

Advanced
Engineering

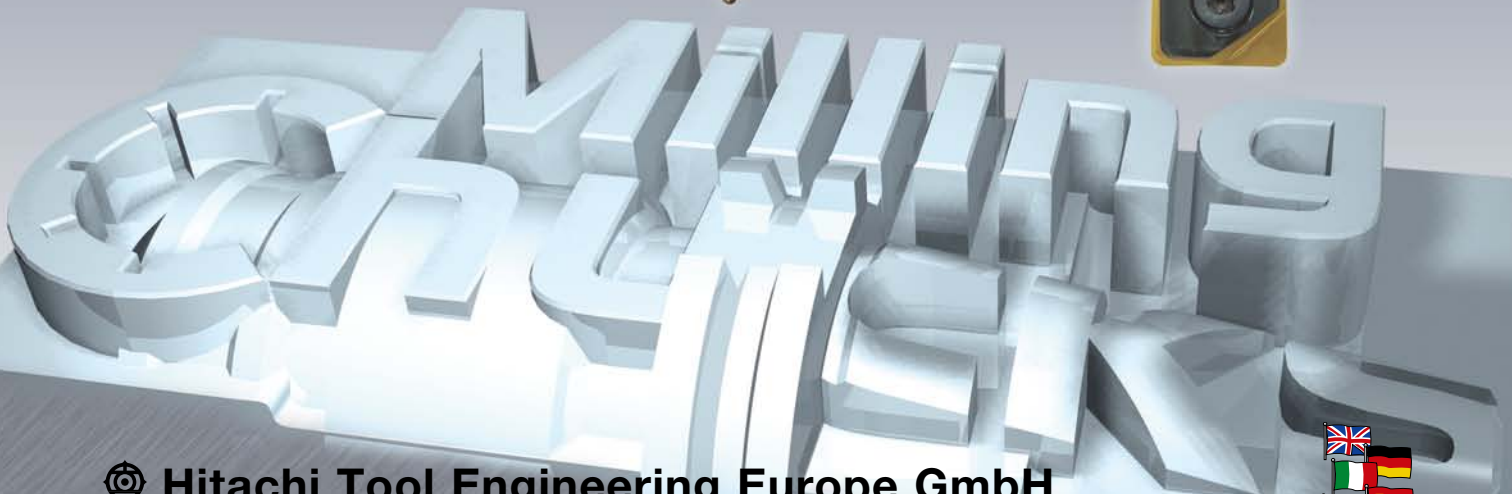
Hitachi Tool

HITACHI
Inspire the Next

**Milling
Chucks**

No. 706.3

NIK Chuck *High Balanced Collet Chuck*
SUPER Lock *Milling Power Chuck*



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Milling Chucks

NIK CHUCK | High balanced Collet Chuck

FEATURES

1. Balance

All NIK-Chucks are balanced to ISO/DIN 1940 during manufacture, using the set screws which are factory set and sealed. Balanced spindle tooling reduces wear and load on the spindle bearings.

2. Accuracy

Manufacturing to close tolerances ensures excellent contact between cutter shank, collet and chuck, reducing vibrations which will extend tool life, improve workpieces surface finish and give the capability to achieve better tolerances.

3. Coolant

Two styles of collet are available: The C type for conventional flood coolant supplies and the OH type sealed collets to provide through tool coolant.

4. Flexibility

Chuck will accommodate DIN standard milling shanks Ø 3, 4, 6, 8, 10 and 12 mm. Both short and long series cutters will be held securely for long reach applications in deep pockets.

5. Handling

Cutter lengths may be pre-set by means of a length adjustment screw. This allows cutters to be changed quickly avoiding the need to re-set tool length offset.

BESONDERHEITEN

1. Wuchtgüte

Alle NIK-Chucks sind mit Wuchtschrauben nach ISO/DIN 1940 feinstgewuchtet und werkseitig versiegelt. Die Unwuchtübertragung auf die Spindellager wird somit auf ein Minimum reduziert.

2. Rundlauf

Durch die präzise Herstellung der Aufnahme und der Spannhülse wird ein genauer Rundlauf erreicht, welcher die Standzeit aller Vollhartmetallfräser erhöht. Dies ergibt eine bessere Oberfläche und eine höhere Genauigkeit.

3. Kühlung

Zwei Arten der Kühlung stehen zur Verfügung. Typ C: Die Kühlung wird durch das Futter am Werkzeug, mittels zweier Öffnungen, vorbeigeleitet. Typ OH: Ist für Werkzeuge mit innerer Kühlmittelzufuhr, wobei die Hülsen geschlossen sind.

4. Flexibilität

Die Aufnahme ermöglicht es, DIN-gefertigte Schäfte in den Ø 3, 4, 6, 8, 10 und 12 mm zu spannen. Durch die schlanke und lange Ausführung der Aufnahme kann mit kurzen oder langen Werkzeugen auch in tiefen Formen gearbeitet werden.

5. Handling

Das einfache Handling ermöglicht in kürzester Zeit Veränderungen der Ausraglänge, den Werkzeugwechsel und eine genaue Längeneinstellung durch die integrierte Einstellschraube.

PARTICOLARITÀ

1. Qualità di equilibratura

Tutti i mandrini NIK-Chucks sono equilibrati con precisione e sigillati in fabbrica con viti conformi a ISO/DIN 1940. Si riduce in tal modo al minimo la trasmissione di squilibri ai cuscinetti del mandrino.

