

NC DRILL CHUCK

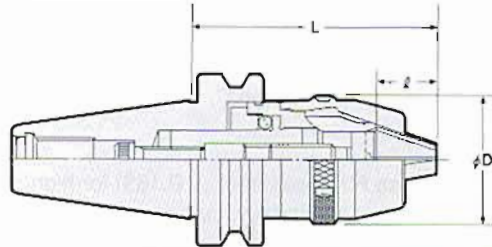
NIKKEN

BT-NPU



Being given favorable reception its Compactness, High Precision & High Rigidity.

- The shank body fabricated solidly with the keyless drill chuck eliminates the possibility of slipping-off.
- The attached tightening wrench prevents slipping-off of drill to ensure the safety in unmanned operation.
- Chucking torque three times as large as ever before. There is no possibility of slipping-off of the carbide drill etc.



Chucking Length (L)
NPU 8 : 18.8mm
NPU13 : 26.5mm

TAPER	Code No.	Chucking Dia	D	L		Weight (kg)
				MIN.	MAX.	
No.30	BT30-NPU 8- 70	0.3~8	36.5	76.5	83.5	0.7
	-NPU13- 95	1~13	48	102.1	113.1	1.2
No.40	BT40-NPU 8- 70	0.3~8	36.5	76.5	83.5	1.2
	(IT40) -110			115.5	122.5	1.5
	-155	160.5	167.5	1.7		
	-NPU13- 80	1~13	48	86.1	97.1	1.5
	-130			137.1	148.1	2.2
	-175			182.1	193.1	2.7
No.50	BT50-NPU 8- 85	0.3~8	36.5	87.5	94.5	3.8
	(IT50) -110			115.5	122.5	3.9
	-170			175.5	182.5	4.3
	-NPU13- 90	1~13	48	97.1	108.1	4.1
	-130			137.1	148.1	4.6
	-190			197.1	208.1	5.2

★ Centre Through Type Drill Chuck has different L-length & Code No. P.97, Pull Stud with Oil Hole P.166
★ Flange Through Type Drill Chuck has different L-length & Code No. P.98

★ Wrench is available as an option. NPU8: NPUL-8, NPU13: NPUL-13.
★ In case of IT40, IT40-NPU8-80 is the shortest length.
★ In case of IT50, IT50-NPU8-80 is the shortest length.

No Slipping encountered even when using Carbide Drill

Comparison data of drill chuck tightening torque

	Method of Tightening	Twisting moment	Comparison %
Keyless chuck on the market	by Hand	7Nm	100
NIKKEN NPU Chuck	by Hand	7Nm	100
NIKKEN NPU with wrench	Tightening with wrench	22Nm	314

3 Times of Chucking Torque

Manual tightening will do for a drilling work of non-through hole. However, an abnormal torque will be produced immediately before drilling through in case of the through hole as shown in Fig. (A), so that the drill will be broken due to its slippage. The NIKKEN NC drill chuck is so designed to cope with such slippage that grooves as shown by Fig. (B), are arranged around the chuck body to enable tightening there by using the attached wrench (C).



Straight Shank NC DRILL CHUCK

NIKKEN

D-NPU

For MULTI-LOCK Milling Chuck



Style	Code No.	Chucking Dia	L		Weight (kg)
			MIN.	MAX.	
32	D32-NPU 8	0.3~8	65.5	72.5	0.9
	-NPU13	1~13	84.5	96.5	1.4
42	D42-NPU 8	0.3~8	55.5	62.5	1.2
	-NPU13	1~13	79.5	91.5	1.7

★ φD : NPU 8 : 36.5mm Chucking Length : NPU 8 : 18.8mm
NPU13 : 48mm NPU13 : 26.5mm

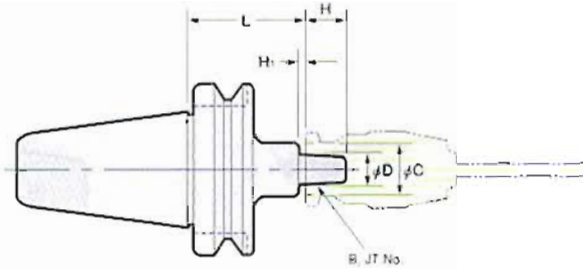
★ Wrench is available as an option. NPU8: NPUL-8, NPU13: NPUL-13

DRILL CHUCK ADAPTER

NIKKEN

B, JTA

Taper contact area of more than 80% ensures reliable drilling with no chattering accompanied.



