

WERKZEUGAUFNAHMEN UND AUSBOHRSYSTEME

EDITION 01.2



NIKKEN



NIKKEN Innovation Center Europe - NiCe

Das Unternehmen

NIKKEN Kosakusho Limited wurde 1958 in Osaka, Japan gegründet. Heute hat NIKKEN Geschäftsaktivitäten auf drei Kontinenten und Büros in über 70 Ländern. In Europa arbeiten für NIKKEN rund 100 und global über 700 Mitarbeiter, die das Herz des Unternehmens bilden und die einzigartigen Standards in Qualität und Leistung der Produkte wahren. Die Produktpalette umfasst mehr als 15.000 Artikel.

NIKKEN's marktführende Lösungen beinhalten:

- Hochpräzise Werkzeughalter
- Modulares Ausbohrsystem
- Werkzeugvoreinstellgeräte
- Leistungsfähige CNC-Rundachsen
- Lösungen zur Spindeloptimierung



Das grosse Angebot an hochpräzisen und langlebigen Lösungen wird in anspruchsvollen Fertigungsumgebungen in den Bereichen Luft- und Raumfahrt, Medizintechnik, Öl- und Gasindustrie, Automotive, Energietechnik sowie im Werkzeug- und Formenbau eingesetzt.

NIKKEN Kosakusho ist ständig bestrebt, ihre Technologien durch Forschung und Entwicklung, Innovation und Branchenkenntnis zu verbessern, um sicherzustellen, dass Ihre Kunden in ihren anspruchsvollen Marktsektoren noch konkurrenzfähiger und erfolgreicher werden.

NIKKEN Kosakusho Europe, mit Sitz nahe Sheffield (UK), ist eine Tochtergesellschaft der NIKKEN Kosakusho Works LTD in Japan, mit der Hauptverantwortung, den Import und die Verteilung der kompletten NIKKEN Produktpalette in Europa zu gewährleisten. NIKKEN betreibt ein branchenführendes Forschungs- und Entwicklungszentrum, das NIKKEN Innovation Centre Europe (NiCe), welches im Herzen der fortschrittlichen Fertigung in Rotherham (UK) angesiedelt ist.

NIKKEN'S BEKENNTNIS ZUR NACHHALTIGKEIT

NIKKEN hat sich von Anfang an einer nachhaltigen Entwicklung verschrieben. Letztendlich ist das Ziel, die Umweltauswirkungen zu minimieren, indem sichergestellt wird, dass jede NIKKEN Lösung und jedes Produkt eine ultimative Langlebigkeit, Leistung und Beständigkeit bietet.

Schnittstellenübersicht

HSK – ISO 12164-1/DIN69893 1/10

HSK Form A

- Gleichzeitiger Bund und Kegelkontakt
- Mitnehmernuten am Kegel

HSK Form E

- Symmetrische Bauform ohne Mitnehmernuten
- Ausgelegt für hohe Drehzahlen



IT – ISO DIN 69871

- Sehr verbreitet in Europa
- Benötigt Anzugsbolzen
- Bezeichnung IT, DV oder SK
- NIKKEN Bezeichnung mit Bundkontakt NIT/ MIT



BT – JIS B 6339

- Benötigt Anzugsbolzen
- Bezeichnung BT
- NIKKEN Bezeichnung mit Bundkontakt NBT/ MBT



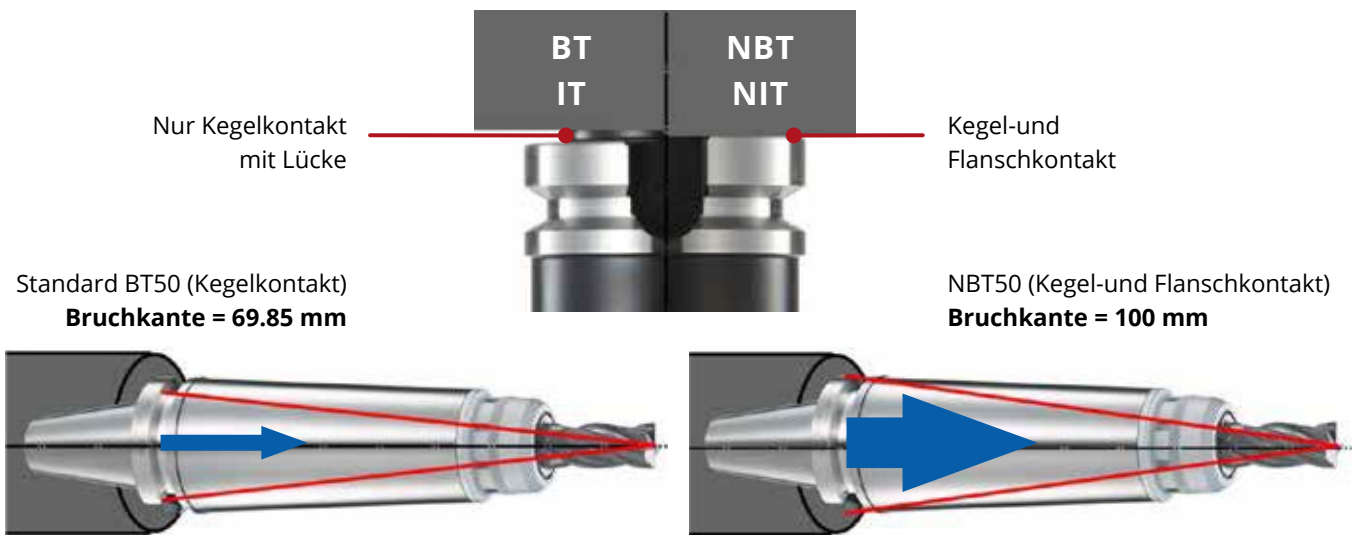
POLYGONSCHAFT – ISO/DIS 26623

- Polygonkegel
- Gleichzeitiger Bund und Kegelkontakt
- Orientierungs Nute

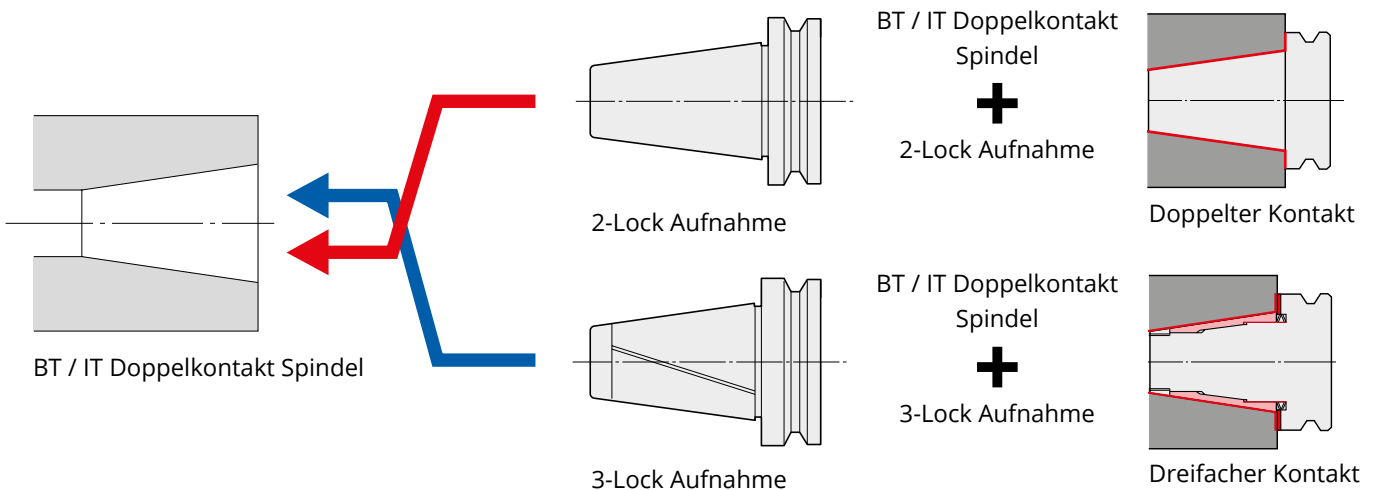


ÜBERSICHT DER HÄUFIGSTEN SCHNITTSTELLEN

Flansch Durchmesser	HSK (DIN)	IT/SK (DIN)	IT/SK (DIN) 2-Lock / BIG+	IT/SK (DIN) 3-Lock	BT (JIS)	BT 2-Lock/ BIG+	BT 3-Lock	Polygon-schaft
25 mm	HSK25	-	-	-	-	-	-	-
32 mm	HSK32	-	-	-	-	-	-	C3
40 mm	HSK40	-	-	-	-	-	-	C4
46 mm	-	-	-	-	BT30	NBT30	-	-
50 mm	HSK50	-	-	-	-	-	-	C5
63 mm	HSK63	IT40	NIT40	MIT40	BT40	NBT40	MBT40	C6
100 mm	HSK100	IT50	NIT40	MIT50	BT50	NBT50	MBT50	C10



Die übliche Bezeichnung in der Maschinenindustrie für diese Option an der Spindel wird oft „BIG+“ oder „Dual Contact“ genannt. NIKKEN's voll kompatible Produkte und Lösungen basieren auf unseren 2-LOCK (NBT/NIT) und 3-LOCK (MBT/ MIT) Steilkegelaufnahmen. Die 2-Lock Aufnahmen können auch in konventionellen Spindel eingesetzt werden. 3-Lock Aufnahmen benötigen zwingend eine BIG+ oder Dual Contact Spindel.



Systemübersicht

System	Slim Chuck Standard	Slim Chuck High Speed	VC Holder	Mini Mini	Major Dream
Kurzform	SK	SK-P	VC	MMC	MD
Systemeigenschaften und Zubehör	Seite 10-17	Seite 10-17	Seite 18-19	Seite 20-21	Seite 22-23

Die Tabelle verweist zu den jeweiligen Seitenzahlen.



	Schnittstelle					
HSK DIN 69893 Form A	HSK40A	60	62	66		
	HSK50A	60	62	66	68	70
	HSK63A	60	62-65	68	68	70
	HSK100A	60-63	64	68	68	70
	HSK125A					
HSK DIN 69893 Form E	HSK25E		64			
	HSK32E		64			
	HSK40E		64	66		
	HSK50E		64-67	68		
	HSK63E		66	68	68	
HSK DIN 96893 Form F	HSK63F		66	68	68	
IT Steilkegelschaft DIN 69871	IT40	82	86	88	88	
	IT50	82	86	88	88	
	NIT40	82	86	88	88	90
	NIT50	82-85	86	88	88	90
	MIT40	84	86	88	88	
	MIT50	84	86	88	89	
BT JIS B6339 MAS 403	BT30	104	110	116	118	
	BT40	104	110	116	118	
	BT50	104-107	110-113	116	118	
	NBT30	106	112	116	118	118
	NBT40	106	112	116	118	118-121
	NBT50	106	112	116	118	120
	MBT40	108	114	116	118	
	MBT50	108	114	116	118	
Polygonschaft Polygoner Hohlkegel Schaft ISO 26223-1	C5	134	136			
	C6	134	136			138
	C8	134	136			
Zylinderschaft (Multi Lock Verlängerung)	K20	142			144	
	K22	142				
	K25	142				
	K32	142			144	
	K42	142				
Zylinderschaft	S25	142				
	S32	142				
	S42					

Multi Lock	Multi Lock High Speed	X-Treme	Zero Fit Slim Chuck	Zero Fit Multi Lock	Modulare Grundhalter
C	C-G	C-EX	SZF	CZF	Q
Seite 24-29	Seite 24-29	Seite 30-31	Seite 32-33	Seite 32-33	Seite 34-37



	72	74		76	78	
	72	74		76	78	
	72	74	76	76	78-81	
	72	74	76	76	78-81	
			76			
		74				
		74				
		74				
		74				
	90	94		96	98	100
	92	94		96	98	100
	92	94	96	96	98	101-102
	92	94	96	96	98	102-103
	92	94				103
	92	94				103
	120	124		126	128	130
	120	124		126	128	130
	122	124		126	128	130
	122	124		126	128	131
	122	124	126	126	128	131-132
	122	124	126	126-129	128	132-133
	122	124		128	128	133
	122	124		128	128	133
	138	140				140
	138	140				140
	138	140				
						145
						145
	144					
	144					

Ausbohrsysteme

Bezeichnung

Modulare
Komponenten

RAC

ZMAC

Eigenschaften, Sortiment
und Zubehör

Seite
36-37

Seite
38-41

Seite
42-47



DJ Boring

Seite
48-51

eMAC

Seite
52-55

RAC Alpha / BAC Alpha
(grosse Durchmesser)

Seite
56-57



Slim Chuck

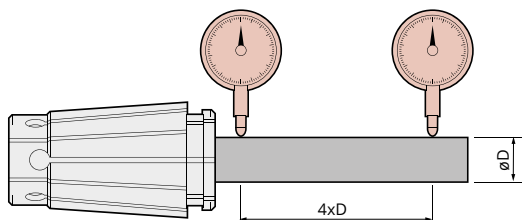
Das Slim Chuck beinhaltet NIKKEN's exklusive TiN (Titanitrid) Lagerscheibentechnologie. Diese erlaubt eine verbesserte Spannung des Werkzeuges mit sehr hoher Rundlaufgenauigkeit.



EIGENSCHAFTEN

- Schlanker und kompakter Körper und Spannmutter
- 8° Spannzange mit Plananlage in der Spannmutter
- Übertreffende Spannkraft
- Patentierte einzigartige TiN Lagerscheibe
- Einfach, kompakt und vielseitig
- Jet & Ikz verfügbar
- Spannbereich: \varnothing 0.7-25.4 mm

RUNDLAUF DER SPANNZANGE (SK)



Spannzangentyp	Max. Rundlauf	
	An der Spannzange	Bei 4xD
Standard	1 μ	5 μ
P	1 μ	3 μ
A/AC	1 μ	3 μ

Standard = universell

P = Präzisions-Spannzange

A = Präzisions-Spannzange ohne Spannbereich / mind. h8 Schaft

AC = Präzisions-Spannzange ohne Spannbereich / mind. h8 Schaft / metallisch dichtend

TiN LAGERSCHEIBE

Einfaches und kompaktes Design für Hochgeschwindigkeits-Anwendungen

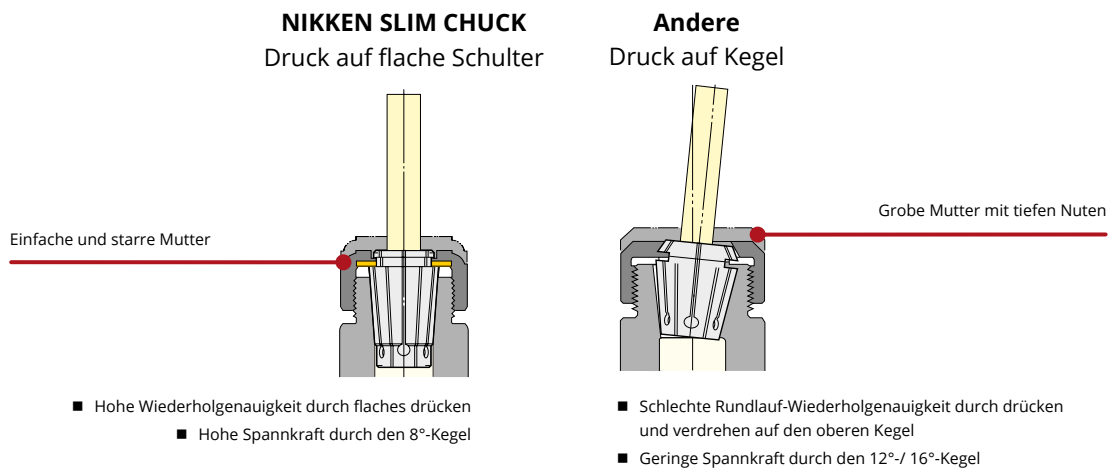
TiN Lagerscheibe

8° Spannzange mit höherer Steifigkeit für bessere Genauigkeit und höhere Spannkraft

Spezielle Beschichtung für hohe Effizienz

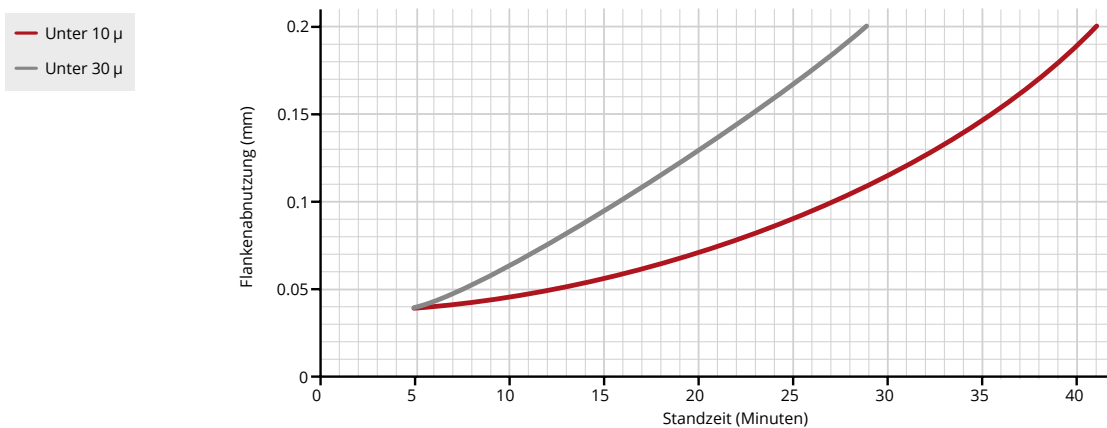


Standard Slim Chuck / High Speed Slim Chuck-P		
Grösse	∅ Aussenkontur	∅ Spannbereich
SK6	19.5	0.7-6.0
SK10	27.5	1.75-10.0
SK13	33	2.75-13.0
SK16	40	2.75-16.0
SK20	48.5	3.5-20.0
SK25	55	7.5-25.4



RUNDLAUF VS. ABNUTZUNG (+30 % STANDZEIT)

Das untere Diagramm zeigt die Abhängigkeit der Standzeit zu verändertem Rundlauf. Um das zu verdeutlichen wurde unser Zero Fit Slim Chuck beim Profilfräsen von Titan (Ti6Al-4V) eingesetzt und der Rundlauf gezielt verändert.



SKT-P - konisches Design
(nur in Verbindung mit 2-Lock oder 3-Lock)

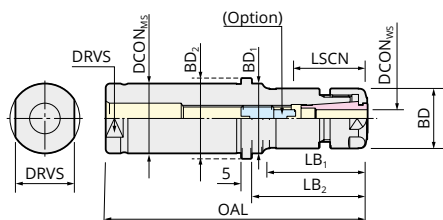
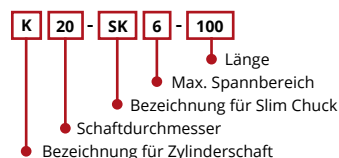
Slim Chuck

SLIM CHUCK ZYLINDERAUFNAHMEN

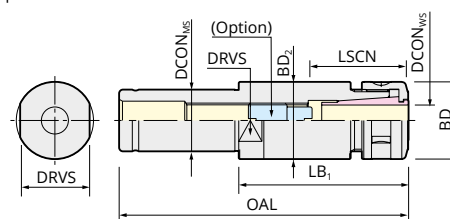


K-SK

Aufbau der Bezeichnung



Empfohlen für Multi Lock



Bezeichnung	DCON _{ws}	LB ₁	LB ₂	BD	BD ₁	BD ₂	DRVS	LSCN	G No. (Option)	Gewicht (kg)	SK Abb.	Spann- zange
K20-SK6-100, 120	0.7-6.0	37, 57		19.5		27	18	21-35	SKG-8	0.2, 0.2	1	SK 6
K20-SK10-100, 120	1.75-10.0	40, 60		27.5		27.5	18	30-50	SKG-12L	0.3, 0.3	2	SK10
K22-SK6-100, 120	0.7-6.0	37, 57		19.5		27	19	21-35	SKG-8	0.2, 0.2	1	SK6
K22-SK10-100, 120	1.75-10.0	40, 60		27.5		27.5	19	30-50	SKG-12L	0.3, 0.3	2	SK10
K25-SK6-100, 130	0.7-6.0	32, 62		19.5		30	22	21-35	SKG-8	0.3, 0.3	1	SK6
K25-SK10-120, 150	1.75-10.0	50, 80		27.5		30	22	30-50	SKG-12L	0.4, 0.5	1	SK10
K32-SK6-120, 140, 170	0.7-6.0	45, 65, 63	53, 73, 100	19.5	32, 32, 24	37	27	21-35	SKG-8	0.5, 0.5, 0.5	1	SK6
K32-SK10-120, 150, 180, 210	1.75-10.0	45, 75, 75, 75	53, 83, 111, 141	27.5	32, 32, 31.5, 33.5	37	27	30-50	SKG-12L	0.6, 0.7, 0.8, 1.0	1	SK10
K32-SK13-120, 150, 180, 210	2.75-13.0	52, 82, 112, 142		33		37	27	31-65	SKG-15	0.7, 0.8, 1.0, 1.2	1	SK13
K32-SK16-120, 150, 180, 210	2.75-16.0	58, 88, 118, 148		40		40	36	45-70	SKG-18L	0.7, 0.9, 1.2, 1.4	2	SK16
K32-SK20-120, 150, 180	3.5-20.0	58, 88, 118		48.5		40	41	47-80	SKG-22	0.9, 1.3, 1.7	2	SK20
K32-SK25-150	7.5-25.4	88		55		42	46	55-65	SKG-18L	1.3	2	SK25
K42-SK6-150, 170	0.7-6.0	52, 62	61, 78	19.5	32	47	36	21-35	SKG-8	1.0, 1.1	1	SK6
K42-SK10-150, 180	1.75-10.0	56, 78		27.5		47	36	30-50	SKG-12L	1.1, 1.3	1	SK10
K42-SK13-150, 180	2.75-13.0	56, 86		33		47	36	31-65	SKG-15		1	SK13
K42-SK16-150, 180	2.75-16.0	58, 88		40		47	36	45-70	SKG-18L	1.2, 1.4	1	SK16
K42-SK20-150, 180	3.5-20.0	68, 98		48.5		48.5	36	47-80	SKG-22		1	SK20
K42-SK25-170	7.5-25.4	88		55		44.5	46	55-65	SKG-18L	1.5, 1.9	2	SK25

Weitere Details zu den Zylinderaufnahmen s. Seite 142 ff.

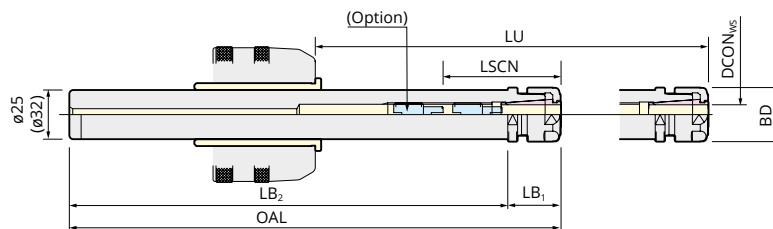
SLIM CHUCK EXTRA LANGE ZYLINDER AUSFÜHRUNG



Slim Chuck extra lang



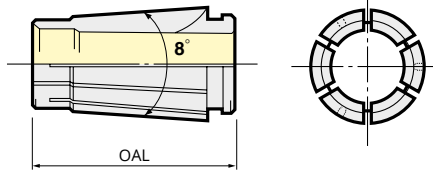
S-SK-X Hartmetall-Ausführung / z. B. S25-SK10X-250



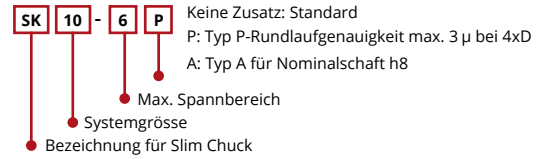
Bezeichnung	DCON _{ws}	OAL	LB ₁	LB ₂	BD	LU	LSCN	G No. (Option)	Gewicht (kg)	SK Spann- zange
S25-SK10-250	1.75-10.0	250	27	223	27.5	145-200	30-60	SKG-12L	0.9	SK10
S25-SK10-300	1.75-10.0	300	27	273	27.5	195-250	30-60	SKG-12L	1.1	SK10
S32-SK13-250	2.75-13.0	250	26	224	33	145-185	31-65	SKG-15	1.4	SK13
S32-SK13-300	2.75-13.0	300	26	274	33	195-235	31-65	SKG-15	1.7	SK13
S32-SK16-250	2.75-16.0	250	58	192	40	145-185	40-70	SKG-18	1.5	SK16
S32-SK16-300	2.75-16.0	300	58	242	40	195-235	40-70	SKG-18	1.8	SK16

Weitere Details zu den Zylinderaufnahmen s. Seite 142 ff.

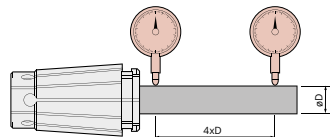
SLIM CHUCK SPANNZANGEN



Aufbau der Bezeichnung



Bezeichnung	Spannereich	Bezeichnung	Spannereich	Bezeichnung	Spannereich	Bezeichnung	Spannereich	Bezeichnung	Spannereich
SK6-0.8	0.7-0.8	SK13-3	2.75-3.0	SK16-3	2.75-3.0	SK20-4	3.5-4.0	SK25-8	7.5-8.0
SK6-1	0.9-1.0	SK13-3.5	3.0-3.5	SK16-3.5	3.0-3.5	SK20-4.5	4.0-4.5	SK25-10	9.5-10.0
SK6-1.25	1.15-1.25	SK13-4	3.5-4.0	SK16-4	3.5-4.0	SK20-5	4.5-5.0	SK25-12	11.5-12.0
SK6-1.5	1.3-1.5	SK13-4.5	4.0-4.5	SK16-4.5	4.0-4.5	SK20-5.5	5.0-5.5	SK25-16	15.5-16.0
SK6-1.75	1.55-1.75	SK13-5	4.5-5.0	SK16-5	4.5-5.0	SK20-6	5.5-6.0	SK25-16.5	16.0-16.5
SK6-2	1.8-2.0	SK13-5.5	5.0-5.5	SK16-5.5	5.0-5.5	SK20-6.5	6.0-6.5	SK25-17	16.5-17.0
SK6-2.25	2.05-2.25	SK13-6	5.5-6.0	SK16-6	5.5-6.0	SK20-7	6.5-7.0	SK25-17.5	17.0-17.5
SK6-2.5	2.3-2.5	SK13-6.5	6.0-6.5	SK16-6.5	6.0-6.5	SK20-7.5	7.0-7.5	SK25-18	17.5-18.0
SK6-2.75	2.55-2.75	SK13-7	6.5-7.0	SK16-7	6.5-7.0	SK20-8	7.5-8.0	SK25-18.5	18.0-18.5
SK6-3	2.8-3.0	SK13-7.5	7.0-7.5	SK16-7.5	7.0-7.5	SK20-8.5	8.0-8.5	SK25-19	18.5-19.0
SK6-3.5	3.0-3.5	SK13-8	7.5-8.0	SK16-8	7.5-8.0	SK20-9	8.5-9.0	SK25-19.5	19.0-19.5
SK6-4	3.5-4.0	SK13-8.5	8.0-8.5	SK16-8.5	8.0-8.5	SK20-9.5	9.0-9.5	SK25-20	19.5-20.0
SK6-4.5	4.0-4.5	SK13-9	8.5-9.0	SK16-9	8.5-9.0	SK20-10	9.5-10.0	SK25-20.5	20.0-20.5
SK6-5	4.5-5.0	SK13-9.5	9.0-9.5	SK16-9.5	9.0-9.5	SK20-10.5	10.0-10.5	SK25-21	20.5-21.0
SK6-5.5	5.0-5.5	SK13-10	9.5-10.0	SK16-10	9.5-10.0	SK20-11	10.5-11.0	SK25-21.5	21.0-21.5
SK6-6	5.5-6.0	SK13-10.5	10.0-10.5	SK16-10.5	10.0-10.5	SK20-11.5	11.0-11.5	SK25-22	21.5-22.0
SK10-1	0.9-1.0	SK13-11	10.5-11.0	SK16-11	10.5-11.0	SK20-12	11.5-12.0	SK25-22.5	22.0-22.5
SK10-1.25	1.15-1.25	SK13-11.5	11.0-11.5	SK16-11.5	11.0-11.5	SK20-12.5	12.0-12.5	SK25-23	22.5-23.0
SK10-1.5	1.3-1.5	SK13-12	11.5-12.0	SK16-12	11.5-12.0	SK20-13	12.5-13.0	SK25-23.5	23.0-23.5
SK10-1.75	1.55-1.75	SK13-12.5	12.0-12.5	SK16-12.5	12.0-12.5	SK20-13.5	13.0-13.5	SK25-24	23.5-24.0
SK10-2	1.75-2.0	SK13-13	12.5-13.0	SK16-13	12.5-13.0	SK20-14	13.5-14.0	SK25-24.5	24.0-24.5
SK10-2.25	2.0-2.25			SK16-13.5	13.0-13.5	SK20-14.5	14.0-14.5	SK25-25	24.5-25.0
SK10-2.5	2.25-2.5			SK16-14	13.5-14.0	SK20-15	14.5-15.0	SK25-25.4	25.0-25.4
SK10-2.75	2.5-2.75			SK16-14.5	14.0-14.5	SK20-15.5	15.0-15.5		
SK10-3	2.75-3.0			SK16-15	14.5-15.0	SK20-16	15.5-16.0		SK6 OAL = 25
SK10-3.5	3.0-3.5			SK16-15.5	15.0-15.5	SK20-16.5	16.0-16.5		SK10 OAL = 30.5
SK10-4	3.5-4.0			SK16-16	15.5-16.0	SK20-17	16.5-17.0		SK13 OAL = 39
SK10-4.5	4.0-4.5					SK20-17.5	17.0-17.5		SK16 OAL = 45
SK10-5	4.5-5.0					SK20-18	17.5-18.0		SK20 OAL = 54.2
SK10-5.5	5.0-5.5					SK20-18.5	18.0-18.5		SK25 OAL = 57
SK10-6	5.5-6.0					SK20-19	18.5-19.0		
SK10-6.5	6.0-6.5					SK20-19.5	19.0-19.5		
SK10-7	6.5-7.0					SK20-20	19.5-20.0		
SK10-7.5	7.0-7.5								
SK10-8	7.5-8.0								
SK10-8.5	8.0-8.5								
SK10-9	8.5-9.0								
SK10-9.5	9.0-9.5								
SK10-10	9.5-10.0								



Spannzangentyp	Max. Rundlauf	
	An der Spannzange	Bei 4xD
Standard	1 µ	5 µ
P	1 µ	3 µ
A/AC	1 µ	3 µ

Standard = universell
P = Präzisions-Spannzange
A = Präzisions-Spannzange ohne Spannereich / mind. h8 Schaft
AC = Präzisions-Spannzange ohne Spannereich / mind. h8 Schaft / metallisch dichtend

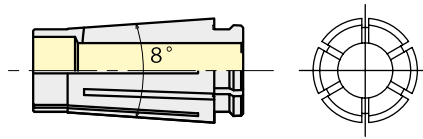
Slim Chuck Spannzangen Typ A

- SK6-3A, 4A, 5A, 6A
- SK10-3A, 4A, 5A, 6A, 8A, 10A
- SK13-3A, 4A, 5A, 6A, 8A, 10A, 12A, 13A
- SK16-3A, 4A, 5A, 6A, 8A, 10A, 12A, 14A, 16A
- SK20-4A, 5A, 6A, 8A, 10A, 12A, 16A, 20A
- SK25-8A, 10A, 12A, 16A, 20A, 25A

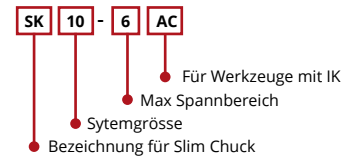
Andere Abmessungen auf Anfrage

Slim Chuck

SPANNZANGEN FÜR WERKZEUGE MIT INNENKÜHLUNG (SK-AC)



Aufbau der Bezeichnung



SK-AC die empfohlene Schafttoleranz ist mind. h8.
Rundlauf bei AC Spannzange ist max. 3 µ bei 4xD

Systemgröße	Bezeichnung	Spanndurchmesser
SK6	SK6-3AC	3.0
	SK6-4AC	4.0
	SK6-5AC	5.0
	SK6-6AC	6.0
SK10	SK10-3AC	3.0
	SK10-4AC	4.0
	SK10-5AC	5.0
	SK10-6AC	6.0
	SK10-7AC	7.0
	SK10-8AC	8.0
	SK10-9AC	9.0
SK13	SK10-10AC	10.0
	SK13-4AC	4.0
	SK13-5AC	5.0
	SK13-6AC	6.0
	SK13-7AC	7.0
	SK13-8AC	8.0
	SK13-9AC	9.0
SK16	SK13-10AC	10.0
	SK13-11AC	11.0
	SK13-12AC	12.0
	SK16-6AC	6.0
	SK16-7AC	7.0
	SK16-8AC	8.0
	SK16-9AC	9.0
SK20	SK16-10AC	10.0
	SK16-11AC	11.0
	SK16-12AC	12.0
	SK16-13AC	13.0
	SK16-14AC	14.0
	SK16-15AC	15.0
	SK16-16AC	16.0
SK25	SK20-12AC	12.0
	SK20-16AC	16.0
	SK20-20AC	20.0
SK25	SK25-16AC	16.0
	SK25-20AC	20.0
	SK25-25AC	25.0

Schnelle und einfache Lösung für die Innenkühlung

Slim Chuck
Major Dream



SK Standard Mutter
SKT / MDSK Standard Mutter



SK-AC Spannzange



Vorsicht!
Kühlmittel könnte unerwünscht austreten wenn das Werkzeug eine flachen Bereich hat (Weldon / Wisthle-Notch)



In dieser Box können SK Spannzangen organisiert und sicher gelagert werden.

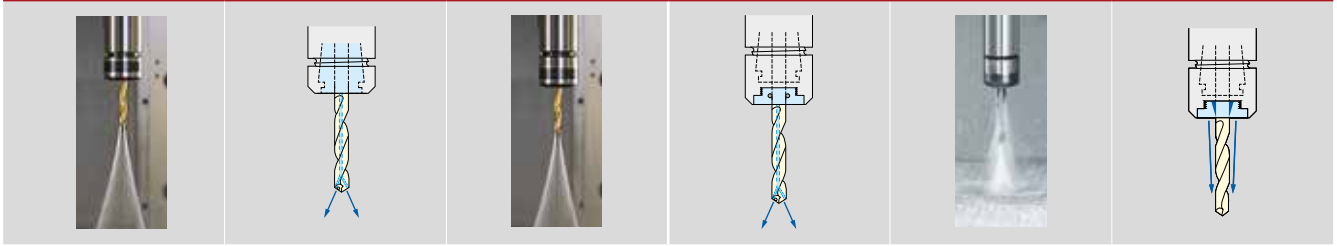


Bezeichnung	Spannzange	Kapazität (Stk.)	Dimension
SKBX-10	SK10	60	W 300 × H 100 × D 200mm
SKBX-16	SK16	24	
SKBX-610	SK6	26	
SKBX-610	SK10	40	
SKBX-1316	SK13	24	
SKBX-1316	SK16	14	

SLIM CHUCK KÜHLMITTEL LÖSUNGEN

SCHNEIDWERKZEUG MIT INNENKÜHLUNG

JET-KÜHLSYSTEM

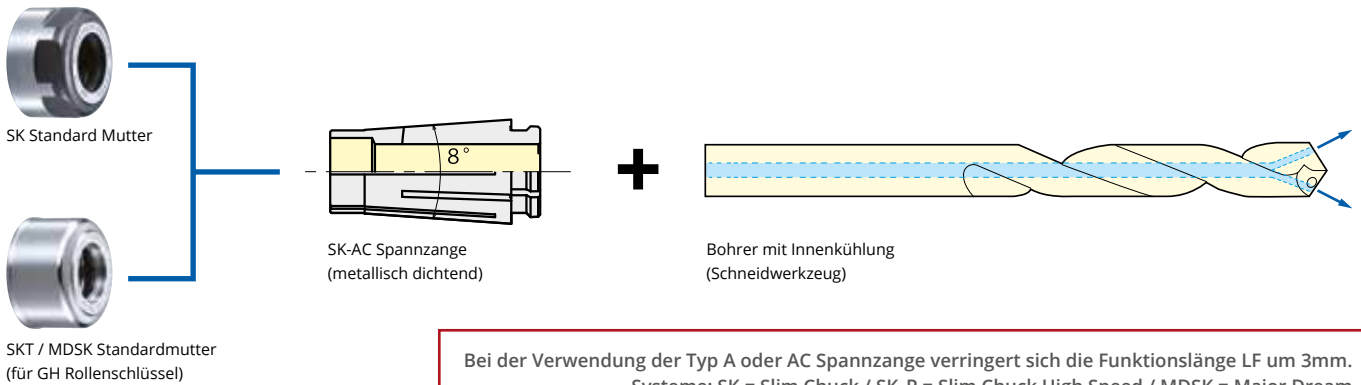


1 Standard Mutter und SK-AC Spannzange

2 J-Typ Mutter mit Standard Spannzange und O-Ring Abdeckkappe

3 J-Typ Mutter mit Standard Spannzange und Jet Abdeckkappe

1 Schneidwerkzeug mit Innenkühlung SK STANDARD MUTTER UND SK-AC SPANNZANGE

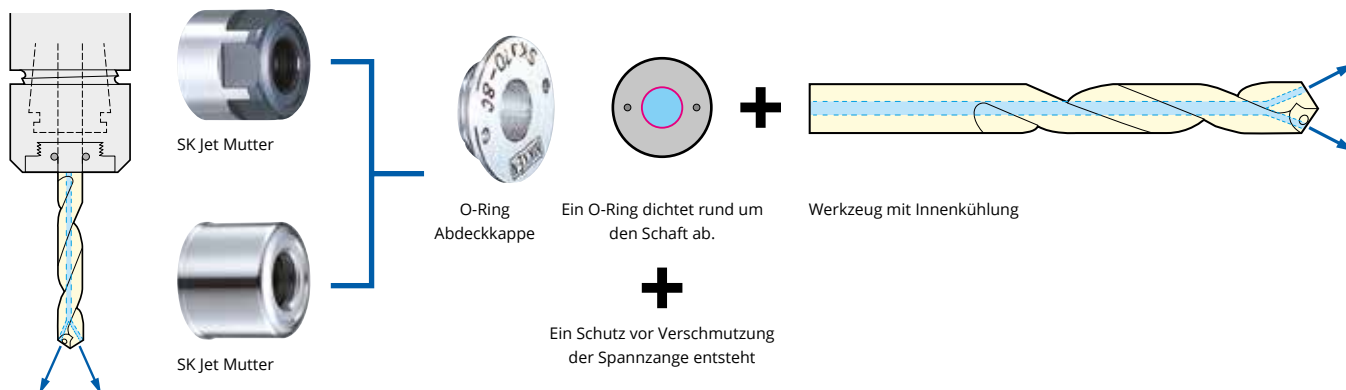


System	Standardmutter mit Gabelschlüssel		Mutter mit Rollenschlüssel		AC Spannzange (optional)
	Mutter Bezeichnung	Gabelschlüssel (optional)	Mutter Bezeichnung	Rollenschlüssel (optional)	
SK6 SK6 (P)	SKN-6WK	SKL-6W	SKN-6WK (GH)	GH6	SK6-3AC, 4AC, 5AC, 6AC
SKT6 MDSK6	SKTN-6K		MDSKN-6K		
SK10 SK10 (P)	SKN-10K	SKL-10	SKN-10K (GH)	GH10	SK10-3AC, 4AC, 5AC, 6AC, 7AC, 8AC, 9AC, 10AC
SKT10 MDSK10	SKTN-10K		MDSKN-10K		
SK13 SK13 (P)	SKN-13B	9HC12A	SKN-13B (GH)	GH12	SK13-4AC, 5AC, 6AC, 7AC, 8AC, 9AC, 10AC, 11AC, 12AC
SKT13 MDSK13	SKTN-13B		MDSKN-13B		
SK16 SK16 (P)	SKN-16B	9HC16	SKN-16B (GH)	GH16	SK16-6AC, 7AC, 8AC, 9AC, 10AC, 11AC, 12AC, 13AC, 14AC, 15AC, 16AC
SKT16 MDSK16	SKTN-16B		MDSKN-16B		
SK20 SK20 (P)	SKN-20B	9HC22	SKN-20B (GH)	GH20	SK20-12AC, 16AC, 20AC, 25AC
SKT20 MDSK20	SKTN-20B		MDSKN-20B		
SK25 SK25 (P)	SKN-25B	9HC25	SKN-25B (GH)	GH25	SK25-16AC, 20AC, 25AC
SKT25 MDSK25	SKTN-25B		MDSKN-25B		

Slim Chuck

2 Schneidwerkzeug mit Innenkühlung (Bohrer)

JET TYP MUTTER MIT STANDARD SPANNZANGE UND ABDECKKAPPE MIT O-RING



Die Jet Mutter ist 6mm länger als die Standard Mutter. Bei der Verwendung der Typ A oder AC Spannzange verringert sich die Funktionslänge LF um 3mm.

