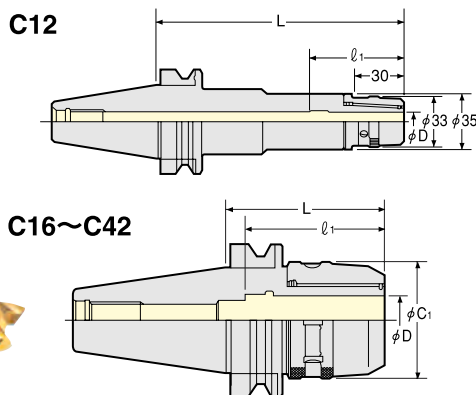
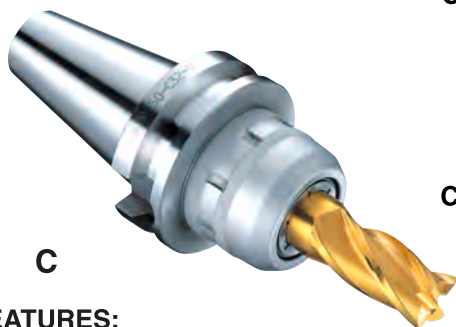


FEATURES:

- Doubled rigidity & increased cutting ability!
- Run-out Accuracy: 5 μ m at 3 $\times$ D

PAT.

TAPER	Code No.	C ₁	L	l ₁	Suitable Collet	Weight (kg)
No.30	BT30-C12- 55	33	58	58	CCK12 KM12	0.6
	-C16- 55	44	57	65	CCK16 KM16	0.7
	-C20- 65* ¹ , 75	52	67, 75	80	CCK20 CCNK20 KM20 NK20	1.0, 1.1
	-C25- 75* ² , 80	55	75, 82	68	CCK25 CCNK25 KM25 NK25	1.2, 1.3
	-C32- 90* ³ , 100	64	90, 100	68, 76	CCK32 CCNK32 KM32 NK32	1.4, 1.5
No.35	BT35-C12- 60	33	60	58	CCK12 KM12	1.0
	-C16- 60	44		65	CCK16 KM16	1.1
	-C20- 70	52	70	80	CCK20 CCNK20 KM20 NK20	1.3
	-C25- 75	60	75	68	CCK25 CCNK25 KM25 NK25	1.5
	-C32- 85	64	85	77	CCK32 CCNK32 KM32 NK32	1.8
No.40	BT40-C12- 65, 90, 120	33	65, 90, 120	58	CCK12 KM12	1.3, 1.6, 1.9
	-C16- 60, 90, 120	44	63, 90, 120	65	CCK16 KM16	1.4, 1.7, 2.0
	-C20- 70, 90, 105, 120	52	71, 90, 105, 120	80	CCK20 CCNK20 KM20 NK20	1.6, 1.8, 2.0, 2.2
	-C25- 70, 90, 120	60	70, 90, 120		CCK25 CCNK25 KM25 NK25	1.8, 2.1, 2.5
	-C32- 85, 105, 120	69	85, 105, 120	77, 90, 105	CCK32 CCNK32 KM32 NK32	2.1, 2.5, 2.8
No.45	BT45-C12-105	33	105	58	CCK12 KM12	3.0
	-C16-105	44		65	CCK16 KM16	3.2
	-C20-105	52		80	CCK20 CCNK20 KM20 NK20	3.5
	-C25-105	60			CCK25 CCNK25 KM25 NK25	3.8
	-C32- 85	69	85	105	CCK32 CCNK32 KM32 NK32	3.3
	-C42-110	86	110	125	CCK42 CCNK42 KM42 NK42	4.5
No.50	BT50-C12-105, 135, 165	33	105, 135, 165	58	CCK12 KM12	4.0, 4.3, 4.6
	-C16-105, 135, 165	44		65	CCK16 KM16	4.2, 4.5, 4.8
	-C20-105, 135, 165, 180	52	105, 135, 165, 180	80	CCK20 CCNK20 KM20 NK20	4.5, 4.8, 5.1, 5.4
	-C25-105, 135, 165	60	105, 135, 165		CCK25 CCNK25 KM25 NK25	4.8, 5.2, 5.6
	-C32- 90, 105, 120, 135, 165 -200, 250, 300	69	90, 105, 120, 135, 165 200, 250, 300	105	CCK32 CCNK32 KM32 NK32	4.3, 4.6, 5.1, 5.6, 6.4 7.8, 9.2, 10.6
	-C42- 95, 105, 120, 135, 165 -200, 250, 300	86	95, 105, 120, 135, 165 200, 250, 300	125	CCK42 CCNK42 KM42 NK42	5.5, 5.8, 6.6, 7.2, 8.6 9.5, 11.7, 14.0

★MULTI LOCK Milling Chuck is a Base Holder for machining centre.
The following straight shank tooling to suit Milling Chucks are available.

[S-C] Milling Chuck (Extension Type) P.31
[K-MMP] MINI-MINI Chuck P.33
[K-MMC] MINI-MINI Chuck P.33
[K-SK] Slim Chuck P.40
[S-SK] Long Size Slim Chuck P.40
[D-NPU] NC Drill Chuck P.45
[NZ] Tapper Chuck P.56

[K-MT] Morse Taper Socket P.47
[K-ZMAC] ZMAC Boring Bar P.89
[K-RAC] RAC Boring Bar P.89
[S-ZMACX] ZMAC Boring Bar for Deep Hole P.90
[K-DJ] DJ Boring Bar P.91
[K-SCA] Stub Arbor P.104
[S-MDPE] PRO-END MILL P.103
[MSO-AO-O] Straight shank shrink fit holder P.172

Explanation of the Code No.

BT40 - C32 - 85
 : Standard
 FS: Face Sealed
 : Nominal Gauge Length
 : Chucking capacity
 : Symbol of milling chuck
 : Shank No.

★Please refer P.159 for heavy duty type milling chuck with larger arbor diameter.

★Please refer P.31, P.32 for KM, NK, CCK, CCNK collet.

★CKFN-D and CKFN-DC (With O-ring) can be used for the direct chucking application, when centre through tool coolant. CCK collet and CKFN nut can be used for collet application.

★For "L" dimension of centre through coolant type milling chuck is same as the above standard, however, refer P.105 for Code No.

★For "L" dimension of flange through coolant type milling chuck is same as the above standard, however, refer P.107 for Code No.

★Spanner is available as an option. C12 (φ30): 9HC12, C12A (φ33): 9HC12A, C16: 9HC16, C20: 9HC22, C25 (φC1=55mm): 9HC22, C25 (φC1=60mm), C32 (φC1=64mm): 9HC25, C32 (φC1=69mm): 9HC32, C42: 9HC42

★Please note the acceptable shank tolerance is h7.

