

X-Treme Shank HSK X-Treme Chuck (INCH Series) NIKKEN

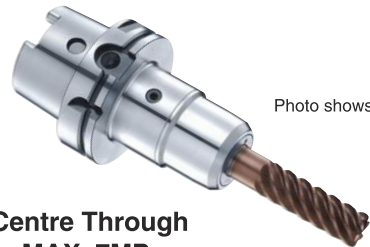
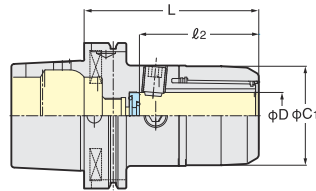


Photo shows HSK Shank.



Explanation of the Code No.
HSK100A - C1 1/4EX - 120 - J
● J: J-Type (Jet Groove)
● Nominal Gauge Length
● X-Treme Chuck
● Chucking Capacity
● Symbol of Milling Chuck
● Shank No.

Centre Through
MAX. 7MPa

* Inch series is for USA and semi-standard items.

PAT.P

TAPER	Code No. (D - L)	C ₁	L	L ₂	End mill with oil hole		Handle	Weight (kg)
					Stopper*	Face cap*		
HSK100A	HSK100A-C 1/2EX- 95	40	95	57	9MC 1/2HEX- 6L	9C 1/2SL-FS-EX-A	GH16	2.7
	-C 5/8EX-105	48	105	67	9MC 5/8HEX-6.5L	9C 16SL-FS-EX-A	GH20	3.0
	-C 3/4EX-115	55	115	70	9MC 3/4HEX- 7L	9C 3/4-FS-EX-A	GH25	3.6
	-C1 EX-115	55	115	76	9MC 25HEX-6.2L	9C 1SL-FS-EX-A	GH25	3.5
	-C1 1/4EX-120	68	120	82	9MC1 1/4HEX- 7L	9C1 1/4SL-FS-EX-A	GH32	4.0
	-C1 1/2EX-135	86	135	85	9MC1 1/2HEX- 9L	9C1 1/2SL-FS-EX-A	9HC42	5.7
NCAT50	NCAT50-C 1/2EX- 95U	40	95	57	9MC 1/2HEX- 6L	9C 1/2SL-FS-EX-A	GH16	4.0
	-C 5/8EX-105U	48	105	67	9MC 5/8HEX-6.5L	9C 16SL-FS-EX-A	GH20	4.4
	-C 3/4EX-115U	55	115	70	9MC 3/4HEX- 7L	9C 3/4-FS-EX-A	GH25	5.0
	-C1 EX-115U	55	115	76	9MC 25HEX-6.2L	9C 1SL-FS-EX-A	GH25	4.8
	-C1 1/4EX-120U	68	120	82	9MC1 1/4HEX- 7L	9C1 1/4SL-FS-EX-A	GH32	5.3
	-C1 1/2EX-135U	86	135	85	9MC1 1/2HEX- 9L	9C1 1/2SL-FS-EX-A	9HC42	6.6

Please use direct chucking without KM collet.

★ MAX. 7MPa of center through coolant is available with the stopper.

★ Please use J-type X-Treme chuck, when end mill without oil hole is used. eg) HSK100A-C1 1/4EX-120-J

In case of J-type X-Treme chuck, J-type stopper and J-type face cap (with Jet grooves) are attached. 9MC1 1/4HEX-7L-J, 9C1 1/4L-FS-EX-J
J-type X-Treme chuck is used for the pocket milling and side milling.

Selection of the Accessories

Please select the proper stopper and the face cap according to your application. (end mill with/without coolant hole)
The stopper and the face cap for the end mill with oil hole are attached as standard accessory.