2. Concentricità

Grazie alla fabbricazione precisa di portautensili e bussola di serraggio, si ottiene una rotazione concentrica precisa che aumenta la durata di tutti gli utensili in metallo duro. Il risultato è una superficie migliore ed una maggiore precisione.

3. Raffreddamento

Sono disponibili due tipi di raffreddamento. Tipo C: il refrigerante è alimentato attraverso la pinza portautensili per mezzo di due fori. Tipo OH: È previsto per gli utensili con lubrificazione interna di refrigerante, in cui le bussole sono chiuse.

4. Flessibilità

Il mandrino portautensili permette di montare codoli conformi a DIN di Ø 3, 4, 6, 8, 10 & 12 mm. Grazie alla forma lunga ed affusolata del portautensili è possibile lavorare con utensili corti o lunghi, anche di forme profonde.

5. Maneggevolezza

La facilità d'impiego permette di effettuare in tempi brevissimi modifiche della lunghezza aggettante, sostituzione dell'utensile e regolazione precisa della lunghezza, per mezzo della vite di regolazione integrata.

CARACTERÍSTICAS

1. Equilibrado

Todos los porta-pinzas NIK son equilibrados durante su producción según norma DIN/ISO 1940, mediante tornillos que son regulados y sellados en fabrica. La utilización de porta-herramientas equilibrados reduce el desgaste y la carga de los cojinetes del cabezal.

2. Preciso

La fabricación con tolerancias mínimas garantiza un excelente contacto entre el mango de la herramienta, la pinza y el porta-pinzas, reduciendo vibraciones que acortan la vida de la herramienta, mejorando el acabado superficial de la pieza mecanizada, permitiendonos obtener unos niveles de tolerancia mejores.

3. Refrigeración

Hay dos clases de pinzas disponibles, las de tipo C con paso para refrigerante, y las selladas tipo OH para herramientas con refrigeración interna.

4. Flexible

Admite mangos norma DIN de Ø 3, 4, 6, 8, 10 y 12 mm. Tanto las herramientas cortas como las largas quedan sujetas con total seguridad, incluso en su utilización distante en mecanizados profundos.

5. Práctico

El nivel de introducción de la herramienta puede preseleccionarse mediante la utilización de un tornillo regulador. Esto permite los cambios de herramienta sin necesidad de reajustar las coordenadas iniciales.

CARACTÉRISTIQUES

1. Équilibrage

Tous les mandrins NIK sont équilibrés selon la norme DIN/ISO 1940 en cours de fabrication, en utilisant les vis d'équilibrage qui sont réglées et immobilisées en usine. Un porte-outil équilibré diminue l'usure et la charge sur les roulements de broche.

2. Précision

La fabrication avec des tolérances serrées garantit une excellente concentricité entre la queue de l'outil, la pince de serrage et le mandrin, elle réduit les vibrations, ce qui allonge la durée de vie de l'outil, améliore l'état de surface de la pièce usinée et donne la possibilité d'obtenir une plus grande précision.

3. Refroidissement

Deux types de pinces sont disponibles: Les pinces type C pour une alimentation conventionnelle du liquide d'arrosage. Les pinces étanches type OH pour permettre un arrosage par le centre de l'outil.

4. Adaptabilité

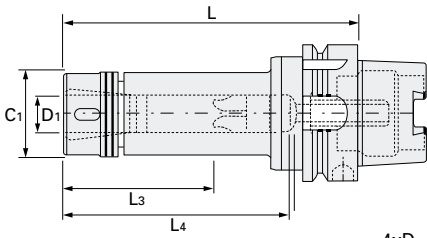
Ce mandrin accepte les queues de fraises au standard DIN dans les diamètres Ø 3, 4, 6, 8, 10 et 12 mm. Le maintien des fraises est aussi efficace pour les séries courtes ou longues afin de permettre l'usinage dans des formes profondes.

5. Maniement

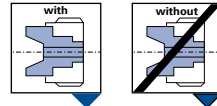
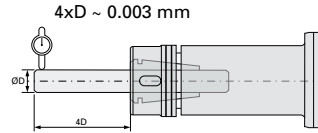
Les longueurs d'outil peuvent être pré-réglées au moyen d'une vis d'ajustage de longueur. Cela procure la possibilité de changer les outils rapidement en supprimant le besoin de modifier les longueurs d'outil paramétrées.

Milling Chucks

NIK12 | Nik Chuck - HSK DIN 69893 A+E - High Balanced



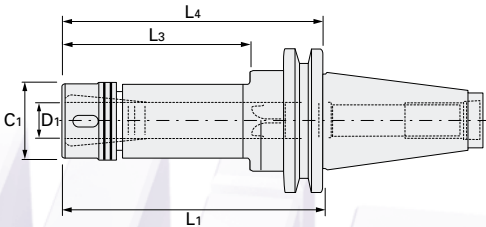
up to G2.5
up to 42,000 rpm
up to 4xD 0.003 mm



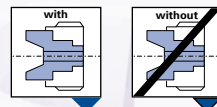
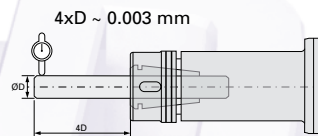
ID Code	Item-Code	Stock	D ₁ *	C ₁	L ₁	L ₃	L ₄	Weight/kg
NT121	HSK40E-NIK12-90G	■	3~12	34	90	33~55	~ 40	0.8
NT116	HSK50E-NIK12-120G	■	3~12	34	120	33~70	~ 80	0.9
NT117	HSK63A-NIK12-120G	■	3~12	34	120	33~70	~ 80	1.3
NT118	HSK100A-NIK12-150G	■	3~12	34	150	33~70	~100	3.3