★The milling chucks marked *1, *2 and *3 may not be used by the restriction of the diameter under V flange of your M/C.

★FS (Face Seal) types are available for C25~C42 of BT40/BT50. There are 2 types; FSJ: With J groove, FS: Without J groove



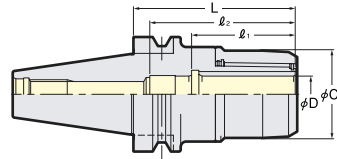
FS type
For machining
of aluminum

HIGH SPEED MILLING CHUCK

NIKKEN



C-G
High Pressure Centre Through
(MAX. 7MPa)



GFS type
For machining
of aluminum

High Speed

PAT.

TAPER	Code No.	D	C ₁	L	ℓ ₁	ℓ ₂	MAX. min ⁻¹	Suitable Collet	Weight (kg)
No.30	BT30-C12- 55G	12	33	58	48	58	40,000	CCK12 KM12	0.5
	-C16- 55G	16	40	57	50	65		CCK16 KM16	0.6
	-C20- 65G ^{*1} , 75G	20	48	67, 75	57	80	30,000	CCK20 CCNK20 KM20 NK20	0.9, 1.0
	-C25- 75G ^{*2} , 80G	25	55	75, 82	56	68	25,000	CCK25 CCNK25 KM25 NK25	1.2, 1.3
	-C32- 90G ^{*3} ,100G	32	62	90, 100	67	68, 76	10,000	CCK32 CCNK32 KM32 NK32	1.4, 1.5
No.40	BT40-C12- 65G, 90G	12	33	65, 90	48	58	30,000	CCK12 KM12	1.1, 1.3
	-C16- 60G, 90G	16	40	63, 90	50	65	25,000	CCK16 KM16	1.2, 1.5
	-C20- 70G, 90G	20	48	71, 90	57	80		CCK20 CCNK20 KM20 NK20	1.4, 1.7
	-C25- 70G, 90G	25	55	70, 90	60		20,000	CCK25 CCNK25 KM25 NK25	1.6, 2.0
	-C32- 85G,105G	32	68	85,105	67, 70	77, 90		CCK32 CCNK32 KM32 NK32	1.9, 2.3
No.50	BT50-C12-105G,135G	12	33	105,135	48	58	20,000	CCK12 KM12	3.9, 4.2
	-C16-105G,135G	16	40		50	65		CCK16 KM16	4.1, 4.4
	-C20-105G,135G	20	48		57	80	15,000	CCK20 CCNK20 KM20 NK20	4.4, 4.8
	-C25-105G,135G	25	55		60			CCK25 CCNK25 KM25 NK25	4.6, 5.2
	-C32- 90G,105G,120G	32	68	90,105,120	70	105	12,000	CCK32 CCNK32 KM32 NK32	4.3, 4.7, 5.2
	-C42- ^{*4} 95P,120P	42	86	95,120	73	125		CCK42 CCNK42 KM42 NK42	5.5, 6.6

★All high speed type milling chuck are centre through coolant type. Please use a stopper or CCK, CCNK collet, when endmill shank length is shorter than "ℓ₁" dimension.

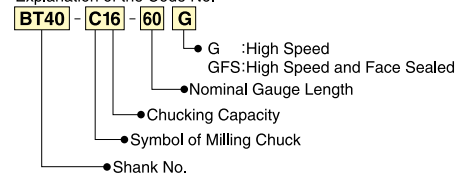
The Code No. of stopper for direct chucking
C20: 9MC20H, C25: 9MC25H (BT30-C25-75G: 9MC20HB), C32: 9MC32HD (BT40-C32-85G: 9MC32HDA, BT40-C32-105G: 9MC32HDB), C42: 9MC42H

★The milling chucks marked *1, *2 and *3 may not be used by the restriction of the diameter under V flange of your M/C.

★*4: The Code No. of the wrench for C42 is 9HC42.

★GFS (Face Seal) types are available for C25~C42 of BT40/BT50. There are 2 types;
GFSJ: With J groove, GFS: Without J groove

Explanation of the Code No.



GH Handle for HIGH SPEED TOOLING

NIKKEN



Torque adjustable GH Handle

GH

GH Handle has a two-way tightening/loosening ratchet on the handle that has been developed to provide quick and convenient loading of the tool. The **GH Handle** also dispenses with the need for notches on the nose ring.

PAT.



Code No.	Milling Chuck	Slim Chuck	MAJOR DREAM	VC Holder
GH 6*	—	SK 6-P / SKT 6	MDSK 6	—
GH10*	—	SK10-P / SKT10	MDSK10	VC6
GH12*	C12-G	SK13-P / SKT13	MDSK13	—
GH16*	C16-G	SK16-P / SKT16	MDSK16	VC13
GH20*	C20-G	SK20-P / SKT20	MDSK20	—
GH25*	C25-G	SK25-P / SKT25	MDSK25	—
GH32S	C32-G (Nose Ring: φ62mm)	—	—	—
GH32	C32-G (Nose Ring: φ68mm)	—	—	—

★Torque adjustable **GH Handle** is available for * marked handle.
The Code No. is GH6-TLS, GH10-TLS, GH16-TLS, GH25-TLS.



Tightening



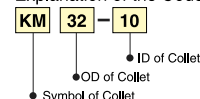
Loosening

STRAIGHT COLLET (KM COLLET)

NIKKEN



Explanation of the Code No.



KM : Standard
NK : Adjustable
CCK : Centre Coolant
CCNK : Centre Coolant, Adjustable

KM

Photo shows ANNIVERSARY type KM Collet.

○ means with internal grooves for gripping strongly to eliminate the oil.

Style	L	KM Collet Code No. (OD-ID)
KM12	40	KM12-2, 3, 4, 5, 6, 7, 8, 9, 10
KM16	47.5	KM16-2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12
KM20	53	KM20-2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16
KM22	57	KM22-3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20
KM25	59	KM25-3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22
KM32	64.5	KM32-3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 30
KM42	73(78)	KM42-3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 40

★[For Synchronous Tapping Program] : Special ID Collets for Tap Shank are also available.

★Other metric sizes and imperial sizes, 1/8, 1/4, 5/16, 3/8, 7/16, 1/2, 5/8, 3/4, 13/16, 7/8, 1, 1 1/8, 1 1/4, 1 1/2" are also available.

★The collets with bold character are the "ANNIVERSARY" type KM Collet.

Ordinary KM Collet can be used with "ANNIVERSARY" type Milling Chuck, but better performance can be found with the "ANNIVERSARY" type KM Collet.

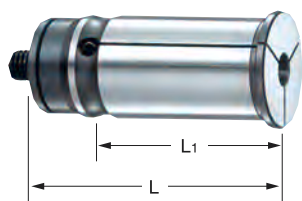
★Please note the acceptable shank tolerance is h6~h7.