System	Auswahl Spannzange	Abgebildetes Zubehör ist optional				
		Jet Mutter		Schlüssel	O-Ring Abdeckkappe	Schlüssel für Abdeckkappe
		SK, SK-P	SKT, MDSK			
SK6, SK6 (P) (High Speed) MDSK6 SKT6	SK6-□.□ SK6-□.□P SK6-□.□A	SKN-6WKJ	SKTN-6KJ	SKL-6W	O-Ring Abdeckkappe	SKJL-6
		SKN-6WKJ (GH)	MDSKN-6KJ	GH6	SKJ 6-3C, 3.3C, 4C, 4.2C, 5C, 6C	
SK10, SK10 (P) (High Speed) MDSK10 SKT10	SK10-□.□ SK10-□.□P SK10-□.□A	SKN-10KJ	SKTN-10KJ	SKL-10	O-Ring Abdeckkappe	SKJL-10
		SKN-10KJ (GH)	MDSKN-10KJ	GH10	SKJ10-3C, 4C, 5C, 5.5C, 6C, 6.2C, 6.8C, 7C, 8C, 8.5C, 10C	
SK13, SK13 (P) (High Speed) MDSK13 SKT13	SK13-□.□ SK13-□.□P SK13-□.□A	SKN-13BJ	SKTN-13BJ	9HC12A	O-Ring Abdeckkappe	SKJL-16
		SKN-13BJ (GH)	MDSKN-13BJ	GH12	SKJ16-7C, 8C, 8.5C, 10C, 10.3C, 12C, 12.5C	
SK16, SK16 (P) (High Speed) MDSK16 SKT16	SK16-□.□ SK16-□.□P SK16-□.□A	SKN-16BJ	MDSKN-16BJ	9HC16	O-Ring Abdeckkappe	SKJL-16
		SKN-16BJ (GH)	MDSKN-16BJ	GH16	SKJ16-7C, 8C, 8.5C, 10C, 10.3C, 12C, 12.5C, 14C, 15C, 16C	
SK20, SK20 (P) (High Speed) MDSK20 SKT20	SK20-□.□ SK20-□.□P SK20-□.□A	SKN-20BJ	SKTN-20BJ	9HC22	O-Ring Abdeckkappe	SKJL-25
		SKN-20BJ (GH)	MDSKN-20BJ	GH20	SKJ25-8C, 10C, 12C, 16C, 17.5C, 20C	
SK25, SK25 (P) (High Speed) MDSK25 SKT25	SK25-□.□ SK25-□.□P SK25-□.□A	SKN-25BJ	SKTN-25BJ	9HC25	O-Ring Abdeckkappe	SKJL-25
		SKN-25BJ (GH)	MDSKN-25BJ	GH25	SKJ25-8C, 10C, 12C, 16C, 17.5C, 20C, 25C	

3 Schneidwerkzeug ohne Innenkühlung (Jet System)
JET TYP MUTTER MIT STANDARD SPANNZANGE UND JET ABDECKKAPPE



Die Jet Mutter ist 6mm länger als die Standard Mutter. Bei der Verwendung der Typ A oder AC Spannzange verringert sich die Funktionslänge LF um 3mm.

System	Auswahl Spannzange	Abgebildetes Zubehör ist optional				
		Jet Mutter		Schlüssel	Jet Abdeckkappe	Schlüssel für Abdeckkappe
		SK, SK-P	SKT, MDSK			
SK6, SK6 (P) (High Speed) MDSK6 SKT6	SK6-□.□ SK6-□.□P SK6-□.□A	SKN-6WKJ	SKTN-6KJ	SKL-6W	SKJ 6-3, 3.3, 4, 4.2, 5, 6	SKJL-6
		SKN-6WKJ (GH)	MDSKN-6KJ	GH6		
SK10, SK10 (P) (High Speed) MDSK10 SKT10	SK10-□.□ SK10-□.□P SK10-□.□A	SKN-10KJ	SKTN-10KJ	SKL-10	SKJ10-3, 4, 5, 5.5, 6, 6.2, 6.8, 7, 8, 8.5, 10	SKJL-10
		SKN-10KJ (GH)	MDSKN-10KJ	GH10		
SK13, SK13 (P) (High Speed) MDSK13 SKT13	SK13-□.□ SK13-□.□P SK13-□.□A	SKN-13BJ	SKTN-13BJ	9HC12A	SKJ16-7, 8, 8.5, 10, 10.3, 12, 12.5	SKJL-16
		SKN-13BJ (GH)	MDSKN-13BJ	GH12		
SK16, SK16 (P) (High Speed) MDSK16 SKT16	SK16-□.□ SK16-□.□P SK16-□.□A	SKN-16BJ	MDSKN-16BJ	9HC16	SKJ16-7, 8, 8.5, 10, 10.3, 12, 12.5, 14, 15, 16	
		SKN-16BJ (GH)	MDSKN-16BJ	GH16		
SK20, SK20 (P) (High Speed) MDSK20 SKT20	SK20-□.□ SK20-□.□P SK20-□.□A	SKN-20BJ	SKTN-20BJ	9HC22	SKJ25-8, 10, 12, 16, 17.5, 20	
		SKN-20BJ (GH)	MDSKN-20BJ	GH20		
SK25, SK25 (P) (High Speed) MDSK25 SKT25	SK25-□.□ SK25-□.□P SK25-□.□A	SKN-25BJ	SKTN-25BJ	9HC25	SKJ25-8, 10, 12, 16, 17.5, 20, 25	
		SKN-25BJ (GH)	MDSKN-25BJ	GH25		

VC Holder

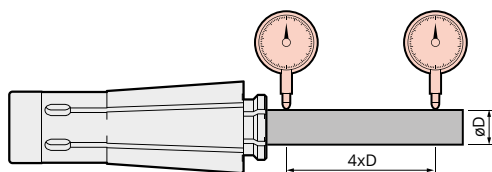
VC ist die Lösung für anspruchsvolle Fräs und Bohrprozesse. Viele Eigenschaften und Konstruktionsdetails wurden vom Slim Chuck Futter übernommen und auf eine höhere Leistung ausgelegt.



EIGENSCHAFTEN

- Verstärkte Spannmutter und grössere Wanddicken
- Ausgelegt für anspruchsvolle Fräsprozesse
- 8° Spannzange mit Zylinderführung
- Erstklassige Spannkraft
- Einzigartige TiN Lagerscheibe in der Spannmutter mit Feingewinde für grössere Kontaktflächen
- Jet & Ick verfügbar
- Spannbereich: \varnothing 3-12 mm

RUNDLAUF DER SPANNZANGE (VCK)



Max. Rundlauf	
An der Spannzange	Bei 4xD
1 μ	3 μ

ERHÖHTE FRÄSPERFORMANCE

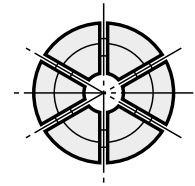
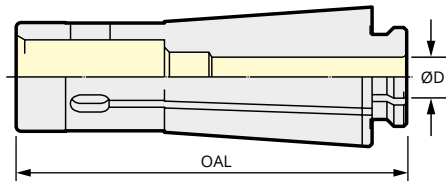
Stärkere Wandkonstruktion mit Feingewinde für verstärkte Klemmung und Steifigkeit

TiN Lagerscheibe

Spannzange mit 8° für höhere Genauigkeit und Spannkraft

Zylindrische Abstützung der Spannzange für erhöhte Fräseperformance





Spannzangenlängen OAL= VCK6-39.5mm / VCK13-54mm

VC Spannzange – Bezeichnung

VCK6-2, 3, (3.175), 4, 5, 6

VCK13-3, (3.175), 4, 5, 6, 7, 8, 9, 10, 11, 12

Jet Spannmutter







Abdeckkappe mit Schlitz für effektive Jet Kühlung



Abdeckkappe mit O-Ring für Schneidwerkzeuge mit Innenkühlung



System	Jet Typ Mutter	GH Rollenschlüssel	Abdeckkappe	Schlüssel zu Abdeckkappe
VC6	VCN-6BJ	GH10 	Typ Jet SKJ10-□.□ Typ O-Ring SKJ10-□.□C	 SKJL-10
VC13	VCN-13BJ	GH16 	Typ Jet SKJ16-□.□ Typ O-Ring SKJ16-□.□C	 SKJL-16

Mini Mini

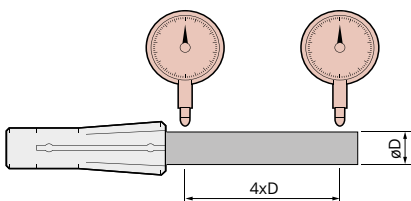
Das neue NIKKEN Mini Mini Advanced Alpha Futter ist das effektivste Produkt für die Bearbeitung mit kleinen Durchmessern und bei Applikationen mit begrenzten Platzverhältnissen oder problematischen Störkonturen.



EIGENSCHAFTEN

- Kompakte Konstruktion ohne Spannmutter
- Verbesserter interner Mechanismus
- Klemmen/Lösen mit einem einzigen Schlüssel
- 8° Spannzange mit Zylinderführung
- Neuer Typ: HSK „AT“ mit Direkteinzug über Zugstange zentrisch von hinten
- Jet & Ikz verfügbar
- Spannbereich: \varnothing 1-12 mm

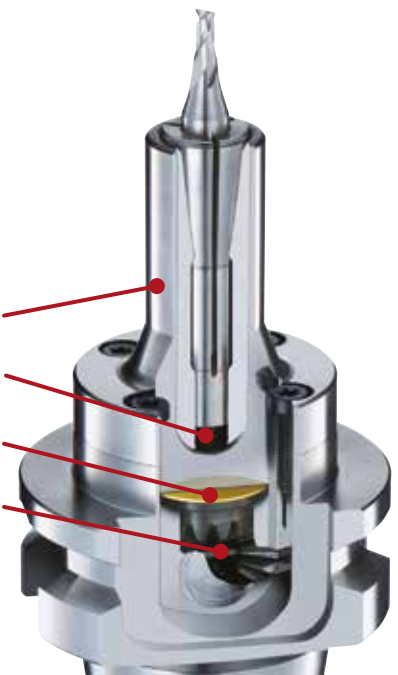
RUNDLAUF DER SPANNZANGE (PMK, VMK)



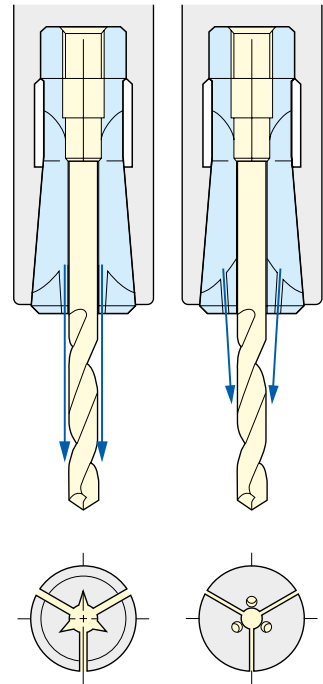
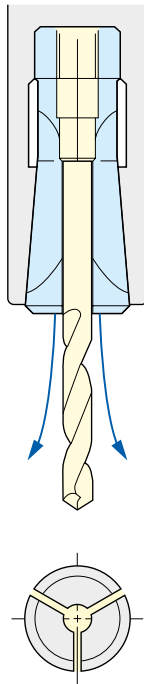
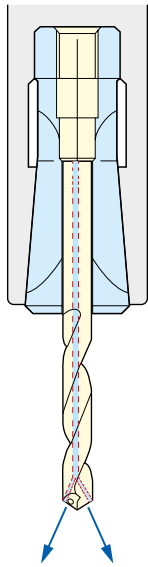
Max. Rundlauf	
An der Spannzange	Bei 4xD
1 μ	3 μ

NEUESTE GENERATION ALPHA KLEMMUNG

- Optimierte Materialien und Wärmebehandlung
- Verbesserte Führung der Zugstange durch einteilige Konstruktion
- Geschmeidiges Klemmen/Lösen durch zweifache TiN Lagerscheibe
- Verbessertes Zahnrad-Design für erhöhte Effizienz



Für Schneidwerkzeuge mit Innenkühlung **Für Schneidwerkzeuge ohne Innenkühlung (Bohrer / Fräser)**



(VMK8-2J, 3J)

Die VMK-Ausführung ist abgedichtet und somit ausgelegt für Schneidwerkzeuge mit Innenkühlung

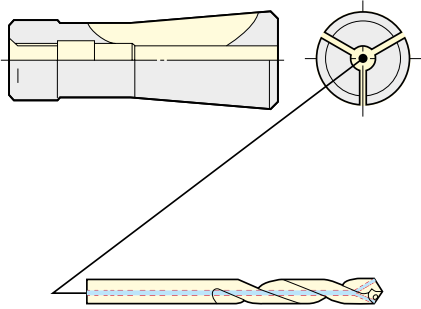
PMK sind Standard-Spannzangen

VMK-J-Spannzangen besitzen Jet-Kanäle oder Jet-Bohrungen für eine effektive Jet-Kühlung

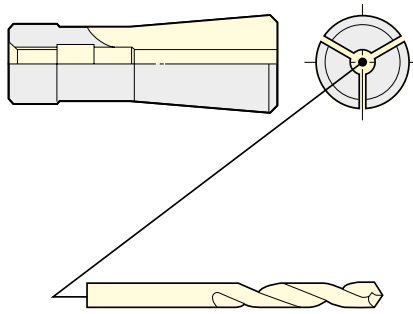
VMK-Spannzange

PMK-Spannzange (MMC8, 12)

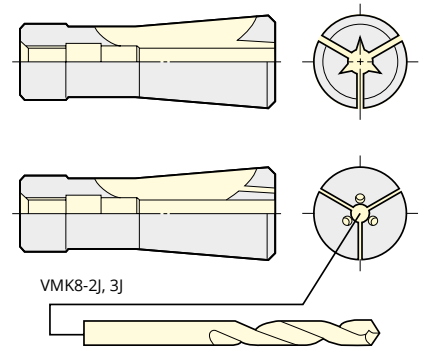
VMK-J-Spannzange



Schneidwerkzeug mit Innenkühlung



Schneidwerkzeuge ohne Innenkühlung (Standard)



VMK8-2J, 3J

Schneidwerkzeug ohne Innenkühlung

MINI MINI SPANNZANGEN

Version	Grösse
PMK8-□	2/2,2/2,4/2,6/2,8/3/3,2/3,4/3,6/3,8/4/4,2/4,4/4,6/4,8, 5/5,2/5,4/5,6/5,8/6/6,2/6,4/6,6/6,8/7/7,2/7,4/7,6/7,8/8
PMK8-□	3,175 (1/8) / 4,76 (3/16)
PMK12-□	4/5/6/8/10/12
VMK8-□	2/3/4/5/6/7/8
VMK8-□	2J/3J/4J/5J/6J/7J/8J
WMK12-□	4/5/6/8/10/12
VMK12-□	4J/5J/6J/8J/10J/12J

Spannzangenlängen OAL= VMK8/PMK8-51.5mm / PMK12/VMK12-56mm

Major Dream

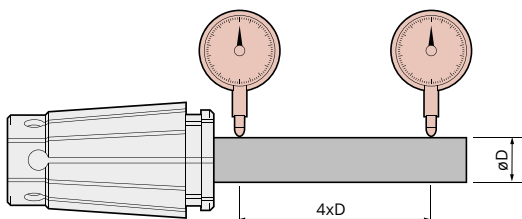
Das NIKKEN Major Dream System ist die optimale Lösung für schwingungsgedämpftes Fräsen. Durch die Benutzung des revolutionären Micro-Dämpfungssystems ist das System bestens zum HSC- und HPC-Fräsen geeignet.



EIGENSCHAFTEN

- Rundlaufgarantie 3 µm bei 4 x Durchmesser
- TiN Lagerscheibe
- Einzigartige interne Konstruktion bietet "eingebaute" Dämpfung und Anti-Vibration
- 8° Spannzangensystem
- Hochgeschwindigkeitsoptionen bis zu 30.000 U/min bei G2.5 verfügbar
- Jet & Ickz verfügbar
- Spannbereich: \varnothing 3-25.4 mm

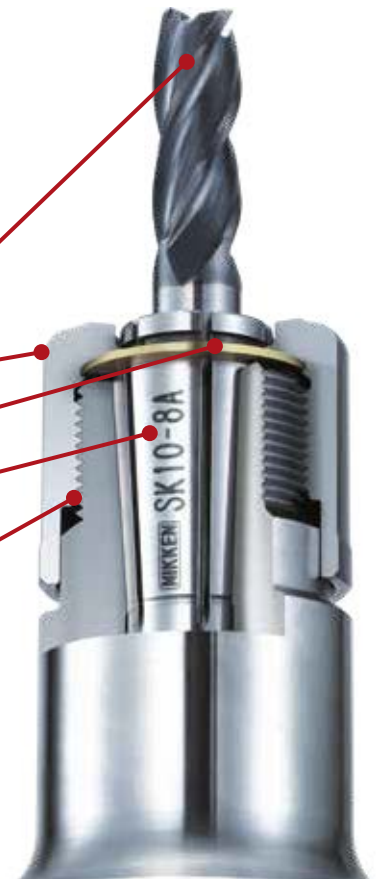
RUNDLAUF DER SPANNZANGE (SK)



Spannzangentyp	Max. Rundlauf	
	An der Spannzange	Bei 4xD
A/C	1 µ	3 µ

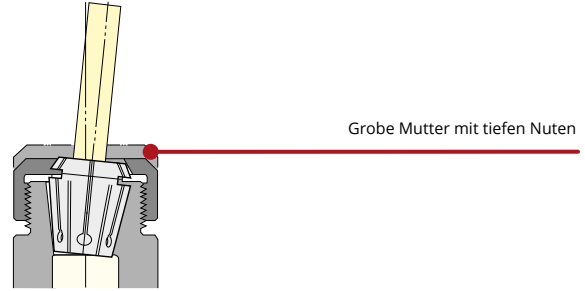
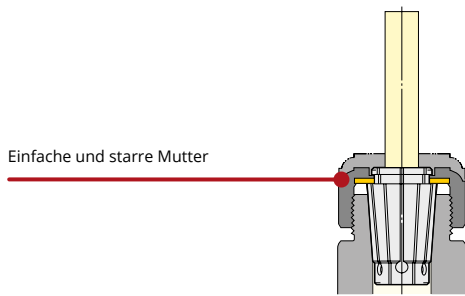
MAJOR DREAM SYSTEM

- Stabil hohe Präzision
- Einfaches Design ohne Nuten
- TiN Lagerscheibe (HV2,200)
- 8° Spannzange mit höherer Steifigkeit für bessere Genauigkeit und höhere Spannkraft
- Spezielle Beschichtung sorgt für hohe Effizienz



NIKKEN SLIM CHUCK
Druck auf flache Schulter

Andere
Druck auf Kegel

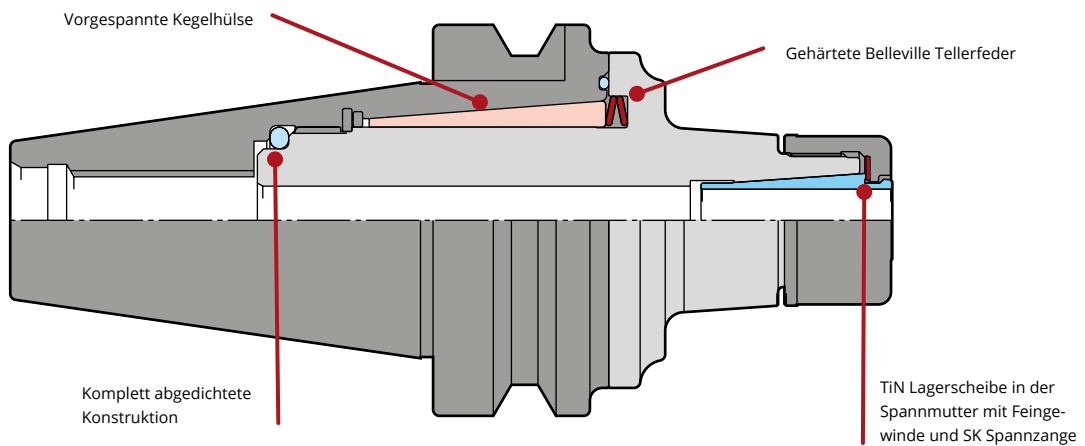


- Hohe Wiederholgenauigkeit durch flaches drücken
- Hohe Spannkraft durch den 8°-Kegel

- Schlechte Rundlauf-Wiederholgenauigkeit durch drücken und verdrehen auf den oberen Kegel
- Geringe Spannkraft durch den 12°-/ 16°-Kegel

NIKKEN \varnothing Aussenkontur		ER \varnothing Aussenkontur	
SK6	19.5	ER11	19
SK10	27.5	ER16	28
SK13	33	ER20	34
SK16	40	ER25	42
SK20	48.5	ER32	50
SK25	55	ER40	63

INTERNES DÄMPFUNGSSYSTEM



Empfohlene Spannzangen
Typen A und AC Zubehör
>>> S. 13 ff.

Multi Lock

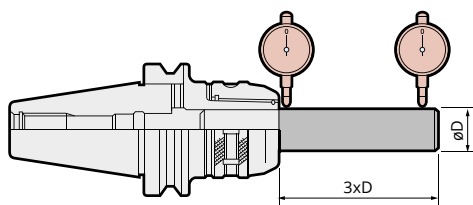
Das Mutli Lock ist ohne Frage eine effiziente und variable Fräslösung, um die Anforderungen vieler verschiedener Anwendungen zu erfüllen. Das Kraftspannfutter kann als überragender Grundhalter, durch unsere umfangreiche Auswahl an Reduzierhülsen, aber auch für Anwendungen mit unterschiedlichsten Werkzeugdurchmessern verwendet werden und das ohne grossen Spannkraftverlust.



EIGENSCHAFTEN

- Hohe Genauigkeit und Stabilität
- Höchste Spannkräfte
- Klemmung über den gesamten Fräaserschaft
- Kein Axialspiel
- Perfekt als Grundhalter
- Jet & Ikz verfügbar
- Spannbereich: \varnothing 2-42 mm

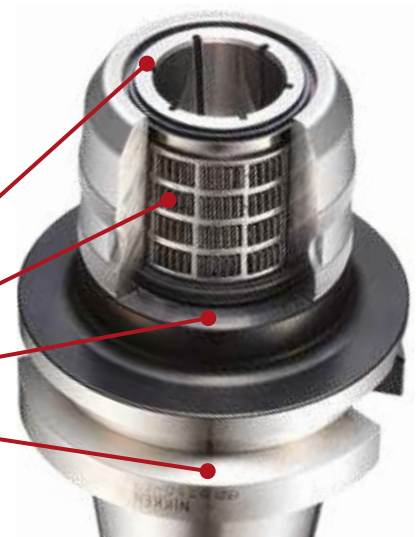
RUNDLAUF DES FUTTERS



Max. Rundlauf	
An der Spannange	Bei 3xD
1 μ	5 μ

MULTI-LOCK

- Einzigartig genutete Bohrung für höhere Spannkräfte
- Weltbekanntes Multirollenlagersystem
- Plananlage an der Spannmutter
- Optimale Stabilität und Performance durch NIKKEN's innovative Wärmebehandlung



MULTI LOCK AUFBAU (HIGH-SPEED-AUSFÜHRUNG)

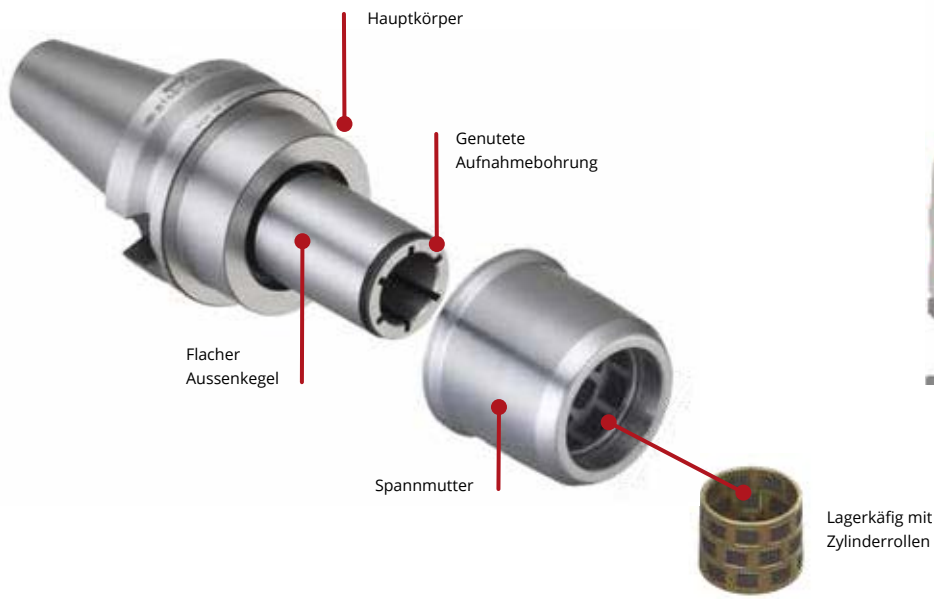
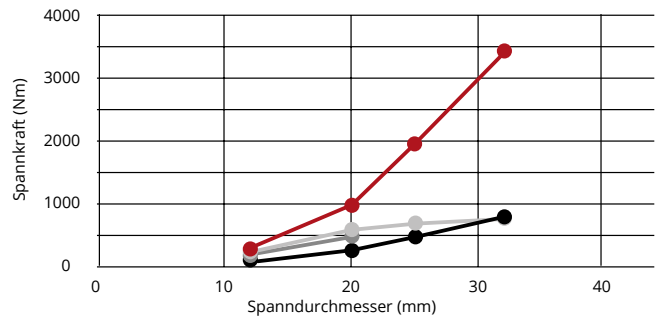


Foto zeigt die alte Ausführung mit versetzten Rollen

SPANNKRAFTVERGLEICH

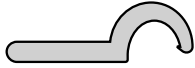
- NIKKEN Multi-lock
- Konkurrenz Hydraulisch
- Mitbewerber Schrumpffutter
- Mitbewerber Mechanisches Futter



Standard Multi-Lock		
Grösse	Ø Spannmutter	Ø Spannbereich (mit Hülsen)
C12	33	2.0-12.0
C16	44	2.0-16.0
C20	52	2.0-20.0
C25	55/60	3.0-25.0
C32	64/69	3.0-32.0
C42	86	3.0-42.0

High Speed Multi-Lock		
Grösse	Ø Spannmutter	Ø Spannbereich (mit Hülsen)
C12G	33	2.0-12.0
C16G	40	2.0-16.0
C20G	48	2.0-20.0
C25G	55	3.0-25.0
C32G	68	3.0-32.0
C42G	86	3.0-42.0

Multi Lock



Multi Lock	Hakenschlüssel
C12	9HC12A
C16	9HC16
C20	9HC22
C25 ø55	9HC22
C25 ø60	9HC25
C32 ø64	9HC25
C32 ø69	9HC32
C42	9HC42



High Speed Multi Lock	Rollenschlüssel
C12-G	GH12
C16-G	GH16
C20-G	GH20
C25-G	GH25
C32-G ø62	GH32S
C32-G ø68	GH32

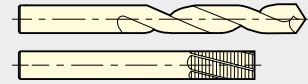
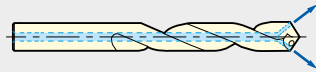
Das Multi Lock ist am effektivsten wenn direkt gespannt wird. Jedoch stehen eine Vielzahl von Möglichkeiten optional bereit um die Einsatzmöglichkeiten zu erweitern.

Bezeichnung	Eigenschaft
KM	Standard Reduzierhülse (z. B.: KM20-12)
NK	Reduzierhülse mit Längeneinstellung (z. B.: NK20-12)
CCK	Reduzierhülse mit Gewinde für optionale Abdeckkappen - kann auch ohne Abdeckkappe eingesetzt werden (z. B.: CCK20-10 mit Abdeckkappe CKFN20-12 oder CKFN20-12C)
CCNK	Reduzierhülse mit Gewinde für optionale Abdeckkappen - mit Längeneinstellung (z. B.: CCNK20-12 mit Abdeckkappe CKFN20-12 oder CKFN20-12C)



Schneidwerkzeug mit Innenkühlung (Bohrer, Fräser)

Jet-Kühlung



Direktes Spannen *

mit Spannhülse

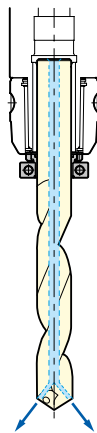
Direktes Spannen *

mit Spannhülse

Abdeckring mit O-Ring für direktes spannen



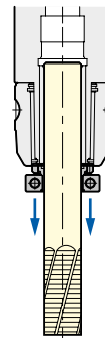
CKFN-DC



Abdeckring mit Jet für direktes spannen



CKFN-D (Mit Jet-Kanälen)



Abdeckscheiben mit O-Ring

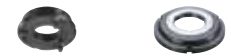
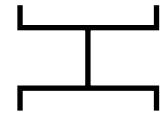


CCNK Spannzange CCK Spannzange

Abdeckscheiben für Jet-Kühlung

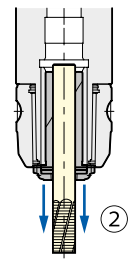
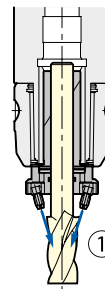


CCNK Spannzange CCK Spannzange

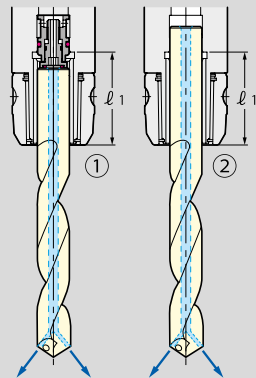


CKFN-MN (Mit Kühl-düsen)

CKFN (mit V-Kanälen)



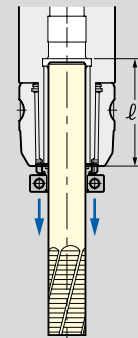
- ① Wenn das Schneidwerkzeug kürzer als l_1 ist, wird ein Stopper empfohlen.
- ② Wenn das Schneidwerkzeug länger als l_1 ist, wird kein Zubehör benötigt.



Abdeckring für direktes spannen mit Jet Kühlung - falls die Einspannlänge vom Schneidwerkzeug kürzer als l_1 ist.



CKFN-D (mit Jet-Kanälen)



① der Schneidendurchmesser ist grösser als der Schaftdurchmesser

② Abdeckscheibe mit Jet-Kanälen

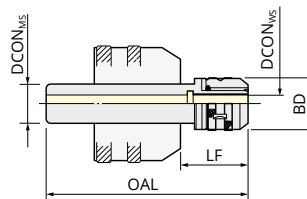
Multi Lock Standard BT□□-C□□

Multi Lock in der Ausführung C: z. B. IT□□-C□□C BT□□-C□□C MBT□□-C□□ NBT□□-C□□ HSK□□-C□□

* Direktes Spannen: wenn in ein Schneidwerkzeug mit D32 eine Multi Lock C32 gespannt wird.
* Bei Hochdruckkühlung wird eine abgedichtete Einstellschraube empfohlen.

Multi Lock

MULTI LOCK ZYLINDERAUFNAHMEN

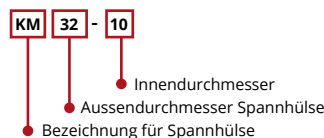


Grösse	Bezeichnung	DCON _{Ms}	DCON _{Ws}	BD	OAL	LF	Spannzange	Gewicht (kg)
32	S32-C12-120, 160, 200	32	12	33	120, 160, 200	60, 100, 140	KM12	0.6, 0.9, 1.1
	-C16-130		16	44	130	70	KM16	0.7
	-C20-150		20	52	150	90	KM20	1.1
42	S42-C16-180	42	16	44	180	120	KM16	1.6
	-C20-185		20	52	185	125	KM20	1.7

KM SPANNZANGE



Bild zeigt: Anniversary Typ KM Spannhülse



Grösse	OAL	KM Spannhülse - Bezeichnung
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

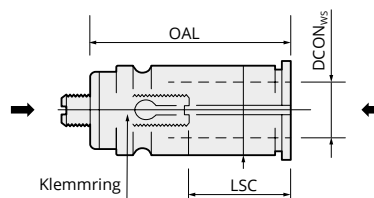
Zahl in rot bedeutet mit Rillen in der Bohrung, Anniversary Ausführung, Q am Ende der Bezeichnung, optimierte Schlitz

- Weitere Grössen in Inch oder Zoll sind verfügbar
- Schafttoleranz h6 bis h7 empfohlen
- () OAL Mass für KM42-12 und grösser
- Spannhülsen Ausreisser ist optional verfügbar (9CKR)

NK SPANNHÜLSE



Die Längeneinstellung ist von vorne und von hinten möglich



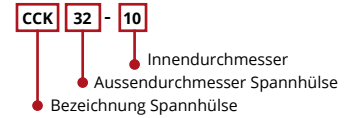
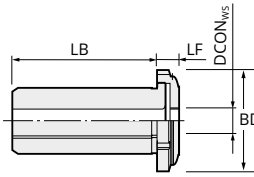
Einstellung von beiden Seiten möglich

Grösse	OAL	LSC	NK Spannhülse - Bezeichnung
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

Zahl in rot bedeutet mit Rillen in der Bohrung, Anniversary Ausführung, Q am Ende der Bezeichnung, optimierte Schlitz

- Weitere Grössen in Inch oder Zoll sind verfügbar
- Schafttoleranz h6 bis h7 empfohlen
- () OAL Mass für KM42-12 und grösser
- Spannhülsen Ausreisser ist optional verfügbar (9CKR)

CCK SPANNHÜLSE



Grösse	DCON _{MS}	BD	LB	LF	CCK Spannhülse - Bezeichnung	Abdeckkappe
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

- Schafttoleranz h6 bis h7 empfohlen
- Weitere Grössen in Inch oder Zoll sind verfügbar
- Abdeckkappen und der Schlüssel dazu sind optional
- Spannhülsen Ausreisser ist optional verfügbar (9CKR)
- Kann auch ohne Abdeckkappe als Standard Spannhülse verwendet werden

Zahl in rot bedeutet mit Rillen in der Bohrung, Anniversary Ausführung, Q am Ende der Bezeichnung, optimierte Schlitz

CCNK SPANNHÜLSE



Foto zeigt Spannhülse mit Abdeckkappe



- Innendurchmesser
- Aussendurchmesser Spannhülse
- Bezeichnung Spannhülse

Grösse	CCNK Spannhülse - Bezeichnung	Abdeckkappe
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

Zahl in rot bedeutet mit Rillen in der Bohrung, Anniversary Ausführung, Q am Ende der Bezeichnung, optimierte Schlitz

- Schafttoleranz h6 bis h7 empfohlen
- Weitere Grössen in Inch oder Zoll sind verfügbar
- Abdeckkappen und der Schlüssel dazu sind optional
- Spannhülsen Ausreisser ist optional verfügbar (9CKR)
- Die Längeneinstellung ist von vorne und von hinten möglich
- Kann auch ohne Abdeckkappe als Standard Spannhülse verwendet werden

ABDECKKAPPEN



Abdeckkappe (CKFN)



- ohne Symbol = Jet Kühlung
- C = mit O-Ring
- Innendurchmesser
- Aussendurchmesser Spannhülse
- Bezeichnung Abdeckkappe

Grösse	BD	LF	Abdeckkappe	Schlüssel
CKFN12	19.5	7	CKFN12-3, 4, 5, 6, 8,10	CCKL12
CKFN16	28.5	8	CKFN16-3, 4, 5, 6, 8,10,12	CCKL16
CKFN20	33	8	CKFN20-6, 8, 10, 12, 16	CCKL20
CKFN25	39	8.5	CKFN25-6, 8, 10, 12, 16, 20	CCKL25
CKFN32	46.5	9	CKFN32-6, 8, 10, 12, 16, 20, 25	CCKL32
CKFN32T	43	9	CKFN32T-6, 8, 10, 12, 16, 20, 25	CCKL25
CKFN42	59.5	9	CKFN42-6, 8, 10, 12, 16, 20, 25, 32	CCKL42

- Für C32 sind zwei Grössen verfügbar: Aussendurchmesser 69mm = CKFN32 für Aussendurchmesser 64mm = CKFN32T
- Weitere Grössen in Inch oder Zoll sind verfügbar



Abdeckkappe mit Düsen (CKFN-MN)



- MN = Multi Düsen
- Innendurchmesser
- Aussendurchmesser Spannhülse
- Bezeichnung Abdeckkappe

Grösse	Abdeckkappe mit Düsen	Schlüssel
CKFN16	CKFN16-6*, 8*MN	CCKL16
CKFN20	CKFN20-6, 8, 10, 12, 16MN	CCKL20
CKFN25	CKFN25-6, 8, 10, 12, 16, 18, 20MN	CCKL25
CKFN32	CKFN32-6, 8, 10, 12, 16, 20, 25MN	CCKL32
CKFN32T	CKFN32T-6, 8,10,12,16, 20, 25MN	CCKL25
CKFN42	CKFN42-6, 8, 10, 12, 16, 20, 25, 32MN	CCKL42

- * als Semi-Standard verfügbar
- Weitere Grössen in Inch oder Zoll sind verfügbar
- Für C32 sind zwei Grössen verfügbar: Aussendurchmesser 69mm = CKFN32 für Aussendurchmesser 64mm = CKFN32T



Abdeckkappe für direktes Spannen: D, DC (CKFN-D, DC)



- D = mit Jet Kanälen
- DC = mit O-Ring
- Innendurchmesser
- Aussendurchmesser Spannhülse
- Bezeichnung Abdeckkappe

Grösse	Abdeckkappe für direktes Spannen	Schlüssel
CKFN12	CKFN12-12D, 12DC	CCKL12
CKFN16	CKFN16-16D, 16DC	CCKL16
CKFN20	CKFN20-20D, 20DC	CCKL20
CKFN25	CKFN25-25D, 25DC	CCKL25
CKFN32	CKFN32-32D, 32DC	CCKL32
CKFN32T	CKFN32T-32D, 32DC	CCKL25
CKFN42	CKFN42-42D, 42DC	CCKL42

- Für C32 sind zwei Grössen verfügbar: Aussendurchmesser 69mm = CKFN32 für Aussendurchmesser 64mm = CKFN32T

X-Treme

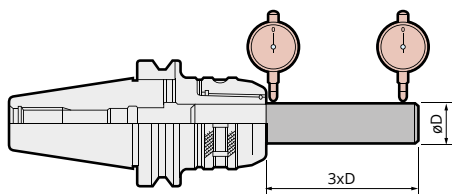
Das einzigartige X-Treme Kraftspannfutter bietet höchste Performance, Kontrolle – und am wichtigsten – auch absolute Prozesssicherheit, um den Anforderungen herausfordernder Komponenten, Anwendungen sowie Materialien gerecht zu werden.