	End mill with oil hole		End mill without oil hole		Support bolt	Drive bolt
	Stopper	Face cap	Stopper*1	Face cap (V grooves)*1		
C12EX	9MC12HEX- 6L-J	9C12SL-FS-EX-A	9MC12HEX- 6L-J	9C12SL-FS-EX-J	FSMB10-16	—
C16EX	9MC16HEX- 6.5L-J	9C16SL-FS-EX-A	9MC16HEX- 6.5L-J	9C16SL-FS-EX-J	FSMB12-16-H8	—
C20EX	9MC20HEX- 12L-J*2	9C20 -FS-EX-A	9MC20HEX- 12L-J*2	9C20 -FS-EX-J	FSMB12-20	M12 × 20L
C25EX	9MC25HEX- 6.2L-J	9C25SL-FS-EX-A	9MC25HEX- 6.2L-J	9C25SL-FS-EX-J	FSMB16-20-H8	M16 × 20L
C32EX	9MC32HEX- 7L-J	9C32SL-FS-EX-A	9MC32HEX- 7L-J	9C32SL-FS-EX-J		
C42EX	9MC42HEX- 9L-J	9C42SL-FS-EX-A	9MC42HEX- 9L-J	9C42SL-FS-EX-J		
	O-ring Please insert the stopper which small hole diameter is located at the end mill side. (C42: Same hole diameter)		Cross groove Please insert the stopper which cross groove is located at the end mill side.			

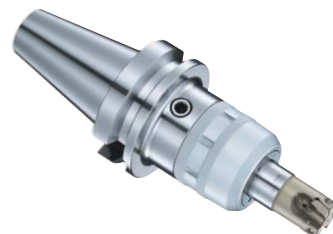
*1 Please contact us for the stopper for X-Treme chuck Inch series.

*2 The Code No. of the stopper for NBT40-C20EX, HSK63A-C20EX and C8-C20EX is MC20HEX-7L-J

★ X-Treme chuck with nose ring for C spanner is available as an option.

Please add "A" at the end of Code No.

eg) NBT50-C25EX-115-J-A



Nose ring with C spanner

Chuck	Handle
12EX-○○○-A	9HC16
16EX-○○○-A	9HC22
20EX-○○○-A	9HC25
25EX-○○○-A	9HC25
32EX-○○○-A	9HC32
42EX-○○○	9HC42

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D.JB.5

NEW

NIKKEN

X-Treme Shank & X-Treme Chuck

JAPAN, EU PAT.
USA, CHINA. PAT.P

Excellent Run-out
&
Powerful Gripping



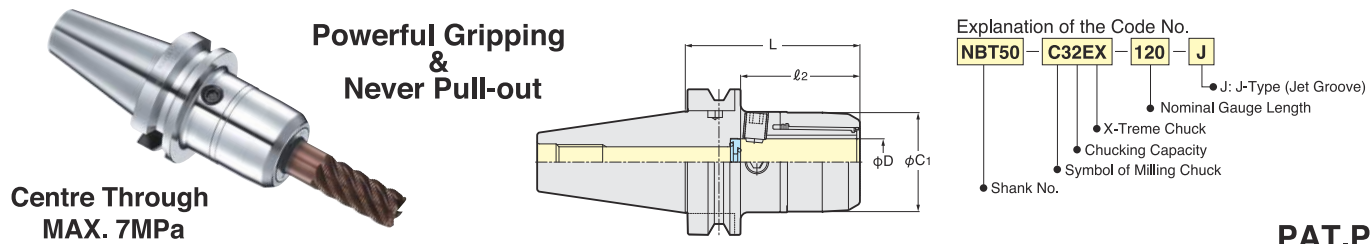
Industry proven to eliminate Pull-Out.

Exclusively developed for demanding
Applications and materials associated
With the aircraft and energy industry.