■ = Stock | Germany

NIK12 | Nik Chuck - SK DIN 69871 - High Balanced



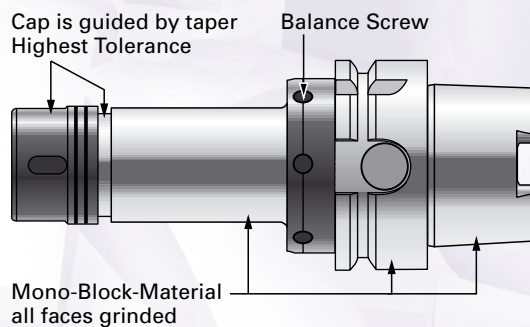
up to G2.5
up to 42,000 rpm
up to 4xD 0.003 mm



ID Code	Item-Code	Stock	D ₁ *	C ₁	L ₁	L ₃	L ₄	Weight/kg
NT115	SK40-NIK12-120G	■	3~12	34	120	33~70	~120	1.4

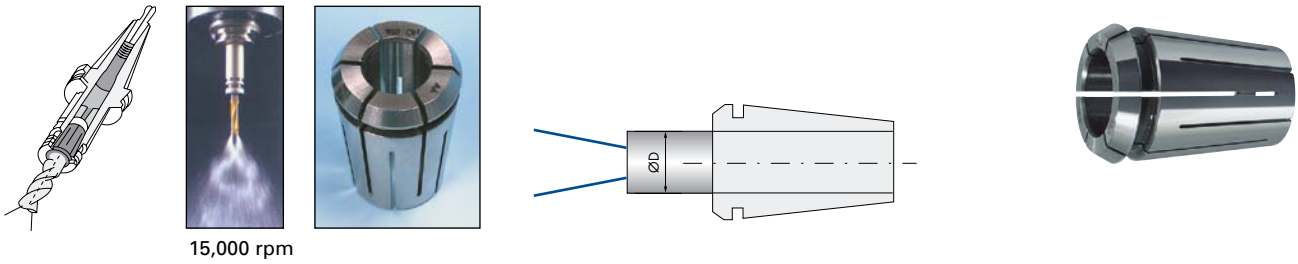
■ = Stock | Germany

SPECIAL FEATURES



Milling Chucks

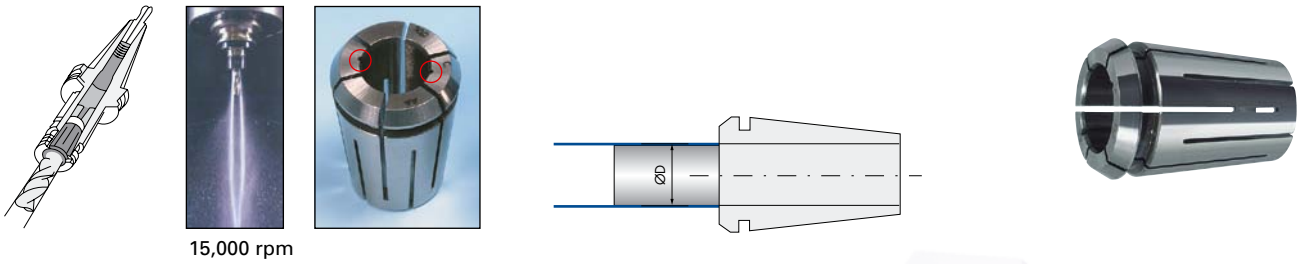
FDC-OHAA | Nik Chuck - Collets for NIK12



15,000 rpm

ID Code	Item-Code	Stock	ØD
NT102	FDC-03012OHAA	■	3
NT103	FDC-04012OHAA	■	4
NT033	FDC-05012OHAA	■	5
NT104	FDC-06012OHAA	■	6
NT034	FDC-07012OHAA	■	7
NT105	FDC-08012OHAA	■	8
NT035	FDC-09012OHAA	■	9
NT106	FDC-10012OHAA	■	10
NT036	FDC-11012OHAA	■	11
NT107	FDC-12012OHAA	■	12
NT119	SET-FDCOHAA	■	3,4,6,8,10,12

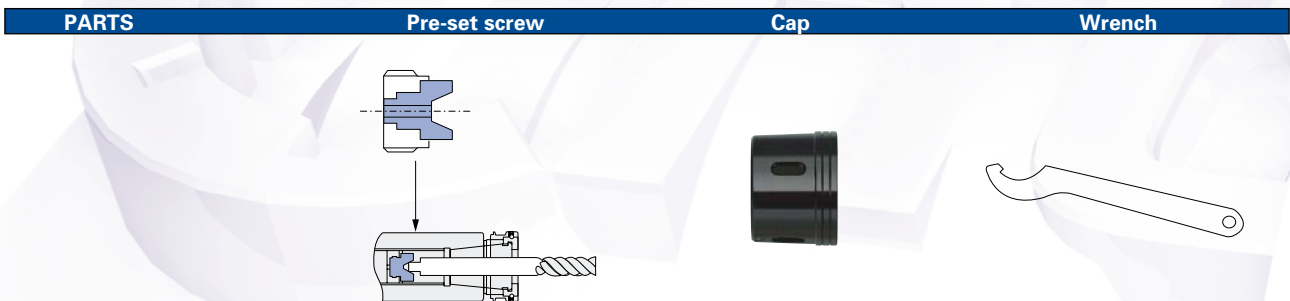
FDC-CAA | Nik Chuck - Collets for NIK12



15,000 rpm

ID Code	Item-Code	Stock	ØD
NT108	FDC-03012CAA	■	3
NT109	FDC-04012CAA	■	4
NT110	FDC-06012CAA	■	6
NT111	FDC-08012CAA	■	8
NT112	FDC-10012CAA	■	10
NT113	FDC-12012CAA	■	12
NT120	SET-FDCCAA	■	3,4,6,8,10,12