EIGENSCHAFTEN

- Entwickelt speziell für anspruchsvollste Anwendungen und Materialien
- Klemmung und Präzision auf Basis des Multi-Lock Futters
- Auswechselbare Dichtung und interner Stopper
- Positiver Klemmwinkel der Auszugssicherung für den Werkzeugschaft
- Jet & Ikz verfügbar
- Spannbereich: \varnothing 12-42 mm

RUNDLAUF DES FUTTERS



Max. Rundlauf

An der Spannzange	Bei 4xD
1 μ	<10 μ

ABSOLUTE SICHERUNG DES FRÄSERS

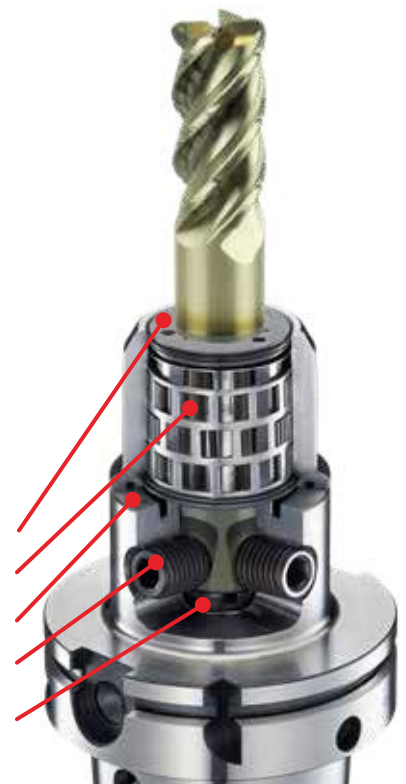
Zwei Optionen zur Kühlmittelkontrolle (IKZ oder Jet)

Weltbekanntes Multirollenlagersystem

Plananlage an der Spannmutter

Eigenentwickelte Auszugssicherungsschrauben Dual

Zwei Optionen des Stoppers (IKZ oder Jet)



ZUBEHÖR AUSWAHL

Bitte wählen Sie die richtigen Stopper und Abdeckkappen. Der Stopper und die Abdeckkappe für Innenkühlung wird als Standard mitgeliefert.

VORSICHT! Ein Stopper muss zwingend verwendet werden. Das Schneidwerkzeug muss hinten anstehen!



Stopper mit O-Ring



Stopper mit Nuten

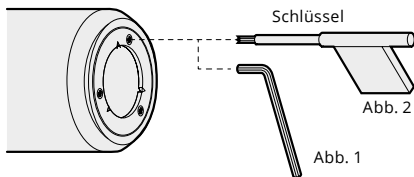


Bezeichnung	Fräser mit Innenkühlung		Fräser ohne Innenkühlung		Zusatzschraube	Klemmschraube
	Stopper	Abdeckkappe	Stopper	Abdeckkappe		
C12EX	9MC12HEX-6L(8.5L)*1	9C12SL-FS-EX-A	9MC12HEX-6L(8.5L)*1-J	9C12SL-FS-EX-J		M10 × 16L-EX
C16EX	9MC16HEX-6.5L(9.5L)*1	9C16SL-FS-EX-A	9MC16HEX-6.5L(9.5L)*1-J	9C16SL-FS-EX-J		M12 × 16L-EX
*C20EX	9MC20HEX-12L(13.5L)*1	9C20-FS-EX-A	9MC20HEX-12L(13.5L)*1-J	9C20-FS-EX-J	FSMB12-20	M12 × 20L-EX
C25EX	9MC25HEX-6.2L(8.7L)*1	9C25SL-FS-EX-A	9MC25HEX-6.2L(8.7L)*1-J	9C25SL-FS-EX-J		
C32EX	9MC32HEX-7L(10L)*1	9C32SL-FS-EX-A	9MC32HEX-7L(10L)*1-J	9C32SL-FS-EX-J	FSMB16-20-H8	M16 × 20L-EX
C42EX	9MC42HEX-9L(11.5L)*1	9C42SL-FS-EX-A	9MC42HEX-9L(11.5L)*1-J	9C42SL-FS-EX-J		

* Stopper für NBT40-C20EX, C8-C20EX. HSK-C20EX ist 9MC20HEX-7L (mit O-Ring oder 9MC20HEX7L-J (mit Nuten)

*1 Es sind weitere Stopper in verschiedenen Längen verfügbar-um die Länge nach den Nachschleifen zu korrigieren.

AUSTAUSCH ABDECKSCHEIBE



Die Abdeckkappe ist mit 3 M2,5 Schrauben befestigt. (bei C42EX M3) Die Abdeckkappe muss bei Austausch zentriert werden.



Foto zeigt ein X-Treme Chuck mit einer Spannmutter mit Nuten

	Schlüssel	Schraube
C12EX, C16EX, C20EX	CME-1,3 Abb. 1	CBSS2.5-6
C25EX, C32EX	T-8 Abb. 2	M2577
C42EX		SHIM-M3

X-Treme, Ausführung mit Nutmutter	Hakenschlüssel
12EX-□□□-A	9HC16
16EX-□□□-A	9HC22
20EX-□□□-A	9HC25
25EX-□□□-A	9HC25
32EX-□□□-A	9HC32
42EX-□□□	9HC42

Zero Fit Holder

Wenn eine Maschine 2-3 Jahre in Betrieb ist, kann sich die Rundlaufgenauigkeit der Spindel verschlechtern. Der NIKKEN Zero Fit Halter erlaubt es diesen Spindelfehler mindestens auf den Auslieferungszustand zu kompensieren.

Eine üblicher Spindelrundlauffehler beträgt etwa 21 µm – wenn dieser Wert auf 3 µm reduziert werden kann, dann steigert sich die Standzeit des Werkzeuges etwa um das 5-fache.



EIGENSCHAFTEN

- 2 Varianten: Slim Chuck (SZF) und Multi Lock (CZF)
- Einfache Einstellung über Nocken und Sicherungssystem
- Verfügbar mit einem Nocken oder als neues Mehrfachnockensystem
- Einfache Einstellung bei langen Werkzeugen
- Jet & Ick verfügbar
- Spannbereich SZF: \varnothing 0.7-25.4 mm
- Spannbereich CZF: \varnothing 2-42 mm

Modelle SZF / Slim Chuck Zubehör
>>> S. 13 ff.
Modelle CZF / Multi Lock Zubehör
>>> S. 26 ff.

MEHRFACHNOCKEN – EINSTELLSYSTEM

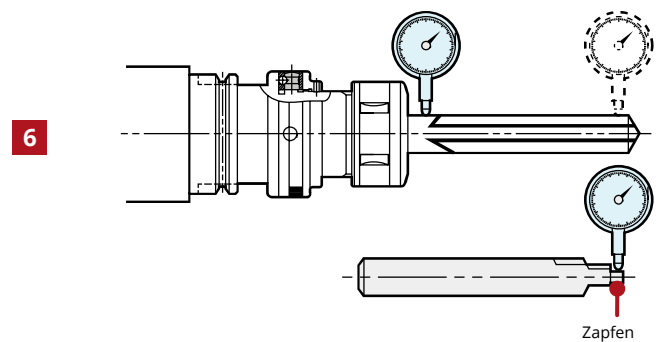
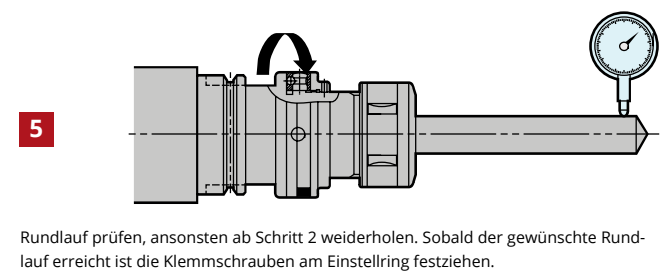
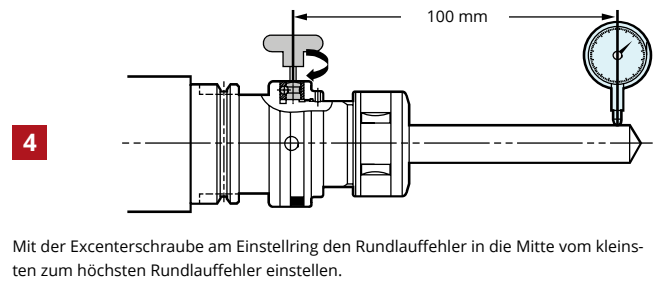
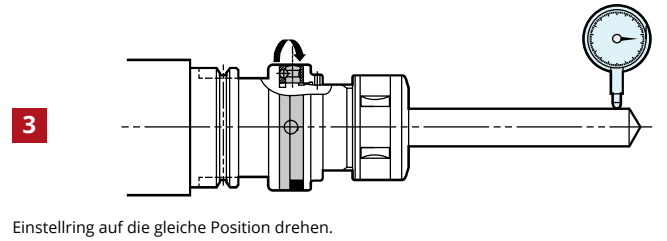
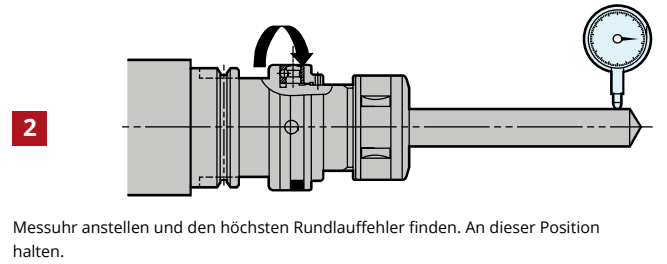
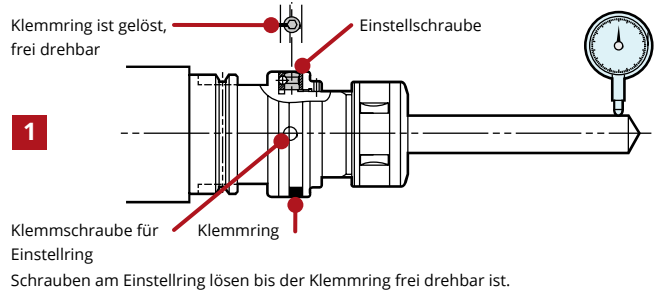
Zweifache Schraubensicherung

Gewichteter Einstellring

Nockenfeineinstellung

Hauptnocken

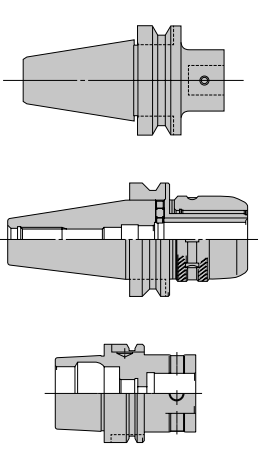
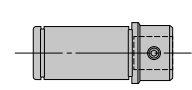
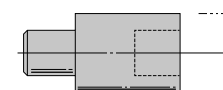
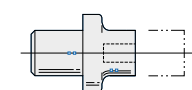





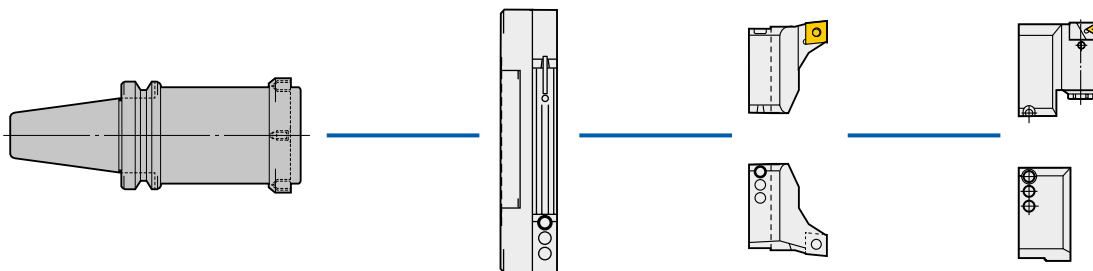
**Einstellbereich bei 100mm Ausspannlänge.
Bei 200 mm ist der Bereich doppelt so hoch**

SZF6	0.050 mm
SZF10	0.050 mm
SZF16	0.040 mm
SZF25	0.025 mm
CZF20	0.050 mm
CZF25	0.050 mm
CZF32	0.030 mm

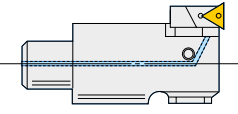
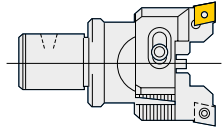
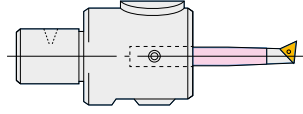
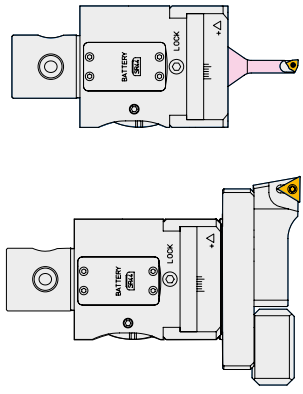
Ausbohrsystem

Grundaufnahme	Zylinderaufname	Verlängerung	Reduktion	Verlängerung
Durchmesserbereich				
				
Schnittstellen	Größen	Größen	Größen	Größen
HSK	K32-Q..	Q9	Q9	Q9
IT / NIT / MIT	K42-Q..	Q12	Q12	Q12
BT / NBT / MBT		Q16	Q16	Q16
Polygon Schaft		Q20	Q20	Q20
		Q26	Q26	Q26
		Q34	Q34	Q34
		Q42	Q42	Q42

DAS BAC-SYSTEM - STAHLAUSFÜHRUNG

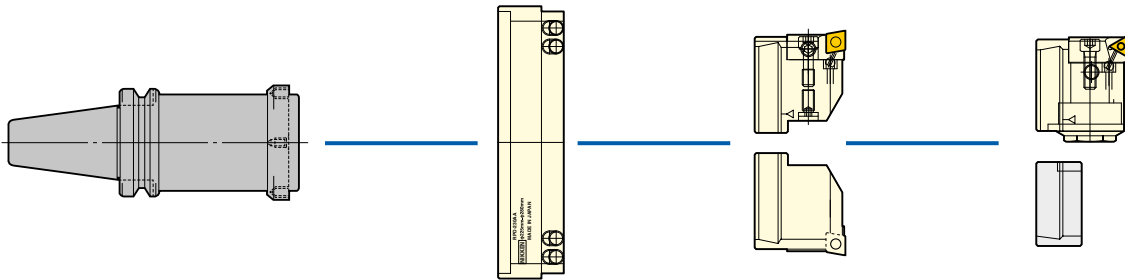


BAC-RAC Schruppen \varnothing 130-580 mm
 BAC-ZMAC Schlichten \varnothing 130-595 mm

ZMAC	RAC	DJ	eMAC
∅ 16-180 mm	∅ 25-130 mm	∅ 3-50 mm	∅ 6-200 mm
			

Ausbohrkopf	Bereich	Ausbohrkopf	Bereich	Ausbohrkopf	Bereich	Ausbohrkopf	Bereich
ZMAC16	∅ 16-20	-	-	DJ3	∅ 3-23	eMAC	∅ 6-110
ZMAC20	∅ 20-25	-	-	DJ8	∅ 3-50	eMAC	∅ 6-200
ZMAC25	∅ 25-32	RAC25	∅ 25-32				
ZMAC32	∅ 32-42	RAC32	∅ 32-45				
ZMAC42	∅ 45-55	RAC43	∅ 43-55				
ZMAC55	∅ 55-70	RAC53	∅ 53-70				
ZMAC70	∅ 70-85	RAC70	∅ 70-100				
ZMAC85	∅ 85-100	RAC100	∅ 100-130				
ZMAC100	∅ 100-140						
ZMAC140	∅ 140-180						

DAS BAC α -SYSTEM - ALUMINIUMAUSFÜHRUNG



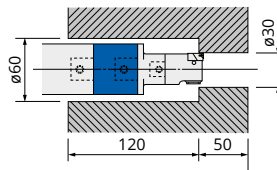
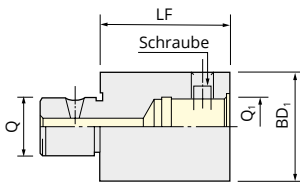
BAC-RAC α Schruppen ∅ 130-580 mm
 BAC-ZMAC α Schlichten ∅ 130-595 mm
 α = Aluminiumausführung

Modulare Grundhalter

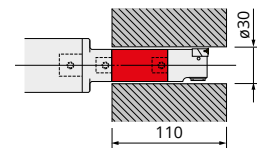
VERLÄNGERUNGEN



Bezeichnung	Kupplung		BD ₁	LF	Schraube	Gewicht (kg)
	Q	Q ₁				
SP 9-9-30, 45	9	9	19	30, 45	B19	0.06, 0.10
SP 12-12-30, 45, 60	12	12	24	30, 45, 60	B12	0.10, 0.15, 0.20
SP 16-16-30, 45, 60	16	16	31	30, 45, 60	B16	0.15, 0.25, 0.35
SP 20-20-45, 60	20	20	40	45, 60	B20	0.40, 0.50
SP 26-26-60, 90	26	26	50	60, 90	B26N	0.80, 1.20
SP 34-34-60, 90	34	34	64	60, 90	B34	1.40, 2.00
SP 42-42-60, 90	42	42	83	60, 90	B42	2.40, 3.40



BT40-Q26-95
SP26-26-60
 SP26-12-30
 12-ZMAC25-40V



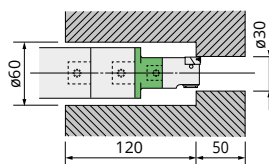
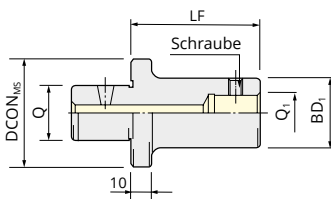
BT40-Q26-95
 SP26-12-30
SP12-12-60
 12-ZMAC25-40V

Beispiele für tiefe Bohrungen

REDUKTIONEN



Bezeichnung	Kupplung		DCON _{MS}	BD ₁	LF	Schraube	Gewicht (kg)
	Q	Q ₁					
SP 12-9-45	12	9	24	19	45	B19	0.10
SP 16-9-45	16	9	31	19	45	B19	0.15
SP 16-12-60		12		24	60	B12	0.25
SP 20-9-45	20	9	40	19	45	B19	0.20
SP 20-12-60		12		24	60	B12	0.30
SP 20-16-60, 90	20	16	50	31	60, 90	B16	0.40, 0.60
SP 26-9-30, 45		9		19	30, 45	B19	0.30, 0.30
SP 26-12-30, 60	26	12	50	24	30, 60	B12	0.30, 0.40
SP 26-16-30, 60, 90		16		31	30, 60, 90	B16	0.30, 0.50, 0.60
SP 26-20-30, 60, 100	26	20	64	40	30, 60, 100	B20	0.40, 0.60, 1.00
SP 34-16-60, 90		16		31	60, 90	B16	0.70, 0.90
SP 34-20-60, 100	34	20	64	40	60, 100	B20	1.00, 1.30
SP 34-26-60, 100		26		50	60, 100	B26N	1.10, 1.50
SP 42-20-60, 100	42	20	83	40	60, 100	B20	1.20, 1.60
SP 42-26-60, 100		26		50	60, 100	B26N	1.40, 1.90
SP 42-34-60, 100	42	34	83	64	60, 100	B34	1.80, 2.50



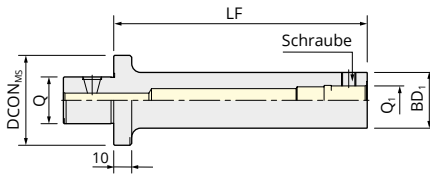
BT40-Q26-95
 SP26-26-60
 SP26-12-30
 12-ZMAC25-40V

Beispiel für tiefe Bohrungen

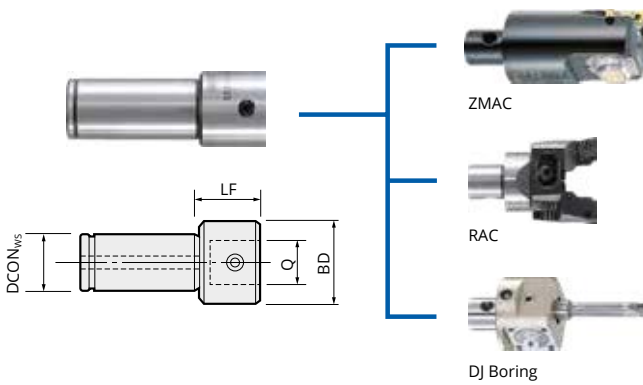
REDUKTIONEN TYP A1



Bezeichnung	Kupplung		DCON _{MS}	BD ₁	LF	Gewicht (kg)
	Q	Q1				
SP 26-9-85-A1		9		19	85	0.60
SP 26-12-115-A1		12		24	115	0.70
SP 26-16-140-A1	26	16	50	31	140	0.90
SP 26-20-180-A1		20		40	180	1.20
SP 26-26-190-A1		26		50	190	1.50



ZYLINDRISCHE AUFNAHMEN



Bezeichnung	Kupplung Q	DCON _{MS}	BD ₁	LF	Schraube	Gewicht (kg)
K32-Q9-20			19	20		0.40
K32-Q9-40	9			40	B19	0.50
K32-Q12-20			24	20		0.40
K32-Q12-60	12			60	B12	0.60
K32-Q16-20		32		20		0.50
K32-Q16-55	16		31	55	B16	0.70
K32-Q20-40			40		B20	0.70
K32-Q26-40	20			40		0.80
K42-Q26-40	26	42	50		B26N	1.20

Alle Zylinderaufnahmen haben eine Bohrung für die Innenkühlung

RAC Ausbohrsystem

Les têtes d'alésage RAC de NIKKEN ont récemment été entièrement révisées. Elles disposent d'une engrenage rectifié avec précision qui assure un contact parfait et un bon équilibre entre le support et la tête. Le système RAC offre une bonne rigidité et stabilité lors de l'usinage de trous de plus grands diamètres pour l'ébauche et la pré finition.

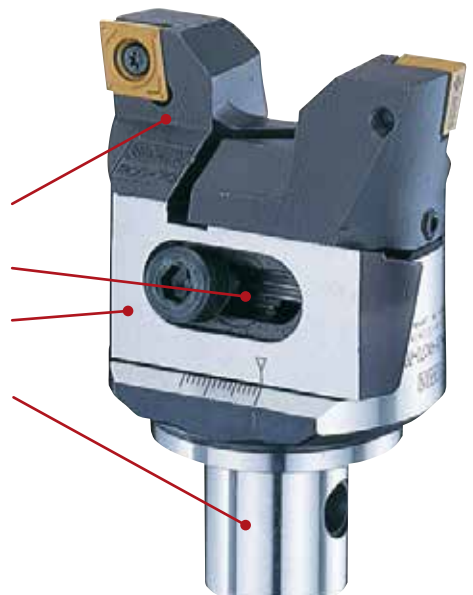


EIGENSCHAFTEN

- Die Schneideinsätze stützen sich gegenseitig ab um die Schnittkräfte aufzunehmen
- Einsetzbar für symmetrisches Schrappen oder doppelt versetztes Schrappen
- Einsätze für verschiedene Wendeschneidplatten verfügbar
- Modulare Durchmesser: \varnothing 25-130 mm
- Grosse Durchmesser: \varnothing 130-580 mm

LEISTUNG UND STEIFIGKEIT

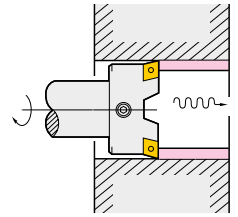
- Doppelschnitt mit abgestützten Schneideinsätzen
- Feingeschliffene Führung in "V" Form
- Vielfältige Schneideinsätze für verschiedene Materialien und Prozesse
- Durch den NIKKEN Q26 Grundhalter auf allen Maschinenspindeln einsetzbar





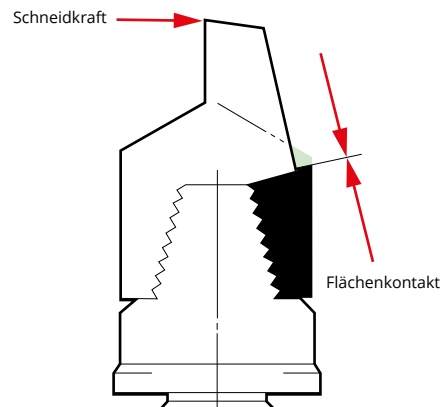
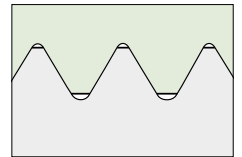
ROTATIONSSYMMETRISCHE BEARBEITUNG

Effizientes Schruppen mit zwei Schneiden. Die Schneiden stabilisieren sich gegenseitig.



PRÄZISIONSGESCHLIFFENE KERBVERZÄHNUNG

Die hochpräzise Verzahnung nimmt viel Schnittkraft auf. Die Feinverstellung ist leichtgängig.



RAC verfügt über ein spezielles Zahnprofil welches präzisionsgeschliffen ist. Der Wendeplattenhalter überträgt die entstehende Kraft auf den geschliffene Fläche des anderen Halters. Dies ermöglicht eine hohe Leistung des RAC Systems.

S.RCC-E

S.RCC-K

S.RCC

S.RCC-A



Vorzugsserie, universell, positive Wendeplatten



Durchgangsbohrungen und Gussbearbeitung, positive Wendeplatten



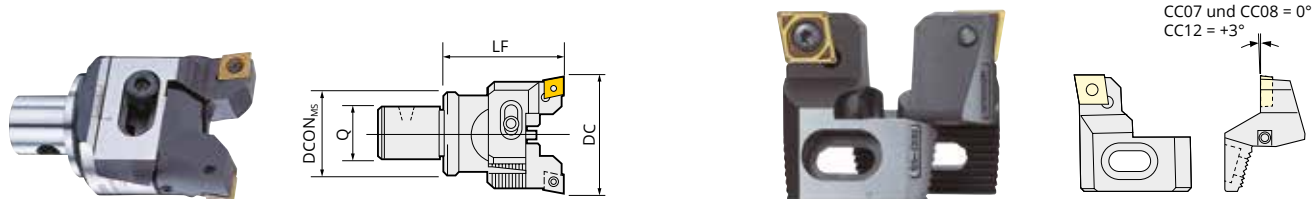
grobes Schruppen, negative Wendeplatten



Aluminium, positive Wendeplatten

RAC Ausbohrsystem

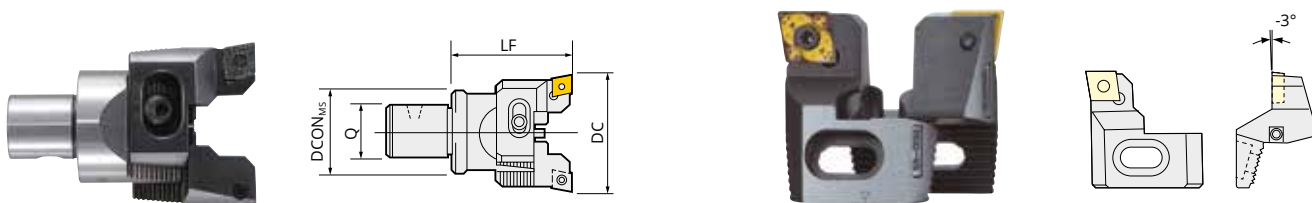
VORZUGSSERIE: ALLGEMEINE BEARBEITUNG MIT POSITIVEN WENDEPLATTEN



Bezeichnung	DC	LF	Q	DCON _{Ms}	L	Wendeplattenhalter	Gewicht (kg)	Wende-Platte	ISO Platte
12-RAC25-55E-CC08	25-32	55	12	24	8	RCC-25E	0,4	CC08	CC□□09T3□□
16-RAC32-55E	32-45	55	16	31	9,7	RCC-32E	0,5	CC08	CC□□09T3□□
20-RAC43-70E	43-55	70	20	40	12,9	RCC-43E	0,7	CC12	CC□□1204□□
26-RAC53-70E	53-70	70	26	50	12,9	RCC-53E	0,8	CC12	CC□□1204□□
26-RAC70-70E	70-100	70	26	50	12,9	RCC-70E	1	CC12	CC□□1204□□
34-RAC70-85E	70-100	85	34	64	12,9	RCC-70E	1,5	CC12	CC□□1204□□
42-RAC100-100E	100-130	100	42	83	12,9	RCC-100E	2,9	CC12	CC□□1204□□

Wendeplattenschrauben auf Seite 153

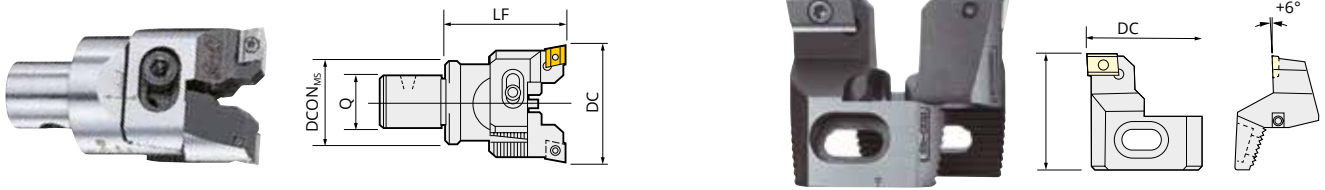
ERGÄNZUNGSSERIE: SCHWERE BEARBEITUNG MIT NEGATIVEN WENDEPLATTEN



Bezeichnung	DC	LF	Q	DCON _{Ms}	L	Wendeplattenhalter	Gewicht (kg)	Wende-Platte	ISO Platte
20-RAC43-70	43-55	70	20	40	12,9	RCC-43	0,7	CN08	CN□□1204□□
26-RAC53-70	53-70	70	26	50	12,9	RCC-53	0,8	CN08	CN□□1204□□
26-RAC70-70	70-100	70	26	50	12,9	RCC-70	1	CN08	CN□□1204□□
34-RAC70-85	70-100	85	34	64	12,9	RCC-70	1,5	CN08	CN□□1204□□
42-RAC100-100	100-130	100	42	83	12,9	RCC-100	2,9	CN08	CN□□1204□□

Wendeplattenschrauben auf Seite 153

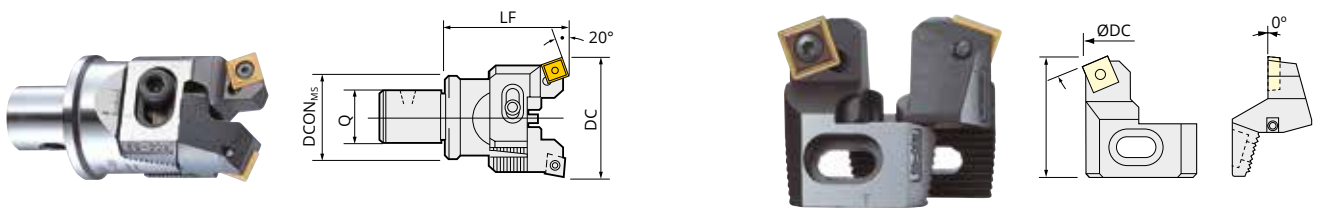
ERGÄNZUNGSSERIE: ALUMINIUM BEARBEITUNG MIT POSITIVEN WENDEPLATTEN



Bezeichnung	DC	LF	Q	DCON _{Ms}	L	Wendeplattenhalter	Gewicht (kg)	Wende-Platte	ISO Platte
12-RAC25-55A	25-32	55	12	24	9,5	RCC-25A	0,4	AEG12	AE□□0903□□L
16-RAC32-55A	32-45	55	16	31	9,5	RCC-32A	0,5	AEG12	AE□□0903□□L
20-RAC43-70A	43-55	70	20	40	15,875	RCC-43A	0,7	AEG16	AE□□1503□□L
26-RAC53-70A	53-70	70	26	50	15,875	RCC-53A	0,8	AEG16	AE□□1503□□L
26-RAC70-70A	70-100	70	26	50	15,875	RCC-70A	1	AEG16	AE□□1503□□L
34-RAC70-85A	70-100	85	34	64	15,875	RCC-70A	1,5	AEG16	AE□□1503□□L
42-RAC100-100A	100-130	100	42	83	15,875	RCC-100A	2,9	AEG16	AE□□1503□□L

Wendeplattenschrauben auf Seite 153

ERGÄNZUNGSSERIE: DURCHGANGSBOHRUNGEN / GUSSBEARBEITUNG MIT POSITIVEN WENDEPLATTEN



Bezeichnung	DC	LF	Q	DCON _{Ms}	L	Wendeplattenhalter	Gewicht (kg)	Wende-Platte	ISO Platte
12-RAC25-55K	25-32	55	12	24	7,4	RCC-25K	0,4	SC09	SC□□0702□□
16-RAC32-55K	32-45	55	16	31	7,4	RCC-32K	0,5	SC09	SC□□0702□□
20-RAC43-70K	43-55	70	20	40	11,9	RCC-43K	0,7	SC12	SC□□1204□□
26-RAC53-70K	53-70	70	26	50	11,9	RCC-53K	0,8	SC12	SC□□1204□□
26-RAC70-70K	70-100	70	26	50	11,9	RCC-70K	1	SC12	SC□□1204□□
34-RAC70-85K	70-100	85	34	63	11,9	RCC-70K	1,5	SC12	SC□□1204□□
42-RAC100-100K	100-130	100	42	83	11,9	RCC-100K	2,9	SC12	SC□□1204□□

Wendeplattenschrauben auf Seite 153

ZMAC Ausbohrsystem

Die überarbeiteten ZMAC Advanced Bohrköpfe verfügen über eine Schnittstelle mit doppeltem Kontakt und bieten hervorragende Zuverlässigkeit und Leistung für tiefes Ausbohren- und Hochgeschwindigkeitsausbohranwendungen.



EIGENSCHAFTEN

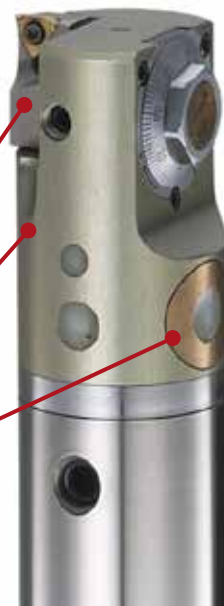
- Einzigartige Doppelkontakt-Schnittstelle
- Hohe Präzision mit einfacher Feineinstellung
- Übertreffende Stabilität und Steifigkeit
- Verfügbar als modulare Lösung oder Mono-Block mit HM-Stange für tiefe Bohrungen
- Aluminium Version für höhere Drehzahlen verfügbar
- Modulare Durchmesser: \varnothing 15.9-180.5 mm
- Grosse Durchmesser: \varnothing 140-595 mm

FEINBOHRLÖSUNG

Der Wendeplattenhalter ist über den ganzen Bereich abgestützt

IKZ ist Standard

Gehärtetes Feingewinde für einfaches und präzises Einstellen



Alle ZMAC Köpfe besitzen eine Innenkühlung direkt zur Schneide. In Schwarz ist die ZMAC Standard Serie abgebildet.

ZMAC High Speed besitzen einen Leichtmetallkörper mit integriertem Auswuchtsystem. In Bronzefarben ist ZMAC High Speed abgebildet.