★() : L dimension for KM42-12 or larger ID.

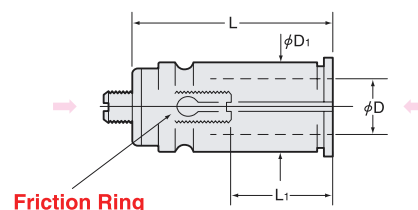
★Collet removal (9CKR) is an optional accessory for NC milling chuck.

STRAIGHT COLLET (NK COLLET)

NIKKEN



Cutter length adjustment on the collet is possible from front and back.



NK

○ means with internal grooves for gripping strongly to eliminate the oil.

Style	L	L1	NK Collet Code No. (OD-ID)
NK20	63	20~40	NK20-3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16
NK22	70	30~50	NK22-3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18
NK25	68	30~55	NK25-3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22
NK32	75	30~60	NK32-3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26
NK42	85(92)	30~65	NK42-3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32

★[For Synchronous Tapping Program] : Special ID Collets for Tap Shank are also available.

★Other metric sizes and imperial sizes, 1/8, 1/4, 5/16, 3/8, 7/16, 1/2, 5/8, 3/4, 13/16, 7/8, 1, 1 1/8, 1 1/4, 1 1/2" are also available.

★The collets with bold character are standard.

★Please note the acceptable shank tolerance is h6~h7.

★() : L dimension for NK42-12 or larger ID.

★Collet removal (9CKR) is an optional accessory for NC milling chuck.

Straight Shank MILLING CHUCK

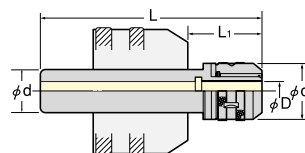
NIKKEN

S-C for Multi-Lock Milling Chuck

■For Extension



Photo. shows S32-C12-200



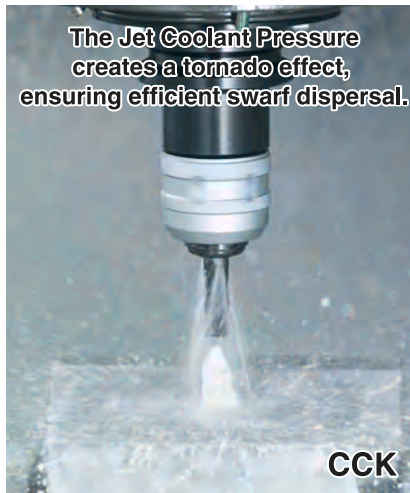
Style	Code No.	φ d	φ D	φ d ₁	L	MAX. L ₁	Collet	Weight (kg)
32	S32-C12-120, 160, 200	32	12	33	120, 160, 200	60, 100, 140	KM12	0.6, 0.9, 1.1
	-C16-130		16	44	130	70	KM16	0.7
	-C20-150		20	52	150	90	KM20	1.1
42	S42-C16-180	42	16	44	180	120	KM16	1.6
	-C20-185		20	52	185	125	KM20	1.7

★S32-C22-150, S42-C22-185, S42-C25-150 are also available as semi-standard.

★The MC and NC straight shank Milling Chuck is unified to the above Code No. ★Please refer P.31 for KM Collet.

CENTRE COOLANT STRAIGHT COLLET

NIKKEN

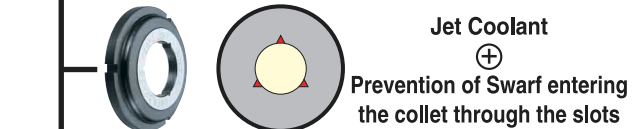


Suitable for all models of the
NIKKEN MILLING CHUCK

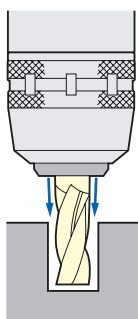
CCK Collet



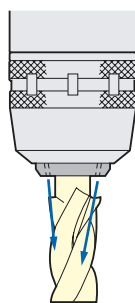
Front Nut



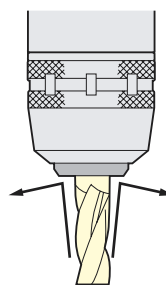
- J Coolant type Nut (For the cutter without oil hole)
- Nut with O-ring (For the oil hole cutter)
- Nut with multi coolant nozzles (For the cutter that the cutter dia. is larger than the shank dia.)



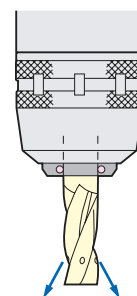
For grooving.



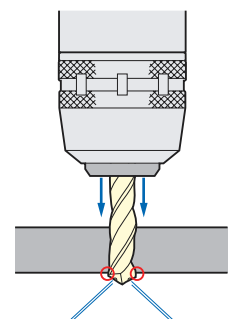
For cutters with cutting diameter which is larger than the shank diameter.



Prevention of the swarf contamination.



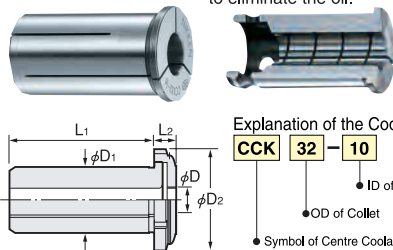
A front nut with an O-ring seal, for use with oil hole cutter, is also available as option.



Supply coolant to the shoulder when oil hole drill is passes through the hole.

CCK Collet

○ means with internal grooves for gripping strongly to eliminate the oil.



Explanation of the Code No.
CCK 32 - 10
• ID of Collet
• OD of Collet
• Symbol of Centre Coolant Collet

It can be used for the standard collet.

Style	φD1	φD2	L1	L2	CCK Collet Code No. (OD-ID)	Front Nut Code No.
CCK12	12	19.5	38	7	CCK12-3, 4, 5, 6, 8, 10	CKFN12
CCK16	16	28.5	45	8	CCK16-3, 4, 5, 6, 8, 10, 12	CKFN16
CCK20	20	33	50.5	8	CCK20-6, 8, 10, 12, 16	CKFN20
CCK25	25	39	56	8.5	CCK25-6, 8, 10, 12, 16, 20	CKFN25
CCK32	32	46.5, 43	61.5	9	CCK32-6, 8, 10, 12, 16, 20, 25	CKFN32, CKFN32T
CCK42	42	59.5	70(75)	9	CCK42-6, 8, 10, 12, 16, 20, 25, 32	CKFN42

★ Above bold figures indicate "ANNIVERSARY" type CCK Collet.

★ Please note the acceptable shank tolerance is h6~h7.

★ Other metric sizes and imperial sizes, 1/8, 1/4, 5/16, 3/8, 7/16, 1/2, 5/8, 3/4, 13/16, 7/8, 1, 1-1/8, 1-1/4, 1-1/2" are also available.