Spare Parts for NIK12



	Stock	ID Code	ID Code	ID Code
HDS-12	■	NT123		
GDP-12	■		NT122	
FK-0030	■			NT127

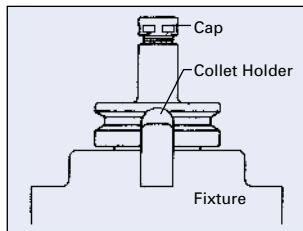
■ = Stock | Germany

Milling Chucks

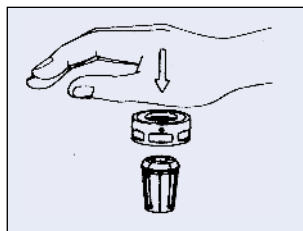
NIK CHUCK | High balanced Collet Chuck

LOADING THE CUTTING TOOL

1. Be sure to put the collet holder firmly into a tool fixture or similar equipment.
2. Detach the cap from the holder (by revolving the cap to the left)
3. Please make sure to clear the collet (accessory), cutting tool of grease or dust left on the holder's inner taper with a clean waste cloth.
4. Insert the collet into the cap. Attach the cap to the collet and push the cap with your palm. Make sure that the claw inside the cap is put firmly into the collet's groove.

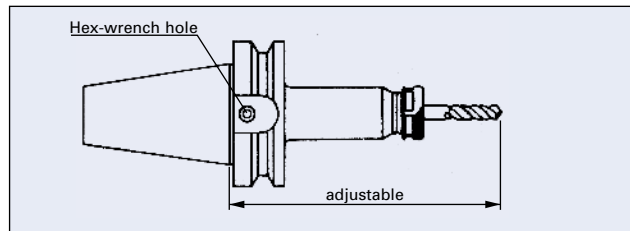
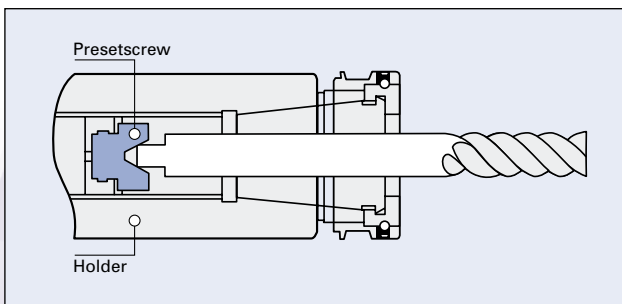


5. Make sure that the chucking length of your using cutting tool shank is longer than the collet's inner diameter and tighten the cap with your hand for tentative chucking (by revolving the cap to the right).



CAUTION: For your safety, do not touch the blade of a cutting tool with your hands.

6. Adjusting the projection length of a cutting tool:
CAUTION: For your safety, please make sure to grip the cutting tool with waste cloth in rotating the cutting tool.
Preset screw is incorporated in the holder. So you can change the cutting tool's projection length by pushing the cutting tool's tip to the preset screw and rotating it.
Right rotation: For shorter projection length
Left rotation: For longer projection length



7. After the cutting tool's projection length is determined, please tighten the cap securely by using the spanner (accessory) designated by us.

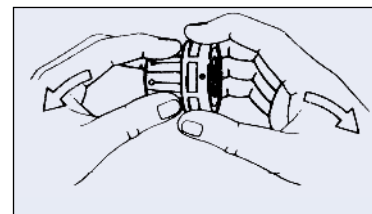
UNLOADING THE CUTTING TOOL

1. Untighten the clamping cap with the spanner designated by us in order to unload the cutting tool. After the holder is deeply inserted into the fixture, please untighten the cap slowly.
2. Pull out the cutting tool after the cap is loosened.

CAUTION: In the application for the center-through coolant machine, the cutting tool may suddenly come off the holder due to the remaining coolant pressure when you try to untighten the cap at the machine. Please make sure to loosen the cap after making sure that there is no coolant pressure remained.

HOW TO RELEASE THE COLLET

1. Unload the cutting tool and blow air at collet and cap.
2. Squeeze the taper of collet with your hands and release the collet from the nose.



CAUTION: Please make sure to use waste cloth for your safety.

PRECAUTIONS FOR KEEPING THE HOLDER FOR A LONG TIME.

1. Do not keep the collet holder clamped without a cutting tool installed. This may deteriorate the accuracy of the holder.
2. To maintain stable chucking power, do not store the collet holder with the cutting tool installed. In case you have kept the holder with the cutting tool installed inside for a long time, untighten the cap and retighten it.
3. After use, wipe all chips and debris from the collet holder and apply rust-proof oil to the taper to prevent dimples from forming.

CAUTION!