HOCHSTABIL

HOCHPRÄZISION

KÜHLUNG

**VERSCHIEDENE WENDE-
PLATTEN-FORMEN**



Flächenkontakt

Die Klemmschraube ist nahe zur Schneide



Präzisionsgeschliffen und eingeläpptes Gewinde

Mikroverstellung mit Nonius



Kühlung bis zur Schneide



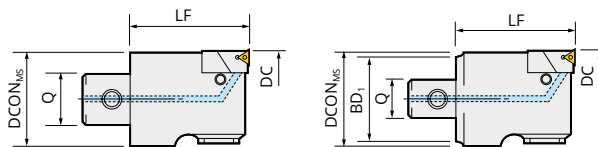
ISO Platte T Form, dreieckig



ISO Platte C Form, rhombisch

ZMAC Ausbohrsystem

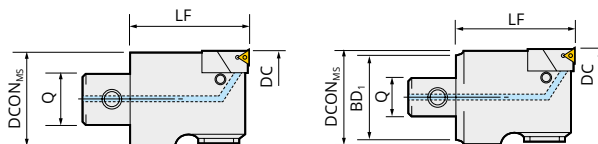
VORZUGSSERIE MIT ISO WENDEPLATTEN



Bezeichnung	DC	LF	LU	Q	DCON _{Ms}	BD ₁	Gewicht (kg)	Verstelleinheit	Wendeplatte
16-ZMAC32-55V-I	31.8-42.2	55	-	16	31	-	0.7	M4HZ-32V-I	TC□□0902□□
20-ZMAC42-70V-I	41.8-55.2	70	-	20	40	-	1.1	M5HZ-42V(M3)	TP□□1103□□
26-ZMAC55-70V-I	54.8-70.2	70	-	26	53	-	1.2	M5HZ-55V(M3)	TP□□1103□□
34-ZMAC70-70V-I	69.8-85.2	70	-	34	67	-	2	M7HZ-70V(M3)	TP□□1103□□
42-ZMAC85-100V-I	84.8-100.2	100	-	42	83	-	4.3	M10HZ-85V(M3)	TP□□1103□□
42-ZMAC100-100V-I	99.5-140.5	100	-	42	83	95	4.9	M10HZ-100V(M3)	TP□□1103□□
42-ZMAC140-100V-I	139.5-180.5	100	-	42	83	135	6.3	M10HZ-140V(M3)	TP□□1103□□

Wendeplattenschrauben auf Seite 153

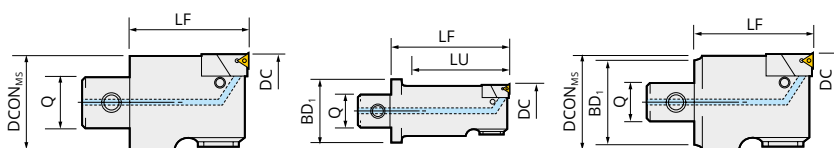
VORZUGSSERIE HIGH SPEED MIT ISO WENDEPLATTEN



Bezeichnung	DC	LF	LU	Q	DCON _{Ms}	BD ₁	Gewicht (kg)	Verstelleinheit	Wendeplatte
16-ZMAC32-55AAV-I	31.8-42.2	55	-	16	31	-	0.5	M4HZ-32V-I	TC□□0902□□
20-ZMAC42-70AAV-I	41.8-55.2	70	-	20	40	-	0.8	M5HZ-42V(M3)	TP□□1103□□
26-ZMAC55-70AAV-I	54.8-70.2	70	-	26	53	-	0.7	M5HZ-55V(M3)	TP□□1103□□
34-ZMAC70-70AAV-I	69.8-85.2	70	-	34	67	-	1.1	M7HZ-70V(M3)	TP□□1103□□
42-ZMAC85-100AAV-I	84.8-100.2	100	-	42	83	-	2.3	M10HZ-85V(M3)	TP□□1103□□
42-ZMAC100-100AAV-I	99.5-140.5	100	-	42	83	95	2.8	M10HZ-100V(M3)	TP□□1103□□
42-ZMAC140-100AAV-I	139.5-180.5	100	-	42	83	135	3.1	M10HZ-140V(M3)	TP□□1103□□

Wendeplattenschrauben auf Seite 153

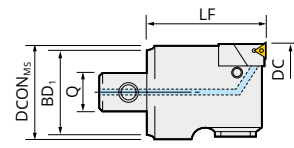
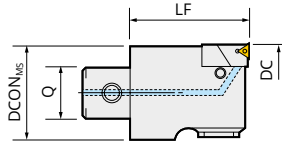
STANDARD AUSFÜHRUNG



Bezeichnung	DC	LF	LU	Q	DCON _{Ms}	BD ₁	Gewicht (kg)	Verstelleinheit	Wendeplatte	ISO Platte
12-ZMAC16-45V	15.9-20.2	45	38	12	24	15	0.4	M2HZ-16V	3MP	WB□□0601□□
12-ZMAC16-55V	15.9-20.2	55	48	12	24	15	0.4	M2HZ-16V	3MP	WB□□0601□□
9-ZMAC20-40V	19.8-25.2	40	-	9	19	-	0.4	M2HZ-20V	3MP	WB□□0601□□
12-ZMAC25-40V	24.8-32.2	40	-	12	24	-	0.5	M3HZ-25V	3MP	WB□□0601□□
16-ZMAC32-55V	31.8-42.2	55	-	16	31	-	0.7	M4HZ-32V	4MP	WB□□0802□□
20-ZMAC42-70V	41.8-55.2	70	-	20	40	-	1.1	M5HZ-42V	6MP	TP□□1103□□
26-ZMAC55-70V	54.8-70.2	70	-	26	53	-	1.2	M5HZ-55V	6MP	TP□□1103□□
34-ZMAC70-70V	69.8-85.2	70	-	34	67	-	2	M7HZ-70V	6MP	TP□□1103□□
42-ZMAC85-100V	84.8-100.2	100	-	42	83	-	4.3	M10HZ-85V	6MP	TP□□1103□□
42-ZMAC100-100V	99.5-140.5	100	-	42	83	95	4.9	M10HZ-100V	6MP	TP□□1103□□
42-ZMAC140-100V	139.5-180.5	100	-	42	83	135	6.3	M10HZ-140V	6MP	TP□□1103□□

Wendeplattenschrauben auf Seite 153

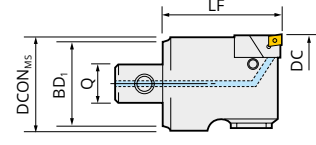
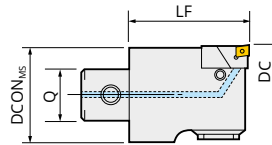
STANDARD AUSFÜHRUNG HIGH SPEED



Bezeichnung	DC	LF	LU	Q	DCON _{Ms}	BD1	Gewicht (kg)	Verstelleinheit	Wendeplatte	ISO Platte
12-ZMAC25-40AAV	24.8-32.2	40	-	12	24	-	0.4	M3HZ-25V	3MP	WB□□0601□□
16-ZMAC32-55AAV	31.8-42.2	55	-	16	31	-	0.5	M4HZ-32V	4MP	WB□□0802□□
20-ZMAC42-70AAV	41.8-55.2	70	-	20	40	-	0.8	M5HZ-42V	6MP	TP□□1103□□
26-ZMAC55-70AAV	54.8-70.2	70	-	26	53	-	0.7	M5HZ-55V	6MP	TP□□1103□□
34-ZMAC70-70AAV	69.8-85.2	70	-	34	67	-	1.1	M7HZ-70V	6MP	TP□□1103□□
42-ZMAC85-100AAV	84.8-100.2	100	-	42	83	-	2.3	M10HZ-85V	6MP	TP□□1103□□
42-ZMAC100-100AAV	99.5-140.5	100	-	42	83	95	2.8	M10HZ-100V	6MP	TP□□1103□□
42-ZMAC140-100AAV	139.5-180.5	100	-	42	83	135	3.1	M10HZ-140V	6MP	TP□□1103□□

Wendeplattenschrauben auf Seite 153

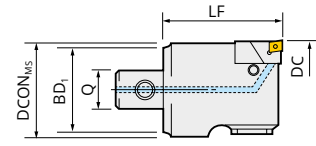
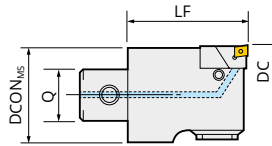
STANDARD AUSFÜHRUNG MIT ROMBISCHER WENDEPLATTE



Bezeichnung	DC	LF	LU	Q	DCON _{Ms}	BD1	Gewicht (kg)	Verstelleinheit	Wendeplatte	ISO Platte
16-ZMAC32R-55V	31.8-42.2	55	-	16	31	-	0.7	M4HZ-32VR	CC06	CC□□0602□□
20-ZMAC42R-70V	41.8-55.2	70	-	20	40	-	1.1	M5HZ-42VR	CC06	CC□□0602□□
26-ZMAC55R-70V	54.8-70.2	70	-	26	53	-	1.2	M5HZ-55VR	CC06	CC□□0602□□
34-ZMAC70R-70V	69.8-85.2	70	-	34	67	-	2	M7HZ-70VR	CC08	CC□□09T3□□
42-ZMAC85R-100V	84.8-100.2	100	-	42	83	-	4.3	M10HZ-85VR	CC08	CC□□09T3□□
42-ZMAC100R-100V	99.5-140.5	100	-	42	83	95	4.9	M10HZ-100VR	CC12	CC□□1204□□
42-ZMAC140R-100V	139.5-180.5	100	-	42	83	135	6.3	M10HZ-140VR	CC12	CC□□1204□□

Wendeplattenschrauben auf Seite 153

STANDARD AUSFÜHRUNG HIGH SPEED MIT ROMBISCHER WENDEPLATTE



Bezeichnung	DC	LF	LU	Q	DCON _{Ms}	BD1	Gewicht (kg)	Verstelleinheit	Wendeplatte	ISO Platte
16-ZMAC32R-55AAV	31.8-42.2	55	-	16	31	-	0.5	M4HZ-32VR	CC06	CC□□0602□□
20-ZMAC42R-70AAV	41.8-55.2	70	-	20	40	-	0.8	M5HZ-42VR	CC06	CC□□0602□□
26-ZMAC55R-70AAV	54.8-70.2	70	-	26	53	-	0.7	M5HZ-55VR	CC06	CC□□0602□□
34-ZMAC70R-70AAV	69.8-85.2	70	-	34	67	-	1.1	M7HZ-70VR	CC08	CC□□09T3□□
42-ZMAC85R-100AAV	84.8-100.2	100	-	42	83	-	2.3	M10HZ-85VR	CC08	CC□□09T3□□
42-ZMAC100R-100AAV	99.5-140.5	100	-	42	83	95	2.8	M10HZ-100VR	CC12	CC□□1204□□
42-ZMAC140R-100AAV	139.5-180.5	100	-	42	83	135	3.1	M10HZ-140VR	CC12	CC□□1204□□

Bei allen ZMAC Ausbohrwerkzeugen ist der KAPR 90°

Wendeplattenschrauben auf Seite 153

ZMAC Ausbohrsystem



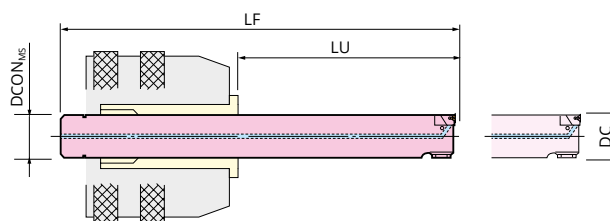
Für tiefe Bohrungen



Für tiefe Bohrungen-mit langer Aufnahme



Monoblockwerkzeuge mit Hartmetallschaft



Längeneinstellung

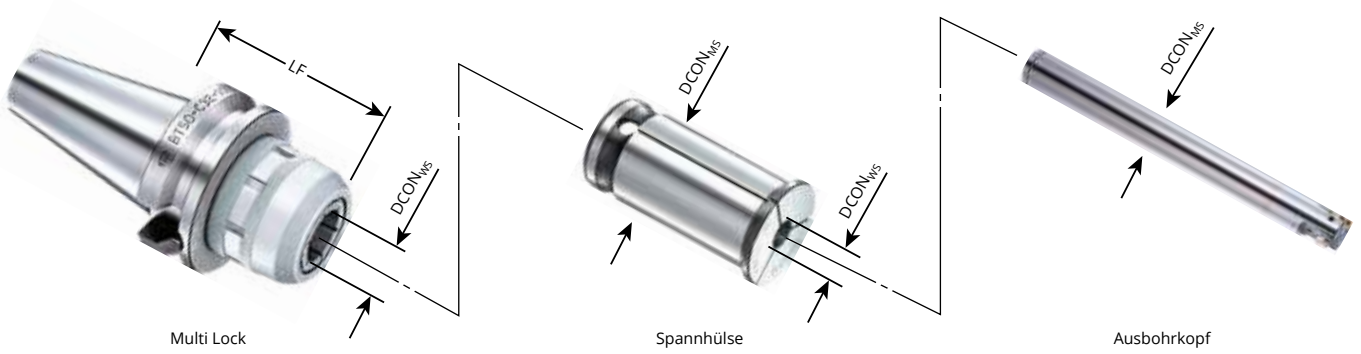
ZMAC mit Hartmetallschaft für tiefe Bohrungen

Bezeichnung	DC	LU	LF	DCON _{Ms}	Verstelleinheit	Gewicht (kg)	Wendepatte	ISO Platte
S12-BCBX12.7-95	12.7-14.5	50-95	130	12	M1-12.7	0,2	1MP	WB□□0501□□
S13-BCB14.5-105	14.5-19.5	50-105	135	13	M1-14.5	0,2	1MP	WB□□0501□□
S15-ZMACX16-120V	15.9-20.2	65-120	150	15	M2HZ-16V	0,3	3MP	WB□□0601□□
S19-ZMACX20-150V	19.8-25.2	100-150	180	19	M2HZ-20V	0,6	3MP	WB□□0601□□
S24-ZMACX25-190V	24.8-32.2	140-190	220	24	M3HZ-25V	1,3	3MP	WB□□0601□□
S30-ZMAC32-260V	31.8-42.2	190-260	290	30	M4HZ-32V	2,6	4MP	WB□□0802□□
S32-ZMACX42-275V	41.8-55.2	205-275	305	32	M5HZ-42V	3,8	6MP	TP□□1103□□

Innenkühlung bei allen Modellen vorhanden

TIEFE BOHRUNGEN IN KOMBINATION MIT MULTI LOCK

Ultra tiefe Bohrungen bis 8xD können mit der Hartmetallstange umgesetzt werden. Axiale Verstellung im Multi Lock möglich.

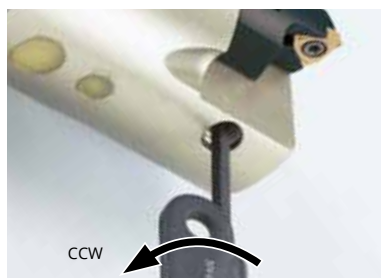


Kegel	Multi Lock Bezeichnung	Spannhülse
BT40	BT40-C20-70, 90, 105, 120	KM20
	BT40-C25-70, 90, 120	KM25
	BT40-C32-85, 105, 120	KM32
BT50	BT50-C20-105, 135, 165, 180	KM20
	BT50-C25-105, 135, 165	KM25
	BT50-C32-90, 105, 120, 135, 165	KM32
	BT50-C42-95, 105, 120, 135, 165	KM42

Siehe weitere Schnittstellen wie HSK oder IT in den jeweiligen Tabellen.

Spannhülse	Stange mit Ausbohrkopf
KM20-12	S12-BCBX12.7-95
KM20-13	S13-BCBX14.5-105
KM25-12	S12-BCBX12.7-95
KM25-13	S13-BCBX14.5-105
KM25-15	S15-ZMACX16-120V
(KM42) KM32-12	S12-BCBX12.7-95
(KM42) KM32-13	S13-BCBX14.5-105
(KM42) KM32-15	S15-ZMACX16-120V
(KM42) KM32-19	S19-ZMACX20-150V
(KM42) KM32-24	S24-ZMACX25-190V
(KM42) KM32-30	S30-ZMACX32-260V
KM42-32	S32-ZMACX42-275V

DIE DURCHMESSERVERSTELLUNG ERFOLGT SEHR EINFACH



Lösen



Einstellen



Klemmen

DJ Boring

Mit zwei Baugrößen und einer ständig wachsenden Auswahl an Bohrstangen bietet das DJ Ausbohrsystem eine vielseitige und grosse Bandbreite an Werkzeugen für das Ausspindeln im kleineren Durchmesserbereich von 3-50 mm. Das System ermöglicht ein genaues Arbeiten im Mikrometerbereich und erfüllt alle wichtigen Anforderungen, indem verschiedenste Ausbohrreinsätze selbst ausgetauscht werden können.



EIGENSCHAFTEN

- Vielseitig und einfach in der Handhabung
- Bohrstangen aus Vollhartmetall vermindern Vibrationen
- Einfache und präzise Einstellung
- Kompatibel mit alternativen Bohrstangen
- Neue Reduzierhülse von 16 mm auf 10 mm
- Bohrdurchmesserbereich: \varnothing 3-50 mm

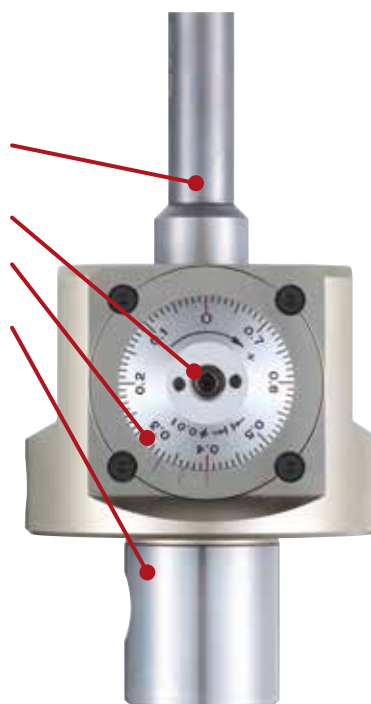
VIELSEITIGKEIT BEIM BOHREN

Durch die grosse Auswahl an Bohrstangen wird ein grosser Durchmesserbereich abgedeckt

Einfache Feineinstellung

Skala von 0,005 mm

Durch Benutzung des NIKKEN Q26 Grundhalters ist er mit allen Maschinenspindeln kompatibel



DJ BOHRSTANGEN

Ein vielseitiges Sortiment an Hartmetallbohrstangen ist verfügbar.

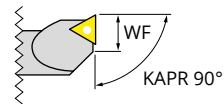
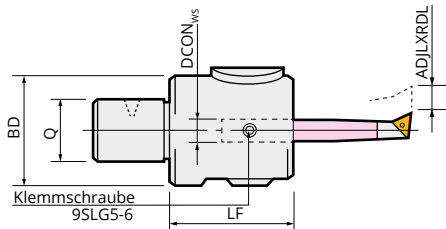




DJ Kopf mit DJ Bohrstangeneinsatz



Einfache Verstellung mit Nonius



Bei allen Wendeplattenhaltern ist der Anstellwinkel (KAPR) 90 Grad.

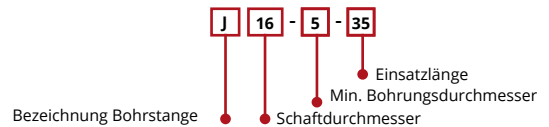
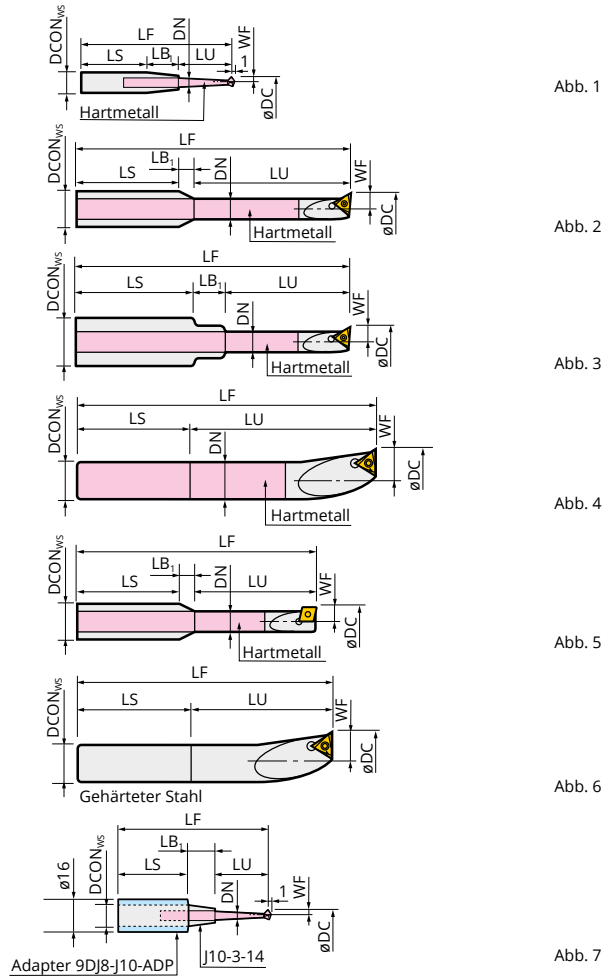
DJ Boring - universelles Ausbohrwerkzeug mit zentrischer Bohrstange

DJ Grösse	Bezeichnung	Q	DC	DCONws	LU	LF	LSCN	BD1	ADJLXRDL	Gewicht (kg)
DJ3	Q26-DJ3-40A-BD	26	3-28	10	14-80	40	27	50	5.2	
DJ8	Q26-DJ8-44A-BD	26	3-50	16	14-130	44	32	59	6	0,8

DJ Bohrstanzen



Neue DJ-Bohrstange-Serie für DJ8 (ø3-8mm)



DJ Bohrstanzen - Vorzugsreihe														
Ausbohrkopf	Bezeichnung	DC	LU	DCONws	LF	LS	LB ₁	DN	WF	Wendeplatte	Wendeplatten-schraube	Wendeplatten-Schlüssel	Abbildung	Gewicht (g)
DJ3	J10-3-14	3-8	14	10	62	30	18	2.2	1.5	-	-	-	1	30
	J10-5-35	5-15	35		70	30	5.0	4.3	2.5	CC03-C	M611	10S	5	30
	J10-8-40	8-18	40		75	32.5	2.5	7.2	4.0	3MP-C	M2037	T-6	2	50
	J10-18-62A	18-28	62		91	29	-	12	9.0	6MP-C	M2577	T-8	4	130
DJ8	J16-8-40	8-18	40	16	83	32	10	7.2	4.0	3MP-C	M2037	T-6	3	50
	J16-18-60C	18-28	60		93	33	-	16	9.0	6MP-C	M2577	T-8	6	150
	J16-28-85C	28-39	65		98	33	-	16	14.0	6MP-C	M2577	T-8	6	150
	J16-38-85C	38-50	65		98	33	-	16	19.0	6MP-C	M2577	T-8	6	200
	J16-8-40	8-18	40		83	32	10	7.2	4.0	3MP-C	M2037	T-6	3	50
	J16-18-80C	18-28	80		113	33	-	16	9.0	6MP-C	M2577	T-8	4	300
	J16-28-85C	28-39	85		118	33	-	16	14.0	6MP-C	M2577	T-8	4	300
	J16-38-85C	38-50	85		118	33	-	16	19.0	6MP-C	M2577	T-8	4	350

DJ Bohrstanzen mit C am Ende, besitzen Innenkühlung

DJ Bohrstanzen – Ergänzungen														
Ausbohrkopf	Bezeichnung	DC	LU	DCON	LF	LS	LB1	DN	WF	Schraube zu Wendeplatte	Wendeplatten-schraube	Wendeplatten-Schlüssel	Abbildung	Gewicht (g)
DJ3	J10-5-30	5-15	30	10	60	30	-	4.3	2.5	CC03-C	M611	10S	5	28
	J10-8-35	8-18	35	10	65	30	-	7.2	4.0	3MP-C	M2037	T-6	2	43
	J10-8-55	8-18	55	10	90	32.5	2.5	7.2	4.0	3MP-C	M2037	T-6	2	70
	J10-12-40C	12-22	40	10	70	30	-	10	6.0	3MP-C	M2040	T-6	4	80
	J10-12-55C	12-22	55	10	85	26	-	10	6.0	3MP-C	M2040	T-6	4	100
	J10-18-65C	18-28	65	10	91	26	-	12	9.0	6MP-C	M2577	T-8	4	130
	J10-18-50A	18-28	50	10	79	29	-	12	9.0	6MP-C	M2577	T-8	4	110
	J10-18-80C	18-28	80	10	106	26	-	12	9.0	6MP-C	M2577	T-8	4	130
	J10 18-77A	18-28	77	10	106	29	-	12	9.0	6MP-C	M2577	T-8	4	130
	J10-3-14	3-8	14	10	62	30	18	2.2	1.5	-	-	-	7	30
DJ8	J16-5-25	5-15	25	16	60	31.5	3.5	4.3	2.5	CC03-C	M611	10S	5	76
	J16-5-35	5-15	35	16	78	33	10	4.3	2.5	CC03-C	M611	10S	5	80
	J16-8-35	8-18	35	16	70	32.5	2.5	7.2	4.0	3MP-C	M2037	T-6	2	90
	J16-8-55	8-18	55	16	98	32	10	7.2	4.0	3MP-C	M2037	T-6	3	110
	J16-12-50C	12-22	50	16	90	35	-	11.2	6.0	3MP-C	M2045	T-6	2	140
	J16 12-60C	12-22	60	16	103	40.5	2.5	11.2	6.0	3MP-C	M2045	T-6	2	170
	J16-18-100C	18-28	100	16	133	33	-	16	9.0	6MP-C	M2577	T-8	4	350
	J16-18-120C	18-28	120	16	153	33	-	16	9.0	6MP-C	M2577	T-8	4	400
	J16-28-100C	28-39	100	16	133	33	-	16	14.0	6MP-C	M2577	T-8	4	350
	J16-28-130C	28-39	130	16	163	33	-	16	14.0	6MP-C	M2577	T-8	4	450
J16-38-100C	38-50	100	16	133	33	-	23	19.0	6MP-C	M2577	T-8	4	370	
J16-38-130C	38-50	130	16	163	33	-	16	19.0	6MP-C	M2577	T-8	4	470	

- DJ Bohrstanzen mit C am Ende, besitzen Innenkühlung
- Wenn der J10-3-14 mit DJ8 benutzt wird, ist der Adapter 9DJ8-DJ10-ADP nötig

eMAC digitales Ausbohrsystem

Das NIKKEN eMAC digitale Ausbohrsystem ist ein Feinbohrkopf mit digitalem Display zur Anzeige der radialen Einstellung. Die Einstellung kann einfach, schnell und präzise vorgenommen werden.

EIGENSCHAFTEN

- Ein-Knopf-Bedienung für das Einschalten, Nullen und zum Umschalten zwischen mm/Zoll
- Justierschraube
- Auflösung der Digitalanzeige im $\varnothing 2 \mu\text{m}$
- Erhältlich für jede Maschinenspindel durch Verwendung eines modularen NIKKEN Q26 Grundhalters
- Modulare Durchmesser: $\varnothing 6\text{-}200 \text{ mm}$



DIGITALE EINSTELLUNG

Ein Knopf zum Einschalten und Zurücksetzen sowie zur Einstellung zwischen mm und inch

Einstellschraube

Digitale Einstellung ab $\varnothing 2 \mu\text{m}$

Durch den NIKKEN Q26 Grundhalter auf allen Maschinenspindeln einsetzbar



EMAC SET (IM KOFFER)

Weitere Informationen auf Anfrage

EMAC ZUBEHÖR



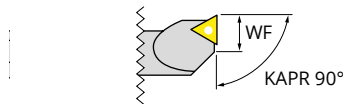
Q26-EMACP6110-61



Q42-EMACP6200W-85

eMac Ausdrehkopf - universelles Ausbohrwerkzeug mit zentrischer Bohrstange

Bezeichnung	DC	LU	LF	BD1	Gewicht (kg)
Q26-EMACP6110-61	6-110	21-94	61	50	0.85
Q42-EMACP6200W-85	6-200	21-125.5	106	83	3.4

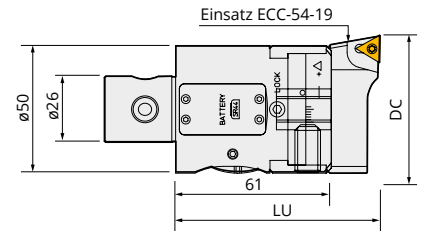
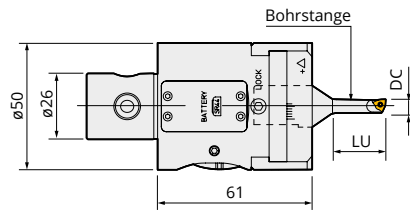


Bei allen Bohrstanzen für das eMac System ist der KAPR 93°

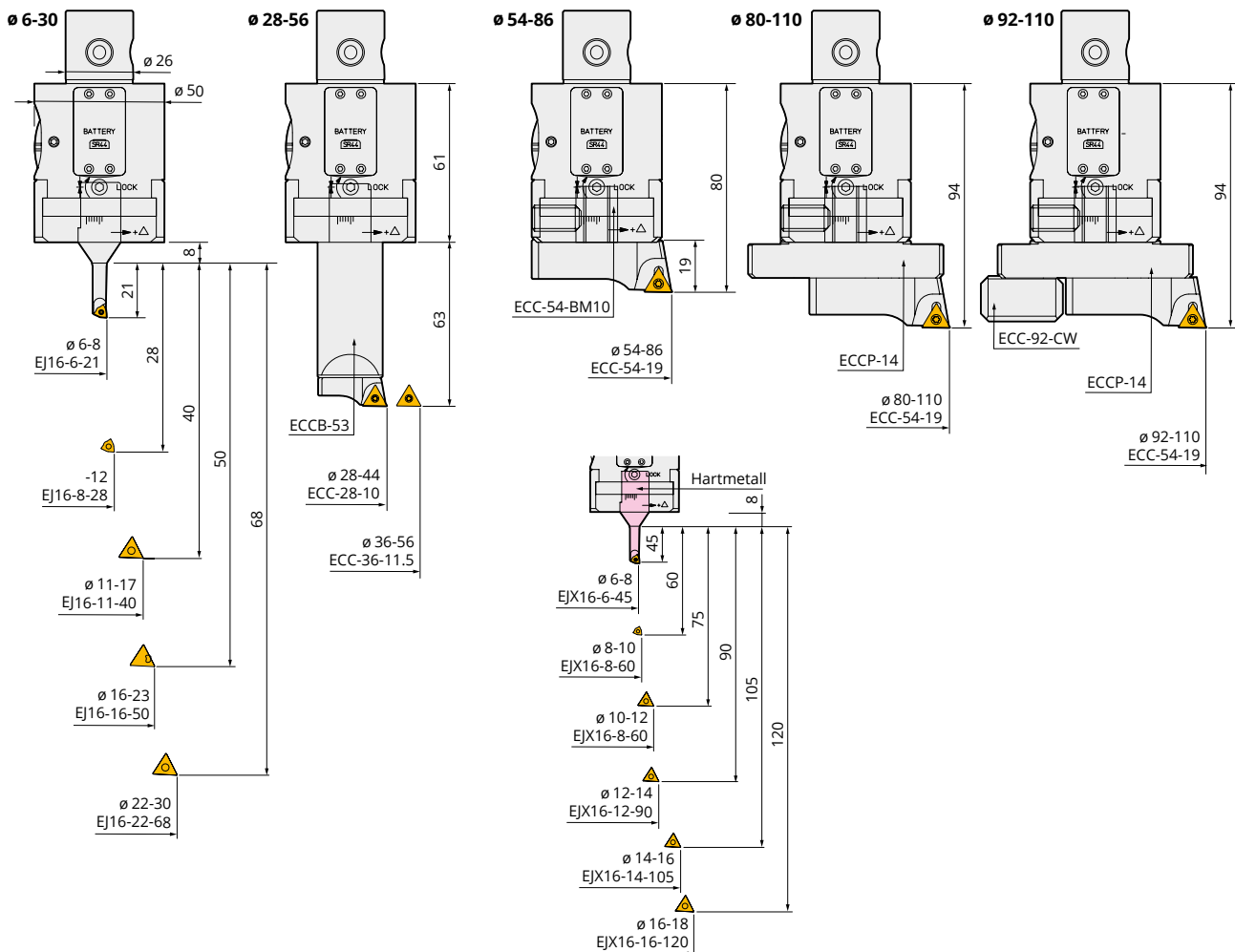
Durchmesserbereich	Bohrstange	Hartmetall Bohrstange	Wendeplattenhalter	Wendeplatte	Schraube	Gewindegrösse	Torx Wrench
6-8	EJ16-6-21	EJX16-6-45		EM02	TS21	M2	T-6
8-10	EJ16-8-28	EJX16-8-60		EM02	TS211	M2	T-6
10-12	EJ16-10-35	EJX16-10-75		EM09	CS250T	M2.5	T-8
11-13	EJ16-11-40	-		EM09	CS250T	M2.5	T-8
12-14	EJ16-12-42	EJX16-12-90		EM09	CS250T	M2.5	T-8
14-16	EJ16-14-50	EJX16-14-105		EM09	CS250T	M2.5	T-8
16-18	EJ16-16-50	EJX16-16-120		EM09	CS250T	M2.5	T-8
18-22	EJ16-18-63	-		EM09	CS250T	M2.5	T-8
22-30	EJ16-22-68	-		EM09	CS250T	M2.5	T-8
28-44	-	-	ECC-28-10	EM09	CS250T	M2.5	T-8
36-56	-	-	ECC-36-11.5	EM09	CS250T	M2.5	T-8
54-200	-	-	ECC-54-19	EM11	CS300890T	M3	T-8

eMAC digitales Ausbohrsystem

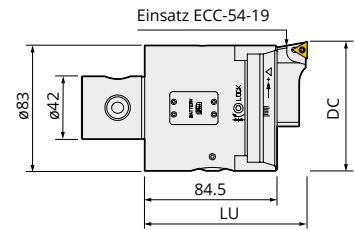
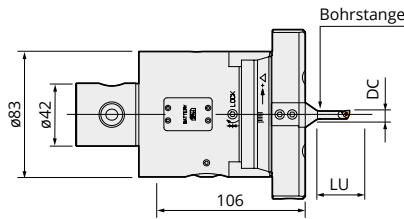
EMACP MODULARER AUSBOHRKOPF



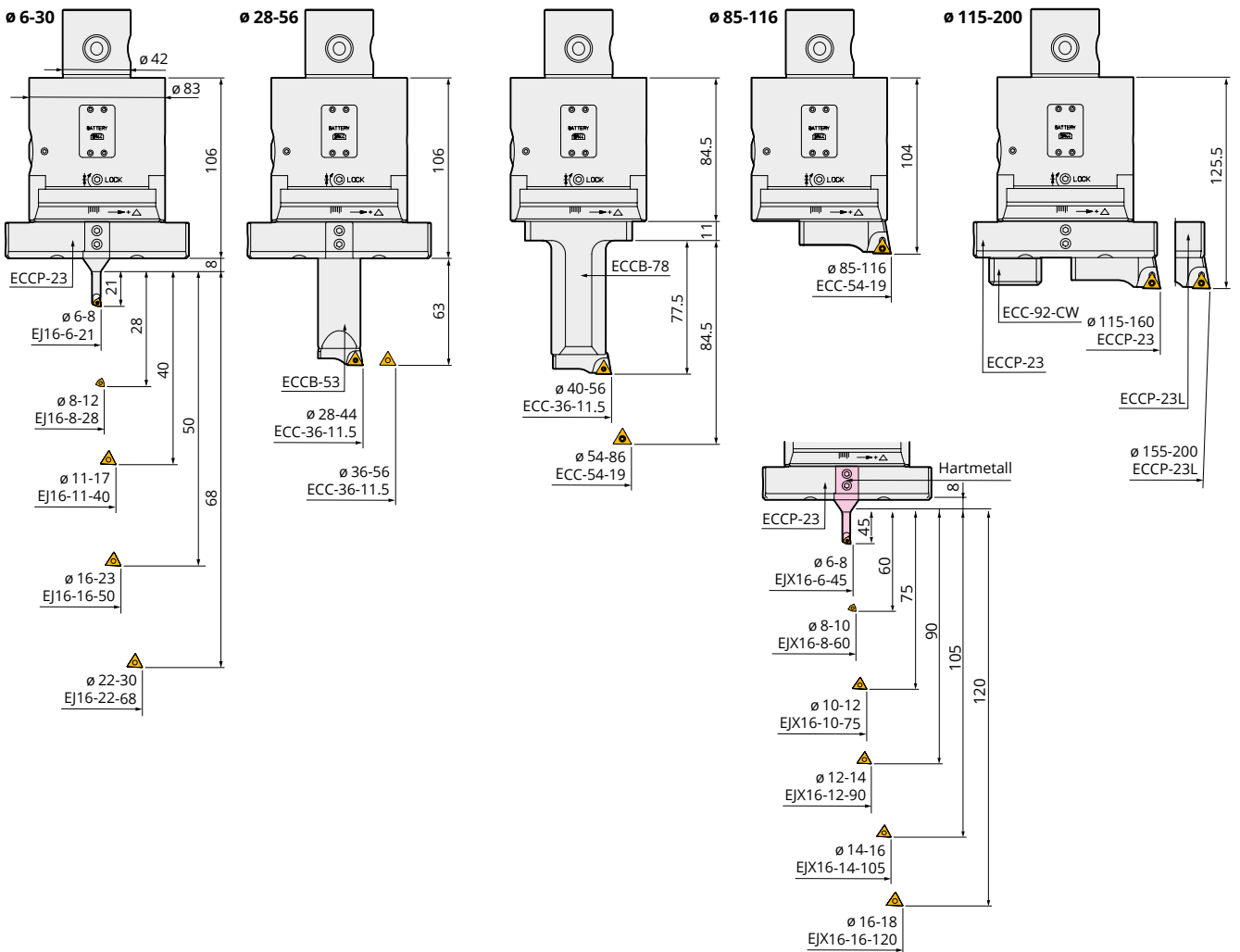
Q	Ausbohrkopf Bezeichnung	DC	LU	Bohrstange	Hartmetall Bohrstange	Wendeplatten- halter
				EJ16-6-21	EJX16-6-45	
				EJ16-8-28	EJX16-8-60	
				EJ16-10-35	EJX16-10-75	
				EJ16-11-40	-	
Q26	Q26-EMACP6110-61	ø 6-110	21-94	EJ16-14-50	EJX16-14-105	ECC-28-10
				EJ16-12-42	EJX16-12-90	ECC-36-11.5
				EJ16-16-50	EJX16-16-120	ECC-54-19
				EJ16-18-63	-	
				EJ16-22-68	-	



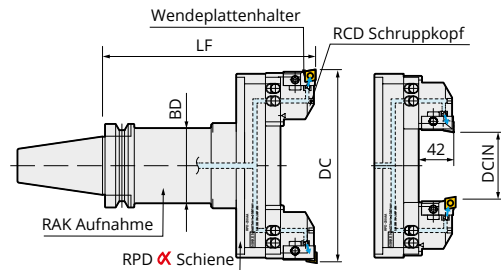
EMACP-W MODULARER AUSBOHRKOPF



Q	Ausbohrkopf Bezeichnung	DC	LU	Bohrstange	Hartmetall Bohrstange	Wendeplatten- halter
				EJ16-6-21	EJX16-6-45	
				EJ16-8-28	EJX16-8-60	
				EJ16-10-35	EJX16-10-75	
				EJ16-11-40	-	
Q42	Q42-EMACP6200W-85	ø 6-200	21-125.5	EJ16-14-50	EJX16-14-105	ECC-28-10
				EJ16-12-42	EJX16-12-90	ECC-36-11.5
				EJ16-16-50	EJX16-16-120	ECC-54-19
				EJ16-18-63	-	
				EJ16-22-68	-	



BALANCE-CUT RAC α



EIGENSCHAFTEN

- Zum Schruppen
- Mit Verstellerschrauben
- Durchmesserbereich: \varnothing 130-580 mm

Code	ISO Bezeichnung
CN08	CN□□1204□□
CC12	CC□□1204□□
AEG16	AE□□1503□□
SC12	SC□□1204□□
6MP	TP□□1103□□

ZUBEHÖR SCHRUPPEN-CUT RAC α



Vorzugsserie, allgemeines Schruppen, positive Wendeplatten
RCD-130E
(S-RCD130E als Set paarweise)
KAPR 90°



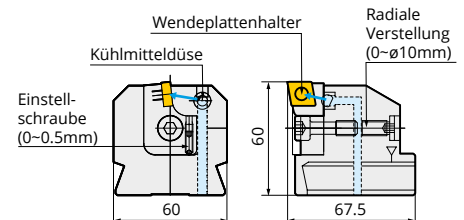
Heavy Duty Boring für grobe Schruppbearbeitung-negative Wendeplatten
RCD-130
(S-RCD130 als Set paarweise)
KAPR 90°



Aluminium Bearbeitung, positive Wendeplatten
RCD-130A
(S-RCD130A als Set paarweise)
KAPR 90°



Durchgangsbohrungen und Gussbearbeitung, positive Wendeplatten
RCD-130K
(S-RCD130 als Set paarweise)
KAPR 110°

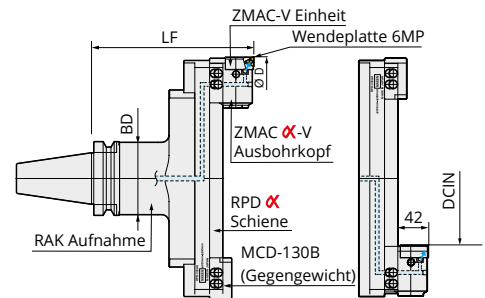


Gewicht: 0.6 kg

Zubehör	Wendeplatte	Einstellschraube	Schlüssel zu Einstellschraube	Klemmschraube Schiene	Schlüssel M1016	Schraube zu Wendeplattenhalter	Kühlmittelverschlusschraube	Schlüssel M510	Applicable RPD α Plate
Bezeichnung	CN08 CC12 AEG12 SC12	M416	M2	M1016	M5	M825-AJ	M510	M2.5	RPD-130AA, 180AA, 230AA, 280AA, 330AA, 380AA, 430AA, 480AA, 530AA

Wendeplattenhalter sind einzeln verfügbar: M10HZ-85CH-N,E,A,K

BALANCE-CUT BAC α



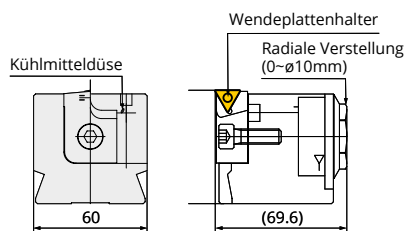
EIGENSCHAFTEN

- Zum Schlichten
- Durchmesserbereich: \varnothing 130-595 mm
- Durchmesserbereich Zapfendreien : \varnothing 10-430 mm

ZUBEHÖR SCHLICHTEN-CUT BAC α -V



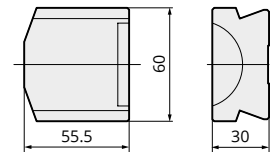
Ausbohrkopf (MCDZ-130AAV)



Gewicht 0.8 kg



Gegengewicht (MCD-130B)

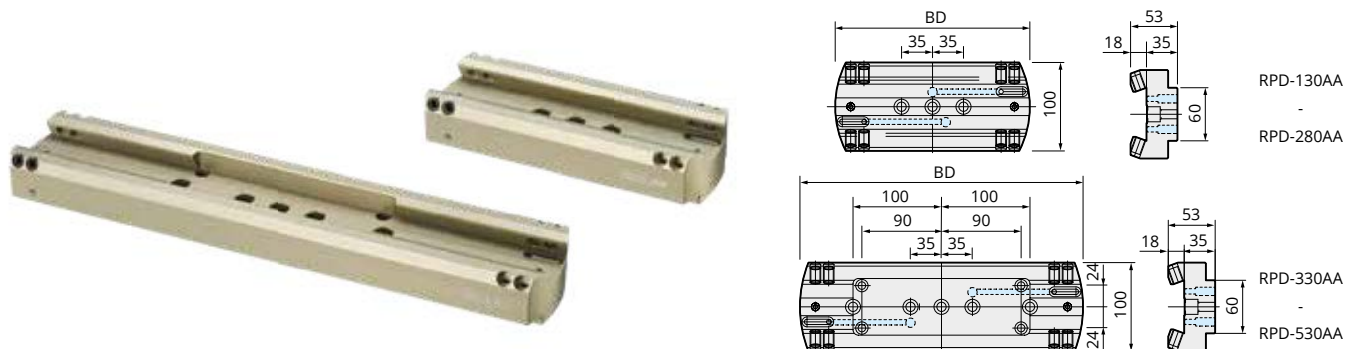


Gewicht: 0.7 kg

Als Set verfügbar: S.MCDZ-130AAVR

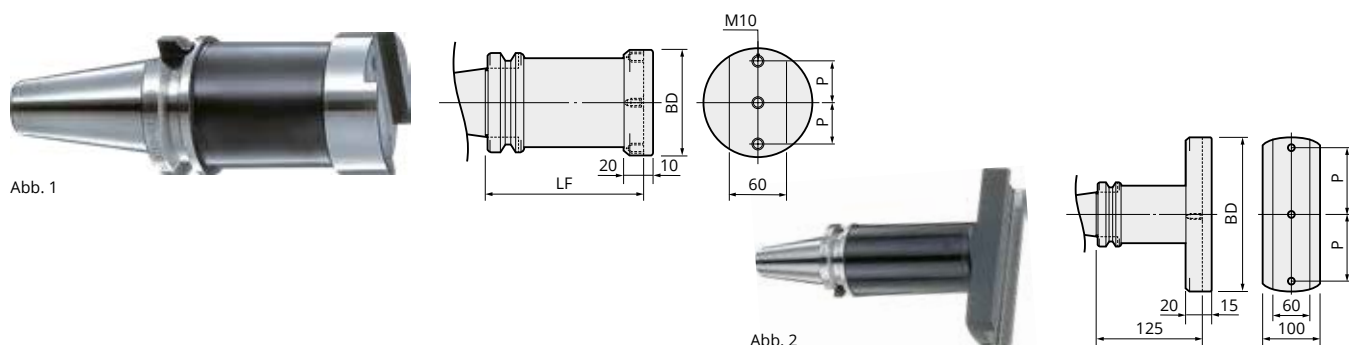
Zubehör	ZMAC-V Einheit	Wendeplatte	Wendeplatten-schraube	Schlüssel zu Wendeplatte	Kühlmit-telver-schluss-schraube	Schlüssel M510	Klemm-schraube Schiene	Schlüssel M1016	Einstell-schlüssel	RPD Schiene
Bezeichnung	M10HZ-75V	6MP-C	M2577	T-8	M510	M2.5	M1016	M5	M10HZL	RPD-130AA,180AA,230AA, 280AA,330AA,380AA,430AA, 480AA,530AA

RPD SCHIENE



Bezeichnung	DC	BD	DCINN-DCINX	Gewicht (kg)
RPD-130AA	130-180	124	10-30	1.1
RPD-180AA	180-230	170	30-80	1.6
RPD-230AA	230-280	220	80-130	2.2
RPD-280AA	280-330	270	130-180	2.7
RPD-330AA	330-380	320	180-230	3.2
RPD-380AA	380-430	370	230-280	3.7
RPD-430AA	430-480	420	280-330	4.2
RPD-480AA	480-530	470	330-380	4.7
RPD-530AA	530-580	520	380-430	5.2

RAK AUFNAHME IT / BT



Bezeichnung	DC	LF	BD	P	Gewicht (kg)	RPD x Schiene	Schraube	Abb.	
IT40-RAK-130A BT40-RAK-130A	130-230	130	102	35	4.9	RPD-130AA, 180AA	M1035	1	
IT50-RAK-110A BT50-RAK-110A	130-330	110	102	35	7.2		M1035	1	
IT50-RAK-160A BT50-RAK-160A	130-330	160	102	35	9.9		M1035	1	
IT50-RAK-210A BT50-RAK-210A	130-330	210	102	35	12.6		M1035	1	
IT50-RAK-260A BT50-RAK-260A	130-330	260	102	35	15.3		RPD-130AA, 180AA, 230AA, 280AA	M1035	1
IT50-RAK-310A BT50-RAK-310A	130-330	310	102	35	18.0			M1035	1
IT50-RAK-360A BT50-RAK-360A	130-330	360	102	35	20.7			M1035	1
IT50-RAK-410A BT50-RAK-410A	130-330	410	102	35	23.4	M1035	1		
IT50-RAK330-125 BT50-RAK330-125	330-580	125	240	100	12.0	RPD-330AA, 380AA, 430AA, 480AA, 530AA	M1045	2	

RAK AUFNAHMEN HSK



Abb. 1

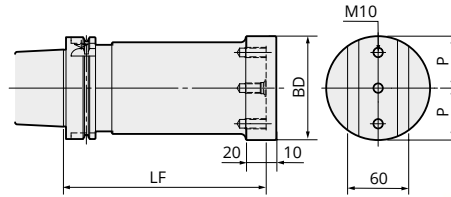
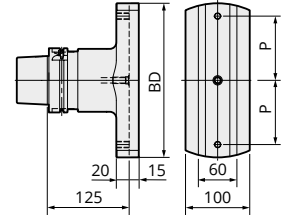




Abb. 2



Bezeichnung	DC	LF	BD	P	Gewicht (kg)	RPD Schiene	Schraube	Abb.
								