DIN

TAPER	Code No.	B- No.	D	L	H	H1	C	Weight (kg)
No.30	BT30-B6 -45	B6	6.35	45	10	3	30	0.9
	-B10 -45	B10	10.095		14.5			0.9
	-B12 -45	B12	12.065		18.5	4		0.9
	-B16 -45	B16	15.733		24	5		1.0
No.40	BT40-B10 -45, 90	B10	10.095	45, 90	14.5	3	30	1.1, 1.4
	(IT40)-B12 -45, 90	B12	12.065		18.5	4		1.1, 1.4
	-B16 -45, 90	B16	15.733		24	5		1.1, 1.4
	-B18 -45, 90	B18	17.431		25	1.1, 1.4		
No.50	BT50-B10 -45, 105	B10	10.095	45, 105	14.5	3	30	4.0, 4.4
	(IT50)-B12 -45, 105	B12	12.065		18.5	4		4.0, 4.4
	-B16 -45, 105	B16	15.733		24	5		4.0, 4.4
	-B18 -45, 105	B18	17.431		25	4.0, 4.4		

JACOBS

TAPER	Code No.	JT- No.	D	L	H	H1	C	Weight (kg)
No.30	BT30-JTA6 -30	6	17.17	30	24	4	30	1.0
No.40	BT40-JTA2 -45, 90	2	14.199	45, 90	20	4	30	1.1, 1.4
	(IT40)-JTA6 -45, 90	6	17.17	45, 90	24			1.1, 1.4
No.50	BT50-JTA2 -45, 105	2	14.199	45, 105	20	4	30	4.0, 4.4
	(IT50)-JTA6 -45, 105	6	17.17	45, 105	24			4.0, 4.4

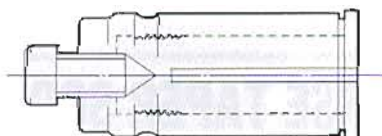
★Each Drill chuck Adapter is supplied without drill chuck. P.37

★For high speed and high accurate application, Slim Chuck P.37 is highly recommended.

NCK COLLET (for MULTI-LOCK MILLING CHUCK)

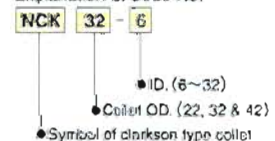
NIKKEN

NCK For CLARKSON end mills, please use NCK collets.



Code No.
NCK22-6, 10, 12, 16
NCK32-6, 10, 12, 16, 25
NCK42-6, 10, 12, 16, 25, 32

Explanation of Code No.



MORSE TAPER ADAPTER A TYPE

NIKKEN

MTA



- Taper contact area of more than 80% ensures high repeatability run-out accuracy.
- Side lock bolt prevent the cutting tool from slip down.

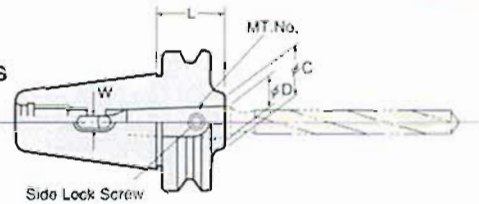


Fig. 1

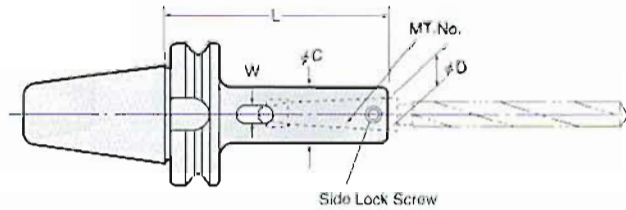


Fig. 2

TAPER	Code No. -L	MT. No.	D	L	C	W	Fig	Weight (kg)
No.30	BT30-MTA1- 45	1	12.065	45	20	5.6	1	0.8
	-MTA1-105			105	25		2	0.9
	-MTA2- 60	2	17.780	60	30	6.6	1	0.9
	-MTA2-120			120			2	1.2
	-MTA3- 80	3	23.825	80	40	8.4	1	1.0
No.40	BT40-MTA1- 45	1	12.065	45	25	5.6	1	1.0
	(IT40)-MTA1-120			120			2	1.3
	-MTA2- 60	2	17.780	60	32	6.6	1	1.1
	-MTA2-120			120			2	1.4
	-MTA3- 75	3	23.825	75	40	8.4	1	1.2
	-MTA3-135			135			2	1.8
	-MTA4- 95	4	31.267	95	50	12.4	1	1.4
	-MTA4-165			165			2	2.4
No.50	BT50-MTA1- 45	1	12.065	45	25	5.6	1	4.0
	(IT50)-MTA1-120			120			2	4.3
	-MTA1-180			180			2	4.3
	-MTA2- 45	2	17.780	45	32	6.6	1	4.0
	-MTA2-135			135			2	4.4
	-MTA2-180			180			2	4.6
	-MTA3- 45	3	23.825	45	40	8.4	1	3.9
	-MTA3-150			150			2	4.7
	-MTA3-180			180			2	4.9
	-MTA4- 75	4	31.267	75	50	12.4	1	4.0
	-MTA4-180			180			2	5.4
	-MTA5-105			105			5	44.399

★Centre through type MT Adapter has different dimensions.