1. When chucking a cutter, make sure to fix the collet holder firmly into a tool fixture or similar equipment. If this is not done properly, the holder may come off and hurt you.
2. Only use the hook spanner wrench designated by Hitachi. Other style spanner wrenches may come loose from the flats and lead to improper tightening or injury.
3. For your safety, use waste cloth in chucking a cutter. Otherwise, your hands or fingers may be cut.
4. Do not touch the collet holder while it is turning. This may lead to serious injury.
5. Close the shield and/or wear safety glasses during cutting operation in order to avoid any danger caused by chips.
6. Be careful not to drop the collet holder when installing, detaching or carrying it. This may lead to injury.
7. Use the collet holder for recommended applications only. Do not disassemble or modify it. These actions may lead to an accident.
8. In setting up the operation with center-through coolant use, make sure to keep your hands and/or body from the cutting tool's tip. In the case of malfunction the cutting tool may come off.
9. During the operation for the center-turn coolant use, it is very dangerous to release the clamping cap in order to unload a cutting tool from the collet holder still mounted to the spindle. Due to the residual coolant pressure, the cutting tool might jump at you.
Please make sure that there is no remaining coolant pressure or release the clamping cap after the holder is demounted from the machine spindle.
10. We can not be in a position to take any responsibility for the machine trouble caused during the operation with our holder used.
11. Please be sure to make an accuracy test on the work-piece machined with our holder.

Milling Chucks

SUPER LOCK | Milling Power Chuck

SUPER LOCK MILLING CHUCKS

- 1. New patented „T-Slot“ design.**
 - Special axial and radial designed T-slots prevent cutting tool rotation and pull out in heavy cutting applications.
 - Unique T-slot design increases gripping force and reduces micro vibrations which results in stable cutting.
- 2. Two stage tightening**

Stage one – Finish milling: Tighten the clamping ring until the black ring is not visible.

Stage two – Heavy milling: Completely tighten clamping ring to achieve maximum gripping power.
- 3. Special surface treatment**
 - Special coating (Thickness 5µm) prevents abnormal spindle wear.
 - Under usual conditions this treatment will ensure the holder remain rust free.
- 4. Unique retaining ring allows high speed milling.**
 - New seal mechanism gives improved durability and reduces contamination and maintenance.
- 5. Centre through jet coolant is possible with MC-OH collets.**

SUPER LOCK MILLING CHUCKS

- 1. Neues patentiertes „T-Nuten“ Design**
 - Durch die axial und radial eingearbeiteten Nuten wird ein Durchdrehen oder Herausziehen des Werkzeugs, auch bei Schrupp-Bearbeitungen, verhindert
- 2. Werkzeugspannung in 2 Stufen**

Stufe 1 – Schlicht-Bearbeitung: Spannen Sie den Klemmring bis der schwarze Ring nicht mehr sichtbar ist

Stufe 2 – Schrupp-Bearbeitung: Spannen Sie den Klemmring komplett, um die maximale Spannkraft zu erreichen
- 3. Spezielle Oberflächenbehandlung**
 - Die besondere Beschichtung (Dicke 5µm) verhindert unnormalen Verschleiß an der Spindel.
 - Aufgrund dieser Beschichtung bleiben die Halter, normale Einsatzbedingungen vorausgesetzt, rostfrei.
- 4. Durch einen neuartigen Sprengring ist auch Hochgeschwindigkeits-Bearbeitung möglich**
 - Zusätzlich werden durch einen neuen Dichtungs-Mechanismus Verunreinigungen im Inneren der Aufnahme vermindert, wodurch sich der Wartungsaufwand deutlich verringert und die Lebensdauer der Aufnahme erhöht
- 5. Innere Kühlmittelzufuhr ist möglich bei Verwendung von MC-OH Hülsen**

SUPER LOCK MILLING CHUCKS

- 1. Nuovo brevetto „T-Slot“.**
 - Speciale forma assiale e radiale T-Slot che previene la rotazione e l'uscita dell'utensile nelle applicazioni di fresatura pesante.
 - Esclusiva forma T-Slot che incrementa la forza di tenuta e riduce le micro vibrazioni migliorando la qualità di fresatura.
- 2. Due metodi di chiusura**

Metodo uno – Lavorazioni di finitura: Chiusura dell' anello pinza fino a rendere non visibile l'anello nero.

Metodo due – Lavorazioni pesanti: Completa chiusura dell'anello pinza per avere la potenza massima di bloccaggio.
- 3. Speciale trattamento superficiale**
 - Questo rivestimento particolare di spessore 5µm previene il consumo non omogeneo del mandrino.
 - In condizioni normali inoltre questo trattamento previene la formazione di ruggine sull'attacco.

- 4. Anello di ritenuta particolare adatto per lavorazioni ad alta velocità.**
 - Nuova guarnizione sigillante che garantisce durata e riduce la contaminazione e la manutenzione del cono.
- 5. Possibilità di passaggio di refrigerante attraverso il centro montando pinze tipo MC-OH.**

SUPER LOCK MILLING CHUCKS

- 1. Nueva patente de diseño „Ranuras en T“**
 - Las nuevas ranuras en T axiales y radiales evitan que la herramienta pueda girar o soltarse durante el proceso de trabajo.
 - El diseño de estas ranuras aumenta el poder gripante y absorbe las vibraciones logrando un proceso de trabajo más estable.
- 2. Dos niveles de apriete**

Primer nivel – Nivel de acabado – Hay que apretar hasta que desaparece el aro negro.