★ CKFN front nut and CCKL spanner are optional accessories.

★ Collet removal (9CKR) is an optional accessory for NC milling chuck.

CCNK Collet

○ means with internal grooves for gripping strongly to eliminate the oil.

Cutter length adjustment on the collet is possible from front and back.



Explanation of the Code No.
CCNK 32 - 10
• ID of Collet
• OD of Collet
• Symbol of Centre Coolant Collet for NC

It can be used for the standard collet.

Style	CCNK Collet Code No. (OD-ID)	Front Nut Code No.
CCNK20	CCNK20-6, 8, 10, 12, 16	CKFN20
CCNK25	CCNK25-6, 8, 10, 12, 16, 20	CKFN25
CCNK32	CCNK32-6, 8, 10, 12, 16, 20, 25	CKFN32, CKFN32T
CCNK42	CCNK42-6, 8, 10, 12, 16, 20, 25, 32	CKFN42

★ Please note the acceptable shank tolerance is h6~h7.

★ Other metric sizes and imperial sizes, 1/8, 1/4, 5/16, 3/8, 7/16, 1/2, 5/8, 3/4, 13/16, 7/8, 1, 1-1/8, 1-1/4, 1-1/2" are also available.

★ CKFN front nut and CCKL spanner are optional accessories.

★ Collet removal (9CKR) is an optional accessory for NC milling chuck.



CKFN25-20MN
32-25MN
42-32MN

★ Front Nut fitted with an O-ring is also available. e.g. The Code No. is CKFN32-10C

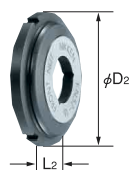


★ The front nut for direct chucking is also available. e.g. CKFN20-20D, CKFN25-25D, CKFN32-32D

★ The Code No. fitted with O-ring is : e.g. CKFN20-20DC, CKFN25-25DC, CKFN32-32DC



Front Nut



Explanation of the Code No.
CKFN 32 - 10
• ID of Collet
• OD of Collet
• Symbol of Front Nut

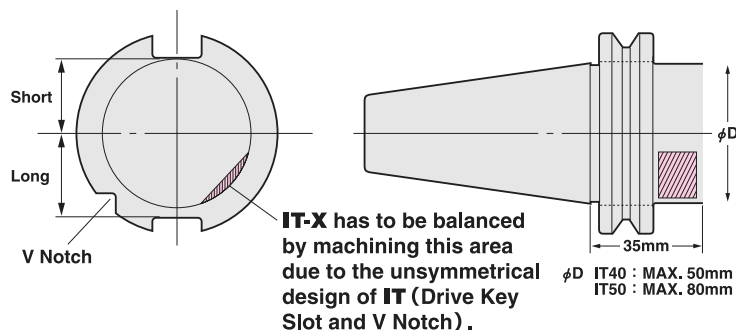
Style	φD2	L2	Front Nut Code No.
CKFN12	19.5	7	CKFN12 -3, 4, 5, 6, 8, 10
CKFN16	28.5	8	CKFN16 -3, 4, 5, 6, 8, 10, 12
CKFN20	33	8	CKFN20 -6, 8, 10, 12, 16
CKFN25	39	8.5	CKFN25 -6, 8, 10, 12, 16, 20
CKFN32	46.5	9	CKFN32 -6, 8, 10, 12, 16, 20, 25
CKFN32T	43	9	CKFN32T-6, 8, 10, 12, 16, 20, 25
CKFN42	59.5	9	CKFN42 -6, 8, 10, 12, 16, 20, 25, 32

★ For C32 there are 2 sizes, CKFN32 = for nose ring diameter of φ69mm, CKFN32T = for nose ring diameter of φ64mm.

★ The spanner is available as an option.

CKFN12:CCKL12, CKFN16:CCKL16, CKFN20:CCKL20, CKFN25, CKFN32T:CCKL25, CKFN32:CCKL32, CKFN42:CCKL42

What is IT Shank Tooling?



IT shank is based on ISO 7388/1-'83 (DIN69871-'90) and its flange has an unsymmetrical shape.

-Depth of Drive Key Slots are different.

-V Notch on one side.

Therefore, NIKKEN IT-X shank has a groove at bottom of V groove for mass balancing.

Diameter "D" below the flange is restricted under the above standard. Normally the holder for large diameter cutter has a large body, therefore, large diameter at "D" is expected. However, in case of IT Shank large diameter tool holder, "D" is smaller than the front end part due to the standard, and the length from gauge line is also different from BT Shank tool holders.

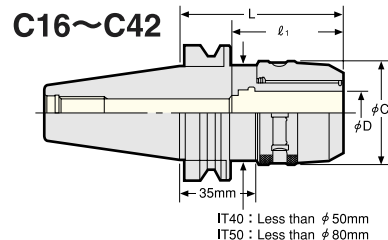
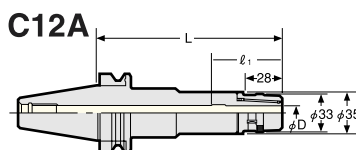
IT MULTI LOCK MILLING CHUCK



ANNIVERSARY Type

— Powerful gripping torque—

- High rigidity
- High precision
- Compact design



TAPER	ITNo. -D -L	Code No.	C ₁	L	l ₁	Collet	Weight (kg)
No.40	IT40-C12- 65, 90, 120 ^{*1}		33	65, 90, 120	58	KM12 CCK12	1.3, 1.6, 1.8
	-C16- 60, 90, 120 ^{*1}		44	60, 90, 120	65	KM16 CCK16	1.4, 1.7, 2.0
	-C20- 80, 90, 105, 120 ^{*2}		52	80, 90, 105, 120	80	KM20 CCK20 CCNK20	1.6, 1.8, 2.0, 2.2
	-C25- 85, 105, 120		60	85, 105, 120	80	KM25 CCK25 CCNK25	2.1, 2.3, 2.5
	-C32- 95, 105, 120		64	95, 105, 120	82, 95, 105	KM32 CCK32 CCNK32	2.1, 2.5, 2.8
No.50	IT50-C12-105, 135, 165 ^{*1}		33	105, 135, 165	58	KM12 CCK12	4.0, 4.3, 4.6
	-C16-105, 135, 165 ^{*1}		44	105, 135, 165	65	KM16 CCK16	4.2, 4.6, 5.1
	-C20-105, 135, 165, 180 ^{*1}		52	105, 135, 165, 180	80	KM20 CCK20 CCNK20	4.5, 5.1, 5.7, 6.0
	-C25-105, 135, 165		60	105, 135, 165	80	KM25 CCK25 CCNK25	4.8, 5.2, 5.6
	-C32- 85, 105, 120, 135, 165		69	85, 105, 120, 135, 165	105	KM32 CCK32 CCNK32	4.1, 4.6, 5.1, 5.6, 6.4
	-C42- 95, 105, 135, 165 ^{*1}		86	95, 105, 135, 165	125	KM42 CCK42 CCNK42	5.2, 5.5, 7.2, 8.6

★Spanner is available as an option.