HSK 63A-RAK-130A	130-230	130	102	35	4.3	RPD-130AA, 180AA	M1035	1
HSK100A-RAK-110A	130-330	110	102	35	6.7	RPD-130AA, 180AA, 230AA, 280AA	M1035	1
HSK100A-RAK-160A	130-330	160	102	35	9.2		M1035	1
HSK100A-RAK-210A	130-330	210	102	35	11.9		M1035	1
HSK100A-RAK-260A	130-330	260	102	35	14.6		M1035	1
HSK100A-RAK-310A	130-330	310	102	35	17.3		M1035	1
HSK100A-RAK-360A	130-330	360	102	35	20.0		M1035	1
HSK100A-RAK-410A	130-330	410	102	35	22.7		M1035	1
HSK100A-RAK330-125	330-580	125	240	100	11.3	RPD-330AA, 380AA, 430AA, 480AA, 530AA	M1045	2



Auch in Stahlausführung lieferbar



Auch in Stahlausführung lieferbar

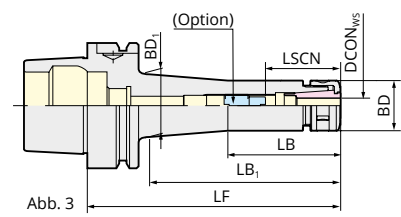
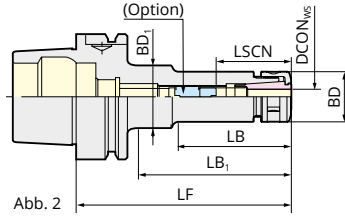
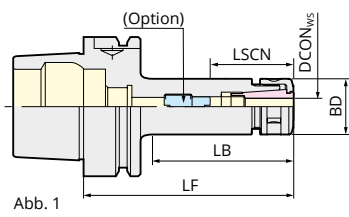
HSK DIN69893 Form A / E / F

SLIM CHUCK – HSK FORM A



Form A

Bezeichnung	LF	DCON _{WS}	LSCN	LSCX	LB	LB ₁	BD	BD ₁	Max. U/min
HSK40A-SK6-60	60	0.7-6.0	40	40	37	-	19.5	-	15.000
HSK40A-SK6C-80	80	0.7-6.0	26-31	46	57	-	19.5	-	15.000
HSK40A-SK10-60	60	1.75-10.0	40	40	39	-	27.5	-	15.000
HSK40A-SK10-75	75	1.75-10.0	29-36	43	52	-	27.5	-	15.000
HSK40A-SK10C-100	100	1.75-10.0	33-41	58	77	-	27.5	-	15.000
HSK40A-SK13-75	75	2.75-13.0	55	55	54	-	33	-	12.000
HSK40A-SK13C-120	120	2.75-13.0	39-51	68	100	-	33	-	12.000
HSK40A-SK16-80	80	2.75-16.0	60	60	59	-	40	-	10.000
HSK40A-SK16-120	120	2.75-16.0	45-52	77	99	-	40	-	10.000
HSK50A-SK6-60	60	0.7-6.0	37	37	31	-	19.5	-	15.000
HSK50A-SK6C-80	80	0.7-6.0	26-31	v	51	-	19.5	-	15.000
HSK50A-SK10-60	60	1.75-10.0	35	35	33	-	27.5	-	15.000
HSK50A-SK10C-90	90	1.75-10.0	35-41	65	63	-	27.5	-	15.000
HSK50A-SK10C-105	105	1.75-10.0	35-41	58	76	-	27.5	-	15.000
HSK50A-SK13-70	70	2.75-13.0	47	47	43	-	33	-	12.000
HSK50A-SK13-90	90	2.75-13.0	65	65	61	-	33	-	12.000
HSK50A-SK13-105	105	2.75-13.0	65	65	76	-	33	-	12.000
HSK50A-SK13C-120	120	2.75-13.0	31-47	80	89	-	33	-	12.000
HSK50A-SK16-80	80	2.75-16.0	52	52	53	-	40	-	10.000
HSK50A-SK16-105	105	2.75-16.0	50-58	65	78	-	40	-	10.000
HSK50A-SK16C-120	120	2.75-16.0	45-52	77	93	-	40	-	10.000
HSK63A-SK6-60	60	0.7-6.0	38	38	31	-	19.5	-	15.000
HSK63A-SK6-80	80	0.7-6.0	21-35	58	51	-	19.5	-	15.000
HSK63A-SK6C-□	100, 120, 150	0.7-6.0	26-35	46	62, 62, 60	71, 91, 121	19.5	32, 32, 25	15.000
HSK63A-SK10-60	60	1.75-10.0	35	35	31	-	27.5	-	15.000
HSK63A-SK10C-□	90, 105, 120, 135, 150	1.75-10.0	33-41	53, 58, 58, 58, 58	59, 74, 60, 75, 73	59, 74, 91, 106, 121	27.5	27.5, 27.5, 32, 40, 34.5	15.000
HSK63A-SK13-70	70	2.75-13.0	45	45	43	-	33	-	12.000
HSK63A-SK13-90	90	2.75-13.0	64	64	61	-	33	-	12.000
HSK63A-SK13-105	105	2.75-13.0	31-47	80	74	-	33	-	12.000
HSK63A-SK13C-□	120, 150	2.75-13.0	39-51	68	89, 88	89, 119	33	-	12.000
HSK63A-SK16-80	80	2.75-16.0	52	52	51	-	40	-	10.000
HSK63A-SK16-105	105	2.75-16.0	50-58	65	76	-	40	-	10.000
HSK63A-SK16C-120	120	2.75-16.0	45-52	77	91	-	40	-	10.000
HSK63A-SK16C-150	150	2.75-16.0	45-57	84	121	-	40	-	10.000
HSK63A-SK20-90	90	3.5-20.0	59	59	63	-	48.5	-	12.000
HSK63A-SK20-105	105	3.5-20.0	50-57	64	78	-	48.5	-	12.000
HSK63A-SK20C-□	120, 135	3.5-20.0	50-55	74	93, 108	-	48.5	-	12.000
HSK63A-SK25-90	90	7.5-25.4	63	63	61	-	55	-	12.000
HSK63A-SK25C-135	135	7.5-25.4	63	91	108	-	60-65	-	12.000
HSK100A-SK6C-105	105	0.7-6.0	26-31	46	62	71	19.5	40	15.000
HSK100A-SK10C-□	105, 120	1.75-10.0	33-41	58	57, 74	71, 86	27.5	40	15.000
HSK100A-SK10C-□	150, 200	1.75-10.0	33-41	58	80, 75	116, 166	27.5	40, 39	12.000
HSK100A-SK13-105	105	2.75-13.0	63	63	71	-	33	-	15.000
HSK100A-SK13C-□	120, 150	2.75-13.0	39-51	68	86, 92	86, 116	33	45	15.000



Spannschlüssel	Spannzange	Anschlag-schraube	TiN Spannmutter (Standard)	Jet Typ Spannmutter	Jet Abdeck-kappe	O-Ring Abdeckkappe	Abdeckkappen-schlüssel	Abb.
SKL-6W	SK6-□	-	SKN-6WK	SKN-6WKJ	SKJ6-□	SKJ6-□C	SKJL-6	1
SKL-6W	SK6-□	SKG6-6HG	SKN-6WK	SKN-6WKJ	SKJ6-□	SKJ6-□C	SKJL-6	1
SKL-10	SK10-□	-	SKN-10K	SKN-10KJ	SKJ10-□	SKJ10-□C	SKJL-10	1
SKL-10	SK10-□	SKG10-10HG	SKN-10K	SKN-10KJ	SKJ10-□	SKJ10-□C	SKJL-10	1
SKL-10	SK10-□	SKG10-10HG	SKN-10K	SKN-10KJ	SKJ10-□	SKJ10-□C	SKJL-10	1
9HC12A	SK13-□	-	SKN-13B	SKN-13BJ	SKJ16-□	SKJ16-□C	SKJL-16	1
9HC12A	SK13-□	SKG13-10HG	SKN-13B	SKN-13BJ	SKJ16-□	SKJ16-□C	SKJL-16	1
9HC16	SK16-□	-	SKN-16B	SKN-16BJ	SKJ16-□	SKJ16-□C	SKJL-16	1
9HC16	SK16-□	SKG16-10HG	SKN-16B	SKN-16BJ	SKJ16-□	SKJ16-□C	SKJL-16	1
SKL-6W	SK6-□	-	SKN-6WK	SKN-6WKJ	SKJ6-□	SKJ6-□C	SKJL-6	1
SKL-6W	SK6-□	SKG6-6HG	SKN-6WK	SKN-6WKJ	SKJ6-□	SKJ6-□C	SKJL-6	1
SKL-10	SK10-□	-	SKN-10K	SKN-10KJ	SKJ10-□	SKJ10-□C	SKJL-10	1
SKL-10	SK10-□	SKG10-10HG	SKN-10K	SKN-10KJ	SKJ10-□	SKJ10-□C	SKJL-10	1
SKL-10	SK10-□	SKG10-10HG	SKN-10K	SKN-10KJ	SKJ10-□	SKJ10-□C	SKJL-10	1
SKL-10	SK10-□	SKG10-10HG	SKN-10K	SKN-10KJ	SKJ10-□	SKJ10-□C	SKJL-10	1
9HC12A	SK13-□	-	SKN-13B	SKN-13BJ	SKJ16-□	SKJ16-□C	SKJL-16	1
9HC12A	SK13-□	-	SKN-13B	SKN-13BJ	SKJ16-□	SKJ16-□C	SKJL-16	1
9HC12A	SK13-□	SKG13-10HG	SKN-13B	SKN-13BJ	SKJ16-□	SKJ16-□C	SKJL-16	1
9HC12A	SK13-□	SKG13-10HG	SKN-13B	SKN-13BJ	SKJ16-□	SKJ16-□C	SKJL-16	1
9HC16	SK16-□	-	SKN-16B	SKN-16BJ	SKJ16-□	SKJ16-□C	SKJL-16	1
9HC16	SK16-□	SKG16-10HG	SKN-16B	SKN-16BJ	SKJ16-□	SKJ16-□C	SKJL-16	1
9HC16	SK16-□	SKG16-10HG	SKN-16B	SKN-16BJ	SKJ16-□	SKJ16-□C	SKJL-16	1
9HC16	SK16-□	SKG16-10HG	SKN-16B	SKN-16BJ	SKJ16-□	SKJ16-□C	SKJL-16	1
SKL-6W	SK6-□	-	SKN-6WK	SKN-6WKJ	SKJ6-□	SKJ6-□C	SKJL-6	1
SKL-6W	SK6-□	SKG6-6HG	SKN-6WK	SKN-6WKJ	SKJ6-□	SKJ6-□C	SKJL-6	1
SKL-6W	SK6-□	SKG6-6HG	SKN-6WK	SKN-6WKJ	SKJ6-□	SKJ6-□C	SKJL-6	2, 2, 3
SKL-10	SK10-□	-	SKN-10K	SKN-10KJ	SKJ10-□	SKJ10-□C	SKJL-10	1
SKL-10	SK10-□	SKG10-10HG	SKN-10K	SKN-10KJ	SKJ10-□	SKJ10-□C	SKJL-10	1, 1, 2, 2, 3
9HC12A	SK13-□	-	SKN-13B	SKN-13BJ	SKJ16-□	SKJ16-□C	SKJL-16	1
9HC12A	SK13-□	SKG13-10HG	SKN-13B	SKN-13BJ	SKJ16-□	SKJ16-□C	SKJL-16	1
9HC12A	SK13-□	SKG13-10HG	SKN-13B	SKN-13BJ	SKJ16-□	SKJ16-□C	SKJL-16	1
9HC12A	SK13-□	SKG13-10HG	SKN-13B	SKN-13BJ	SKJ16-□	SKJ16-□C	SKJL-16	1, 3
9HC16	SK16-□	-	SKN-16B	SKN-16BJ	SKJ16-□	SKJ16-□C	SKJL-16	1
9HC16	SK16-□	SKG16-10HG	SKN-16B	SKN-16BJ	SKJ16-□	SKJ16-□C	SKJL-16	1
9HC16	SK16-□	SKG16-10HG	SKN-16B	SKN-16BJ	SKJ16-□	SKJ16-□C	SKJL-16	1
9HC16	SK16-□	SKG16-10HG	SKN-16B	SKN-16BJ	SKJ16-□	SKJ16-□C	SKJL-16	1
9HC16	SK16-□	SKG16-10HG	SKN-16B	SKN-16BJ	SKJ16-□	SKJ16-□C	SKJL-16	1
9HC22	SK20-□	-	SKN-20B	SKN-20BJ	SKJ25-□	SKJ25-□C	SKJL-25	1
9HC22	SK20-□	SKG20-12MFHG	SKN-20B	SKN-20BJ	SKJ25-□	SKJ25-□C	SKJL-25	1
9HC22	SK20-□	SKG20-12MFHG	SKN-20B	SKN-20BJ	SKJ25-□	SKJ25-□C	SKJL-25	1
9HC25	SK25-□	-	SKN-25B	SKN-25BJ	SKJ25-□	SKJ25-□C	SKJL-25	1
9HC25	SK25-□	SKG25-18HGE	SKN-25B	SKN-25BJ	SKJ25-□	SKJ25-□C	SKJL-25	1
SKL-6W	SK6-□	SKG6-6HG	SKN-6WK	SKN-6WKJ	SKJ6-□	SKJ6-□C	SKJL-6	2
SKL-10	SK10-□	SKG10-10HG	SKN-10K	SKN-10KJ	SKJ10-□	SKJ10-□C	SKJL-10	2
SKL-10	SK10-□	SKG10-10HG	SKN-10K	SKN-10KJ	SKJ10-□	SKJ10-□C	SKJL-10	2
9HC12A	SK13-□	-	SKN-13B	SKN-13BJ	SKJ16-□	SKJ16-□C	SKJL-16	1
9HC12A	SK13-□	SKG13-10HG	SKN-13B	SKN-13BJ	SKJ16-□	SKJ16-□C	SKJL-16	1, 2

HSK DIN69893 Form A / E / F



Form A

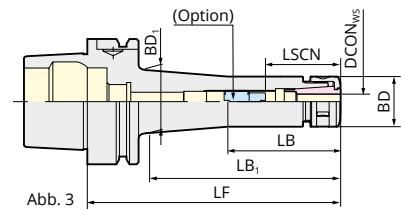
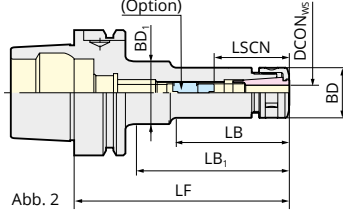
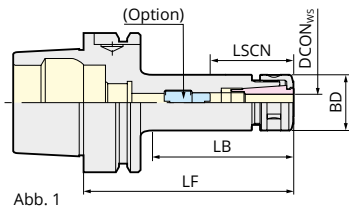
Bezeichnung	LF	DCON _{WS}	LSCN	LSCX	LB	LB ₁	BD	BD ₁	Max. U/min
HSK100A-SK13C-200	200	2.75-13.0	39-51	68	92	166	33	45	12.000
HSK100A-SK16-105	105	2.75-16.0	45-60	63	71	-	40	-	15.000
HSK100A-SK16C-120	120	2.75-16.0	45-52	77	86	-	40	-	15.000
HSK100A-SK16C-150	150	2.75-16.0	45-52	84	90	116	40	50	15.000
HSK100A-SK16C-200	200	2.75-16.0	45-52	84	90	166	40	55	12.000
HSK100A-SK20C-120	120	3.5-20.0	50-55	74	86	-	48.5	-	12.000
HSK100A-SK20C-150	150	3.5-20.0	47-63	82	116	-	48.5	-	12.000
HSK100A-SK20C-200	200	3.5-20.0	47-63	82	166	-	48.5	-	10.000
HSK100A-SK25-120	120	7.5-25.4	55-75	76	86	-	55	-	12.000
HSK100A-SK25C-145	145	7.5-25.4	60-65	91	111	-	55	-	12.000

SLIM CHUCK HIGH SPEED – HSK FORM A

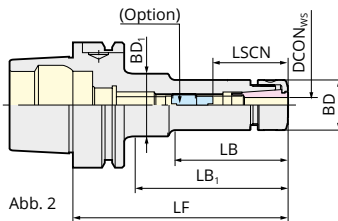
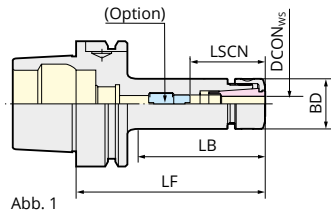


Form A

Bezeichnung	LF	DCON _{WS}	LSCN	LSCX	LB	LB ₁	BD	BD ₁	Max. U/min
HSK40A-SK6-60P	60P	0.7-6.0	40	40	37	-	19.5	-	40.000
HSK40A-SK10-75P	75P	1.75-10.0	29-36	43	52	-	27.5	-	40.000
HSK40A-SK13-75P	75P	2.75-13.0	55	55	54	-	33	-	40.000
HSK40A-SK16-80P	80P	2.75-16.0	60	60	59	-	40	-	30.000
HSK50A-SK6-60P	60P	0.7-6.0	37	37	31	-	19.5	-	30.000
HSK50A-SK6C-80P	80P	0.7-6.0	26-31	46	51	-	19.5	-	30.000
HSK50A-SK10-60P	60P	1.75-10.0	35	35	33	-	27.5	-	30.000
HSK50A-SK10-90P	90P	1.75-10.0	35-41	65	63	-	27.5	-	30.000
HSK50A-SK13-70P	70P	2.75-13.0	47	47	43	-	33	-	30.000
HSK50A-SK13-90P	90P	2.75-13.0	47	65	61	-	33	-	30.000
HSK50A-SK13-105P	105P	2.75-13.0	31-47	80	76	-	33	-	30.000
HSK50A-SK16-80P	80P	2.75-16.0	52	52	53	-	40	-	25.000
HSK50A-SK16-105P	105P	2.75-16.0	50-58	65	78	-	40	-	25.000
HSK63A-SK6-□	60P, 80P	0.7-6.0	38	38, 58	31, 51	-	19.5	-	30.000
HSK63A-SK6C-□	100P, 120P	0.7-6.0	26-31	46	62	71, 91	19.5	32	30.000
HSK63A-SK10-60P	60P	1.75-10.0	35	35	31	-	27.5	-	30.000
HSK63A-SK10C-90P	90P	1.75-10.0	33-36	53	53	-	27.5	-	30.000
HSK63A-SK10C-□	105P, 120P	1.75-10.0	33-41	58	74, 60	74, 91	27.5	27.5, 32	30.000
HSK63A-SK13-□	70P, 90P	2.75-13.0	45, 64	45, 64	43, 61	-	33	-	30.000
HSK63A-SK13-105P	105P	2.75-13.0	31-47	80	74	-	33	-	30.000
HSK63A-SK13C-120P	120P	2.75-13.0	39-51	68	89	-	33	-	30.000
HSK63A-SK16-80P	80P	2.75-16.0	52	52	51	-	40	-	25.000



Spann Schlüssel	Spannzange	Anschlag-schraube	TiN Spannmutter (Standard)	Jet Typ Spannmutter	Jet Abdeck-kappe	O-Ring Abdeckkappe	Abdeckkappen-schlüssel	Abb.
9HC12A	SK13-□	SKG13-10HG	SKN-13B	SKN-13BJ	SKJ16-□	SKJ16-□C	SKJL-16	3
9HC16	SK16-□	SKG16-12HG	SKN-16B	SKN-16BJ	SKJ16-□	SKJ16-□C	SKJL-16	1
9HC16	SK16-□	SKG16-12HG	SKN-16B	SKN-16BJ	SKJ16-□	SKJ16-□C	SKJL-16	1
9HC16	SK16-□	SKG16-12HG	SKN-16B	SKN-16BJ	SKJ16-□	SKJ16-□C	SKJL-16	2
9HC16	SK16-□	SKG16-12HG	SKN-16B	SKN-16BJ	SKJ16-□	SKJ16-□C	SKJL-16	3
9HC22	SK20-□	SKG20-12MFHG	SKN-20B	SKN-20BJ	SKJ25-□	SKJ25-□C	SKJL-25	1
9HC22	SK20-□	SKG20-12HG	SKN-20B	SKN-20BJ	SKJ25-□	SKJ25-□C	SKJL-25	1
9HC22	SK20-□	SKG20-18HG	SKN-20B	SKN-20BJ	SKJ25-□	SKJ25-□C	SKJL-25	1
9HC25	SK25-□	SKG25-18HGE	SKN-25B	SKN-25BJ	SKJ25-□	SKJ25-□C	SKJL-25	1
9HC25	SK25-□	SKG25-18HGE	SKN-25B	SKN-25BJ	SKJ25-□	SKJ25-□C	SKJL-25	1



Rollenschlüssel	Spannzange	Anschlag-schraube	TiN Spannmutter (Standard)	Jet Typ Spannmutter	Jet Abdeck-kappe	O-Ring Abdeckkappe	Abdeckkappen-schlüssel	Abb.
GH6	SK6-□	-	SKN-6WK(GH)	SKN-6WKJ(GH)	SKJ6-□	SKJ6-□C	SKJL-6	1
GH10	SK10-□	SKG10-10HG	SKN-10K(GH)	SKN-10KJ(GH)	SKJ10-□	SKJ10-□C	SKJL-10	1
GH12	SK13-□	-	SKN-13B(GH)	SKN-13BJ(GH)	SKJ16-□	SKJ16-□C	SKJL-16	1
GH16	SK16-□	-	SKN-16B(GH)	SKN-16BJ(GH)	SKJ16-□	SKJ16-□C	SKJL-16	1
GH6	SK6-□	-	SKN-6WK(GH)	SKN-6WKJ(GH)	SKJ6-□	SKJ6-□C	SKJL-6	1
GH6	SK6-□	SKG6-6HG	SKN-6WK(GH)	SKN-6WKJ(GH)	SKJ6-□	SKJ6-□C	SKJL-6	1
GH10	SK10-□	-	SKN-10K(GH)	SKN-10KJ(GH)	SKJ10-□	SKJ10-□C	SKJL-10	1
GH10	SK10-□	SKG10-10HG	SKN-10K(GH)	SKN-10KJ(GH)	SKJ10-□	SKJ10-□C	SKJL-10	1
GH12	SK13-□	-	SKN-13B(GH)	SKN-13BJ(GH)	SKJ16-□	SKJ16-□C	SKJL-16	1
GH12	SK13-□	-	SKN-13B(GH)	SKN-13BJ(GH)	SKJ16-□	SKJ16-□C	SKJL-16	1
GH12	SK13-□	SKG13-10HG	SKN-13B(GH)	SKN-13BJ(GH)	SKJ16-□	SKJ16-□C	SKJL-16	1
GH16	SK16-□	-	SKN-16B(GH)	SKN-16BJ(GH)	SKJ16-□	SKJ16-□C	SKJL-16	1
GH16	SK16-□	SKG16-10HG	SKN-16B(GH)	SKN-16BJ(GH)	SKJ16-□	SKJ16-□C	SKJL-16	1
GH6	SK6-□	-	SKN-6WK(GH)	SKN-6WKJ(GH)	SKJ6-□	SKJ6-□C	SKJL-6	1
GH6	SK6-□	SKG6-6HG	SKN-6WK(GH)	SKN-6WKJ(GH)	SKJ6-□	SKJ6-□C	SKJL-6	2
GH10	SK10-□	-	SKN-10K(GH)	SKN-10KJ(GH)	SKJ10-□	SKJ10-□C	SKJL-10	1
GH10	SK10-□	SKG10-10HG	SKN-10K(GH)	SKN-10KJ(GH)	SKJ10-□	SKJ10-□C	SKJL-10	1
GH10	SK10-□	SKG10-10HG	SKN-10K(GH)	SKN-10KJ(GH)	SKJ10-□	SKJ10-□C	SKJL-10	1, 2
GH12	SK13-□	-	SKN-13B(GH)	SKN-13BJ(GH)	SKJ16-□	SKJ16-□C	SKJL-16	1
GH12	SK13-□	SKG13-10HG	SKN-13B(GH)	SKN-13BJ(GH)	SKJ16-□	SKJ16-□C	SKJL-16	1
GH12	SK13-□	SKG13-10HG	SKN-13B(GH)	SKN-13BJ(GH)	SKJ16-□	SKJ16-□C	SKJL-16	1
GH16	SK16-□	-	SKN-16B(GH)	SKN-16BJ(GH)	SKJ16-□	SKJ16-□C	SKJL-16	1

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Form A

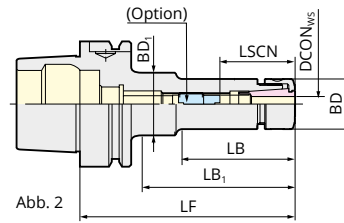
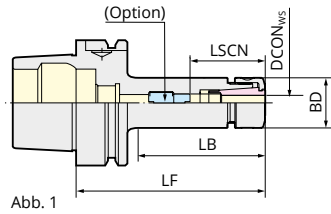
Bezeichnung	LF	DCON _{WS}	LSCN	LSCX	LB	LB ₁	BD	BD ₁	Max. U/min
HSK63A-SK16-105P	105P	2.75-16.0	50-58	65	76	-	40	-	25.000
HSK63A-SK16C-120P	120P	2.75-16.0	45-52	77	91	-	40	-	25.000
HSK63A-SK20-90P	90P	3.5-20.0	59	59	63	-	48.5	-	25.000
HSK63A-SK20-105P	105P	3.5-20.0	50-57	64	78	-	48.5	-	25.000
HSK63A-SK20C-□	120P, 135P	3.5-20.0	50-55	74	93, 108	-	48.5	-	25.000
HSK63A-SK25-90P	90P	7.5-25.4	63	63	61	-	55	-	20.000
HSK63A-SK25C-135P	135P	7.5-25.4	63	91	108	-	60-65	-	20.000
HSK100A-SK6C-105P	105P	0.7-6.0	26-31	46	62	71	19.5	40	20.000
HSK100A-SK10C-□	105P, 120P	1.75-10.0	33-41	58	57, 74	71, 86	27.5	40	20.000
HSK100A-SK10C-150P	150P	1.75-10.0	33-41	58	80	116	27.5	40	20.000
HSK100A-SK13-105P	105P	2.75-13.0	63	63	71	-	33	-	20.000
HSK100A-SK13C-□	120P, 150P	2.75-13.0	39-51	68	86, 116	-	33	33, 45	20.000
HSK100A-SK16-105P	105P	2.75-16.0	45-60	63	71	-	40	-	20.000
HSK100A-SK16C-120P	120P	2.75-16.0	45-52	77	86	-	40	-	20.000
HSK100A-SK16C-150P	150P	2.75-16.0	45-52	84	90	116	40	50	20.000
HSK100A-SK20C-120P	120P	3.5-20.0	50-55	74	86	-	48.5	-	20.000
HSK100A-SK20C-150P	150P	3.5-20.0	47-63	82	116	-	48.5	-	20.000
HSK100A-SK20C-200P	200P	3.5-20.0	47-63	82	166	-	48.5	-	20.000
HSK100A-SK25-120P	120P	7.5-25.4	55-75	76	86	-	55	-	15.000
HSK100A-SK25C-145P	145P	7.5-25.4	60-65	91	111	-	55	-	15.000

SLIM CHUCK HIGH SPEED – HSK FORM E / F

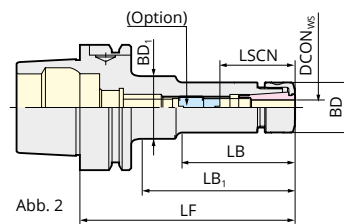
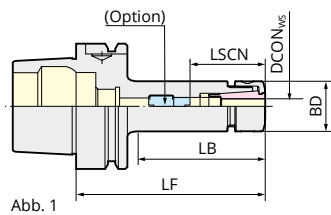


Form E

Bezeichnung	LF	DCON _{WS}	LSCN	LSCX	LB	LB ₁	BD	BD ₁	Max. U/min
HSK25E-SK6-45P	45P	0.7-6.0	30.5	30.5	35	-	19.5	-	50.000
HSK25E-SK10-55P	55P	1.75-10.0	41	41	35	-	27.5	-	40.000
HSK32E-SK6-50P	50P	0.7-6.0	30.5	32	29	-	19.5	-	50.000
HSK32E-SK10-□	60P, 75P	1.75-10.0	44.29-36	44, 43	41, 54	-	27.5	-	40.000
HSK40E-SK6-60P	60P	0.7-6.0	40	40	37	-	19.5	-	40.000
HSK40E-SK6-90P	90P	0.7-6.0	21-35	49	67	-	19.5	-	40.000
HSK40E-SK10-□	60P, 75P	1.75-10.0	29-36	40, 43	39, 54	-	27.5	-	40.000
HSK40E-SK13-75P	75P	2.75-13.0	55	55	54	-	33	-	40.000
HSK40E-SK16-80P	80P	2.75-16.0	60	59	59	-	40	-	30.000
HSK50E-SK6-60P	60P	0.7-6.0	37	40	33	-	19.5	-	30.000
HSK50E-SK6C-80P	80P	0.7-6.0	26-31	46	51	-	19.5	-	30.000
HSK50E-SK10-60P	60P	1.75-10.0	35	35	33	-	27.5	-	30.000



Rollenschlüssel	Spannzange	Anschlag-schraube	TiN Spannmutter (Standard)	Jet Typ Spannmutter	Jet Abdeck-kappe	O-Ring Abdeckkappe	Abdeckkappen-schlüssel	Abb.
GH16	SK16-□	SKG16-10HG	SKN-16B(GH)	SKN-16BJ(GH)	SKJ16-□	SKJ16-□C	SKJL-16	1
GH16	SK16-□	SKG16-10HG	SKN-16B(GH)	SKN-16BJ(GH)	SKJ16-□	SKJ16-□C	SKJL-16	1
GH20	SK20-□	-	SKN-20B(GH)	SKN-20BJ(GH)	SKJ25-□	SKJ25-□C	SKJL-25	1
GH20	SK20-□	SKG20-12MFHG	SKN-20B(GH)	SKN-20BJ(GH)	SKJ25-□	SKJ25-□C	SKJL-25	1
GH20	SK20-□	SKG20-12MFHG	SKN-20B(GH)	SKN-20BJ(GH)	SKJ25-□	SKJ25-□C	SKJL-25	1
GH25	SK25-□	-	SKN-25B(GH)	SKN-25BJ(GH)	SKJ25-□	SKJ25-□C	SKJL-25	1
GH25	SK25-□	SKG25-18HGE	SKN-25B(GH)	SKN-25BJ(GH)	SKJ25-□	SKJ25-□C	SKJL-25	1
GH6	SK6-□	SKG6-6HG	SKN-6WK(GH)	SKN-6WKJ(GH)	SKJ6-□	SKJ6-□C	SKJL-6	2
GH10	SK10-□	SKG10-10HG	SKN-10K(GH)	SKN-10KJ(GH)	SKJ10-□	SKJ10-□C	SKJL-10	2
GH10	SK10-□	SKG10-10HG	SKN-10K(GH)	SKN-10KJ(GH)	SKJ10-□	SKJ10-□C	SKJL-10	2
GH12	SK13-□	-	SKN-13B(GH)	SKN-13BJ(GH)	SKJ16-□	SKJ16-□C	SKJL-16	1
GH12	SK13-□	SKG13-10HG	SKN-13B(GH)	SKN-13BJ(GH)	SKJ16-□	SKJ16-□C	SKJL-16	1, 2
GH16	SK16-□	SKG16-12HG	SKN-16B(GH)	SKN-16BJ(GH)	SKJ16-□	SKJ16-□C	SKJL-16	1
GH16	SK16-□	SKG16-12HG	SKN-16B(GH)	SKN-16BJ(GH)	SKJ16-□	SKJ16-□C	SKJL-16	1
GH16	SK16-□	SKG16-12HG	SKN-16B(GH)	SKN-16BJ(GH)	SKJ16-□	SKJ16-□C	SKJL-16	2
GH20	SK20-□	SKG20-12MFHG	SKN-20B(GH)	SKN-20BJ(GH)	SKJ25-□	SKJ25-□C	SKJL-25	1
GH20	SK20-□	SKG20-12HG	SKN-20B(GH)	SKN-20BJ(GH)	SKJ25-□	SKJ25-□C	SKJL-25	1
GH20	SK20-□	SKG20-18HG	SKN-20B(GH)	SKN-20BJ(GH)	SKJ25-□	SKJ25-□C	SKJL-25	1
GH25	SK25-□	SKG25-18HGE	SKN-25B(GH)	SKN-25BJ(GH)	SKJ25-□	SKJ25-□C	SKJL-25	1
GH25	SK25-□	SKG25-18HGE	SKN-25B(GH)	SKN-25BJ(GH)	SKJ25-□	SKJ25-□C	SKJL-25	1



Rollenschlüssel	Spannzange	Anschlag-schraube	TiN Spannmutter (Standard)	Jet Typ Spannmutter	Jet Abdeck-kappe	O-Ring Abdeckkappe	Abdeckkappen-schlüssel	Abb.
GH6	±	-	SKN-6WK(GH)	SKN-6WKJ(GH)	SKJ6-□	SKJ6-□C	SKJL-6	1
GH10	SK10-□	-	SKN-10K(GH)	SKN-10KJ(GH)	SKJ10-□	SKJ10-□C	SKJL-10	1
GH6	SK6-□	-	SKN-6WK(GH)	SKN-6WKJ(GH)	SKJ6-□	SKJ6-□C	SKJL-6	1
GH10	SK10-□	-	SKN-10K(GH)	SKN-10KJ(GH)	SKJ10-□	SKJ10-□C	SKJL-10	1
GH6	SK6-□	-	SKN-6WK(GH)	SKN-6WKJ(GH)	SKJ6-□	SKJ6-□C	SKJL-6	1
GH6	SK6-□	SKG8-18L	SKN-6WK(GH)	SKN-6WKJ(GH)	SKJ6-□	SKJ6-□C	SKJL-6	1
GH10	SK10-□	SKG10-10HG	SKN-10K(GH)	SKN-10KJ(GH)	SKJ10-□	SKJ10-□C	SKJL-10	1
GH12	SK13-□	-	SKN-13B(GH)	SKN-13BJ(GH)	SKJ16-□	SKJ16-□C	SKJL-16	1
GH16	SK16-□	-	SKN-16B(GH)	SKN-16BJ(GH)	SKJ16-□	SKJ16-□C	SKJL-16	1
GH6	SK6-□	-	SKN-6WK(GH)	SKN-6WKJ(GH)	SKJ6-□	SKJ6-□C	SKJL-6	1
GH6	SK6-□	SKG6-6HG	SKN-6WK(GH)	SKN-6WKJ(GH)	SKJ6-□	SKJ6-□C	SKJL-6	1
GH10	SK10-□	-	SKN-10K(GH)	SKN-10KJ(GH)	SKJ10-□	SKJ10-□C	SKJL-10	1

