61.5	-14	10.5	8.0	84
	-5	5.5	4.5	52.5	- 5	5.5	4.5	56.5	- 6	6	4.5	63.5	-16	12.5	10.0	89
	-6	6	4.5	54.5	- 6	6	4.5	58.5	- 8	6.2	5.0	66	-18	14	11.0	93
	-8	6.2	5.0	67	- 8	6.2	5.0	65	-10	7	5.5	71	-20	15	12.0	97
					-10	7	5.5	70	-12	8.5	6.5	77	-22	17	13.0	106
					-12	8.5	6.5	76	-14	10.5	8.0	78	-24	19	15.0	109
									-16	12.5	10.0	83				
Unified (U) or British Standard Whitworth (W)	ZMK8-1/8	4	3.2	43.5	ZMK12-1/8	4	3.2	47.5	ZMK16-1/8	4	3.2	52.5	ZMK24-1/2	9	7.0	85
	-3/16	5	4.5	52.5	-3/16	5.5	4.5	56.5	-3/16	5	4.5	61.5	-9/16	10.5	8.0	86
	-1/4	6	4.5	54.5	-1/4	6	4.5	58.5	-1/4	6	4.5	63.5	-5/8	12	9.0	90
					-5/16	6.1	5.0	65	-5/16	6.1	5.0	66	-3/4	14	11.0	98
					-3/8	7	5.5	70	-3/8	7	5.5	71	-7/8	17	13.0	106
					-7/16	8	6.0	74	-7/16	8	6.0	75	- 1	20	15.0	114
					-1/2	9	7.0	78	-1/2	9	7.0	79				
									-9/16	10.5	8.0	80				
Pipe (PT) (PF)					ZMK12-1/8P	8	6.0	51	ZMK16-1/8P	8	6.0	54	ZMK24-3/8P	14	11.0	63
									-1/4P	11	9.0	56	ZMK24-1/2P	18	14.0	76
									-3/8P	14	11.0	57	ZMK24-5/8P	19	15.0	80

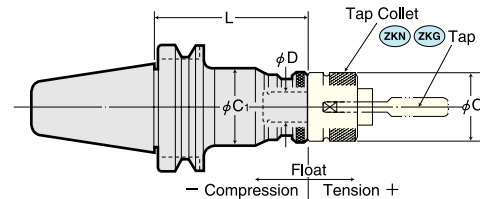
★For long size Tap Collets are also available. 50mm (-50L), 100mm (-100L) longer than standard type. e.g. ZMK12-4-50L

2LOCK TAPPER CHUCK

NIKKEN



- Most suitable for tapping gas threads, blind-end threads and light alloys.
- When normal rotation of machine is stopped at specified position, the Tapper Chuck runs idle after progressing by its elongation (4mm for ZL12 type). Simply rotate the machine in the reverse direction, and the tap depth will be made uniform within a high-precision.



ZL AUTO. DEPTH CONTROL

TAPER	Code No.	Tapping Capability			D	L	C	Float		Tap Collet	Weight (kg)
		M	U	P				F ₁	F ₂		
No.40	NBT40-ZL 8-120 *1	M 2~ 8	1/8~1/4	—	13	120	34	3	3	ZKN 8 *1	1.6
	(NIT40)-ZL12-100	M 2~12	1/8~1/2	P1/16~1/4	19	100	58	5	4	ZKG12	1.9
	-ZL12-130					130					2.3
	-ZL16-150	M 3~16	1/8~5/8	P1/8~3/8	25	150	60			ZKG16	2.9
	-ZL24-160	M 8~24	1/2~ 1	P1/4~5/8	30	160	73	6	7	ZKG24	3.3
	-ZL38-190	M18~38	3/4~13/8	P3/8~ 1	45	190	92	8	10	ZKN38	6.0
No.50	NBT50-ZL 8-130 *1	M 2~ 8	1/8~1/4	—	13	130	34	3	3	ZKN 8 *1	4.2
	(NIT50)-ZL12- 85	M 2~12	1/8~1/2	P1/16~1/4	19	85	58	5	4	ZKG12	3.4
	-ZL12-130					130					4.3
	-ZL16-135	M 3~16	1/8~5/8	P1/8~3/8	25	135	60			ZKG16	4.6
	-ZL24-100	M 8~24	1/2~ 1	P1/4~5/8	30	100	73	6	7	ZKG24	4.5
	-ZL24-142					142					5.8
	-ZL38-150	M18~38	3/4~13/8	P3/8~ 1	45	150	92	8	10	ZKN38	6.9

★In case of NIT40, NIT40-ZL16-160 and NIT40-ZL24-175 are standard.

★In case of NIT50, NIT50-ZL12-130, NIT50-ZL24-142 and NIT50-ZL38-180 are standard.

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

★Please refer to P.51 (ZKG) ~P.52 (ZK) for ISO, IMPERIAL, DIN Tap Collet, P.53 (ZKG) ~P.54 (ZKN) for JIS Tap Collet, and P.55 for Long Size Tap Collet.