Material: Ti6Al4V Titanium
25mm, 6teeth
Carbide Roughing End Mill
25 X Depth 50mm 1 Path Milling
Never Pull-Out

NIKKEN KOSAKUSHO WORKS, LTD.
CAT.NO.2880

X-Treme Shank 2LOCK NBT X-Treme Chuck



TAPER	Code No. (φD - L)	C ₁	L	ℓ ₂	End mill with oil hole		Handle	Weight (kg)
					Stopper*	Face cap*		
No.40	NBT40-C12EX- 85	40	85	57	9MC12HEX- 6L	9C12SL-FS-EX-A	GH16	1.6
	-C16EX- 95	48	95	67	9MC16HEX-6.5L	9C16SL-FS-EX-A	GH20	1.7
	-C20EX- 95	55	95	70	9MC20HEX- 7L	9C20 -FS-EX-A	GH25	1.8
No.50	NBT50-C12EX- 95	40	95	57	9MC12HEX- 6L	9C12SL-FS-EX-A	GH16	4.0
	-C16EX-105	48	105	67	9MC16HEX-6.5L	9C16SL-FS-EX-A	GH20	4.4
	-C20EX-115	55	115	70	9MC20HEX- 12L	9C20 -FS-EX-A	GH25	5.0
	-C25EX-115	55	115	76	9MC25HEX-6.2L	9C25SL-FS-EX-A	GH25	4.8
	-C32EX-120	68	120	82	9MC32HEX- 7L	9C32SL-FS-EX-A	GH32	5.3
	-C42EX-125	86	125	85	9MC42HEX- 9L	9C42SL-FS-EX-A	9HC42	6.3

Please use direct chucking without KM collet.

★ MAX. 7MPa of center through coolant is available with the stopper.

★ Please use J-type X-Treme chuck, when end mill without oil hole is used. eg) NBT50-C32EX-120-J

In case of J-type X-Treme chuck, J-type stopper and J-type face cap (with Jet grooves) are attached. 9MC32HEX-7L-J, 9C32L-FS-EX-J

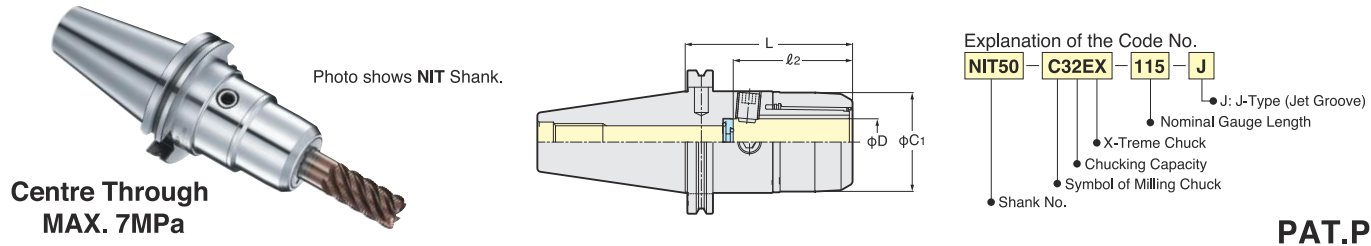
J-type X-Treme chuck is used for the pocket milling and side milling.

★ Extended length X-Treme chuck is also available. NBT50-C20EX-135, NBT50-C25EX-135, NBT50-C32EX-135

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.