C12(φ30):9HC12, C12A(φ33):9HC12A, C16:9HC16, C20: 9HC20, C25: 9HC25, C32&φC1=64:9HC25, C32:9HC32, C42:9HC42

★Please note the acceptable shank tolerance is h7.

★For KM, CCK and CCNK Collet, please refer P.31, P.32.

★For heavy duty milling, please grip the end mill shank longer than l₁.

★For Milling Chucks marked *2, NK Collet, CCNK Collet, ONK Collet and OJK Collet can not be used.

★Milling chucks marked *1 are available as an option.

★IT50-C32-200, 250 and IT50-C42-200,250 are also available as an option.

★C22 style is also available.

★Please add "C" for the centre through tool coolant type.

IT40-C20C-80, 90, 105, 120 IT50-C20C-105, 135, 165^{*1}
-C25C-85, 105 -C25C-105, 135, 165^{*1}
-C32C-95, 105, 120 -C32C- 85, 105, 135, 165
-C42C-105

★Please add "F" for the flange through tool coolant type.

IT40-C20F- 90, 120^{*1} IT50-C20F-105, 135, 165^{*1}
-C25F- 90, 120^{*1} -C25F-105, 135, 165^{*1}
-C32F-105 -C32F-105, 135, 165
-C42F-120



High Speed Milling Chuck



GH Handle P.30

Code No.	MAX. (min ⁻¹)	Code No.	MAX. (min ⁻¹)
IT40X-C12- 65G, 90G	30,000	IT50X-C12-105G, 135G ^{*1}	20,000
-C16- 60G, 90G	25,000	-C16-105G, 135G ^{*1}	
-C20- 80G, 90G	20,000	-C20-105G, 135G ^{*1}	
-C25- 85G		-C25-105G, 135G ^{*1}	15,000
-C32- 95G, 105G		-C32- 85G, 105G, 120G	
		-C42- 95P ^{*2} , 105P	

★For Milling Chucks except *2, Stopper for Direct Chucking, ONK Collet and OJK Collet can be used.

★The extended gauge length (L) is available. Please contact with us.

★The end mill shank tolerance is recommended to be h6.

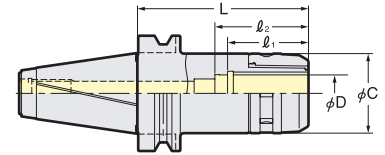
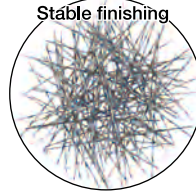
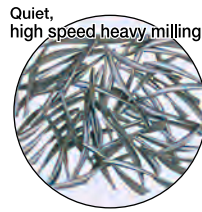
3LOCK MBT MULTI LOCK MILLING CHUCK

NIKKEN



C
Centre Through
MAX. 7MPa

The cutting chips show us the actual machining capability.



Standard

3LOCK tooling (MBT) can be used as the triple contact tooling on the M/C where spindle is BT double face contact system.

PAT.

TAPER	Code No.	D	C	L	l_1	l_2	Weight (kg)	Collet
No.40	MBT40-C12- 90,120	12	33	90, 120	48	58	1.6, 1.9	(KM12 CCK12)
	-C16- 60, 90,120	16	44	63, 90, 120	50	65	1.4, 1.7, 2.0	(KM16 CCK16)
	-C20- 70, 90,120	20	52	71, 90, 120	57	80	1.6, 1.8, 2.2	(KM20 CCK20 CCNK20)
	-C25- 70, 90,120	25	60	70, 90, 120	60		1.8, 2.1, 2.5	(KM25 CCK25 CCNK25)
	-C32- 85,105,120	32	69	85, 105, 120	64,70,70	75,81,81	2.1, 2.5, 2.8	(KM32 CCK32 CCNK32)
No.50	MBT50-C12-105,165	12	33	105, 165	48	58	4.0, 4.6	(KM12 CCK12)
	-C16-105,165,200	16	44	105, 165, 200	50	65	4.2, 4.8, 5.1	(KM16 CCK16)
	-C20-105,165,200	20	52		57	80	4.5, 5.1, 5.7	(KM20 CCK20 CCNK20)
	-C25-105,135,165	25	60	105, 135, 165	60		4.8, 5.2, 5.6	(KM25 CCK25 CCNK25)
	-C32- 90,105,120,135,165 -200,250,300	32	69	90,105,120,135,165 200,250,300	70	81	4.3,4.6,5.1,5.6,6.4 7.8,9.2,10.6	(KM32 CCK32 CCNK32)
	-C42- 95,120,135,165 -200,250,300	42	86	95,120,135,165 200,250,300	73	85,110,125,125 125,125,125	5.5,6.6,7.2,8.6 9.5,11.7,14.0	(KM42 CCK42 CCNK42)

★Spanner is available as an option.

C12 (φC=φ30) : 9HC12 C12A (φC=φ33) : 9HC12A C16 : 9HC16

C20 : 9HC22 C25 : 9HC25 C32 : 9HC32 C42 : 9HC42

★Please note the acceptable shank tolerance is h6~7.

★For heavy duty milling, please grip the cutter shank longer than l_1 .

★NK and CCNK collet can not be used for the chucks marked *.

★For C32, l_2 dimension longer than standard is available.

MBT40-C32D- 105 MBT50-C32D- 105

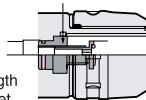
★Centre through tool coolant is available for all models. When the cutter shank length is shorter than l_1 , please use the stopper for direct chucking or CCK/CCNK collet.

The Code No. of the Stopper for direct chucking is : C20 : 9MC20, C25 : 9MC25, C32 : 9MC32, C42 : 9MC42

★Please refer P.142 for KM and CCK collet.

★Please add "F" for the flange through tool coolant type.

Stopper for Direct Chucking



Explanation of the Code No.

MBT40 - C20 - 70

•Nominal Gauge Length

•Chucking Capacity

•Symbol of Milling Chuck

•Shank No.

3LOCK MBT HIGH SPEED MILLING CHUCK

NIKKEN

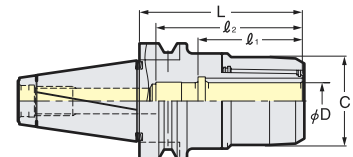


C-G
Centre Through
MAX. 7MPa

ANNIVERSARY Type

—Powerful gripping torque—

- High rigidity
- High precision
- Compact design



High Speed

3LOCK tooling (MBT) can be used as the triple contact tooling on the M/C where spindle is BT double face contact system.

PAT.