HSK DIN69893 Form A / E / F



Form E

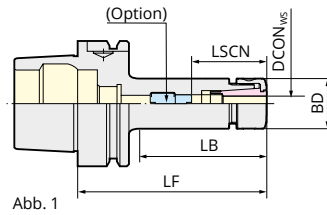


Abb. 1

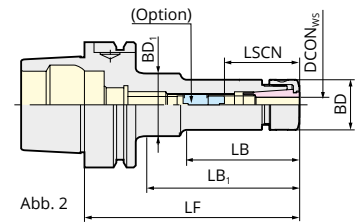


Abb. 2

Bezeichnung	LF	DCON _{ws}	LSCN	LSCX	LB	LB ₁	BD	BD ₁	Max. U/min
HSK50E-SK10-90P	90P	1.75-10.0	35-41	65	63	-	27.5	-	30.000
HSK50E-SK10-105P	105P	1.75-10.0	33-41	58	76	-	27.5	-	30.000
HSK50E-SK13-70P	70P	2.75-13.0	47	47	43	-	33	-	30.000
HSK50E-SK13-90P	90P	2.75-13.0	65	65	61	-	33	-	30.000
HSK50E-SK13-105P	105P	2.75-13.0	31-47	80	76	-	33	-	30.000
HSK50E-SK16-80P	80P	2.75-16.0	52	52	53	-	40	-	25.000
HSK50E-SK16-120P	120P	2.75-16.0	45-52	77	93	-	40	-	25.000
HSK63E-SK6-80P	80P	0.7-6.0	38	58	51	-	19.5	-	30.000
HSK63E-SK6C-□	100P, 120P	0.7-6.0	26-31	46	62	71, 91	19.5	32	30.000
HSK63E-SK10C-90P	90P	1.75-10.0	33-36	53	59	-	27.5	-	30.000
HSK63E-SK10C-□	105P, 120P, 150P	1.75-10.0	33-41	58	60, 75, 73	60, 106, 121	27.5	32, 40, 34.5	30.000
HSK63E-SK13-□	70P, 90P	2.75-13.0	45	45	43, 61	-	33	-	30.000
HSK63E-SK13-105P	105P	2.75-13.0	31-47	65	74	-	33	-	30.000
HSK63E-SK13C-120P	120P	2.75-13.0	39-51	68	89	-	33	-	30.000
HSK63E-SK16C-□	120P, 150P	2.75-16.0	45-52	77	91, 121	-	40	-	25.000
HSK63E-SK20C-□	120P, 135P	3.5-20.0	50-55	74	93, 108	-	48.5	-	25.000
HSK63E-SK25C-135P	135P	7.5-25.4	63	91	108	-	60-65	-	20.000
HSK63F-SK10C-90P	90P	1.75-10.0	33-36	-	59	-	27.5	-	30.000
HSK63F-SK10C-105P	105P	1.75-10.0	33-41	58	74	-	27.5	-	30.000
HSK63F-SK13-70P	70P	2.75-13.0	45	45	43	-	33	-	30.000
HSK63F-SK13-105P	105P	2.75-13.0	31-47	80	74	-	33	-	30.000
HSK63F-SK13C-120P	120P	2.75-13.0	39-51	68	89	-	33	-	30.000
HSK63F-SK16-90P	90P	2.75-16.0	67	67	61	-	40	-	25.000
HSK63F-SK16C-105P	105P	2.75-16.0	50-58	83	76	-	40	-	25.000
HSK63F-SK16C-120P	105P	2.75-16.0	45-52	77	91	-	40	-	25.000
HSK63F-SK20C-120P	120P	3.5-20.0	50-55	74	93	-	48.5	-	25.000
HSK63F-SK25C-90P	90P	7.5-25.4	67	67	61	-	60-65	-	20.000

VC HOLDER – HSK FORM A / E / F



Form A / E / F

Bezeichnung	LF	DCON _{ws}	LSCN	LB	LB ₁	BD	BD ₁	Max. U/min
HSK40A-VC6-□	65, 90	2.0-6.0	35, 45	23	45, 70	28	33.6	40.000
HSK40A-VC13-□	90, 120	3.0-12.0	50, 60	29	70, 100	40	40	40.000
HSK40E-VC6-□	65, 90	2.0-6.0	35, 45	23	45, 70	28	33.6	40.000
HSK40E-VC13-□	90, 120	3.0-12.0	50, 60	29	70, 100	40	40	40.000



Form F

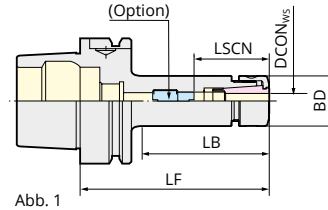
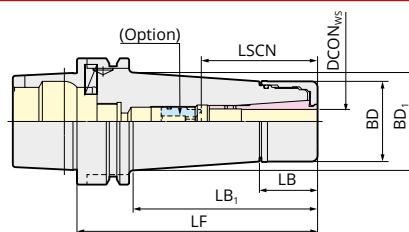


Abb. 1

Rollenschlüssel	Spannzange	Anschlagsschraube	TiN Spannmutter (Standard)	Jet Typ Spannmutter	Jet Abdeckkappe	O-Ring Abdeckkappe	Abdeckkappenschlüssel	Abb.
GH10	SK10-□	SKG10-10HG	SKN-10K(GH)	SKN-10KJ(GH)	SKJ10-□	SKJ10-□C	SKJL-10	1
GH10	SK10-□	SKG10-10HG	SKN-10K(GH)	SKN-10KJ(GH)	SKJ10-□	SKJ10-□C	SKJL-10	1
GH12	SK13-□	-	SKN-13B(GH)	SKN-13BJ(GH)	SKJ16-□	SKJ16-□C	SKJL-16	1
GH12	SK13-□	-	SKN-13B(GH)	SKN-13BJ(GH)	SKJ16-□	SKJ16-□C	SKJL-16	1
GH12	SK13-□	SKG13-10HG	SKN-13B(GH)	SKN-13BJ(GH)	SKJ16-□	SKJ16-□C	SKJL-16	1
GH16	SK16-□	-	SKN-16B(GH)	SKN-16BJ(GH)	SKJ16-□	SKJ16-□C	SKJL-16	1
GH16	SK16-□	SKG16-10HG	SKN-16B(GH)	SKN-16BJ(GH)	SKJ16-□	SKJ16-□C	SKJL-16	1
GH6	SK6-□	-	SKN-6WK(GH)	SKN-6WKJ(GH)	SKJ6-□	SKJ6-□C	SKJL-6	1
GH6	SK6-□	SKG6-6HG	SKN-6WK(GH)	SKN-6WKJ(GH)	SKJ6-□	SKJ6-□C	SKJL-6	2
GH10	SK10-□	SKG10-10HG	SKN-10K(GH)	SKN-10KJ(GH)	SKJ10-□	SKJ10-□C	SKJL-10	1
GH10	SK10-□	SKG10-10HG	SKN-10K(GH)	SKN-10KJ(GH)	SKJ10-□	SKJ10-□C	SKJL-10	2
GH12	SK13-□	-	SKN-13B(GH)	SKN-13BJ(GH)	SKJ16-□	SKJ16-□C	SKJL-16	1
GH12	SK13-□	SKG13-10HG	SKN-13B(GH)	SKN-13BJ(GH)	SKJ16-□	SKJ16-□C	SKJL-16	1
GH12	SK13-□	SKG13-10HG	SKN-13B(GH)	SKN-13BJ(GH)	SKJ16-□	SKJ16-□C	SKJL-16	1
GH12	SK13-□	SKG13-10HG	SKN-13B(GH)	SKN-13BJ(GH)	SKJ16-□	SKJ16-□C	SKJL-16	1
GH16	SK16-□	SKG16-10HG	SKN-16B(GH)	SKN-16BJ(GH)	SKJ16-□	SKJ16-□C	SKJL-16	1
GH20	SK20-□	SKG20-12MFHG	SKN-20B(GH)	SKN-20BJ(GH)	SKJ25-□	SKJ25-□C	SKJL-25	1
GH25	SK25-□	SKG25-18HGE	SKN-25B(GH)	SKN-25BJ(GH)	SKJ25-□	SKJ25-□C	SKJL-25	1
GH10	SK10-□	SKG10-10HG	SKN-10K(GH)	SKN-10KJ(GH)	SKJ10-□	SKJ10-□C	SKJL-10	1
GH10	SK10-□	SKG10-10HG	SKN-10K(GH)	SKN-10KJ(GH)	SKJ10-□	SKJ10-□C	SKJL-10	1
GH12	SK13-□	-	SKN-13B(GH)	SKN-13BJ(GH)	SKJ16-□	SKJ16-□C	SKJL-16	1
GH12	SK13-□	SKG13-10HG	SKN-13B(GH)	SKN-13BJ(GH)	SKJ16-□	SKJ16-□C	SKJL-16	1
GH12	SK13-□	SKG13-10HG	SKN-13B(GH)	SKN-13BJ(GH)	SKJ16-□	SKJ16-□C	SKJL-16	1
GH12	SK13-□	SKG13-10HG	SKN-13B(GH)	SKN-13BJ(GH)	SKJ16-□	SKJ16-□C	SKJL-16	1
GH16	SK16-□	-	SKN-16B(GH)	SKN-16BJ(GH)	SKJ16-□	SKJ16-□C	SKJL-16	1
GH16	SK16-□	SKG16-10HG	SKN-16B(GH)	SKN-16BJ(GH)	SKJ16-□	SKJ16-□C	SKJL-16	1
GH16	SK16-□	SKG16-10HG	SKN-16B(GH)	SKN-16BJ(GH)	SKJ16-□	SKJ16-□C	SKJL-16	1
GH16	SK16-□	SKG16-10HG	SKN-16B(GH)	SKN-16BJ(GH)	SKJ16-□	SKJ16-□C	SKJL-16	1
GH20	SK20-□	SKG20-12MFHG	SKN-20B(GH)	SKN-20BJ(GH)	SKJ25-□	SKJ25-□C	SKJL-25	1
GH25	SK25-□	SKG25-18HGE	SKN-25B(GH)	SKN-25BJ(GH)	SKJ25-□	SKJ25-□C	SKJL-25	1



Rollenschlüssel	Spannzange	Anschlagsschraube	Jet Abdeckkappe	O-Ring Abdeckkappe	Anschlagsschraube	Abdeckkappenschlüssel
GH10	VCK6-□	VCN-6BJ	SKJ10-□	SKJ10-□C	VCG6-8A	SKJL-10
GH16	VCK13-□	VCN-13BJ	SKJ16-□	SKJ16-□C	VCG13-15A	SKJL-16
GH10	VCK6-□	VCN-6BJ	SKJ10-□	SKJ10-□C	VCG6-8A	SKJL-10
GH16	VCK13-□	VCN-13BJ	SKJ16-□	SKJ16-□C	VCG13-15A	SKJL-16

HSK DIN69893 Form A / E / F



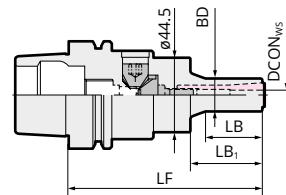
Form A / E / F

Bezeichnung	LF	DCON _{WS}	LSCN	LB	LB ₁	BD	BD ₁	Max. U/min
HSK50A-VC6-□	70, 90, 120	2.0-6.0	35, 45	23	41, 61, 91	28	33.8, 32.8, 37	40.000
HSK50A-VC13-□	90, 120	3.0-12.0	50, 60	29	64, 94	40	40	40.000
HSK50E-VC6-□	70, 90, 120	2.0-6.0	35, 45	23	41, 61, 91	28	33.8, 32.8, 37	40.000
HSK50E-VC13-□	90, 120	3.0-12.0	50, 60	29	64, 94	40	40	40.000
HSK63A-VC6-□	70, 90, 120	2.0-6.0	35, 45	23	41, 61, 91	28	33.8, 32.8, 37	30.000
HSK63A-VC13-□	90, 120	3.0-12.0	50, 60	29	61, 92	40	44.5, 48.8	30.000
HSK63E-VC6-□	70, 90, 120	2.0-6.0	35, 45	23	41, 61, 91	28	33.8, 32.8, 37	30.000
HSK63E-VC13-□	90, 120	3.0-12.0	50, 60	29	61, 92	40	44.5, 48.8	30.000
HSK63F-VC6-□	65, 90, 120	2.0-6.0	35, 45	23	37, 61, 91	28	27.5, 30.6, 34.8	30.000
HSK63F-VC13-□	90, 120	3.0-12.0	50, 60	29	61, 92	40	44.5, 48.8	30.000
HSK100A-VC6-□	105, 135, 165	2.0-6.0	35, 45	23	71, 101, 131	28	34.2, 38.4, 42.6	20.000
HSK100A-VC13-□	105, 135, 166	3.0-12.0	50, 60	29	71, 101, 131	40	45.9, 50.1, 54.3	20.000

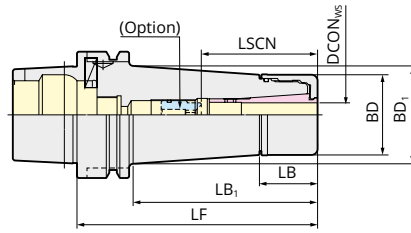
MINI MINI CHUCK – HSK FORM A / E / F



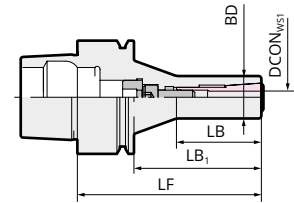
Form A – Model AT



Bezeichnung	LF	DCON _{WS}	LSCN	LB	LB ₁	BD
HSK50A-MMC8C-□-AA	127, 157, 187	2.0-8.0	9.4-15.0	33, 40, 40	-	20
HSK50A-MMC12C-□-AA	129, 159, 189	4.0-12.0	20.0-31.0	35, 60, 70	-	30
HSK50E-MMC8C-127-AA	127	2.0-8.0	9.4-15.0	33	-	20
HSK50E-MMC12C-129-AA	129	4.0-12.0	20.0-31.0	36	-	30
HSK63A-MMC8C-□-AA	115, 145, 175	2.0-8.0	9.4-15.0	33, 40, 40	-	20
HSK63A-MMC8C-□	107-AT, 135-AT	2.0-8.0	9.4-15.0	36, 64	78, 106	20
HSK63A-MMC12C-□-AA	117, 147, 177	4.0-12.0	20.0-31.0	35, 60, 70	-	30
HSK63A-MMC12C-□	110-AT, 135-AT	4.0-12.0	20.0-31.0	43, 68	83, 108	30
HSK63E-MMC8C-115-AA	115	2.0-8.0	9.4-15.0	33	-	20
HSK63E-MMC8C-□	107-AT, 135-AT	2.0-8.0	9.4-15.0	36, 64	78, 106	20
HSK63E-MMC12C-117-AA	117	4.0-12.0	20.0-31.0	36	-	30
HSK63E-MMC12C-□	110-AT, 135-AT	4.0-12.0	20.0-31.0	43, 68	83, 108	30
HSK63F-MMC8C-127-AA	127	2.0-8.0	9.4-15.0	33	-	20
HSK63F-MMC12C-129-AA	129	4.0-12.0	20.0-31.0	36	-	30
HSK100A-MMC8C-□-AA	130, 160, 190	2.0-8.0	9.4-15.0	33, 40, 40	-	20
HSK100A-MMC8C-□	117-AT, 145-AT	2.0-8.0	9.4-15.0	36, 64	85, 113	20
HSK100A-MMC12C-□-AA	130, 160, 190	4.0-12.0	20.0-31.0	35, 60, 70	-	30
HSK100A-MMC12C-□	120-AT, 145-AT	4.0-12.0	20.0-31.0	43, 63	90, 115	30



Rollenschlüssel	Spannzange	Anschlagschraube	Jet Abdeckkappe	O-Ring Abdeckkappe	Anschlagschraube	Abdeckkappenschlüssel
GH10	VCK6-□	VCN-6BJ	SKJ10-□	SKJ10-□C	VCG6-8A	SKJL-10
GH16	VCK13-□	VCN-13BJ	SKJ16-□	SKJ16-□C	VCG13-15A	SKJL-16
GH10	VCK6-□	VCN-6BJ	SKJ10-□	SKJ10-□C	VCG6-8A	SKJL-10
GH16	VCK13-□	VCN-13BJ	SKJ16-□	SKJ16-□C	VCG13-15A	SKJL-16
GH10	VCK6-□	VCN-6BJ	SKJ10-□	SKJ10-□C	VCG6-8A	SKJL-10
GH16	VCK13-□	VCN-13BJ	SKJ16-□	SKJ16-□C	VCG13-15A	SKJL-16
GH10	VCK6-□	VCN-6BJ	SKJ10-□	SKJ10-□C	VCG6-8A	SKJL-10
GH16	VCK13-□	VCN-13BJ	SKJ16-□	SKJ16-□C	VCG13-15A	SKJL-16
GH10	VCK6-□	VCN-6BJ	SKJ10-□	SKJ10-□C	VCG6-8A	SKJL-10
GH16	VCK13-□	VCN-13BJ	SKJ16-□	SKJ16-□C	VCG13-15A	SKJL-16
GH10	VCK6-□	VCN-6BJ	SKJ10-□	SKJ10-□C	VCG6-8A	SKJL-10
GH16	VCK13-□	VCN-13BJ	SKJ16-□	SKJ16-□C	VCG13-15A	SKJL-16



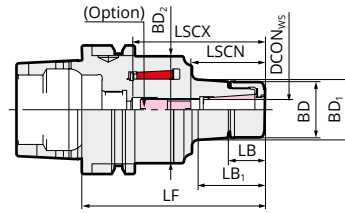
Max. U/min	Spannzange	Spannzange metallisch dichtend	Jet Spannzange
30.000	PMK8-□	VMK8-□	VMK8-□J
30.000	PMK12-□	VMK12-□	VMK12-□J
30.000	PMK8-□	VMK8-□	VMK8-□J
30.000	PMK12-□	VMK12-□	VMK12-□J
30.000	PMK8-□	VMK8-□	VMK8-□J
30.000	PMK8-□	VMK8-□	VMK8-□J
30.000	PMK12-□	VMK12-□	VMK12-□J
30.000	PMK12-□	VMK12-□	VMK12-□J
30.000	PMK8-□	VMK8-□	VMK8-□J
30.000	PMK8-□	VMK8-□	VMK8-□J
30.000	PMK12-□	VMK12-□	VMK12-□J
30.000	PMK12-□	VMK12-□	VMK12-□J
30.000	PMK8-□	VMK8-□	VMK8-□J
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20.000	PMK12-□	VMK12-□	VMK12-□J
20.000	PMK12-□	VMK12-□	VMK12-□J

HSK DIN69893 Form A / E / F

MAJOR DREAM HOLDER - HSK FORM A



Form A



Bezeichnung	LF	DCON _{ws}	LSCN	LSCX	LB	LB ₁	BD	BD ₁	BD ₂
HSK50A-MDSK6-70	70	3.0-6.0	48	48	16.2	18.2	19.5	-	41.6
HSK50A-MDSK6-90	90	3.0-6.0	21-35	68	16.2	38.2	19.5	21.9	41.6
HSK50A-MDSK10-70	70	3.0-10.0	46	46	18.2	19.2	27.5	-	41.6
HSK50A-MDSK10-90	90	3.0-10.0	35-41	66	18.2	38.2	27.5	30.3	41.6
HSK50A-MDSK13-90	90	3.0-13.0	66	66	22	40	33	35.6	41.6
HSK50A-MDSK16-115	115	3.0-16.0	45-70	91	23	24	40	40	54
HSK63A-MDSK6-75	75	3.0-6.0	21-28	50	16.2	18	19.5	-	54.2
HSK63A-MDSK6-□	90, 105, 120	3.0-6.0	21-35	65, 80, 95	16.2	33, 48, 63	19.5	21.9, 24, 26.1	54.2
HSK63A-MDSK10-75	75	3.0-10.0	49	49	18.2	19	27.5	27.5	54.2
HSK63A-MDSK10-90	90	3.0-10.0	31-40	64	18.2	33	27.5	29.6	54.2
HSK63A-MDSK10-105	105	3.0-10.0	31-50	79	18.2	48	27.5	31.7	54.2
HSK63A-MDSK10-□	120, 135	3.0-10.0	30-50	94, 109	18.2	63, 79	27.5	33.8, 36	54.2
HSK63A-MDSK13-80	80	3.0-13.0	54	54	22	24	33	33	54.2
HSK63A-MDSK13-90	90	3.0-13.0	64	64	22	33	33	34.6	54.2
HSK63A-MDSK13-□	105, 120, 135	3.0-13.0	31-54	79, 94, 110	22	48, 63, 78	33	36.7, 38.8, 40.9	54.2
HSK63A-MDSK16-80	80	3.0-16.0	54	54	23	24	40	40	54.2
HSK63A-MDSK16-90	90	3.0-16.0	64	64	23	34.2	40	41.6	54.2
HSK63A-MDSK16-□	105, 120	3.0-16.0	45-60	79	23	49.3, 64.3	40	43.7, 45.8	54.2
HSK63A-MDSK16-135	135	3.0-16.0	45-60	85	23	79	40	47.9	54.2
HSK63A-MDSK20-90	90	4.0-20.0	64	105	25.2	40.9	48	51.2	54.2
HSK63A-MDSK20-105	105	4.0-20.0	79	64	25.2	54.3	48	51.1	54.2
HSK63A-MDSK20-□	120, 135	4.0-20.0	47-70	79	25.2	70, 85.8	48	50.6, 51.2	54.2
HSK100A-MDSK6-□	110, 125, 140, 165	3.0-6.0	21-35	80, 95, 110, 135	16.2	33, 48, 63, 88	19.5	21.9, 24, 26.1, 29.6	54
HSK100A-MDSK10-□	110, 125, 140, 165	3.0-10.0	30-50	80, 95, 110, 135	18.2	33, 48, 63, 89	27.5	29.8, 31.7, 33.8, 37.4	54
HSK100A-MDSK13-110	110	3.0-13.0	31-52	75	22	33	33	34.6	54
HSK100A-MDSK13-□	125, 140, 165	3.0-13.0	31-54	90, 105, 130	22	48, 63, 88	33	36.7, 38.8, 42.3	54
HSK100A-MDSK16-125	125	3.0-16.0	45-65	87	23	51	40	44	54
HSK100A-MDSK16-140	140	3.0-16.0	45-70	104	23	66	40	46.1	54
HSK100A-MDSK16-165	165	3.0-16.0	40-70	129	23	91	40	49.6	54
HSK100A-MDSK20-140	140	4.0-20.0	47-70	104	25.2	42	48	51.4	84
HSK100A-MDSK20-165	165	4.0-20.0	47-80	129	25.2	67	48	54.9	84
HSK100A-MDSK25-140	140	8.0-25.4	55-75	104	27	43	55	57.3	84
HSK100A-MDSK25-165	165	8.0-25.4	55-85	129	27	69	55	60.9	84

Optional können alle Halter in der Version „High Speed“ bestellt werden - Die Bezeichnung „P“ am Ende einfügen

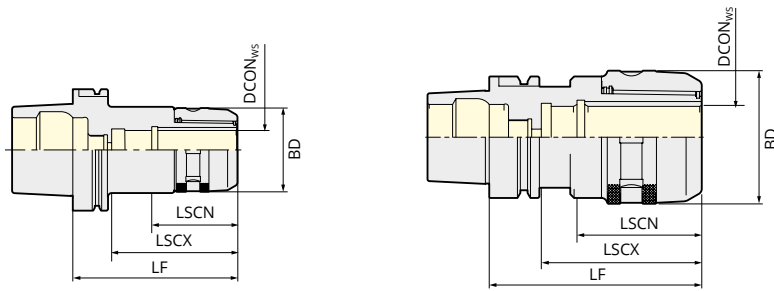
Max. U/min	Rollenschlüssel	Spannzange	Anschlagschraube	Jet Typ Spannmutter	Jet Abdeckkappe	O-Ring Abdeckkappe	Abdeckkappenschlüssel
30.000	GH6	SK6-□A	-	MDSKN-6KJ	SKJ6-□	SKJ6-□C	SKJL-6
30.000	GH6	SK6-□A	SKG-8	MDSKN-6KJ	SKJ6-□	SKJ6-□C	SKJL-6
30.000	GH10	SK10-□A	-	MDSKN-10KJ	SKJ10-□	SKJ10-□C	SKJL-10
30.000	GH10	SK10-□A	SKG-12S	MDSKN-10KJ	SKJ10-□	SKJ10-□C	SKJL-10
30.000	GH12	SK13-□A	-	MDSKN-13BJ	SKJ16-□	SKJ16-□C	SKJL-16
30.000	GH16	SK16-□A	SKG-18S	MDSKN-16BJ	SKJ16-□	SKJ16-□C	SKJL-16
20.000	GH6	SK6-□A	SKG-8	MDSKN-6KJ	SKJ6-□	SKJ6-□C	SKJL-6
20.000	GH6	SK6-□A	SKG-8	MDSKN-6KJ	SKJ6-□	SKJ6-□C	SKJL-6
20.000	GH10	SK10-□A	-	MDSKN-10KJ	SKJ10-□	SKJ10-□C	SKJL-10
20.000	GH10	SK10-□A	SKG-12S	MDSKN-10KJ	SKJ10-□	SKJ10-□C	SKJL-10
20.000	GH10	SK10-□A	SKG-12S	MDSKN-10KJ	SKJ10-□	SKJ10-□C	SKJL-10
20.000	GH10	SK10-□A	SKG-12L	MDSKN-10KJ	SKJ10-□	SKJ10-□C	SKJL-10
20.000	GH12	SK13-□A	-	MDSKN-13BJ	SKJ16-□	SKJ16-□C	SKJL-16
20.000	GH12	SK13-□A	-	MDSKN-13BJ	SKJ16-□	SKJ16-□C	SKJL-16
20.000	GH12	SK13-□A	SKG15	MDSKN-13BJ	SKJ16-□	SKJ16-□C	SKJL-16
20.000	GH16	SK16-□A	-	MDSKN-16BJ	SKJ16-□	SKJ16-□C	SKJL-16
20.000	GH16	SK16-□A	-	MDSKN-16BJ	SKJ16-□	SKJ16-□C	SKJL-16
20.000	GH16	SK16-□A	SKG-18S	MDSKN-16BJ	SKJ16-□	SKJ16-□C	SKJL-16
20.000	GH16	SK16-□A	SKG-18L	MDSKN-16BJ	SKJ16-□	SKJ16-□C	SKJL-16
20.000	GH20	SK20-□A	-	MDSKN-20BJ	SKJ25-□	SKJ25-□C	SKJL-25
20.000	GH20	SK20-□A	-	MDSKN-20BJ	SKJ25-□	SKJ25-□C	SKJL-25
20.000	GH20	SK20-□A	SKG20-22	MDSKN-20BJ	SKJ25-□	SKJ25-□C	SKJL-25
20.000	GH6	SK6-□A	SKG-8	MDSKN-6KJ	SKJ6-□	SKJ6-□C	SKJL-6
20.000	GH10	SK10-□A	SKG-12L	MDSKN-10KJ	SKJ10-□	SKJ10-□C	SKJL-10
20.000	GH12	SK13-□A	SKG-15	MDSKN-13BJ	SKJ16-□	SKJ16-□C	SKJL-16
20.000	GH12	SK13-□A	SKG-15	MDSKN-13BJ	SKJ16-□	SKJ16-□C	SKJL-16
20.000	GH16	SK16-□A	SKG-18S	MDSKN-16BJ	SKJ16-□	SKJ16-□C	SKJL-16
20.000	GH16	SK16-□A	SKG-18S	MDSKN-16BJ	SKJ16-□	SKJ16-□C	SKJL-16
20.000	GH16	SK16-□A	SKG-18L	MDSKN-16BJ	SKJ16-□	SKJ16-□C	SKJL-16
20.000	GH20	SK20-□A	SKG-22	MDSKN-20BJ	SKJ25-□	SKJ25-□C	SKJL-25
20.000	GH20	SK20-□A	SKG-22	MDSKN-20BJ	SKJ25-□	SKJ25-□C	SKJL-25
20.000	GH25	SK25-□A	SKG-28	MDSKN-25BJ	SKJ25-□	SKJ25-□C	SKJL-25
20.000	GH25	SK25-□A	SKG-28	MDSKN-25BJ	SKJ25-□	SKJ25-□C	SKJL-25

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MULTI LOCK STANDARD – HSK FORM A



Bezeichnung	LF	DCON _{WS}	LSCN	LSCX	BD	Max. U/min	Spannschlüssel
HSK40A-C12-80	80	2.0-12.0	49	58	33	15.000	9HC12A
HSK40A-C16-80	80	2.0-16.0	51	60	44	10.000	9HC16
HSK40A-C20-100	100	2.0-20.0	-	57	52	6.000	9HC22
HSK50A-C12-80	80	2.0-12.0	49	56	33	15.000	9HC12A
HSK50A-C16-90	90	2.0-16.0	51	60	44	10.000	9HC16
HSK50A-C20-95	95	2.0-20.0	58	68	52	7.000	9HC22
HSK50A-C25-100	100	3.0-25.0	56	75	55	6.000	9HC22
HSK50A-C32-115	115	3.0-32.0	-	66	64	6.000	9HC25
HSK63A-C12-90	90	2.0-12.0	49	58	33	15.000	9HC12A
HSK63A-C16-75	75	2.0-16.0	-	50	44	10.000	9HC16
HSK63A-C16-□	90, 120	2.0-16.0	51	60, 65	44	10.000	9HC16
HSK63A-C20-85	85	2.0-20.0	-	60	52	8.000	9HC22
HSK63A-C20-□	95, 110, 120, 135	2.0-20.0	58	68, 80, 80, 80	52	8.000	9HC22
HSK63A-C25-90	90	3.0-25.0	59	65	60	8.000	9HC25
HSK63A-C25-□	100, 130, 150	3.0-25.0	61	75, 80, 80	60	8.000	9HC25
HSK63A-C32-110	110	3.0-32.0	66	83	69	6.000	9HC32
HSK63A-C32-130	130, 150	3.0-32.0	70	107	69	6.000	9HC32
HSK100A-C16-□	90, 135, 165	2.0-16.0	52	60, 65, 65	44	10.000	9HC16
HSK100A-C20-□	115, 135, 165	2.0-20.0	58	80	52	8.000	9HC22
HSK100A-C25-□	115, 135, 165	3.0-25.0	61	80	60	8.000	9HC25
HSK100A-C32-115	115	3.0-32.0	66	83	69	6.000	9HC32
HSK100A-C32-□	135, 165, 200, 250, 300	3.0-32.0	70	107	69	6.000	9HC32
HSK100A-C42-□	115, 135, 165, 200, 250, 300	3.0-42.0	73	83, 103, 125, 125, 125, 125	86	5.000	9HC42

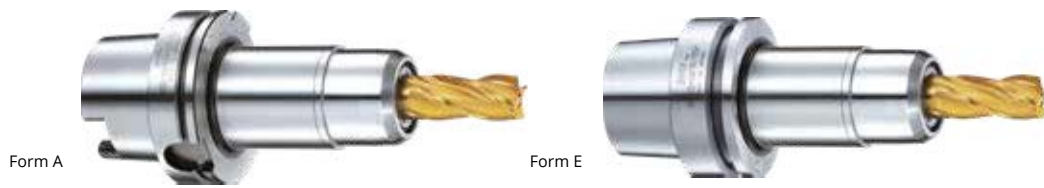


Bei den Modelle: HSK40A-C20-100, HSK50A-C20-95, HSK63A-C16-75, HSK63A-C20-85, HSK63A-C25-90 und HSK63A-C32-110 können NK und CCNK Spannhülsen nicht verwendet werden.

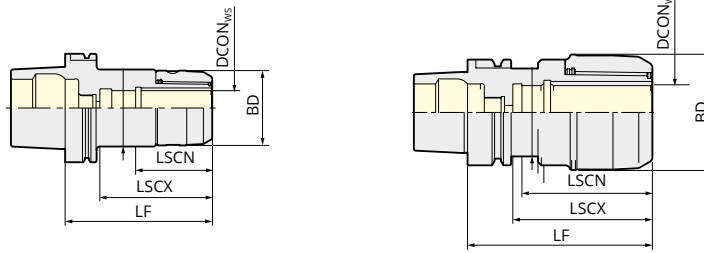
Spannzange	Jet Abdeckkappe	O-Ring Abdeckkappe	Abdeckkappenschlüssel
CCK12-□, KM12-□	CKFN12-□	CKFN12-□C	CCKLN12
CCK16-□, KM16-□	CKFN16-□	CKFN16-□C	CCKLN16
CCK20-□, KM20-□	CKFN20-□	CKFN20-□C	CCKLN20
CCK12-□, KM12-□	CKFN12-□	CKFN12-□C	CCKLN12
CCK16-□, KM16-□	CKFN16-□	CKFN16-□C	CCKLN16
CCK20-□, KM20-□	CKFN20-□	CKFN20-□C	CCKLN20
CCK25-□, CCNK25-□, KM25-□, NK25-□	CKFN25-□	CKFN25-□C	CCKLN25
CCK32-□, CCNK32-□, KM32-□, NK32-□	CKFN32T-□	CKFN32-□C	CCKLN32
CCK12-□, KM12-□	CKFN12-□	CKFN12-□C	CCKLN12
CCK16-□, KM16-□	CKFN16-□	CKFN16-□C	CCKLN16
CCK16-□, KM16-□	CKFN16-□	CKFN16-□C	CCKLN16
CCK20-□, KM20-□	CKFN20-□	CKFN20-□C	CCKLN20
CCK20-□, CCNK20-□, KM20-□, NK20-□	CKFN20-□	CKFN20-□C	CCKLN20
CCK25-□, KM25-□	CKFN25-□	CKFN25-□C	CCKLN25
CCK25-□, CCNK25-□, KM25-□, NK25-□	CKFN25-□	CKFN25-□C	CCKLN25
CCK32-□, KM32-□	CKFN32-□	CKFN32-□C	CCKLN32
CCK32-□, CCNK32-□, KM32-□, NK32-□	CKFN32-□	CKFN32-□C	CCKLN32
CCK16-□, KM16-□	CKFN16-□	CKFN16-□C	CCKLN16
CCK20-□, CCNK20-□, KM20-□, NK20-□	CKFN20-□	CKFN20-□C	CCKLN20
CCK25-□, CCNK25-□, KM25-□, NK25-□	CKFN25-□	CKFN25-□C	CCKLN25
CCK32-□, CCNK32-□, KM32-□, NK32-□	CKFN32-□	CKFN32-□C	CCKLN32
CCK32-□, CCNK32-□, KM32-□, NK32-□	CKFN32-□	CKFN32-□C	CCKLN32
CCK42-□, CCNK42-□, KM42-□, NK42-□	CKFN42-□	CKFN42-□C	CCKLN42

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MULTI LOCK HIGH SPEED – HSK FORM A / E / F



Bezeichnung	LF	DCON _{WS}	LSCN	LSCX	BD	Max. U/min	Rollenschlüssel
HSK40A-C12-80G	80G	2.0-12.0	49	58	33	30.000	GH12
HSK40A-C16-80G	80G	2.0-16.0	51	60	40	30.000	GH16
HSK40A-C20-100G	100G	2.0-20.0	-	57	48	30.000	GH20
HSK40E-C12-80G	80G	2.0-12.0	49	58	33	30.000	GH12
HSK40E-C16-80G	80G	2.0-16.0	51	60	40	30.000	GH16
HSK40E-C20-100G	100G	2.0-20.0	-	57	48	30.000	GH20
HSK50A-C12-80G	80G	2.0-12.0	49	56	33	30.000	GH12
HSK50A-C16-90G	90G	2.0-16.0	51	60	40	30.000	GH16
HSK50A-C20-95G	95G	2.0-20.0	58	68	48	30.000	GH20
HSK50E-C12-80G	80G	2.0-12.0	49	56	33	30.000	GH12
HSK50E-C16-90G	90G	2.0-16.0	51	60	40	30.000	GH16
HSK50E-C20-95G	95G	2.0-20.0	58	68	48	30.000	GH20
HSK63A-C12-90G	90G	2.0-12.0	49	58	33	30.000	GH12
HSK63A-C16-75G	75G	2.0-16.0	-	50	40	25.000	GH16
HSK63A-C16-□	90G, 120G	2.0-16.0	51	60, 65	40	25.000	GH16
HSK63A-C20-85G	85G	2.0-20.0	-	60	48	25.000	GH20
HSK63A-C20-□	95G, 110G, 120G, 135G	2.0-20.0	58	68, 80, 80, 80	48	25.000	GH20
HSK63A-C25-90G	90G	3.0-25.0	59	65	55	20.000	GH25
HSK63A-C25-□	100G, 130G	3.0-25.0	61	75, 80	55	20.000	GH25
HSK63A-C32-□	110G, 130G, 150G	3.0-32.0	66	83, 103, 107	68	20.000	GH32
HSK63E-C12-90G	90G	2.0-12.0	49	58	33	30.000	GH12
HSK63E-C16-90G	90G	2.0-16.0	51	60	40	25.000	GH16
HSK63E-C20-□	95G, 110G	2.0-20.0	58	68, 80	48	25.000	GH20
HSK63E-C25-100G	100G	3.0-25.0	61	75	55	20.000	GH25
HSK63E-C32-110G	110G	3.0-32.0	66	83	68	20.000	GH32
HSK63F-C12-90G	90G	2.0-12.0	49	58	33	30.000	GH12
HSK63F-C16-90G	90G	2.0-16.0	51	65	40	25.000	GH16
HSK63F-C20-□	95G, 110G	2.0-20.0	58	68, 80	48	25.000	GH20
HSK63F-C25-100G	100G	3.0-25.0	61	75	55	20.000	GH25
HSK63F-C32-110G	110G	3.0-32.0	66	83	68	20.000	GH32
HSK100A-C16-□	90G, 135G, 165G	2.0-16.0	52	60, 65, 65	40	20.000	GH16
HSK100A-C20-□	115G, 135G, 165G	2.0-20.0	58	80	48	20.000	GH20
HSK100A-C25-□	115G, 135G, 165G	3.0-25.0	61	80	55	15.000	GH25
HSK100A-C32-115G	115G	3.0-32.0	66	83	68	12.000	GH32
HSK100A-C32-□	135G, 165G	3.0-32.0	70	103, 107	68	12.000	GH32
HSK100A-C42-□	115P, 135P, 165P	3.0-42.0	73	83, 103, 125	86	12.000	GH42

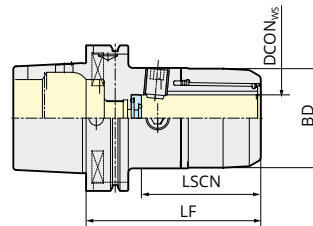


Bei den Modelle: HSK40A-C20-100G, HSK40E-C20-100G, HSK50A-C20-95G, HSK63A-C16-75G, HSK63A-C20-85G und HSK63A-C20-110G können NK und CCNK Spannhülsen nicht verwendet werden.