Segundo nivel – Nivel de desbaste – Hay que apretar hasta el final para conseguir el máximo poder gripante.
- 3. Recubrimiento especial**
 - Un recubrimiento especial (5 µm de espesor) protege al cono de un desgaste prematuro.
 - En condiciones normales este recubrimiento mantiene el cono exento de corrosión.
- 4. Nuevo anillo de retención que permite el mecanizado a alta velocidad.**
 - Un nuevo sistema de sellado impide la contaminación interior reduciendo la necesidad de operaciones de mantenimiento.
- 5. Las pinzas MC-OH permiten la refrigeración a través de la herramienta..**

SUPER LOCK MILLING CHUCKS

- 1. Nouvelle conception brevetée „T-Slot“ (Rainure à T).**
 - La conception spéciale axiale et radiale „T-Slot“ empêche l'outil de tourner ou d'être tiré hors du mandrin lors d'applications lourdes en ébauche.
 - La conception unique „T-Slot“ augmente la force de serrage et réduit les micro vibrations ce qui permet d'avoir une coupe stable et efficace.
- 2. Deux degrés de serrage.**

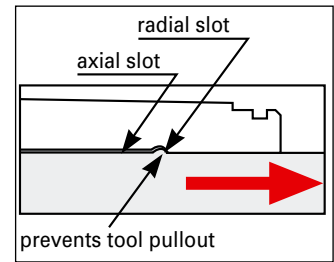
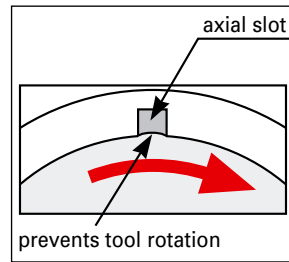
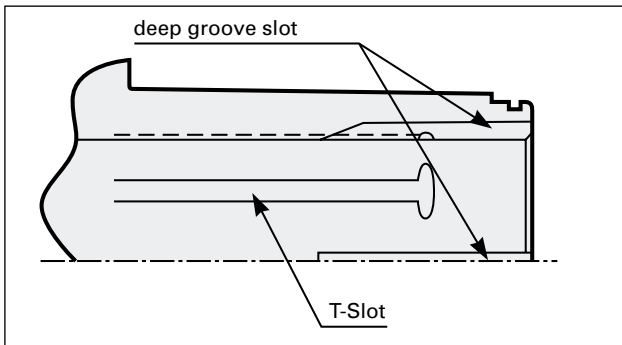
Degré un – Finition : Serrez la bague de serrage jusqu'à ce que l'anneau noir ne soit plus visible.

Degré deux – Ebauche : Serrez complètement la bague de serrage pour atteindre la puissance de serrage maximum.
- 3. Traitement de surface spécial.**
 - Revêtement spécial (épaisseur 5µm) qui empêche l'usure anormale de la broche.
 - Dans le cadre d'une utilisation normale, ce traitement fait aussi fonction d'anti-rouille.
- 4. Bague de maintien unique permettant le fraisage à grande vitesse.**
 - Le nouveau mécanisme de fermeture améliore la longévité du mandrin et réduit les risques de contamination ainsi que l'entretien.
- 5. Arrosage au centre possible avec les pinces Centre MC-OH.**

Milling Chucks

SUPER LOCK | Milling Power Chuck

1. NEW PATENTED T-SLOT DESIGN



- Super Lock
- Cutting Tool

2. TWO-STAGE TIGHTENING



before clamping



clamping completed

3. SPECIAL SURFACE TREATMENT

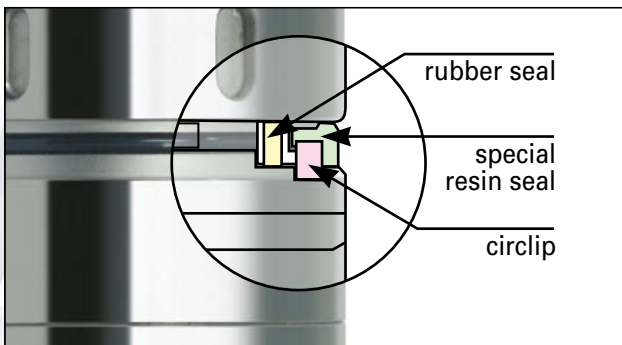


special surface treatment

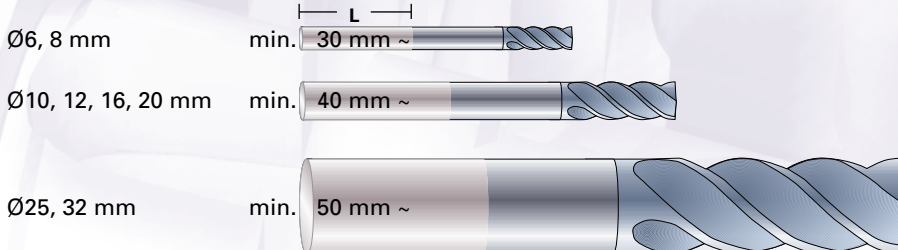


rusted surface of standard product

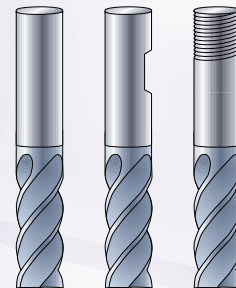
5. UNIQUE RETAINING RING ALLOWS HIGH SPEED MILLING