X-Treme Shank 2LOCK NIT/NCAT X-Treme Chuck



TAPER	Code No. (φD - L)	C ₁	L	ℓ ₂	End mill with oil hole		Handle	Weight (kg)
					Stopper*	Face cap*		
NIT50	NIT50 -C12EX- 95	40	95	57	9MC12HEX- 6L	9C12SL-FS-EX-A	GH16	3.4
	-C16EX-105	48	105	67	9MC16HEX-6.5L	9C16SL-FS-EX-A	GH20	3.8
	-C20EX-105	55	115	70	9MC20HEX- 12L	9C20 -FS-EX-A	GH25	4.3
	-C25EX-110	55	115	76	9MC25HEX-6.2L	9C25SL-FS-EX-A	GH25	4.2
	-C32EX-115	68	115	82	9MC32HEX- 7L	9C32SL-FS-EX-A	GH32	4.7
	-C42EX-125	86	135	85	9MC42HEX- 9L	9C42SL-FS-EX-A	9HC42	6.0
NCAT50	NCAT50-C12EX- 95U	40	95	57	9MC12HEX- 6L	9C12SL-FS-EX-A	GH16	3.4
	-C16EX-105U	48	105	67	9MC16HEX-6.5L	9C16SL-FS-EX-A	GH20	3.8
	-C20EX-105U	55	105	70	9MC20HEX- 12L	9C20 -FS-EX-A	GH25	4.3
	-C25EX-110U	55	110	76	9MC25HEX-6.2L	9C25SL-FS-EX-A	GH25	4.2
	-C32EX-115U	68	115	82	9MC32HEX- 7L	9C32SL-FS-EX-A	GH32	4.7
	-C42EX-125U	86	125	85	9MC42HEX- 9L	9C42SL-FS-EX-A	9HC42	6.0

Please use direct chucking without KM collet.

★ 2LOCK tooling (NIT/NCAT) 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 IT/CAT standard spindle.

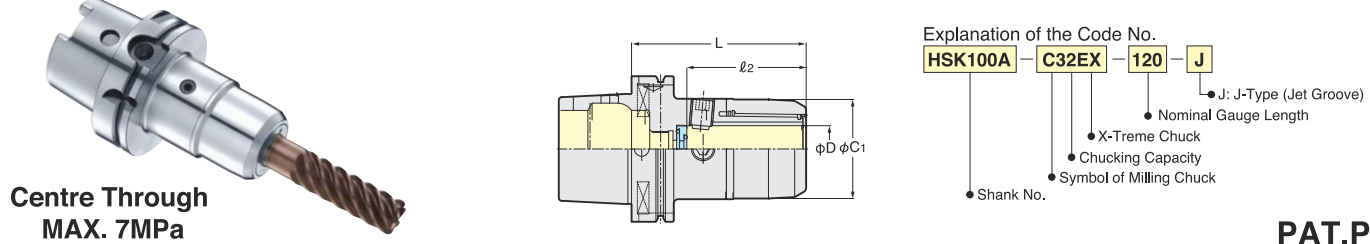
★ MAX. 7MPa of center through coolant is available with the stopper.

★ Please use J-type X-Treme chuck, when end mill without oil hole is used. eg) NCAT50-C32EX-115U-J

In case of J-type X-Treme chuck, J-type stopper and J-type face cap (with Jet grooves) are attached. 9MC32HEX-7L-J, 9C32L-FS-EX-J

J-type X-Treme chuck is used for the pocket milling and side milling.

X-Treme Shank HSK X-Treme Chuck



TAPER	Code No. (φD - L)	C ₁	L	ℓ ₂	End mill with oil hole		Handle	Weight (kg)
					Stopper*	Face cap*		
HSK63A	HSK 63A-C12EX- 95	40	95	57	9MC12HEX- 6L	9C12SL-FS-EX-A	GH16	1.3
	-C16EX-100	48	100	67	9MC16HEX-6.5L	9C16SL-FS-EX-A	GH20	1.5
	-C20EX-105	55	105	70	9MC20HEX- 7L	9C20 -FS-EX-A	GH25	1.7
HSK100A	HSK100A-C12EX- 95	40	95	57	9MC12HEX- 6L	9C12SL-FS-EX-A	GH16	2.7
	-C16EX-105	48	105	67	9MC16HEX-6.5L	9C16SL-FS-EX-A	GH20	3.0
	-C20EX-115	55	115	70	9MC20HEX- 12L	9C20 -FS-EX-A	GH25	3.6
	-C25EX-115	55	115	76	9MC25HEX-6.2L	9C25SL-FS-EX-A	GH25	3.5
	-C32EX-120	68	120	82	9MC32HEX- 7L	9C32SL-FS-EX-A	GH32	4.0
	-C42EX-135	86	135	85	9MC42HEX- 9L	9C42SL-FS-EX-A	9HC42	5.7
HSK125A	HSK125A-C20EX-120S	55	120	70	9MC20HEX- 12L	9C20 -FS-EX-A	GH25	5.4
	-C25EX-120S	55	120	76	9MC25HEX-6.2L	9C25SL-FS-EX-A	GH25	5.3
	-C32EX-135S	68	135	82	9MC32HEX- 7L	9C32SL-FS-EX-A	GH32	6.3
	-C42EX-135S	86	135	85	9MC42HEX- 9L	9C42SL-FS-EX-A	9HC42	7.1