TAPER	Code No.	D	C	L	l_1	l_2	Weight (kg)	MAX. (min ⁻¹)	Collet
No.40	MBT40-C12- 90G	12	33	90	48	58	1.6	25,000	(KM12 CCK12)
	-C16- 60G, 90G	16	40	63, 90	50	65	1.4, 1.7		(KM16 CCK16)
	-C20- 70G, 90G	20	48	71, 90	57	80	1.6, 1.8	20,000	(KM20 CCK20 CCNK20)
	-C25- 70G, 90G,120G	25	55	70,90,120	60		1.8, 2.1, 2.5		(KM25 CCK25 CCNK25)
	-C32- 85G,105G	32	68	85, 105	64,70	75,81	2.1, 2.5		(KM32 CCK32 CCNK32)
No.50	MBT50-C12-105G	12	33	105	48	58	4.0	20,000	(KM12 CCK12)
	-C16-105G	16	40		50	65	4.2		(KM16 CCK16)
	-C20-105G	20	48		57	80	4.5	15,000	(KM20 CCK20 CCNK20)
	-C25-105G	25	55		60		4.8		(KM25 CCK25 CCNK25)
	-C32- 90G,105G,120G	32	68	90,105,120	70	81	4.3,4.6,5.1	12,000	(KM32 CCK32 CCNK32)
	-C42- 95P,120P	42	86	95,120	73	85,110	5.5,6.6		(KM42 CCK42 CCNK42)

★Please note the acceptable shank tolerance is h6.

★Please refer P.30 for KM and CCK collet.

★GH Handle is available as an option. P.31

C12G : GH12, C16G : GH16, C20G : GH20, C25G : GH25, C32G : GH32

★Spanner for C42P is 9HC42.

★NK and CCNK collet can not be used for the chucks marked *.

★Centre through tool coolant is available for all models. When the cutter shank length is shorter than l_1 , please

use the stopper for direct chucking or CCK/CCNK collet.

The Code No. of the Stopper for direct chucking is : C20 : 9MC20, C25 : 9MC25, C32 : 9MC32, C42 : 9MC42



Explanation of the Code No.

MBT40 - C20 - 70 G

•Symbol of High Speed

•Nominal Gauge Length

•Chucking Capacity

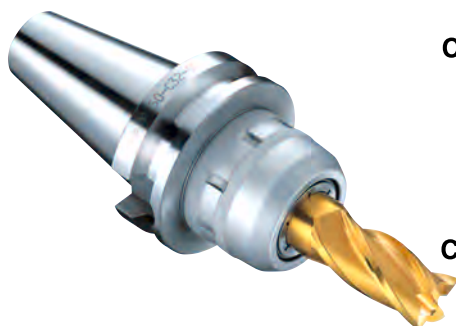
•Symbol of Milling Chuck

•Shank No.

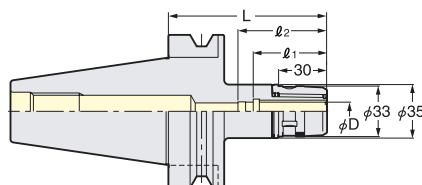
2LOCK MILLING CHUCK

NIKKEN

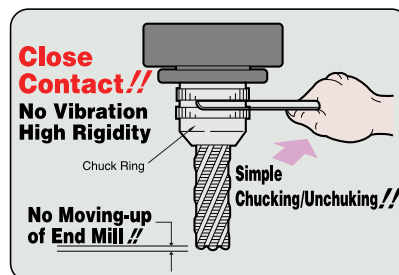
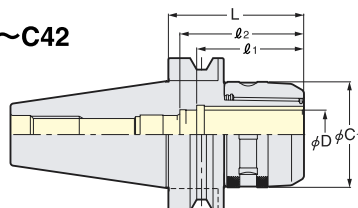
JAPAN, USA, FRANCE, ITALY, SPAIN, KOREA, TAIWAN PAT.
GERMANY PAT.P



C12



C16~C42



Centre Through
MAX. 7MPa

2LOCK tooling (NBT) can be used as the double face contact tooling on the M/C where spindle is BT double face contact system.
2LOCK tooling can also be used on the M/C with BT standard spindle.

TAPER	Code No.	C ₁	L	l ₁	l ₂	Collet	Weight (kg)
No.30	NBT30-C12- 55	33	58	48	58	CCK12 KM12	0.6
	-C16- 55	44	57	50	65	CCK16 KM16	0.7
	-C20- 65*1, 75	52	67, 75	57	80	CCK20 CCNK20 KM20 NK20	1.0, 1.1
	-C25- 75*2, 80	55	75, 82	56	68	CCK25 CCNK25 KM25 NK25	1.2, 1.3
	-C32- 90*3, 100	64	90, 100	67	68, 76	CCK32 CCNK32 KM32 NK32	1.4, 1.5
No.40	NBT40-C12- 65, 90, 120	33	65, 90, 120	48	58	CCK12 KM12	1.3, 1.6, 1.9
	-C16- 60, 90, 120	44	63, 90, 120	50	65	CCK16 KM16	1.4, 1.7, 2.0
	-C20- 70, 90, 105, 120	52	71, 90, 105, 120	57	80	CCK20 CCNK20 KM20 NK20	1.6, 1.8, 2.0, 2.2
	-C25- 70, 90, 120	60	70, 90, 120	60		CCK25 CCNK25 KM25 NK25	1.8, 2.1, 2.5
	-C32- 85, 105, 120	69	85, 105, 120	64, 70, 70	77, 81, 81	CCK32 CCNK32 KM32 NK32	2.1, 2.5, 2.8
No.50	NBT50-C12-105, 135, 165	33	105, 135, 165	48	58	CCK12 KM12	4.0, 4.3, 4.6
	-C16-105, 135, 165	44		50	65	CCK16 KM16	4.2, 4.5, 4.8
	-C20-105, 135, 165, 180	52	105, 135, 165, 180	57	80	CCK20 CCNK20 KM20 NK20	4.5, 4.8, 5.1, 5.4
	-C25-105, 135, 165	60	105, 135, 165	60		CCK25 CCNK25 KM25 NK25	4.8, 5.2, 5.6
	-C32- 90, 105, 120, 135, 165 -200, 250, 300	69	90, 105, 120, 135, 165 200, 250, 300	70	81	CCK32 CCNK32 KM32 NK32	4.3, 4.6, 5.1, 5.6, 6.4 7.8, 9.2, 10.6
	-C42- 95, 105, 120, 135, 165 -200, 250, 300	86		73	125	CCK42 CCNK42 KM42 NK42	5.5, 5.8, 6.6, 7.2, 8.6 9.5, 11.7, 14.0

★MULTI LOCK Milling Chuck is a Base Holder for machining centre.

The following straight shank tooling to suit Milling Chucks are available.