4. CHUCKING LENGTH OF CUTTING TOOL (RECOMMENDED):



TYPES TO CHUCK:

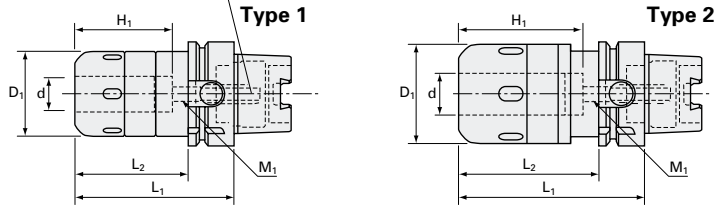


Milling Chucks

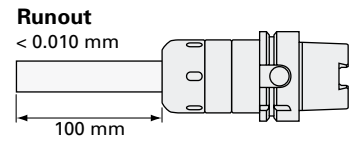
SUPER LOCK | Milling Power Chuck - HSK DIN 69893 A



HSK 63 A M18 x 1.0
HSK 100 A M24 x 1.5



Type 1) CT20S max. 20,000 rpm 1,500 N/m Power
Type 2) CT32S max. 15,000 rpm 4,000 N/m Power



ID Code	Item-Code	Type	Stock	d	D ₁	L ₁	L ₂	M ₁	H ₁
NT098	HSK63A-CT20S-105	1	■	20	52	105	79	M8	75
NT126	HSK63A-CT32S-120G	2	■	32	73	120	94	M8	90
NT101	Set-HSK63	1	■	20	52	105	79	M8	75
NT231	HSK100A-CT20S-105	1	■	20	52	105	76	M10	70
NT099	HSK100A-CT32S-135	2	■	32	73	135	106	M10	100
NT100	Set-HSK100	2	■	32	73	135	106	M10	100

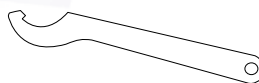
■ = Stock | Germany

Content of Sets:

NT101	Set-HSK63	1x HSK63A-CT20S-105	(Chuck)
		1x MC20- 6, 8, 10, 12, 16	(Collets)
NT100	Set-HSK100	1x HSK100A-CT32S-135	(Chuck)
		1x MC32- 6, 8, 10, 12, 16, 20, 25	(Collets)

PARTS

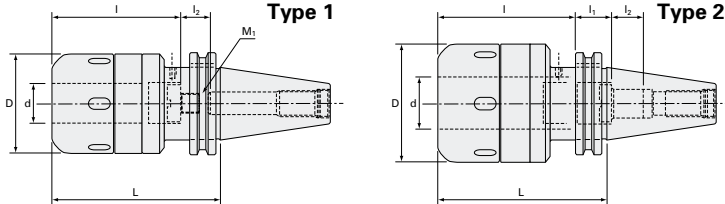
Wrench



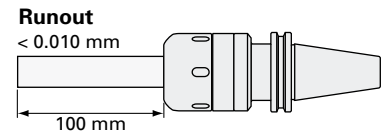
	ID Code	Item Code	Stock
for CT20S	NT009	HS-2	■
for CT32S	NT010	HS-3	■

Milling Chucks

SUPER LOCK | Milling Power Chuck - SK DIN 69871



Type 1) CT20S max. 20,000 rpm 1,500 N/m Power
Type 2) CT32S max. 15,000 rpm 4,000 N/m Power



ID Code	Item-Code	Type	Stock	d	D	L	l	l ₁	M ₁	l ₂
NT029	SK40-CT20S-90	1	■	20	52	90	80	-	12	15
NT129	SK40-CT32S-105	2	■	32	73	105	85	23	18	20
NT027	Set-SK40	1	■	20	52	90	80	-	12	15
NT232	SK50-CT20S-105	1	■	20	52	105	80	-	12	15
NT030	SK50-CT32S-105	2	■	32	73	105	120	-	18	20
NT028	Set-SK50	2	■	32	73	105	120	-	18	20

■ = Stock | Germany

Content of Sets:

NT027	Set-SK40	1x SK40-CT20S-90	(Chuck)
		1x MC20- 6, 8, 10, 12, 16	(Collets)
NT028	Set-SK50	1x SK50-CT32S-105	(Chuck)
		1x MC32- 6, 8, 10, 12, 16, 20, 25	(Collets)

PARTS

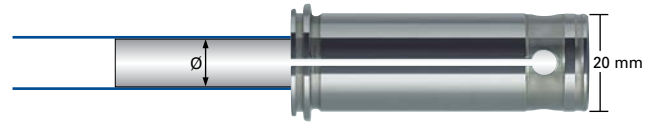
Wrench



	ID Code	Item Code	Stock
for CT20S	NT009	HS-2	■
for CT32S	NT010	HS-3	■

Milling Chucks

MC20 | Collets for CT20S

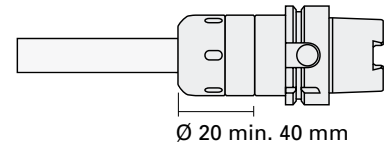
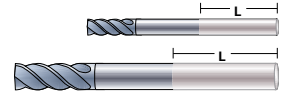


ID Code	Item-Code	Stock	Shank Ø
NT014	MC20-4	■	4
NT015	MC20-6	■	6
NT016	MC20-8	■	8
NT011	MC20-10	■	10
NT012	MC20-12	■	12
NT013	MC20-16	■	16
	direct		20