★Flange through type MT Adapter has different dimensions.

★For High Pressure Coolant Through, please use Milling Chuck P.29, Slim Chuck P.37 or Side Lock Holder P.93 instead of MT Adapter.

Straight Shank MORSE TAPER SOCKET

NIKKEN

K-MT

For MULTI-LOCK Milling Chuck

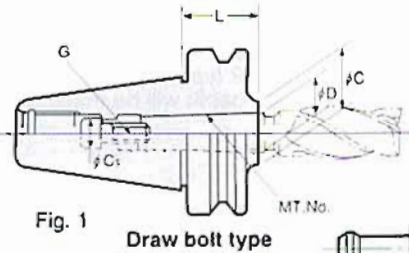


Style	Code No.
φ20	K20-MT1,2
φ25	K25-MT1,2
φ32	K32-MT1,2,3
φ42	K42-MT1,2,3,4

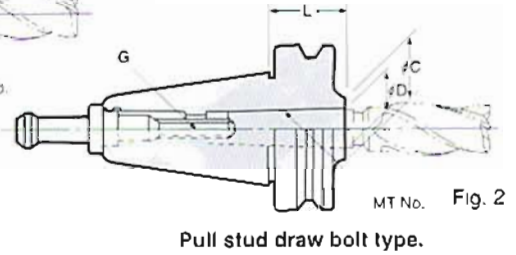
MORSE TAPER ADAPTER B TYPE with DRAW BOLT

NIKKEN

MTB



Taper contact area of more than 80% ensures reliable machining with no chattering accompanied.



TAPER	Code No.	MT.No.	D	L	C	C ₁	G	Fig	Weight (Kg)
No.30	BT30-MTB1- 45	1	12.065	45	25	10	M 6×1	1	0.8
	-MTB2- 25	2	17.780	25	32	—	M10×1.5	2	0.8
	-MTB3- 80	3	23.825	80	40	—	M12×1.75		1.0
No.40	BT40-MTB1- 45	1	12.065	45	25	10	M 6×1	1	1.0
	-MTB2- 60	2	17.780	60	32	13.5	M10×1.5		1.1
	-MTB3- 45	3	23.825	45	40	—	M12×1.75	2	1.1
	-MTB4- 85	4	31.267	85	50	—	M16×2		1.3
No.50	BT50-MTB1- 45	1	12.065	45	25	10	M 6×1	1	3.9
	-MTB2- 45	2	17.780		32	16	M10×1.5		3.9
	-MTB3- 60	3	23.825	60	40	18	M12×1.75		3.9
	-MTB4- 75	4	31.267	75	50	20.5	M16×2		3.9
	-MTB5-105-M16	5	44.399	105	70	—			4.2
	-MTB5-105						M20×2.5		2

★Adapter in Fig.1 is supplied with a special draw bolt.

★Morse Taper Adapters B type as illustrated in Fig.2 need the special pull stud. The pull stud is optional accessory. When ordering, please specify the pull stud code number.

PULL STUD for MORSE TAPER ADAPTER B TYPE



TAPER	Standard pull stud Code No.	MTB2	MTB3	MTB4	MTB5
No.30	PS- 16	PS-27	PS- 32	—	—
	- 17	-28	- 33	—	—
No.40	PS- 1	—	PS- 7	PS- 8	—
	- 2	—	- 29	- 10	—
	- 08-1	—	- 017	- 018	—
	- P5-1	—	- P51	- P52	—
	- G51	—	- G56	- G57	—
No.50	PS- 5	—	—	PS- 57	PS-15
	- 6	—	—	- 65	-61
	- 0	—	—	- 016	-06

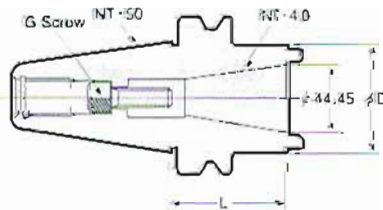
★For standard pull stud Code No. Please refer P.163

★The other type of pull stud is available, please specify the pull stud Code No.

SLEEVE for NT40 TOOL

NIKKEN

TSA



Code No.	L	D	G	Weight (Kg)
BT50-TSA40M-75	75	70	M16P=2	4.8
(IT50)-TSA40U-75			3/8"-11UNC	4.6

★G Screw is standard ANSI/ASME, when ordering, please specify M (metric) or U (inch).

★Above Code No. is the sleeve which internal taper is for conventional T40 (IT). With internal taper is BT40, G screw/TSA40-M16-70L (right) is necessary.