Spannzange	Jet Abdeckkappe	O-Ring Abdeckkappe	Abdeckkappenschlüssel
CCK12-□, KM12-□	CKFN12-□	CKFN12-□C	CCKLN12
CCK16-□, KM16-□	CKFN16-□	CKFN16-□C	CCKLN16
CCK20-□, KM20-□	CKFN20-□	CKFN20-□C	CCKLN20
CCK12-□, KM12-□	CKFN12-□	CKFN12-□C	CCKLN12
CCK16-□, KM16-□	CKFN16-□	CKFN16-□C	CCKLN16
CCK20-□, KM20-□	CKFN20-□	CKFN20-□C	CCKLN20
CCK12-□, KM12-□	CKFN12-□	CKFN12-□C	CCKLN12
CCK16-□, KM16-□	CKFN16-□	CKFN16-□C	CCKLN16
CCK20-□, KM20-□	CKFN20-□	CKFN20-□C	CCKLN20
CCK12-□, KM12-□	CKFN12-□	CKFN12-□C	CCKLN12
CCK16-□, KM16-□	CKFN16-□	CKFN16-□C	CCKLN16
CCK20-□, KM20-□	CKFN20-□	CKFN20-□C	CCKLN20
CCK12-□, KM12-□	CKFN12-□	CKFN12-□C	CCKLN12
CCK16-□, KM16-□	CKFN16-□	CKFN16-□C	CCKLN16
CCK16-□, KM16-□	CKFN16-□	CKFN16-□C	CCKLN16
CCK20-□, KM20-□	CKFN20-□	CKFN20-□C	CCKLN20
CCK20-□, CCNK20-□, KM20-□, NK20-□	CKFN20-□	CKFN20-□C	CCKLN20
CCK25-□, KM25-□	CKFN25-□	CKFN25-□C	CCKLN25
CCK25-□, CCNK25-□, KM25-□, NK25-□	CKFN25-□	CKFN25-□C	CCKLN25
CCK32-□, KM32-□	CKFN32-□	CKFN32-□C	CCKLN32
CCK12-□, KM12-□	CKFN12-□	CKFN12-□C	CCKLN12
CCK16-□, KM16-□	CKFN16-□	CKFN16-□C	CCKLN16
CCK20-□, CCNK20-□, KM20-□, NK20-□	CKFN20-□	CKFN20-□C	CCKLN20
CCK25-□, CCNK25-□, KM25-□, NK25-□	CKFN25-□	CKFN25-□C	CCKLN25
CCK32-□, KM32-□	CKFN32-□	CKFN32-□C	CCKLN32
CCK12-□, KM12-□	CKFN12-□	CKFN12-□C	CCKLN12
CCK16-□, KM16-□	CKFN16-□	CKFN16-□C	CCKLN16
CCK20-□, CCNK20-□, KM20-□, NK20-□	CKFN20-□	CKFN20-□C	CCKLN20
CCK25-□, CCNK25-□, KM25-□, NK25-□	CKFN25-□	CKFN25-□C	CCKLN25
CCK32-□, KM32-□	CKFN32-□	CKFN32-□C	CCKLN32
CCK16-□, KM16-□	CKFN16-□	CKFN16-□C	CCKLN16
CCK20-□, CCNK20-□, KM20-□, NK20-□	CKFN20-□	CKFN20-□C	CCKLN20
CCK25-□, CCNK25-□, KM25-□, NK25-□	CKFN25-□	CKFN25-□C	CCKLN25
CCK32-□, CCNK32-□, KM32-□, NK32-□	CKFN32-□	CKFN32-□C	CCKLN32
CCK32-□, CCNK32-□, KM32-□, NK32-□	CKFN32-□	CKFN32-□C	CCKLN32
CCK42-□, CCNK42-□, KM42-□, NK42-□	CKFN42-□	CKFN42-□C	CCKLN42

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X-TREME – HSK FORM A



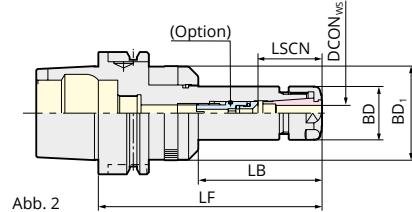
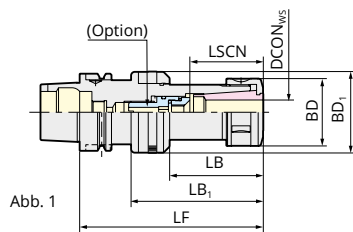
Bezeichnung	LF	DCON _{WS}	LSCN	BD	Max. U/min	Rollen-schlüssel	Anschlagscheibe mit O-Ring
HSK63A-C12EX-96	96	12	58	40	15.000	GH16	9MC12HEX-6L
HSK63A-C16EX-101	101	16	68	48	10.000	GH20	9MC16HEX-6.5L
HSK63A-C20EX-106	106	20	71	55	7.000	GH25	9MC20HEX-7L
HSK100A-C12EX-96	96	12	58	40	15.000	GH16	9MC12HEX-6L
HSK100A-C16EX-106	106	16	68	48	10.000	GH20	9MC16HEX-6.5L
HSK100A-C20EX-116	116	20	71	55	8.000	GH25	9MC20HEX-12L
HSK100A-C25EX-116	116	25	76,3	55	8.000	GH25	9MC25HEX-6.2L
HSK100A-C32EX-121	121	32	83,3	68	6.000	GH32	9MC32HEX-7L
HSK100A-C42EX-136	136	42	86	86	7.000	9HC42	9MC42HEX-9L
HSK125A-C20EX-121S	121S	20	71	55	8.000	GH25	9MC20HEX-12L
HSK125A-C25EX-121S	121S	25	77,3	55	8.000	GH25	9MC25HEX-6.2L
HSK125A-C32EX-136S	136S	32	83,3	68	6.000	GH32	9MC32HEX-7L
HSK125A-C42EX-136S	136S	42	86	86	7.000	9HC42	9MC42HEX-9L

ZERO FIT SLIM CHUCK – HSK FORM A



Bezeichnung	LF	DCON _{WS}	LSCN	LB	LB ₁	BD	BD ₁	Max. U/min
HSK40A-SZF6C-105	105	0.7-6.0	26-31	32	70	19.5	40.5	15.000
HSK40A-SZF10C-105	105	1.75-10.0	35-41	32	70	27.5	48.5	15.000
HSK40A-SZF16C-120	120	2.75-16.0	45-57	48	85	40	59.5	12.000
HSK50A-SZF6C-120	120	0.7-6.0	26-31	68	-	19.5	40.5	15.000
HSK50A-SZF10C-120	120	1.75-10.0	35-41	46	78	27.5	48.5	15.000
HSK50A-SZF16C-135	135	2.75-16.0	45-57	57	93	40	59.5	12.000
HSK50A-SZF25C-135	135	7.5-25.4	60-65	57	93	55	66.5	10.000
HSK63A-SZF6C-120	120	0.7-6.0	26-31	68	-	19.5	40.5	15.000
HSK63A-SZF10C-□	105, 150	1.75-10.0	35-41	53, 98	-	27.5	48.35	15.000
HSK63A-SZF16C-150	150	2.75-16.0	45-57	76	93	40	59.5	12.000
HSK63A-SZF25C-135	135	7.5-25.4	60-65	57	-	55	66.5	10.000
HSK100A-SZF6C-120	120	0.7-6.0	26-31	54	-	19.5	40.5	15.000
HSK100A-SZF10C-150	150	1.75-10.0	35-41	85	-	27.5	48.5	15.000
HSK100A-SZF16C-150	150	2.75-16.0	45-57	85	-	40	59.5	12.000
HSK100A-SZF25C-150	150	7.5-25.4	60-65	95	-	55	66.5	10.000

Frontscheibe	Anschlagscheibe mit Jet	Frontscheibe mit Jet
9C12SL-FS-EX-A1	9MC12HEX-6L-J	9C12SL-FS-EX-A-J1
9C16SL-FS-EX-A1	9MC16HEX-6.5L-J	9C16SL-FS-EX-A-J1
9C20-FS-EX-A1	9MC20HEX-7L-J	9C20-FS-EX-A-J1
9C12SL-FS-EX-A1	9MC12HEX-6L-J	9C12SL-FS-EX-A-J1
9C16SL-FS-EX-A1	9MC16HEX-6.5L-J	9C16SL-FS-EX-A-J1
9C20-FS-EX-A1	9MC20HEX-12L-J	9C20-FS-EX-A-J1
9C25SL-FS-EX-A1	9MC25HEX-6.2L-J	9C25SL-FS-EX-A-J1
9C32SL-FS-EX-A1	9MC32HEX-7L-J	9C32SL-FS-EX-A-J1
9C42SL-FS-EX-A1	9MC42HEX-9L-J	9C42SL-FS-EX-A-J1
9C20-FS-EX-A1	9MC20HEX-12L-J	9C20-FS-EX-A-J1
9C25SL-FS-EX-A1	9MC25HEX-6.2L-J	9C25SL-FS-EX-A-J1
9C32SL-FS-EX-A1	9MC32HEX-7L-J	9C32SL-FS-EX-A-J1
9C42SL-FS-EX-A1	9MC42HEX-9L-J	9C42SL-FS-EX-A-J1



Spannschlüssel	Spannzange	Anschlag-schraube	TiN Spannmutter (Standard)	Jet Typ Spannmutter	Jet Abdeck-kappe	O-Ring Abdeckkappe	Abdeckkappen-schlüssel	Abb.
SKL-6W	SK6-□	SKG6-6HG	SKN-6WK	SKN-6WKJ	SKJ6-□	SKJ6-□C	SKJL-6	1
SKL-10	SK10-□	SKG10-10HG	SKN-10K	SKN-10KJ	SKJ10-□	SKJ10-□C	SKJL-10	1
9HC16	SK16-□	SKG16-10HG	SKN-16B	SKN-16BJ	SKJ16-□	SKJ16-□C	SKJL-16	1
SKL-6W	SK6-□	SKG6-6HG	SKN-6WK	SKN-6WKJ	SKJ6-□	SKJ6-□C	SKJL-6	2
SKL-10	SK10-□	SKG10-10HG	SKN-10K	SKN-10KJ	SKJ10-□	SKJ10-□C	SKJL-10	1
9HC16	SK16-□	SKG16-10HG	SKN-16B	SKN-16BJ	SKJ16-□	SKJ16-□C	SKJL-16	1
9HC25	SK25-□	SKG25-18HGE	SKN-25B	SKN-25BJ	SKJ25-□	SKJ25-□C	SKJL-25	1
SKL-6W	SK6-□	SKG6-6HG	SKN-6WK	SKN-6WKJ	SKJ6-□	SKJ6-□C	SKJL-6	2
SKL-10	SK10-□	SKG10-10HG	SKN-10K	SKN-10KJ	SKJ10-□	SKJ10-□C	SKJL-10	2
9HC16	SK16-□	SKG16-10HG	SKN-16B	SKN-16BJ	SKJ16-□	SKJ16-□C	SKJL-16	2
9HC25	SK25-□	SKG25-18HGE	SKN-25B	SKN-25BJ	SKJ25-□	SKJ25-□C	SKJL-25	1
SKL-6W	SK6-□	SKG6-6HG	SKN-6WK	SKN-6WKJ	SKJ6-□	SKJ6-□C	SKJL-6	2
SKL-10	SK10-□	SKG10-10HG	SKN-10K	SKN-10KJ	SKJ10-□	SKJ10-□C	SKJL-10	2
9HC16	SK16-□	SKG16-12HG	SKN-16B	SKN-16BJ	SKJ16-□	SKJ16-□C	SKJL-16	2
9HC25	SK25-□	SKG25-18HGE	SKN-25B	SKN-25BJ	SKJ25-□	SKJ25-□C	SKJL-25	2

HSK DIN69893 Form A / E / F

ZERO FIT MULTI LOCK – HSK FORM A



Form A

Bezeichnung	LF	DCON _{WS}	LSCN	LSCX	LB	LB ₁	BD	BD ₁	Max. U/min
HSK50A-CZF20-115	115	2.0-20.0	58	80	35	73	51.5	66.5	7.000
HSK63A-CZF20-110	110	2.0-20.0	58	80	35	68	51.5	66.5	8.000
HSK63A-CZF25-110	110	3.0-25.0	59	80	35	68	59.5	74.5	8.000
HSK63A-CZF32-130	130	3.0-32.0	66	105	42	88	69	80.5	6.000
HSK100A-CZF20-115	115	2.0-20.0	58	80	35	-	51.5	66.5	8.000
HSK100A-CZF25-115	115	3.0-25.0	61	80	35	-	59.5	74.5	8.000
HSK100A-CZF32-115	115	3.0-32.0	66	83	42	-	69	80.5	6.000

MODULARE GRUNDHALTER – HSK FORM A



Modularer Grundhalter Form A

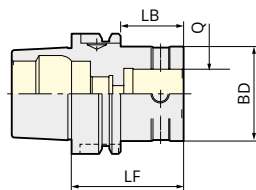


Abb. 1

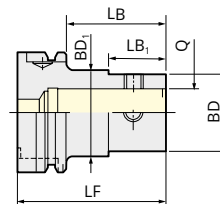


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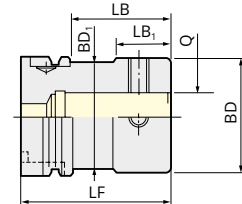


Abb. 3



Modulare Grundhalter – Major Dream

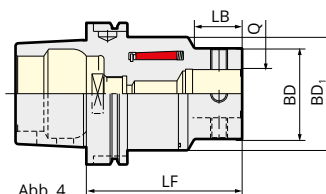
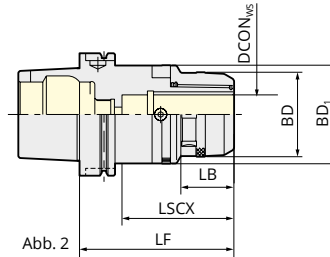
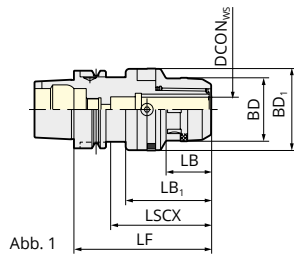
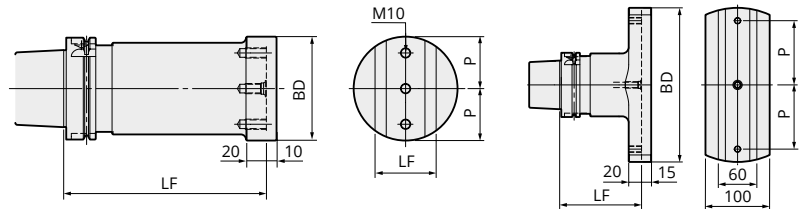


Abb. 4

Bezeichnung	LF	LB	LB ₁	Q	BD	BD ₁	LU	Gewicht (kg)	Abb.
HSK40A-Q26-75	75	55	40	26	50	33.6	-	0.8	3
HSK50A-Q26-75	75	48	33	26	50	41.6	-	1.1	3
HSK63A-Q9-80	80	49	5	9	19	30	45	0.7	2
HSK63A-Q9-95N	95	64	27	9	19	30	67	0.7	2
HSK63A-Q12-80	80	49	12	12	24	35	52	0.8	2
HSK63A-Q12-110	110	79	50	12	24	35	90	0.8	2
HSK63A-Q16-95	95	64	22	16	31	42	77	1	2
HSK63A-Q16-125	125	94	55	16	31	42	105	1.1	2
HSK63A-Q20-80	80	53	27	20	40	50	97	1.4	2
HSK63A-Q20-110	110	83	60	20	40	50	130	1.3	2
HSK63A-Q26-60	60	33	-	26	50	-	103	1	1
HSK63A-Q26-95	95	68	-	26	50	-	138	1.5	1



Spannschlüssel	Spannzange	Jet Abdeckkappe	O-Ring Abdeckkappe	Abdeckkappenschlüssel	Abb.
9HC22	CCK20-□, KM20-□	CKFN20-□	CKFN20-□C	CCKLN20	1
9HC22	CCK20-□, KM20-□	CKFN20-□	CKFN20-□C	CCKLN20	1
9HC25	CCK25-□, KM25-□	CKFN25-□	CKFN25-□C	CCKLN25	1
9HC32	CCK32-□, KM32-□	CKFN32-□	CKFN32-□C	CCKLN32	1
9HC22	CCK20-□, CCNK20-□, KM20-□, NK20-□	CKFN20-□	CKFN20-□C	CCKLN20	2
9HC25	CCK25-□, CCNK25-□, KM25-□, NK25-□	CKFN25-□	CKFN25-□C	CCKLN25	2
9HC32	CCK32-□, CCNK32-□, KM32-□, NK32-□	CKFN32-□	CKFN32-□C	CCKLN32	2



Modulare Grundhalter – RAK

Abb. 5

Bezeichnung	LF	LB	LB ₁	Q	BD	BD ₁	LU	Gewicht (kg)	Abb.
HSK63A-Q26-140	140	113	-	26	50	-	183	2.3	1
HSK63A-Q34-95	95	68	53	34	64	52.4	123	2	3
HSK63A-Q34-110	110	83	68	34	64	52.4	138	2.4	3
HSK63A-Q42-95	95	68	35	42	83	52.4	-	2.5	3
HSK63A-RAK-130A	205	-	-	-	61	-	-	6.9-7.5	-
HSK100A-Q9-110	110	76	5	9	19	40	45	2.3	2
HSK100A-Q9-125N	125	91	27	9	19	40	67	2.3	2
HSK100A-Q12-95	95	61	12	12	24	44	52	2.3	2
HSK100A-Q12-125	125	91	50	12	24	44	90	2.3	2
HSK100A-Q16-125N	125	91	22	16	31	50	77	2.8	2
HSK100A-Q16-155	155	121	55	16	31	50	127	2.9	2
HSK100A-Q20-110	110	76	27	20	40	60	97	2.9	2

HSK DIN69893 Form A / E / F



Modularer Grundhalter Form A

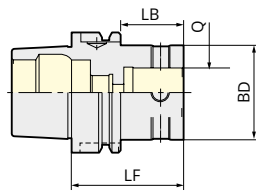


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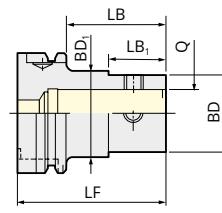


Abb. 2

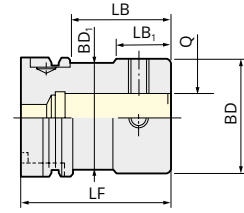


Abb. 3



Modulare Grundhalter – Major Dream

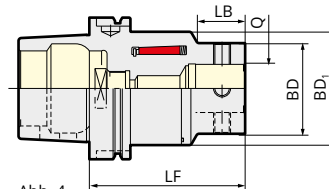
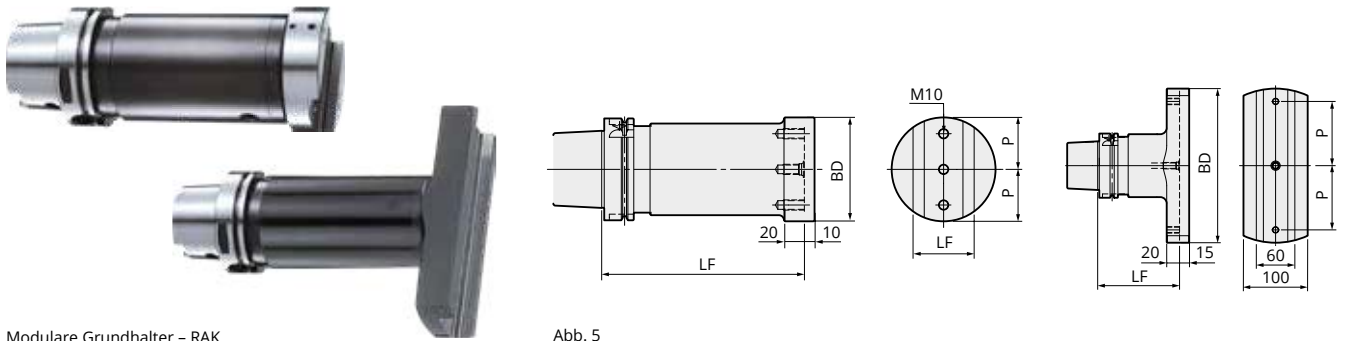


Abb. 4

Bezeichnung	LF	LB	LB ₁	Q	BD	BD ₁	LU	Gewicht (kg)	Abb.
HSK100A-Q20-125	125	91	60	20	40	60	130	3	2
HSK100A-Q26-65	65	33	-	26	50	-	103	2.4	1
HSK100A-Q26-140	140	106	45	26	50	65	145	4.5	2
HSK100A-Q26-170N	170	136	110	26	50	65	180	4.6	2
HSK100A-Q34-140	140	106	-	34	64	-	176	4.4	1
HSK100A-Q34-170	170	138	117	34	64	80	187	5.3	2
HSK100A-Q34-200	200	168	147	34	64	80	217	5.9	2
HSK100A-Q42-125	125	95	-	42	83	-	195	5.3	1
HSK100A-Q42-190	190	160	-	42	83	-	260	7.9	1
HSK100A-Q42-225A	225	-	-	42	83	-	-	11.7	1
HSK100A-Q42-275A	275	-	-	42	83	-	-	14.4	1
HSK100A-Q42-325A	325	-	-	42	83	-	-	17.1	1
HSK100A-Q42-375A	375	-	-	42	83	-	-	19.8	1
HSK100A-RAK-110A	185	-	-	-	90	-	-	-	5
HSK100A-RAK-160A	235	-	-	-	90	-	-	-	5
HSK100A-RAK-210A	285	-	-	-	90	-	-	-	5
HSK100A-RAK-260A	335	-	-	-	90	-	-	-	5
HSK100A-RAK-310A	385	-	-	-	90	-	-	-	5
HSK100A-RAK-360A	435	-	-	-	90	-	-	-	5
HSK100A-RAK-410A	485	-	-	-	90	-	-	-	5
HSK100A-RAK330-125	210	-	-	-	240	-	-	-	5
HSK50A-MDQ26-95	95	30	-	26	50	50	97	.	4
HSK63A-MDQ26-100	100	30	-	26	50	52.4	100	1.5	4
HSK100A-MDQ26-135	135	18	-	26	50	80	88	5.2	4
HSK100A-MDQ34-140	140	27.5	-	34	64	80	97,5	5.3	4
HSK100A-MDQ42-150	150	121	-	42	83	80	-	6.1	4



Modulare Grundhalter – RAK

Abb. 5



Diverse Werkzeugaufnahmen für Multi-Task Maschinen verfügbar.

IT Steilkegelschaft DIN69871

SLIM CHUCK STANDARD – IT / NIT / MIT



Slim Chuck Standard – IT



Slim Chuck Standard – NIT

Bezeichnung	LF	DCON _{WS}	LSCN	LB	LB ₁	BD	BD ₁	Max. U/min
IT40-SK6-□	60, 90, 120, 150	0.7-6.0	21-35	38, 48, 62, 60	38, 48, 62, 82	19.5	19.5, 19.5, 32, 25	12.000
IT40-SK10-□	60, 90, 120, 150	1.75-10.0	30-50	40, 50, 60, 73	40, 50, 82, 114	27.5	27.5, 27.5, 32, 33.5	12.000
IT40-SK10-180	180	1.75-10.0	30-50	73	144	27.5	39	10.000
IT40-SK13-□	60, 90, 120, 150	2.75-13.0	31-65	40, 50, 80, 88	40, 50, 80, 114	33	33, 33, 33, 40	12.000
IT40-SK13-180	180	2.75-13.0	31-65	88	144	33	40	10.000
IT40-SK16-60	60	2.75-16.0	50-65	40	-	40	-	12.000
IT40-SK16-□	90, 120, 150	2.75-16.0	45-70	54, 84, 114	-	40	-	12.000
IT40-SK16-180	180	2.75-16.0	45-70	144	-	40	-	10.000
IT40-SK20-□	90, 120	3.5-20.0	47-80	70, 100	-	48.5	-	10.000
IT40-SK25-□	90, 120	7.5-25.4	55-75	70, 100	-	55	-	10.000
IT50-SK6-□	105, 135, 165	0.7-6.0	21-35	60, 62, 62	60, 93, 117	19.5	19.5, 32, 32	12.000
IT50-SK6-200	200	0.7-6.0	21-35	60	154	19.5	30	10.000
IT50-SK10-□	105, 135, 165	1.75-10.0	30-50	65, 70, 75	65, 95, 125	27.5	27.5, 32, 32	12.000
IT50-SK10-200	200	1.75-10.0	30-50	75	154	27.5	36	10.000
IT50-SK13-□	105, 135, 165	2.75-13.0	31-65	62, 95, 92	62, 95, 125	33	33, 33, 45	12.000
IT50-SK13-200	200	2.75-13.0	31-65	92	160	33	45	10.000
IT50-SK16-□	105, 135, 165	2.75-16.0	40-70	65, 95, 92	65, 95, 125	40	40, 40, 50	12.000
IT50-SK16-200	200	2.75-16.0	40-70	92	160	40	50	10.000
IT50-SK20-□	105, 135, 165	3.5-20.0	47-80	65, 95, 125	-	48.5	-	10.000
IT50-SK20-200	200	3.5-20.0	47-80	160	-	48.5	-	8.000
IT50-SK25-□	105, 135, 165	7.5-25.4	50-85	65, 95, 125	-	55	-	10.000
IT50-SK25-200	200	7.5-25.4	50-85	160	-	55	-	8.000
NIT40-SK6C-□	60, 90, 120, 150	0.7-6.0	21-35	38, 48, 62, 60	38, 48, 62, 82	19.5	19.5, 19.5, 32, 25	12.000
NIT40-SK10C-□	60, 90, 120, 150	1.75-10.0	30-50	40, 50, 60, 73	40, 50, 82, 114	27.5	27.5, 27.5, 32, 33.5	12.000
NIT40-SK10C-180	180	1.75-10.0	30-50	73	144	27.5	39	10.000
NIT40-SK13C-□	60, 90, 120, 150	2.75-13.0	31-65	40, 50, 80, 88	40, 50, 80, 114	33	33, 33, 33, 40	12.000
NIT40-SK13C-180	180	2.75-13.0	31-65	88	144	33	40	10.000
NIT40-SK16C-60	60	2.75-16.0	50-65	40	-	40	-	12.000
NIT40-SK16C-□	90, 120, 150	2.75-16.0	45-70	54, 84, 114	-	40	-	12.000
NIT40-SK16C-180	180	2.75-16.0	45-70	144	-	40	-	10.000
NIT40-SK20C-□	90, 120	3.5-20.0	47-80	70, 100	-	48.5	-	10.000
NIT40-SK25C-□	90, 120	7.5-25.4	55-75	70, 100	-	55	-	10.000
NIT50-SK6C-□	105, 135, 165	0.7-6.0	21-35	60, 62, 62	60, 93, 117	19.5	19.5, 32, 32	12.000
NIT50-SK6C-200	200	0.7-6.0	21-35	60	154	19.5	30	10.000
NIT50-SK10C-□	105, 135, 165	1.75-10.0	30-50	65, 70, 75	65, 95, 125	27.5	27.5, 32, 32	12.000
NIT50-SK10C-200	200	1.75-10.0	30-50	75	154	27.5	36	10.000
NIT50-SK13C-□	105, 135, 165	2.75-13.0	31-65	62, 95, 92	62, 95, 125	33	33, 33, 45	12.000
NIT50-SK13C-200	200	2.75-13.0	31-65	92	160	33	45	10.000
NIT50-SK16C-□	105, 135, 165	2.75-16.0	40-70	65, 95, 92	65, 95, 125	40	40, 40, 50	12.000
NIT50-SK16C-200	200	2.75-16.0	40-70	92	160	40	50	10.000
NIT50-SK20C-□	105, 135, 165	3.5-20.0	47-80	65, 95, 125	-	48.5	-	10.000
NIT50-SK20C-200	200	3.5-20.0	47-80	160	-	48.5	-	8.000

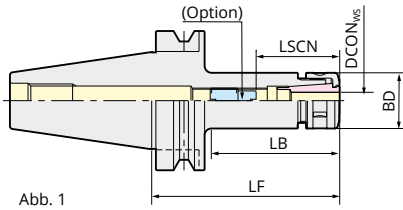


Abb. 1

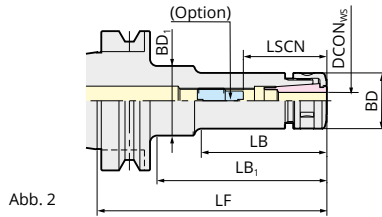


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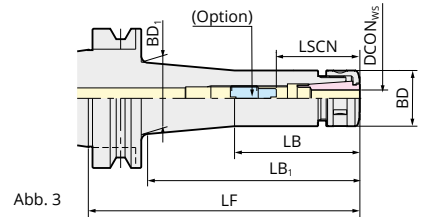


Abb. 3

Spannschlüssel	Spannzange	Anschlag-schraube	TiN Spannmutter (Standard)	Jet Typ Spannmutter	Jet Abdeckkappe	O-Ring Abdeckkappe	Abdeckkappen-schlüssel	Abb.
SKL-6W	SK6-□	SKG-8	SKN-6WK	SKN-6WKJ	SKJ6-□	SKJ6-□C	SKJL-6	1, 1, 2, 3
SKL-10	SK10-□	SKG-12L	SKN-10K	SKN-10KJ	SKJ10-□	SKJ10-□C	SKJL-10	1, 1, 2, 3
SKL-10	SK10-□	SKG-12L	SKN-10K	SKN-10KJ	SKJ10-□	SKJ10-□C	SKJL-10	3
9HC12A	SK13-□	SKG-15	SKN-13B	SKN-13BJ	SKJ16-□	SKJ16-□C	SKJL-16	1, 1, 1, 3
9HC12A	SK13-□	SKG-15	SKN-13B	SKN-13BJ	SKJ16-□	SKJ16-□C	SKJL-16	3
9HC16	SK16-□	SKG-18S	SKN-16B	SKN-16BJ	SKJ16-□	SKJ16-□C	SKJL-16	1
9HC16	SK16-□	SKG-18L	SKN-16B	SKN-16BJ	SKJ16-□	SKJ16-□C	SKJL-16	1
9HC16	SK16-□	SKG-18L	SKN-16B	SKN-16BJ	SKJ16-□	SKJ16-□C	SKJL-16	1
9HC22	SK20-□	SKG-22	SKN-20B	SKN-20BJ	SKJ25-□	SKJ25-□C	SKJL-25	1
9HC25	SK25-□	SKG-28	SKN-25B	SKN-25BJ	SKJ25-□	SKJ25-□C	SKJL-25	1
SKL-6W	SK6-□	SKG-8	SKN-6WK	SKN-6WKJ	SKJ6-□	SKJ6-□C	SKJL-6	1, 2, 2
SKL-6W	SK6-□	SKG-8	SKN-6WK	SKN-6WKJ	SKJ6-□	SKJ6-□C	SKJL-6	3
SKL-10	SK10-□	SKG-12L	SKN-10K	SKN-10KJ	SKJ10-□	SKJ10-□C	SKJL-10	1, 2, 2
SKL-10	SK10-□	SKG-12L	SKN-10K	SKN-10KJ	SKJ10-□	SKJ10-□C	SKJL-10	3
9HC12A	SK13-□	SKG-15	SKN-13B	SKN-13BJ	SKJ16-□	SKJ16-□C	SKJL-16	1, 1, 2
9HC12A	SK13-□	SKG-15	SKN-13B	SKN-13BJ	SKJ16-□	SKJ16-□C	SKJL-16	3
9HC16	SK16-□	SKG-18L	SKN-16B	SKN-16BJ	SKJ16-□	SKJ16-□C	SKJL-16	1, 1, 2
9HC16	SK16-□	SKG-18L	SKN-16B	SKN-16BJ	SKJ16-□	SKJ16-□C	SKJL-16	2
9HC22	SK20-□	SKG-22	SKN-20B	SKN-20BJ	SKJ25-□	SKJ25-□C	SKJL-25	1
9HC22	SK20-□	SKG-22	SKN-20B	SKN-20BJ	SKJ25-□	SKJ25-□C	SKJL-25	1
9HC25	SK25-□	SKG-28	SKN-25B	SKN-25BJ	SKJ25-□	SKJ25-□C	SKJL-25	1
9HC25	SK25-□	SKG-28	SKN-25B	SKN-25BJ	SKJ25-□	SKJ25-□C	SKJL-25	1
SKL-6W	SK6-□	SKG-8	SKN-6WK	SKN-6WKJ	SKJ6-□	SKJ6-□C	SKJL-6	1, 1, 2, 3
SKL-10	SK10-□	SKG-12L	SKN-10K	SKN-10KJ	SKJ10-□	SKJ10-□C	SKJL-10	1, 1, 2, 3
SKL-10	SK10-□	SKG-12L	SKN-10K	SKN-10KJ	SKJ10-□	SKJ10-□C	SKJL-10	3
9HC12A	SK13-□	SKG-15	SKN-13B	SKN-13BJ	SKJ16-□	SKJ16-□C	SKJL-16	1, 1, 1, 3
9HC12A	SK13-□	SKG-15	SKN-13B	SKN-13BJ	SKJ16-□	SKJ16-□C	SKJL-16	3
9HC16	SK16-□	SKG-18S	SKN-16B	SKN-16BJ	SKJ16-□	SKJ16-□C	SKJL-16	1
9HC16	SK16-□	SKG-18L	SKN-16B	SKN-16BJ	SKJ16-□	SKJ16-□C	SKJL-16	1
9HC16	SK16-□	SKG-18L	SKN-16B	SKN-16BJ	SKJ16-□	SKJ16-□C	SKJL-16	1
9HC22	SK20-□	SKG-22	SKN-20B	SKN-20BJ	SKJ25-□	SKJ25-□C	SKJL-25	1
9HC25	SK25-□	SKG-28	SKN-25B	SKN-25BJ	SKJ25-□	SKJ25-□C	SKJL-25	1
SKL-6W	SK6-□	SKG-8	SKN-6WK	SKN-6WKJ	SKJ6-□	SKJ6-□C	SKJL-6	1, 2, 2
SKL-6W	SK6-□	SKG-8	SKN-6WK	SKN-6WKJ	SKJ6-□	SKJ6-□C	SKJL-6	3
SKL-10	SK10-□	SKG-12L	SKN-10K	SKN-10KJ	SKJ10-□	SKJ10-□C	SKJL-10	1, 2, 2
SKL-10	SK10-□	SKG-12L	SKN-10K	SKN-10KJ	SKJ10-□	SKJ10-□C	SKJL-10	3
9HC12A	SK13-□	SKG-15	SKN-13B	SKN-13BJ	SKJ16-□	SKJ16-□C	SKJL-16	1, 1, 2
9HC12A	SK13-□	SKG-15	SKN-13B	SKN-13BJ	SKJ16-□	SKJ16-□C	SKJL-16	3
9HC16	SK16-□	SKG-18L	SKN-16B	SKN-16BJ	SKJ16-□	SKJ16-□C	SKJL-16	1, 1, 2
9HC16	SK16-□	SKG-18L	SKN-16B	SKN-16BJ	SKJ16-□	SKJ16-□C	SKJL-16	2
9HC22	SK20-□	SKG-22	SKN-20B	SKN-20BJ	SKJ25-□	SKJ25-□C	SKJL-25	1
9HC22	SK20-□	SKG-22	SKN-20B	SKN-20BJ	SKJ25-□	SKJ25-□C	SKJL-25	1

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Slim Chuck Standard - IT



Slim Chuck Standard - NIT



Slim Chuck Standard - MIT

Bezeichnung	LF	DCON _{WS}	LSCN	LB	LB ₁	BD	BD ₁	Max. U/min
NIT50-SK25C-□	105, 135, 165	7.5-25.4	50-85	65, 95, 125	-	55	-	10.000
NIT50-SK25C-200	200	7.5-25.4	50-85	160	-	55	-	8.000
MIT40-SKT6C-□	90, 120	0.7-6.0	26-31	19.8	60, 90	19.5	25.2, 29.4	15.000
MIT40-SKT10C-□	90, 120, 150	1.75-10.0	35-41	22	90, 90, 120	27.5	32.9, 37.1, 41.3	15.000
MIT40-SKT13C-□	90, 120, 150	2.75-13.0	39-51	26	52, 85, 110	33	36.6, 41.2, 44.7	15.000
MIT40-SKT16C-□	90, 120, 150	2.75-16.0	45-57	27	60, 90, 120	40	44.7, 48.9, 53.1	12.000
MIT40-SKT20C-□	90, 120	4.0-20.0	47-63	28.5	60, 92	48.5	53, 57.4	10.000
MIT40-SKT25C-□	90, 120	8.0-25.4	60-65	31	62.6, 92.2	55	59.5, 59.3	10.000
MIT50-SKT6C-□	105, 165	0.7-6.0	26-31	19.8	62, 122	19.5	25.5, 33.8	15.000
MIT50-SKT10C-□	105, 165	1.75-10.0	35-41	22	62, 122	27.5	33.1, 41.5	15.000
MIT50-SKT13C-□	105, 165	2.75-13.0	39-51	26	65, 125	33	38.4, 46.8	15.000
MIT50-SKT16C-□	105, 165	2.75-16.0	45-57	27	62, 122	40	44.9, 53.3	12.000
MIT50-SKT20C-□	105, 165	4.0-20.0	47-63	28.5	62, 122	48.5	53.2, 61.6	10.000
MIT50-SKT25C-□	120, 165	8.0-25.4	60-70	31	62, 122	55	59.4, 67.8	10.000

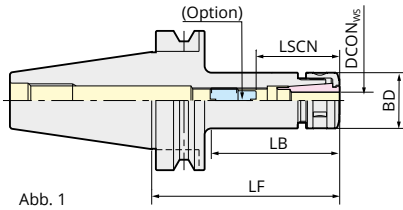


Abb. 1

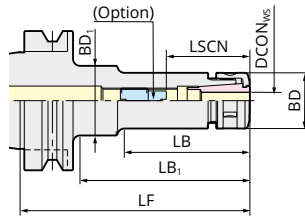


Abb. 2

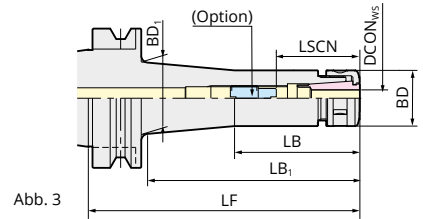


Abb. 3

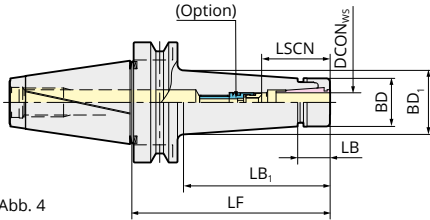


Abb. 4

Spannschlüssel	Spannzange	Anschlag- schraube	TiN Spannmutter (Standard)	Jet Typ Spannmutter	Jet Abdeckkappe	O-Ring Abdeckkappe	Abdeckkappen- schlüssel	Abb.
9HC25	SK25-□	SKG-28	SKN-25B	SKN-25BJ	SKJ25-□	SKJ25-□C	SKJL-25	1
9HC25	SK25-□	SKG-28	SKN-25B	SKN-25BJ	SKJ25-□	SKJ25-□C	SKJL-25	1
GH6	SK6-□	SKG-8	MDSKN-6K	MDSKN-6KJ	SKJ6-□	SKJ6-□C	SKJL-6	4
GH10	SK10-□	SKG-12L	MDSKN-10K	MDSKN-10KJ	SKJ10-□	SKJ10-□C	SKJL-10	4
GH13	SK13-□	SKG13-10HG	MDSKN-13B	MDSKN-13BJ	SKJ16-□	SKJ16-□C	SKJL-16	4
GH16	SK16-□	SKG-18L	MDSKN-16B	MDSKN-16BJ	SKJ16-□	SKJ16-□C	SKJL-16	4
GH20	SK25-□	SKG-28	MDSKN-20B	MDSKN-20BJ	SKJ25-□	SKJ25-□C	SKJL-25	4
GH25	SK25-□	SKG-28	MDSKN-25B	MDSKN-25BJ	SKJ25-□	SKJ25-□C	SKJL-25	4
GH6	SK6-□	SKG-8	MDSKN-6K	MDSKN-6KJ	SKJ6-□	SKJ6-□C	SKJL-6	4
GH10	SK10-□	SKG-12L	MDSKN-10K	MDSKN-10KJ	SKJ10-□	SKJ10-□C	SKJL-10	4
GH13	SK13-□	SKG13-10HG	MDSKN-13B	MDSKN-13BJ	SKJ16-□	SKJ16-□C	SKJL-16	4
GH16	SK16-□	SKG-18L	MDSKN-16B	MDSKN-16BJ	SKJ16-□	SKJ16-□C	SKJL-16	4
GH20	SK25-□	SKG-28	MDSKN-20B	MDSKN-20BJ	SKJ25-□	SKJ25-□C	SKJL-25	4
GH25	SK25-□	SKG-28	MDSKN-25B	MDSKN-25BJ	SKJ25-□	SKJ25-□C	SKJL-25	4

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SLIM CHUCK HIGH SPEED – IT / NIT / MIT



Slim Chuck High Speed – IT

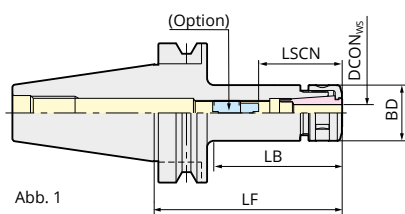


Abb. 1

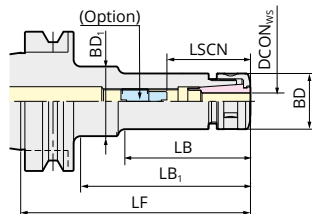


Abb. 2

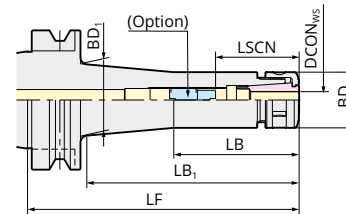
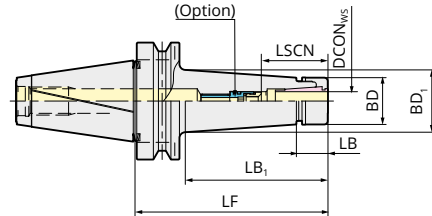