Z FLOATING

TAPER	Code No.	Tapping Capability			D	L	C	C ₁	Float		Tap Collet	Weight (kg)
		M	U	P					F ₁	F ₂		
No.40	NBT40-Z 8- 90 *1	M 2~ 8	1/8~1/4	—	13	90	23	33	5	15	ZKN 8 *1	1.4
	(NIT40)-Z12- 90	M 2~ 12	1/8~1/2	P1/16~1/4	19	90	32	45	5	15	ZKG12	1.5
	-Z12-130					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					187		63	20			3.5
No.50	-Z38-140	M18~ 38	3/4~13/8	P3/8~ 1	45	140	78	85	8	22	ZKN38	6.7
	NBT50-Z 8-105 *1	M 2~ 8	1/8~1/4	—	13	105	23	33	5	15	ZKN 8 *1	4.2
	(NIT50)-Z12-130					130						4.3
	-Z12-175	M 2~ 12	1/8~1/2	P1/16~1/4	19	175	32	45	15	15	ZKG12	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 NIT40, IT40-ZL8-95*1 and NIT40-ZL24-1255 are standard.

★In case of NIT50, IT50-ZL8-105*1, NIT50-ZL38-187 and NIT50-ZL65-165 are standard.

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

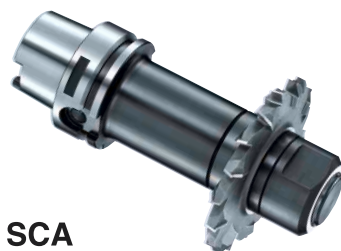
★Please refer to P.51 (ZKG) ~P.52 (ZK) for ISO, IMPERIAL, DIN Tap Collet, P.53 (ZKG) ~P.54 (ZKN) for JIS Tap Collet, and P.55 for Long Size Tap Collet.

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

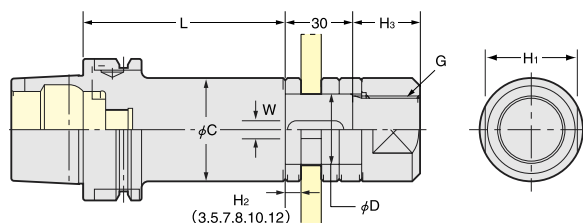
HSK STUB ARBOR

NIKKEN

■ Reliable Milling with No Chattering Accomplished.



SCA



Inch Series

(●) shows for Metric Series.

Metric Series

TAPER	Code No.	D	L	C	W	H ₁	H ₃	G	Weight (kg)	Code No.
HSK 63A	HSK 63A-SCA25.4 -90	25.4 (27)	90	40	6.35 (7)	32	25	M24	1.8	HSK 63A-SCA27-90
	SCA31.75-90	31.75 (32)		46	7.92 (8)	41	30	M30	2.3	HSK 63A-SCA32-90
HSK100A	HSK100A-SCA25.4 -90	25.4 (27)	90	40	6.35 (7)	32	25	M24	3.2	HSK100A-SCA27-90
	SCA31.75-90	31.75 (32)		46	7.92 (8)	41	30	M30	3.7	HSK100A-SCA32-90

★JIS B4206, JIS B4107, JIS B4219, JIS B4109 cutters can be attached.

★Key and collars (H₂=3, 5, 7, 8, 10, 12mm) are supplied as standard. For Code No. of collar and nut, please refer to P.104.

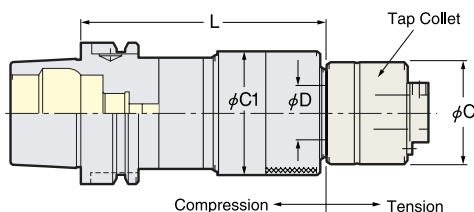
HSK TAPPER CHUCK

NIKKEN

■ With the axial NC floating system.



Z



TAPER	Code No.	Tapping Capability			D	C	C ₁	Tap Collet	Weight (kg)
		M	U	P					
HSK 63A	HSK 63A-Z 8-115*1	M 2~M 8	1/8~1/4	—	13	23	33	ZKN 8	2.7
	-Z12-120	M 3~M12	1/8~1/2	P 1/8	19	32	45	ZKG12	3.2
	-Z16-130	M 3~M16	1/8~5/8	P 1/8~3/8	25	39	55	ZKG16	4.3
	-Z24-140	M 8~M24	1/2~1	P 1/4~5/8	30	46	68	ZKG24	4.7
	-Z38-190	M18~M38	3/8~1 3/8	P 3/8~1	45	78	85	ZKN38	8.2
HSK100A	HSK100A-Z 8-120*1	M 2~M 8	1/8~1/4	—	13	23	33	ZKN 8	3.5
	-Z12-125	M 3~M12	1/8~1/2	P 1/8	19	32	45	ZKG12	3.6
	-Z16-140	M 3~M16	1/8~5/8	P 1/8~3/8	25	39	55	ZKG16	5.0
	-Z24-150	M 8~M24	1/2~1	P 1/4~5/8	30	46	68	ZKG24	5.8
	-Z38-190	M18~M38	3/8~1 3/8	P 3/8~1	45	78	85	ZKN38	8.3
	-Z65-215	M36~M100	1~3 3/4	P 1~3	68	110(125)	110	ZKN65	9.0

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

★Please refer to P.51 for ZKG/ZKN tap collet.

★For Synchronized Tapping

ZH Tapper Chuck without tension/compression mechanism is available. It improves tap life remarkably by absorbing fine error completely with the small floating mechanism. Please use ZMK Tap Collet without torque-limited mechanism P.58 only for ZH Tapper Chuck.

★High pressure centre through tool coolant type and oil mist type are available. But, OZMK Tap Collet must be used. Please contact us.



ZH Tapper Chuck + ZMK Tap Collet

e.g. HSK 40A-ZH12CH-100
 HSK 50A-ZH12CH-100
 HSK 63A-ZH12CH-100
 -ZH24CH-130
 HSK100A-ZH12CH-105
 -ZH24CH-130