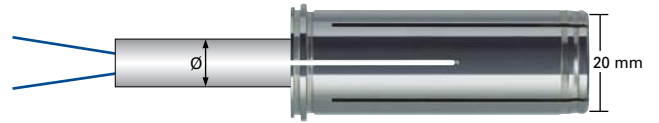
■ = Stock | Germany

CHUCKING LENGTH OF CUTTING TOOL (RECOMMENDED):

- Ø 4, 6, 8 mm
L min. 30 mm
- Ø 10, 12, 16, 20 mm
L min. 40 mm



MC20-OH | Collets for CT20S

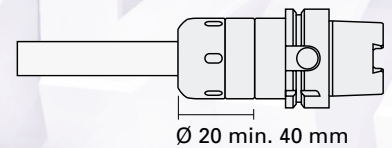
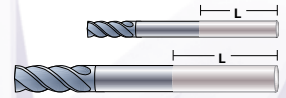


ID Code	Item-Code	Stock	Shank Ø
NT042	MC20-4OH	■	4
NT043	MC20-5OH	■	5
NT044	MC20-6OH	■	6
NT045	MC20-7OH	■	7
NT046	MC20-8OH	■	8
NT047	MC20-9OH	■	9
NT037	MC20-10OH	■	10
NT038	MC20-11OH	■	11
NT039	MC20-12OH	■	12
NT040	MC20-13OH	■	13
	direct		20

■ = Stock | Germany

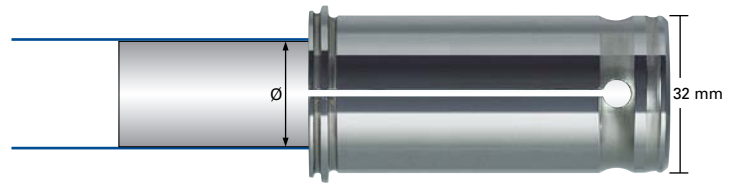
CHUCKING LENGTH OF CUTTING TOOL (RECOMMENDED):

- Ø 4, 5, 6, 7, 8, 9 mm
L min. 30 mm
- Ø 10, 11, 12, 13, 20 mm
L min. 40 mm



Milling Chucks

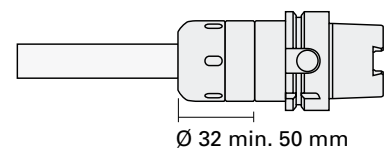
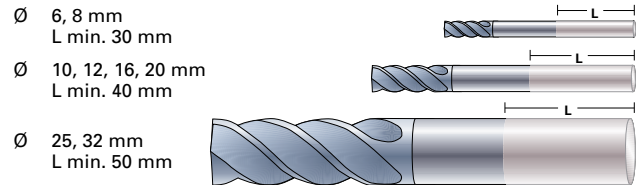
MC32 | Collets for CT32S



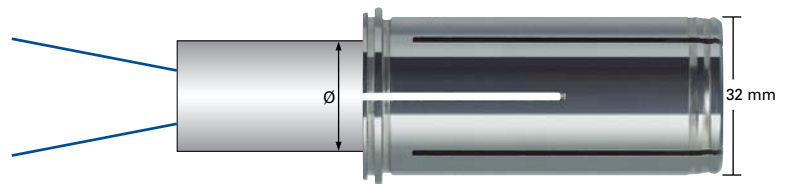
ID Code	Item-Code	Stock	Shank Ø
NT022	MC32-6	■	6
NT023	MC32-8	■	8
NT017	MC32-10	■	10
NT018	MC32-12	■	12
NT019	MC32-16	■	16
NT020	MC32-20	■	20
NT021	MC32-25	■	25
	direct		32

■ = Stock | Germany

CHUCKING LENGTH OF CUTTING TOOL (RECOMMENDED):



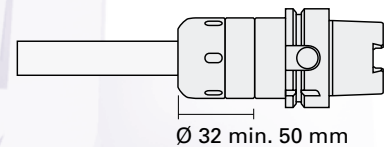
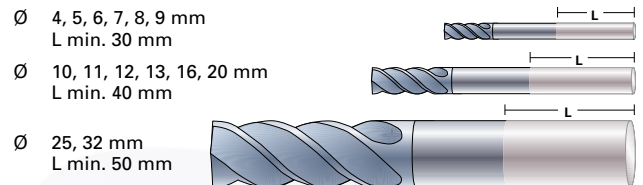
MC32-OH | Collets for CT32S



ID Code	Item-Code	Stock	Shank Ø
NT052	MC32-4OH	■	4
NT053	MC32-5OH	■	5
NT054	MC32-6OH	■	6
NT055	MC32-7OH	■	7
NT056	MC32-8OH	■	8
NT057	MC32-9OH	■	9
NT048	MC32-10OH	■	10
NT049	MC32-11OH	■	11
NT151	MC32-12OH	■	12
NT050	MC32-13OH	■	13
NT152	MC32-16OH	■	16
NT153	MC32-20OH	■	20
NT154	MC32-25OH	■	25
	direct		32

■ = Stock | Germany

CHUCKING LENGTH OF CUTTING TOOL (RECOMMENDED):



Product Range

Solid Carbide End Mills

micro**EndMill**

CBN
Cubic Boron Nitride

HD
COATING

Epoch21

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Milling

ESM Speed End Mills

EMC Power Drills

ESM
SPEED

Milling Chucks

Milling
Chucks

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