Please use direct chucking without KM collet.

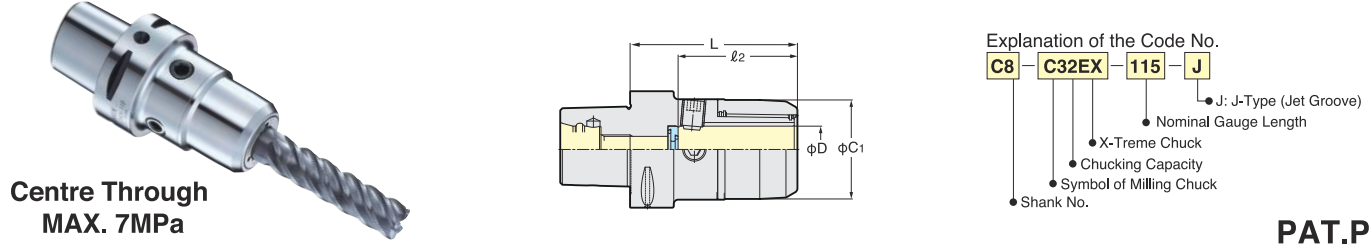
★ MAX. 7MPa of center through coolant is available with the stopper.

★ Please use J-type X-Treme chuck, when end mill without oil hole is used. eg) HSK125A-C32EX-135S-J

In case of J-type X-Treme chuck, J-type stopper and J-type face cap (with Jet grooves) are attached. 9MC32HEX-7L-J, 9C32L-FS-EX-J

J-type X-Treme chuck is used for the pocket milling and side milling.

X-Treme Shank C8 X-Treme Chuck



TAPER	Code No. (φD - L)	C ₁	L	ℓ ₂	End mill with oil hole		Handle	Weight (kg)
					Stopper*	Face cap*		
C8	C8-C20EX-105	55	105	70	9MC20HEX- 7L	9C20 -FS-EX-A	GH25	3.0
	-C25EX-110	55	110	76	9MC25HEX-6.2L	9C25SL-FS-EX-A	GH25	3.0
	-C32EX-115	68	115	82	9MC32HEX- 7L	9C32SL-FS-EX-A	GH32	3.5

Please use direct chucking without KM collet.

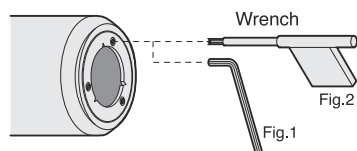
★ MAX. 7MPa of center through coolant is available with the stopper.

★ Please use J-type X-Treme chuck, when end mill without oil hole is used. eg) C8-C32EX-115-J

In case of J-type X-Treme chuck, J-type stopper and J-type face cap (with Jet grooves) are attached. 9MC32HEX-7L-J, 9C32L-FS-EX-J

J-type X-Treme chuck is used for the pocket milling and side milling.

How to exchange the face caps



The face cap is fixed with 3 pieces of M2.5 screws. (C42EX: M3) The face cap must be centred or centralized, when exchanged. The special centering jig fixture and wrench are provided as an option.

	wrench		screw
C12EX, C16EX, C20EX	CME-1.3	Fig.1	CBSS2.5-6
C25EX, C32EX	T-8	Fig.2	M2577
C42EX			SHIM-M3

Please refer P.3 the accessories such as the stopper and face cap.