[S-C] Milling Chuck (Extension Type) P.31

[K-MMP] MINI-MINI Chuck P.33

[K-MMC] MINI-MINI Chuck P.33

[K-SK] Slim Chuck P.40

[S-SK] Long Size Slim Chuck P.40

[D-NPU] NC Drill Chuck P.45

[NZ] Tapper Chuck P.56

[K-MT] Morse Taper Socket P.47

[K-ZMAC] ZMAC Boring Bar P.89

[K-RAC] RAC Boring Bar P.89

[S-ZMACX] ZMAC Boring Bar for Deep Hole P.90

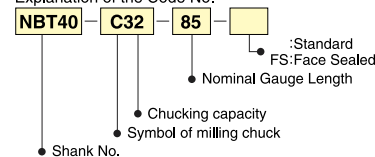
[K-DJ] DJ Boring Bar P.91

[K-SCA] Stub Arbor P.104

[S-MDPE] PRO-END MILL P.103

[MSO-AO-O] Straight shank shrink fit holder P.172

Explanation of the Code No.



★Please refer P.159 for heavy duty type milling chuck with larger arbor diameter.

★Please refer P.161 for KM, NK, CCK, CCNK collet.

★CKFN-D and CKFN-DC (With O-ring) can be used for the direct chucking application, when centre through tool coolant. CCK collet and CKFN nut can be used for collet application.

★For "L" dimension of centre through coolant type milling chuck is same as the above standard, however, refer P.105 for Code No.

★For "L" dimension of flange through coolant type milling chuck is same as the above standard, however, refer P.107 for Code No.

★Please refer P.57 to use milling chuck as a tap holder for synchronizing tapping.

C25 (φC1=55mm) : 9HC22, C25 (φC1=60mm) : 9HC25, C32 (φC1=64mm) : 9HC25, C32 (φC1=69mm) : 9HC32, C42 : 9HC42

★Please note the acceptable shank tolerance is h7.

★The milling chucks marked *1, *2 and *3 may not be used by the restriction of the diameter under V flange of your M/C.

★FS (Face Seal) types are available for C25~C42 of BT40/BT50. There are 2 types; FSJ: With J groove, FS: Without J groove

★Heavy duty type milling chucks with larger arbor diameter are available. Please add "R" at the end of Code No.

NBT50-C32-200R, 250R, 300R

-C42-200R, 250R, 300R



FS type
For machining
of aluminum

2LOCK HIGH SPEED MILLING CHUCK

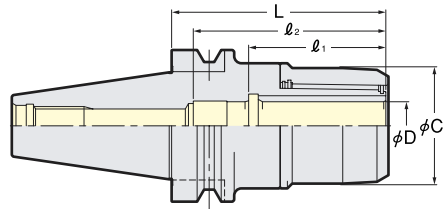
NIKKEN

JAPAN, USA, FRANCE, ITALY, SPAIN, KOREA, TAIWAN PAT.
GERMANY PAT.P

Anniversary type & High Speed
Applicable for High Pressure
Centre Through Coolant by CCK Collet



C-G



GFS type
For machining
of aluminum

Centre Through
MAX. 7MPa

2LOCK tooling (NBT) can be used as the double face contact tooling on the M/C where spindle is BT double face contact system.
2LOCK tooling can also be used on the M/C with BT standard spindle.

High Speed

PAT.

TAPER	Code No.	D	C ₁	L	ℓ ₁	ℓ ₂	MAX. min ⁻¹	Collet	Weight (kg)
No.30	NBT30-C12- 55G	12	33	58	48	58	40,000	CCK12 KM12	0.5
	-C16- 55G	16	40	57	50	65		CCK16 KM16	0.6
	-C20- 65G* ¹ , 75G	20	48	67, 75	57	80	30,000	CCK20 CCNK20 KM20 NK20	0.9, 1.0
	-C25- 75G* ² , 80G	25	55	75, 82	56	68	25,000	CCK25 CCNK25 KM25 NK25	1.2, 1.3
	-C32- 90G* ³ ,100G	32	62	90, 100	67	68, 76	10,000	CCK32 CCNK32 KM32 NK32	1.4, 1.5
No.40	NBT40-C12- 65G, 90G	12	33	65, 90	48	58	30,000	CCK12 KM12	1.1, 1.3
	-C16- 60G, 90G	16	40	63, 90	50	65	25,000	CCK16 KM16	1.2, 1.5
	-C20- 70G, 90G	20	48	71, 90	57	80		CCK20 CCNK20 KM20 NK20	1.4, 1.7
	-C25- 70G, 90G	25	55	70, 90	60	20,000	CCK25 CCNK25 KM25 NK25	1.6, 2.0	
	-C32- 85G,105G	32	68	85,105	64, 70		77, 81	CCK32 CCNK32 KM32 NK32	1.9, 2.3
No.50	NBT50-C12-105G,135G	12	33	105,135	48	58	20,000	CCK12 KM12	3.9, 4.2
	-C16-105G,135G	16	40		50	65		CCK16 KM16	4.1, 4.4
	-C20-105G,135G	20	48		57	80	CCK20 CCNK20 KM20 NK20	4.4, 4.8	
	-C25-105G,135G	25	55		60	15,000	CCK25 CCNK25 KM25 NK25	4.6, 5.2	
	-C32- 90G,105G,120G	32	68	90,105,120	70		81	CCK32 CCNK32 KM32 NK32	4.3, 4.7, 5.2
	-C42- ^{*4} 95P,120P	42	86	95,120	73	125	12,000	CCK42 CCNK42 KM42 NK42	5.5, 6.6

★GH Handle is available as an option. Please refer P.30

C12-G:GH12, C16-G:GH16, C20-G:GH20, C25-G:GH25, C32-G (ϕC₁=68mm):GH32, C32-G (ϕC₁=62mm):GH32S,

★Please note the acceptable shank tolerance is h₆.

★Please add "RP" at the end of Code No. for Rust Proof Treatment Milling Chuck. e.g. NBT40-C32-85G-RP

★Centre Through Coolant application :

For direct chucking, CKFN-D nut is recommended.

With a collet, CCK collet and CKFN nut are recommended.

★NBT30-C20-65G marked * may not be used by the M/C restriction. In this case, please use NBT30-C20-75G.

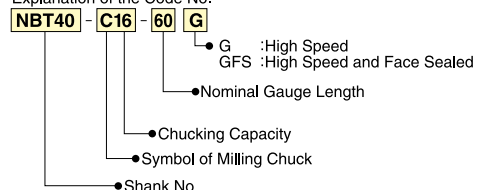
★NBT50-C42-110P is also available.

★Please refer P.161 for KM, NK, CCK and CCNK collet.



CCK collet & CKFN nut
The Jet Coolant Pressure
creates a tornado effect,
ensuring efficient swarf
dispersal.

Explanation of the Code No.



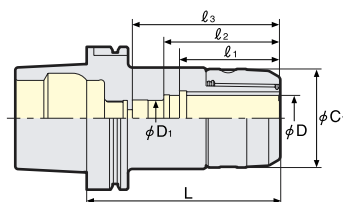
HSK MULTI LOCK MILLING CHUCK

NIKKEN



C
Centre Through
MAX. 7MPa
Photo shows High Speed Milling Chuck

ANNIVERSARY Type
— Powerful gripping torque —
● High rigidity
● High precision
● Compact design



High Speed

PAT.

TAPER	Code No.	C ₁	D	D ₁	ℓ ₁	ℓ ₂	ℓ ₃	MAX.min ⁻¹	Collet	Weight (kg)
HSK 40A	HSK 40A-C12- 80G	33	12	12	49	53	58	30,000	KM12 CCK12	0.5
	-C16- 80G	40	16	16	51	57	60		KM16 CCK16	0.7
	-C20- 100G ^{*2}	48	20	-	-	-	57		KM20 CCK20	1.2
HSK 50A	HSK 50A-C12- 80G	33	12	12	49	53	56	30,000	KM12 CCK12	0.8
	-C16- 90G	40	16	16	51	57	60		KM16 CCK16	1.0
	-C20- 95G ^{*2}	48	20	20	58	65	68		KM20 CCK20	1.2
HSK 63A	HSK 63A-C12- 90G	33	12	12	49	53	58	30,000	KM12 CCK12	1.3
	-C16- 75G ^{*2} , 90G, 120G	40	16	-, 16, 16	-, 51, 51	-, 57, 57	50, 60, 65	25,000	KM16 CCK16	1.2, 1.4, 1.7
	-C20- 85G ^{*2} , 95G ^{*2} , 110G	48	20	-, 20, 20	-, 58, 58	-, 65, 72	60, 68, 80		KM20 CCK20	1.5, 1.6, 1.8
	-C25- 90G ^{*2} , 100G ^{*2} , 130G	55	25	25	59, 61, 61	62, 72, 72	65, 75, 80	20,000	KM25 CCK25	1.7, 1.9, 2.3
	-C32- 110G ^{*2} , 130G	68	32	32, 25	66, 70	80, 81	83, 103		KM32 CCK32	2.2, 2.6
HSK 100A	HSK100A-C16- 90G, 135G	40	16	16	52	56	60	2,000	KM16 CCK16	2.4
	-C20-115G, 135G	48	20	20	58	66	80		KM20 CCK20	3.0, 3.6
	-C25-115G, 135G	55	25	25	61	72	80	15,000	KM25 CCK25	3.3, 3.6
	-C32-115G, 135G, 165G	68	32	25	67, 70, 70	78, 81, 81	83, 103, 107	12,000	KM32 CCK32	3.2, 4.0, 4.8
	-C42- 115P ^{*2} , 165P	86	42	42	74	80, 115	83, 125		KM42 CCK42	4.8, 7.0

★Please note the acceptable shank tolerance is h₆.
★Please refer to P.206 for KM and CCK collet.
★GH Handle is available as an option. P.30
C12G : GH12, C16G : GH16, C20G : GH20, C25G : GH25, C32G : GH32
★NK and CCNK collet can not be used for the chucks marked *.



★GFS type P.30 is available for C25 and C32.



GFS type
For machining
of aluminum

Standard

HSK40A-C12-80	HSK50A-C12-80	HSK63A-C12- 90	HSK100A-C16- 90, 135
-C16-80	-C16-90	-C16- 75 ^{*2} , 90, 120	-C20-115, 135
-C20- 100 ^{*2}	-C20- 95 ^{*2}	-C20- 85 ^{*2} , 95 ^{*2} , 110	-C25-115, 135
	-C25-100	-C25- 90 ^{*2} , 100 ^{*2} , 130	-C32-115, 135, 165, 200, 250
	-C32-115	-C32- 110 ^{*2} , 130	-C42- 115 ^{*2} , 165, 200, 250

★Spanner is available as an option.
C12 (φC=φ30) : 9HC12 C12A (φC=φ33) : 9HC12A C16 : 9HC16
C20 : 9HC22 C25 : 9HC25 C32 : 9HC32 C42 : 9HC42
★Please note the acceptable shank tolerance is h₆~7.
★For heavy duty milling, please grip the cutter shank longer than ℓ₁.



★NK and CCNK collet can not be used for the chucks marked *.
★Please refer to P.30 for KM and CCK collet.
★C22 style is also available.
★HSK100A-C32-200, 250 and HSK100A-C42-200, 250 are also available as an option.

TAPER	Code No.	C ₁	D	D ₁	ℓ ₁	ℓ ₂	ℓ ₃	Collet	MAX.min ⁻¹	Weight (kg)
HSK 40E	HSK 40E-C12- 80G	33	12	12	49	53	58	KM12 CCK12	30,000	0.5
	-C16- 80G	40	16	16	51	57	60	KM16 CCK16		0.7
	-C20- 100G ^{*2}	48	20	-	-	-	57	KM20 CCK20		1.2
HSK 50E	HSK 50E-C12- 80G	33	12	12	46	53	56	KM12 CCK12	30,000	0.9
	-C16- 80G ^{*3}	40	16	16	51	57	60	KM16 CCK16		1.0
	-C20- 95G	48	20	20	58	65	68	KM20 CCK20		1.2
HSK 63E	HSK 63E-C12- 90G	33	12	12	49	53	58	KM12 CCK12	30,000	1.3
	-C16- 90G	40	16	16	51	57	60, 65	KM16 CCK16	25,000	1.4
	-C20- 95G, 110G	48	20	20	58	65, 72	68, 80	KM20 CCK20		1.5, 1.8
	-C25-100G	55	25	25	61	72	75	KM25 CCK25	20,000	1.9
	-C32-110G	68	32	32	66	80	83	KM32 CCK32		2.2

★The lubrication pipe can not be used for the milling chucks marked *3.
★Please use TCL-GH tool clamped for HSK-E and HSK-F. P.218

★For milling chucks marked *2, NK, CCNK, ONK and OJK collet can not be used. P.206

TAPER	Code No.	C ₁	D	D ₁	ℓ ₁	ℓ ₂	ℓ ₃	Collet	MAX.min ⁻¹	Weight (kg)
HSK 63F	HSK 63F-C12- 90G	33	12	12	49	51	58	KM12 CCK12	30,000	1.3
	-C16- 90G	40	16	16	51	57	60	KM16 CCK16	25,000	1.4
	-C20- 95G, 110G	48	20	20	58	65, 72	68	KM20 CCK20		1.5
	-C25-100G	55	25	25	61	72	75	KM25 CCK25	20,000	1.9
	-C32-110G	68	32	32	66	80	83	KM32 CCK32		2.2