Abb. 3

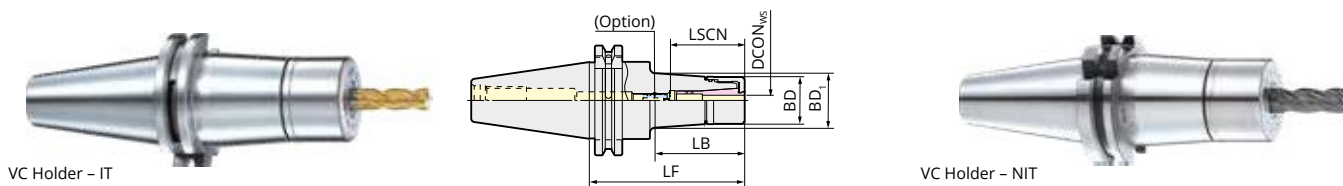
Bezeichnung	LF	DCON _{ws}	LSCN	LB	LB ₁	BD	BD ₁	Max. U/min
IT40X-SK6-□	60P, 90P, 120P	0.7-6.0	21-35	38, 48, 62	-	19.5	19.5, 19.5, 32	30.000
IT40X-SK10-□	60P, 90P, 120P	1.75-10.0	30-50	40, 50, 60	40, 50, 82	27.5	27.5, 27.5, 32	30.000
IT40X-SK13-□	60P, 90P, 120P	2.75-13.0	31-65	40, 50, 80	-	33	-	30.000
IT40X-SK16-60P	60P	2.75-16.0	50-65	40	-	40	-	25.000
IT40X-SK16-□	90P, 120P	2.75-16.0	45-70	54, 84	-	40	-	25.000
IT40X-SK20-□	90P, 120P	3.5-20.0	47-80	70, 100	-	48.5	-	25.000
IT40X-SK25-□	90P, 120P	7.5-25.4	55-75	70, 100	-	55	-	20.000
IT50X-SK6-□	105P, 135P, 165P	0.7-6.0	21-35	60, 62, 62	60, 93, 117	19.5	19.5, 32, 32	20.000
IT50X-SK10-□	105P, 135P, 165P	1.75-10.0	30-50	65, 70, 75	65, 95, 125	27.5	27.5, 32, 32	20.000
IT50X-SK13-□	105P, 135P, 165P	2.75-13.0	31-65	62, 95, 92	62, 95, 125	33	33, 33, 45	20.000
IT50X-SK16-□	105P, 135P, 165P	2.75-16.0	40-70	65, 95, 92	65, 95, 125	40	40, 40, 50	20.000
IT50X-SK20-□	105P, 135P, 165P	3.5-20.0	47-80	65, 95, 125	-	48.5	-	20.000
IT50X-SK25-□	105P, 135P, 165P	7.5-25.4	50-85	65, 95, 125	-	55	-	15.000
NIT40-SK6C-□	60P, 90P, 120P	0.7-6.0	21-35	38, 48, 62	-	19.5	19.5, 19.5, 32	30.000
NIT40-SK10C-□	60P, 90P, 120P	1.75-10.0	30-50	40, 50, 60	40, 50, 82	27.5	27.5, 27.5, 32	30.000
NIT40-SK13C-□	60P, 90P, 120P	2.75-13.0	31-65	40, 50, 80	-	33	-	30.000
NIT40-SK16C-60P	60P	2.75-16.0	50-65	40	-	40	-	25.000
NIT40-SK16C-□	90P, 120P	2.75-16.0	45-70	54, 84	-	40	-	25.000
NIT40-SK20C-□	90P, 120P	3.5-20.0	47-80	70, 100	-	48.5	-	25.000
NIT40-SK25C-□	90P, 120P	7.5-25.4	55-75	70, 100	-	55	-	20.000
NIT50-SK6C-□	105P, 165P	0.7-6.0	21-35	60, 62	60, 117	19.5	19.5, 32	20.000
NIT50-SK10C-□	105P, 165P	1.75-10.0	30-50	65, 75	65, 125	27.5	27.5, 32	20.000
NIT50-SK13C-□	105P, 165P	2.75-13.0	31-65	62, 92	62, 125	33	33, 45	20.000
NIT50-SK16C-□	105P, 165P	2.75-16.0	40-70	65, 92	65, 125	40	40, 50	20.000
NIT50-SK20C-□	105P, 165P	3.5-20.0	47-80	65, 125	-	48.5	-	20.000
NIT50-SK25C-□	105P, 165P	7.5-25.4	50-85	65, 125	-	55	-	15.000
MIT40-SKT6C-□	90P, 120P	0.7-6.0	26-31	19.8	60, 90	19.5	25.2, 29.4	30.000
MIT40-SKT10C-□	90P, 120P, 150P	1.75-10.0	35-41	22	60, 90	27.5	32.9, 37.1, 41.3	30.000
MIT40-SKT13C-□	90P, 120P, 150P	2.75-13.0	39-51	26	52, 85, 110	33	36.6, 41.2, 44.7	30.000
MIT40-SKT16C-□	90P, 120P, 150P	2.75-16.0	45-57	27	60, 90, 120	40	44.7, 48.9, 53.1	25.000
MIT40-SKT20C-□	90P, 120P	4.0-20.0	47-63	28.5	60, 92	48.5	53, 57.4	25.000
MIT40-SKT25C-□	90P, 120P	8.0-25.4	60-65	31	62.9, 92.2	55	59.5, 59.3	25.000
MIT50-SKT6C-□	105P, 165P	0.7-6.0	26-31	19.8	62, 122	19.5	25.5, 33.8	20.000
MIT50-SKT10C-□	105P, 165P	1.75-10.0	35-41	22	62, 122	27.5	33.1, 41.5	20.000
MIT50-SKT13C-□	105P, 165P	2.75-13.0	39-51	26	65, 122	33	38.4, 46.8	20.000
MIT50-SKT16C-□	105P, 165P	2.75-16.0	45-57	27	62, 122	40	44.9, 53.3	20.000
MIT50-SKT20C-□	105P, 165P	4.0-20.0	47-63	28.5	62, 122	48.5	53.2, 61.6	20.000
MIT50-SKT25C-□	120P, 165P	8.0-25.4	60-70	31	62, 122	55	59.4, 67.8	15.000



Rollenschlüssel	Spannzange	Anschlag-schraube	TiN Spannmutter (High Speed)	Jet Typ Spannmutter	Jet Abdeck-kappe	O-Ring Abdeckkappe	Abdeckkappen-schlüssel
GH6	SK6-□	SKG-8	SKN-6WK(GH)	SKN-6WKJ(GH)	SKJ6-□	SKJ6-□C	SKJL-6
GH10	SK10-□	SKG-12L	SKN-10K(GH)	SKN-10KJ(GH)	SKJ10-□	SKJ10-□C	SKJL-10
GH13	SK13-□	SKG-15	SKN-13B(GH)	MDSKN-13BJ	SKJ16-□	SKJ16-□C	SKJL-16
GH16	SK16-□	SKG-18S	SKN-16B(GH)	SKN-16BJ(GH)	SKJ16-□	SKJ16-□C	SKJL-16
GH16	SK16-□	SKG-18L	SKN-16B(GH)	SKN-16BJ(GH)	SKJ16-□	SKJ16-□C	SKJL-16
GH20	SK20-□	SKG-22	SKN-20B(GH)	MDSKN-20BJ	SKJ25-□	SKJ25-□C	SKJL-25
GH25	SK25-□	SKG-28	SKN-25B(GH)	SKN-25BJ(GH)	SKJ25-□	SKJ25-□C	SKJL-25
GH6	SK6-□	SKG-8	SKN-6WK(GH)	SKN-6WKJ(GH)	SKJ6-□	SKJ6-□C	SKJL-6
GH10	SK10-□	SKG-12L	SKN-10K(GH)	SKN-10KJ(GH)	SKJ10-□	SKJ10-□C	SKJL-10
GH13	SK13-□	SKG-15	SKN-13B(GH)	MDSKN-13BJ	SKJ16-□	SKJ16-□C	SKJL-16
GH16	SK16-□	SKG-18L	SKN-16B(GH)	SKN-16BJ(GH)	SKJ16-□	SKJ16-□C	SKJL-16
GH20	SK20-□	SKG-22	SKN-20B(GH)	MDSKN-20BJ	SKJ25-□	SKJ25-□C	SKJL-25
GH25	SK25-□	SKG-28	SKN-25B(GH)	SKN-25BJ(GH)	SKJ25-□	SKJ25-□C	SKJL-25
GH6	SK6-□	SKG-8	SKN-6WK(GH)	SKN-6WKJ(GH)	SKJ6-□	SKJ6-□C	SKJL-6
GH10	SK10-□	SKG-12L	SKN-10K(GH)	SKN-10KJ(GH)	SKJ10-□	SKJ10-□C	SKJL-10
GH13	SK13-□	SKG-15	SKN-13B(GH)	MDSKN-13BJ	SKJ16-□	SKJ16-□C	SKJL-16
GH16	SK16-□	SKG-18S	SKN-16B(GH)	SKN-16BJ(GH)	SKJ16-□	SKJ16-□C	SKJL-16
GH16	SK16-□	SKG-18L	SKN-16B(GH)	SKN-16BJ(GH)	SKJ16-□	SKJ16-□C	SKJL-16
GH20	SK20-□	SKG-22	SKN-20B(GH)	MDSKN-20BJ	SKJ25-□	SKJ25-□C	SKJL-25
GH25	SK25-□	SKG-28	SKN-25B(GH)	SKN-25BJ(GH)	SKJ25-□	SKJ25-□C	SKJL-25
GH6	SK6-□	SKG-8	SKN-6WK(GH)	SKN-6WKJ(GH)	SKJ6-□	SKJ6-□C	SKJL-6
GH10	SK10-□	SKG-12L	SKN-10K(GH)	SKN-10KJ(GH)	SKJ10-□	SKJ10-□C	SKJL-10
GH13	SK13-□	SKG-15	SKN-13B(GH)	MDSKN-13BJ	SKJ16-□	SKJ16-□C	SKJL-16
GH16	SK16-□	SKG-18L	SKN-16B(GH)	SKN-16BJ(GH)	SKJ16-□	SKJ16-□C	SKJL-16
GH20	SK20-□	SKG-22	SKN-20B(GH)	MDSKN-20BJ	SKJ25-□	SKJ25-□C	SKJL-25
GH25	SK25-□	SKG-28	SKN-25B(GH)	SKN-25BJ(GH)	SKJ25-□	SKJ25-□C	SKJL-25
GH6	SK6-□	SKG-8	SKN-6WK(GH)	SKN-6WKJ(GH)	SKJ6-□	SKJ6-□C	SKJL-6
GH10	SK10-□	SKG-12L	SKN-10K(GH)	SKN-10KJ(GH)	SKJ10-□	SKJ10-□C	SKJL-10
GH13	SK13-□	SKG-15	SKN-13B(GH)	MDSKN-13BJ	SKJ16-□	SKJ16-□C	SKJL-16
GH16	SK16-□	SKG-18L	SKN-16B(GH)	SKN-16BJ(GH)	SKJ16-□	SKJ16-□C	SKJL-16
GH20	SK20-□	SKG-22	SKN-20B(GH)	MDSKN-20BJ	SKJ25-□	SKJ25-□C	SKJL-25
GH25	SK25-□	SKG-28	SKN-25B(GH)	SKN-25BJ(GH)	SKJ25-□	SKJ25-□C	SKJL-25
GH6	SK6-□	SKG-8	MDSKN-6K	MDSKN-6KJ	SKJ6-□	SKJ6-□C	SKJL-6
GH10	SK10-□	SKG-12L	MDSKN-10K	MDSKN-10KJ	SKJ10-□	SKJ10-□C	SKJL-10
GH13	SK13-□	SKG13-10HG	MDSKN-13B	MDSKN-13BJ	SKJ16-□	SKJ16-□C	SKJL-16
GH16	SK16-□	SKG-18L	MDSKN-16B	MDSKN-16BJ	SKJ16-□	SKJ16-□C	SKJL-16
GH20	SK25-□	SKG-28	MDSKN-20B	MDSKN-20BJ	SKJ25-□	SKJ25-□C	SKJL-25
GH25	SK25-□	SKG-28	MDSKN-25B	MDSKN-25BJ	SKJ25-□	SKJ25-□C	SKJL-25
GH6	SK6-□	SKG-8	MDSKN-6K	MDSKN-6KJ	SKJ6-□	SKJ6-□C	SKJL-6
GH10	SK10-□	SKG-12L	MDSKN-10K	MDSKN-10KJ	SKJ10-□	SKJ10-□C	SKJL-10
GH13	SK13-□	SKG13-10HG	MDSKN-13B	MDSKN-13BJ	SKJ16-□	SKJ16-□C	SKJL-16
GH16	SK16-□	SKG-18L	MDSKN-16B	MDSKN-16BJ	SKJ16-□	SKJ16-□C	SKJL-16
GH20	SK25-□	SKG-28	MDSKN-20B	MDSKN-20BJ	SKJ25-□	SKJ25-□C	SKJL-25
GH25	SK25-□	SKG-28	MDSKN-25B	MDSKN-25BJ	SKJ25-□	SKJ25-□C	SKJL-25

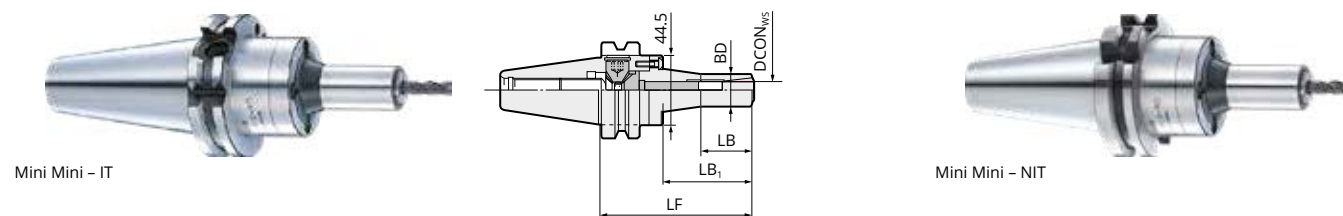
IT Steilkegelschaft DIN69871

VC HOLDER – IT / NIT / MIT

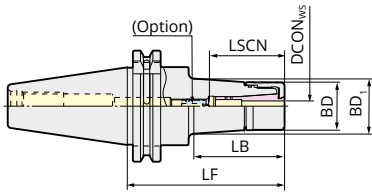


Bezeichnung	LF	DCON _{ws}	LSCN	LB	LB ₁	BD	BD ₁
IT40X-VC6-□	60, 90, 120	2.0-6.0	35-45	23	23, 51.9, 81.9	27.5	27.5, 31.5, 35.7
IT40X-VC13-□	60, 90, 120	3.0-12.0	50-60	29	29, 70, 100	40	40, 44.7, 44.7
IT50X-VC6-□	105, 135, 165	2.0-6.0	35-45	23	64.9, 94.9, 124.9	27.5	33.4, 37.6, 41.8
IT50X-VC13-□	105, 135, 165	3.0-12.0	50-60	29	64.9, 94.9, 124.9	40	45, 49.2, 53.4
NIT40X-VC6-□	60, 90, 120	2.0-6.0	35-45	23	23, 51.9, 81.9	27.5	27.5, 31.5, 35.7
NIT40X-VC13-□	60, 90, 120	3.0-12.0	50-60	29	29, 70, 100	40	40, 44.7, 44.7
NIT50X-VC6-□	105, 135, 165	2.0-6.0	35-45	23	64.9, 94.9, 124.9	27.5	33.4, 37.6, 41.8
NIT50X-VC13-□	105, 135, 165	3.0-12.0	50-60	29	64.9, 94.9, 124.9	40	45, 49.2, 53.4
MIT40-VC6-□	60, 90, 120	2.0-6.0	35-45	23	23, 51.9, 81.9	27.5	27.5, 31.5, 35.7
MIT40-VC13-□	60, 90, 120	3.0-12.0	50-60	29	29, 70, 100	40	40, 44.7, 44.7
MIT50-VC6-□	105, 135, 165	2.0-6.0	35-45	23	64.9, 94.9, 124.9	27.5	33.4, 37.6, 41.8
MIT50-VC13-□	105, 135, 165	3.0-12.0	50-60	29	64.9, 94.9, 124.9	40	45, 49.2, 53.4

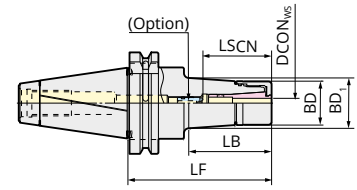
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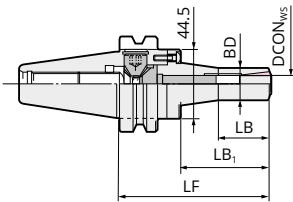
Bezeichnung	LF	DCON _{ws}	LSCN	LB	BD	Max. U/min	Spannzange Standard	Spannzange metallisch dichtend	Jet Spannzange
IT40-MMC8-□	90, 120	2.0-8.0	9.4-15.0	33, 40	20	30.000	PMK8-□	VMK8-□	VMK8-□J
IT40-MMC12-□	90, 120	4.0-12.0	20.0-31.0	35, 60	30	30.000	PMK12-□	VMK12-□	VMK12-□J
IT50-MMC8-□	105, 135, 165	2.0-8.0	9.4-15.0	33, 40, 40	20	20.000	PMK8-□	VMK8-□	VMK8-□J
IT50-MMC12-□	105, 135, 165	4.0-12.0	20.0-31.0	35, 60, 70	30	20.000	PMK12-□	VMK12-□	VMK12-□J
NIT40-MMC8-□	90, 120	2.0-8.0	9.4-15.0	33, 40	20	30.000	PMK8-□	VMK8-□	VMK8-□J
NIT40-MMC12-□	90, 120	4.0-12.0	20.0-31.0	35, 60	30	30.000	PMK12-□	VMK12-□	VMK12-□J



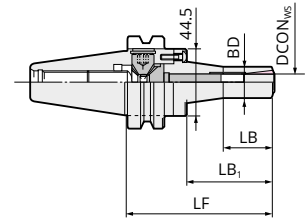
VC Holder - MIT



Max. U/min	Rollenschlüssel	Spannzange	Jet Typ Spannmutter	Jet Abdeckkappe	O-Ring Abdeckkappe	Anschlagschraube	Abdeckkappenschlüssel
30.000	GH10	VCK6-□	VCN-6BJ	SKJ10-□	SKJ10-□C	VCG6-8A	SKJL-10
30.000	GH16	VCK13-□	VCN-13BJ	SKJ16-□	SKJ16-□C	VCG13-15A	SKJL-16
20.000	GH10	VCK6-□	VCN-6BJ	SKJ10-□	SKJ10-□C	VCG6-8A	SKJL-10
20.000	GH16	VCK13-□	VCN-13BJ	SKJ16-□	SKJ16-□C	VCG13-15A	SKJL-16
30.000	GH10	VCK6-□	VCN-6BJ	SKJ10-□	SKJ10-□C	VCG6-8A	SKJL-10
30.000	GH16	VCK13-□	VCN-13BJ	SKJ16-□	SKJ16-□C	VCG13-15A	SKJL-16
20.000	GH10	VCK6-□	VCN-6BJ	SKJ10-□	SKJ10-□C	VCG6-8A	SKJL-10
20.000	GH16	VCK13-□	VCN-13BJ	SKJ16-□	SKJ16-□C	VCG13-15A	SKJL-16
30.000	GH10	VCK6-□	VCN-6BJ	SKJ10-□	SKJ10-□C	VCG6-8A	SKJL-10
30.000	GH16	VCK13-□	VCN-13BJ	SKJ16-□	SKJ16-□C	VCG13-15A	SKJL-16
20.000	GH10	VCK6-□	VCN-6BJ	SKJ10-□	SKJ10-□C	VCG6-8A	SKJL-10
20.000	GH16	VCK13-□	VCN-13BJ	SKJ16-□	SKJ16-□C	VCG13-15A	SKJL-16



Mini Mini - MIT

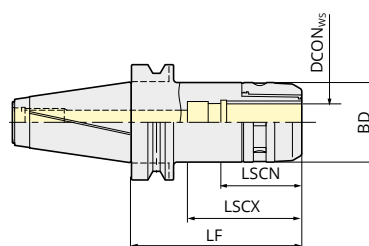


Bezeichnung	LF	DCON _{ws}	LSCN	LB	BD	Max. U/min	Spannzange Standard	Spannzange metallisch dichtend	Jet Spannzange
NIT50-MMC8-□	105, 135, 165	2.0-8.0	9.4-15.0	33, 40, 40	20	20.000	PMK8-□	VMK8-□	VMK8-□J
NIT50-MMC12-□	105, 135, 165	4.0-12.0	20.0-31.0	35, 60, 70	30	20.000	PMK12-□	VMK12-□	VMK12-□J
MIT40-MMC8-□	90, 120	2.0-8.0	9.4-15.0	33, 40	20	30.000	PMK8-□	VMK8-□	VMK8-□J
MIT40-MMC12-□	90, 120	4.0-12.0	20.0-31.0	35, 60	30	30.000	PMK12-□	VMK12-□	VMK12-□J
MIT50-MMC8-□	105, 135, 165	2.0-8.0	9.4-15.0	33, 40, 40	20	20.000	PMK8-□	VMK8-□	VMK8-□J
MIT50-MMC12-□	105, 135, 165	4.0-12.0	20.0-31.0	35, 60, 70	30	20.000	PMK12-□	VMK12-□	VMK12-□J

Max. U/min	Rollenschlüssel	Spannzange	Anschlagschraube	Jet Typ Spannmutter	Jet Abdeckkappe	O-Ring Abdeckkappe	Abdeckkappenschlüssel
30.000	GH6	SK6-□A	SKG-18L	MDSKN-6KJ	SKJ6-□	SKJ6-□C	SKJL-6
30.000	GH10	SK10-□A	SKG-12L	MDSKN-10KJ	SKJ10-□	SKJ10-□C	SKJL-10
30.000	GH12	SK13-□A	SKG-15	MDSKN-13BJ	SKJ16-□	SKJ16-□C	SKJL-16
30.000	GH16	SK16-□A	SKG-18L	MDSKN-16BJ	SKJ16-□	SKJ16-□C	SKJL-16
30.000	GH16	SK16-□A	SKG-18L	MDSKN-16BJ	SKJ16-□	SKJ16-□C	SKJL-16
30.000	GH20	SK20-□A	SKG-12, SKG12-55L	MDSKN-20BJ	SKJ25-□	SKJ25-□C	SKJL-25
30.000	GH20	SK20-□A	SKG-12-70L, SKG-12-85L	MDSKN-20BJ	SKJ25-□	SKJ25-□C	SKJL-25
20.000	GH6	SK6-□A	SKG-8	MDSKN-6BJ	SKJ6-□	SKJ6-□C	SKJL-6
20.000	GH10	SK10-□A	SKG-12L	MDSKN-10KJ	SKJ10-□	SKJ10-□C	SKJL-10
20.000	GH12	SK13-□A	SKG-15	MDSKN-13BJ	SKJ16-□	SKJ16-□C	SKJL-16
20.000	GH16	SK16-□A	SKG-18L	MDSKN-16BJ	SKJ16-□	SKJ16-□C	SKJL-16
20.000	GH20	SK20-□A	SKG-22	MDSKN-20BJ	SKJ25-□	SKJ25-□C	SKJL-25
20.000	GH25	SK25-□A	SKG-28	MDSKN-25BJ	SKJ25-□	SKJ25-□C	SKJL-25



Multi Lock Standard - MIT



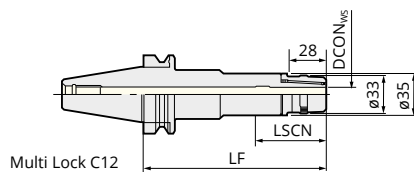
Für die Modelle C20-120, C42-95 und C42-95P können die Spannhülsen NK und CCNK nicht eingesetzt werden.

Spannzange	Jet Abdeckkappe	O-Ring Abdeckkappe	Abdeckkappenschlüssel
CCK12-□, KM12-□	CKFN12-□	CKFN12-□C	CCKLN12
CCK16-□, KM16-□	CKFN16-□	CKFN16-□C	CCKLN16
CCK20-□, CCNK20-□, KM20-□, NK20-□	CKFN20-□	CKFN20-□C	CCKLN20
CCK20-□, KM20-□	CKFN20-□	CKFN20-□C	CCKLN20
CCK25-□, CCNK25-□, KM25-□, NK25-□	CKFN25-□	CKFN25-□C	CCKLN25
CCK32-□, CCNK32-□, KM32-□, NK32-□	CKFN32T-□	CKFN32-□C	CCKLN32
CCK12-□, KM12-□	CKFN12-□	CKFN12-□C	CCKLN-12
CCK16-□, KM16-□	CKFN16-□	CKFN16-□C	CCKLN16

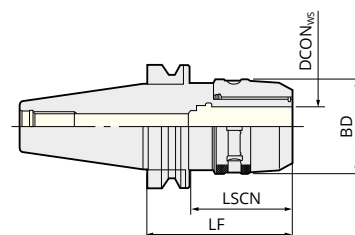
IT Steilkegelschaft DIN69871



Multi Lock Standard – IT



Multi Lock C12

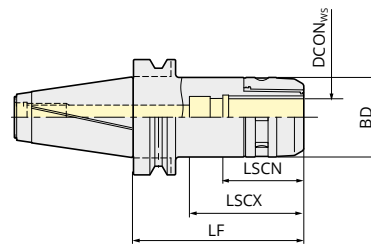


Multi Lock Standard – NIT

Bezeichnung	LF	DCON _{ws}	LSCN	LSCX	BD	Max. U/min	Spannschlüssel
IT50-C20-□	105, 135, 165, 180	2.0-20.0	53	80	52	8.000	9HC22
IT50-C25-□	105, 135, 165	3.0-25.0	59	80	60	8.000	9HC25
IT50-C32-□	85, 105, 120, 135, 165	3.0-32.0	64.5	105	69	6.000	9HC32
IT50-C42-95	95	3.0-42.0	73-78	125	86	5.000	9HC42
IT50-C42-□	105, 135, 165	3.0-42.0	73-78	125	86	5.000	9HC42
NIT40-C12-□	65, 90, 120	2.0-12.0	40	85	33	15.000	9HC12A
NIT40-C16-□	60, 90, 120	2.0-16.0	47.5	65	44	10.000	9HC16
NIT40-C20-□	80, 90, 105	2.0-20.0	53	80	52	7.000	9HC22
NIT40-C20-120	120	2.0-20.0	53	80	52	7.000	9HC22
NIT40-C25-□	85, 105, 120	3.0-25.0	59	80	60	6.000	9HC25
NIT40-C32-□	95, 105, 120	3.0-32.0	64.5	82, 95, 105	64	6.000	9HC25
NIT50-C12-□	105, 135, 165	2.0-12.0	40	58	33	15.000	9HC12A
NIT50-C16-□	105, 135, 165	2.0-16.0	47.5	65	44	10.000	9HC16
NIT50-C20-□	105, 135, 165, 180	2.0-20.0	53	80	52	8.000	9HC22
NIT50-C25-□	105, 135, 165	3.0-25.0	59	80	60	8.000	9HC25
NIT50-C32-□	85, 105, 120, 135, 165	3.0-32.0	64.5	105	69	6.000	9HC32
NIT50-C42-95	95	3.0-42.0	73-78	125	86	5.000	9HC42
NIT50-C42-□	105, 135, 165	3.0-42.0	73-78	125	86	5.000	9HC42
MIT40-C12-□	90, 120	2.0-12.0	40	58	33	15.000	9HC12A
MIT40-C16-□	60, 90, 120	2.0-16.0	47.5	65	44	10.000	9HC16
MIT40-C20-□	80, 90, 120	2.0-20.0	53	80	52	7.000	9HC22
MIT40-C25-□	85, 120	3.0-25.0	59	75, 80	60	6.000	9HC25
MIT40-C32-95	95	3.0-32.0	64.5	67	64	6.000	9HC25
MIT40-C32-□	105, 120	3.0-32.0	64.5	95, 107	64	6.000	9HC25
MIT50-C12-□	105, 165	2.0-12.0	40	58	33	15.000	9HC12A
MIT50-C16-□	105, 165, 200	2.0-16.0	47.5	65	44	10.000	9HC16
MIT50-C20-□	105, 165, 200	2.0-20.0	53	80	52	8.000	9HC22
MIT50-C25-□	105, 135, 165	3.0-25.0	59	80	60	8.000	9HC25
MIT50-C32-□	90, 105, 120, 135, 165	3.0-32.0	64.5	81	69	6.000	9HC32
MIT50-C42-95	95	3.0-42.0	73-78	85	86	5.000	9HC42
MIT50-C42-□	120, 135, 165	3.0-42.0	73-78	110, 125, 125	86	5.000	9HC42



Multi Lock Standard - MIT



Für die Modelle C20-120, C42-95 und C42-95P können die Spannhülsen NK und CCNK nicht eingesetzt werden.

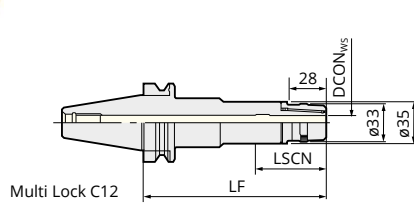
Spannzange	Jet Abdeckkappe	O-Ring Abdeckkappe	Abdeckkappenschlüssel
CCK20-□, CCNK20-□, KM20-□, NK20-□	CKFN20-□	CKFN20-□C	CCKLN20
CCK25-□, CCNK25-□, KM25-□, NK25-□	CKFN25-□	CKFN25-□C	CCKLN25
CCK32-□, CCNK32-□, KM32-□, NK32-□	CKFN32-□	CKFN32-□C	CCKLN32
CCK42-□, KM42-□	CKFN42-□	CKFN42-□C	CCKLN42
CCK42-□, CCNK42-□, KM42-□, NK42-□	CKFN42-□	CKFN42-□C	CCKLN42
CCK12-□, KM12-□	CKFN12-□	CKFN12-□C	CCKLN12
CCK16-□, KM16-□	CKFN16-□	CKFN16-□C	CCKLN16
CCK20-□, CCNK20-□, KM20-□, NK20-□	CKFN20-□	CKFN20-□C	CCKLN20
CCK20-□, KM20-□	CKFN20-□	CKFN20-□C	CCKLN20
CCK25-□, CCNK25-□, KM25-□, NK25-□	CKFN25-□	CKFN25-□C	CCKLN25
CCK32-□, CCNK32-□, KM32-□, NK32-□	CKFN32T-□	CKFN32-□C	CCKLN32
CCK12-□, KM12-□	CKFN12-□	CKFN12-□C	CCKLN12
CCK16-□, KM16-□	CKFN16-□	CKFN16-□C	CCKLN16
CCK20-□, CCNK20-□, KM20-□, NK20-□	CKFN20-□	CKFN20-□C	CCKLN20
CCK25-□, CCNK25-□, KM25-□, NK25-□	CKFN25-□	CKFN25-□C	CCKLN25
CCK32-□, CCNK32-□, KM32-□, NK32-□	CKFN32-□	CKFN32-□C	CCKLN32
CCK42-□, KM42-□	CKFN42-□	CKFN42-□C	CCKLN42
CCK42-□, CCNK42-□, KM42-□, NK42-□	CKFN42-□	CKFN42-□C	CCKLN42
CCK12-□, KM12-□	CKFN12-□	CKFN12-□C	CCKLN12
CCK16-□, KM16-□	CKFN16-□	CKFN16-□C	CCKLN16
CCK20-□, CCNK20-□, KM20-□, NK20-□	CKFN20-□	CKFN20-□C	CCKLN20
CCK25-□, CCNK25-□, KM25-□, NK25-□	CKFN25-□	CKFN25-□C	CCKLN25
CCK32-□, KM32-□	CKFN32T-□	CKFN32-□C	CCKLN32
CCK32-□, CCNK32-□, KM32-□, NK32-□	CKFN32T-□	CKFN32-□C	CCKLN32
CCK12-□, KM12-□	CKFN12-□	CKFN12-□C	CCKLN12
CCK16-□, KM16-□	CKFN16-□	CKFN16-□C	CCKLN16
CCK20-□, CCNK20-□, KM20-□, NK20-□	CKFN20-□	CKFN20-□C	CCKLN20
CCK25-□, CCNK25-□, KM25-□, NK25-□	CKFN25-□	CKFN25-□C	CCKLN25
CCK32-□, CCNK32-□, KM32-□, NK32-□	CKFN32-□	CKFN32-□C	CCKLN32
CCK42-□, KM42-□	CKFN42-□	CKFN42-□C	CCKLN42
CCK42-□, CCNK42-□, KM42-□, NK42-□	CKFN42-□	CKFN42-□C	CCKLN42

IT Steilkegelschaft DIN69871

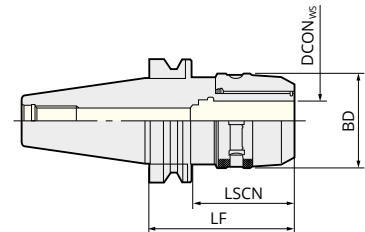
MULTI LOCK HIGH SPEED – IT / NIT / MIT



Multi Lock High Speed – IT



Multi Lock C12

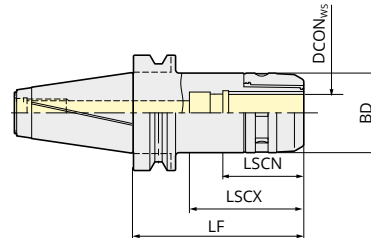


Multi Lock High Speed – NIT

Bezeichnung	LF	DCON _{ws}	LSCN	BD	Max. U/min	Rollenschlüssel
IT40X-C12-□	65G, 90G	2.0-12.0	40	33	30.000	GH12
IT40X-C16-□	60G, 90G	2.0-16.0	47.5	40	25.000	GH16
IT40X-C20-□	80G, 90G	2.0-20.0	53	48	25.000	GH20
IT40X-C25-85G	85G	3.0-25.0	59	55	20.000	GH25
IT40X-C32-□	95G, 105G	3.0-32.0	64.5	68	20.000	GH32
IT50X-C12-□	105G, 135G	2.0-12.0	40	33	20.000	GH12
IT50X-C16-□	105G, 135G	2.0-16.0	47.5	40	20.000	GH16
IT50X-C20-□	105G, 135G	2.0-20.0	53	48	20.000	GH20
IT50X-C25-□	105G, 135G	3.0-25.0	59	55	20.000	GH25
IT50X-C32-□	85G, 105G, 120G	3.0-32.0	64.5	68	15.000	GH32
IT50X-C42-□	95P, 105P	3.0-42.0	73-78	86	15.000	GH42
NIT40-C12-□	65G, 90G	2.0-12.0	40	33	30.000	GH12
NIT40-C16-□	60G, 90G	2.0-16.0	47.5	40	25.000	GH16
NIT40-C20-□	80G, 90G	2.0-20.0	53	48	25.000	GH20
NIT40-C25-85G	85G	3.0-25.0	59	55	20.000	GH25
NIT40-C32-□	95G, 105G	3.0-32.0	64.5	68	20.000	GH32
NIT50-C12-□	105G, 135G	2.0-12.0	40	33	20.000	GH12
NIT50-C16-□	105G, 135G	2.0-16.0	47.5	40	20.000	GH16
NIT50-C20-□	105G, 135G	2.0-20.0	53	48	20.000	GH20
NIT50-C25-□	105G, 135G	3.0-25.0	59	55	20.000	GH25
NIT50-C32-□	85G, 105G, 120G	3.0-32.0	64.5	68	15.000	GH32
NIT50-C42-□	95P, 105P	3.0-42.0	73-78	86	15.000	GH42
MIT40-C12-90G	90G	2.0-12.0	40	33	30.000	GH12
MIT40-C16-60G	60G	2.0-16.0	47.5	40	25.000	GH16
MIT40-C20-80G	80G	2.0-20.0	53	48	25.000	GH20
MIT40-C25-85G	85G	3.0-25.0	59	55	20.000	GH25
MIT40-C32-□	95G, 105G	3.0-32.0	64.5	68	20.000	GH32
MIT50-C12-105G	105G	2.0-12.0	40	33	20.000	GH12
MIT50-C16-105G	105G	2.0-16.0	47.5	40	20.000	GH16
MIT50-C20-105G	105G	2.0-20.0	53	48	20.000	GH20
MIT50-C25-105G	105G	3.0-25.0	59	55	20.000	GH25
MIT50-C32-□	90G, 105G, 120G	3.0-32.0	64.5	68	15.000	GH32
MIT50-C42-95P	95P	3.0-42.0	73-78	86	15.000	GH42



Multi Lock High Speed - MIT



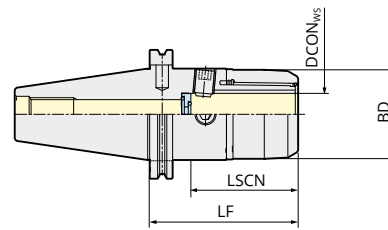
Spannzange	Jet Abdeckkappe	O-Ring Abdeckkappe	Anschlagschraube	Abdeckkappen-schlüssel
CCK12-□, KM12-□	CKFN12-□	CKFN12-□C	-	CCKLN12
CCK16-□, KM16-□	CKFN16-□	CKFN16-□C	-	CCKLN16
CCK20-□, CCNK20-□, KM20-□, NK20-□	CKFN20-□	CKFN20-□C	9MC20H	CCKLN20
CCK25-□, CCNK25-□, KM25-□, NK25-□	CKFN25-□	CKFN25-□C	9MC25H	CCKLN25
CCK32-□, CCNK32-□, KM32-□, NK32-□	CKFN32T-□	CKFN32-□C	9MC32H	CCKLN32
CCK12-□, KM12-□	CKFN12-□	CKFN12-□C	-	CCKLN-12
CCK16-□, KM16-□	CKFN16-□	CKFN16-□C	-	CCKLN16
CCK20-□, CCNK20-□, KM20-□, NK20-□	CKFN20-□	CKFN20-□C	9MC20H	CCKLN20
CCK25-□, CCNK25-□, KM25-□, NK25-□	CKFN25-□	CKFN25-□C	9MC25H	CCKLN25
CCK32-□, CCNK32-□, KM32-□, NK32-□	CKFN32-□	CKFN32-□C	9MC32H	CCKLN32
CCK42-□, CCNK42-□, KM42-□, NK42-□	CKFN42-□	CKFN42-□C	9MC42H	CCKLN42
CCK12-□, KM12-□	CKFN12-□	CKFN12-□C	-	CCKLN12
CCK16-□, KM16-□	CKFN16-□	CKFN16-□C	-	CCKLN16
CCK20-□, CCNK20-□, KM20-□, NK20-□	CKFN20-□	CKFN20-□C	9MC20H	CCKLN20
CCK25-□, CCNK25-□, KM25-□, NK25-□	CKFN25-□	CKFN25-□C	9MC25H	CCKLN25
CCK32-□, CCNK32-□, KM32-□, NK32-□	CKFN32T-□	CKFN32-□C	9MC32H	CCKLN32
CCK12-□, KM12-□	CKFN12-□	CKFN12-□C	-	CCKLN-12
CCK16-□, KM16-□	CKFN16-□	CKFN16-□C	-	CCKLN16
CCK20-□, CCNK20-□, KM20-□, NK20-□	CKFN20-□	CKFN20-□C	9MC20H	CCKLN20
CCK25-□, CCNK25-□, KM25-□, NK25-□	CKFN25-□	CKFN25-□C	9MC25H	CCKLN25
CCK32-□, CCNK32-□, KM32-□, NK32-□	CKFN32-□	CKFN32-□C	9MC32H	CCKLN32
CCK42-□, CCNK42-□, KM42-□, NK42-□	CKFN42-□	CKFN42-□C	9MC42H	CCKLN42
CCK12-□, KM12-□	CKFN12-□	CKFN12-□C	-	CCKLN12
CCK16-□, KM16-□	CKFN16-□	CKFN16-□C	-	CCKLN16
CCK20-□, CCNK20-□, KM20-□, NK20-□	CKFN20-□	CKFN20-□C	9MC20H	CCKLN20
CCK25-□, CCNK25-□, KM25-□, NK25-□	CKFN25-□	CKFN25-□C	9MC25H	CCKLN25
CCK32-□, CCNK32-□, KM32-□, NK32-□	CKFN32T-□	CKFN32-□C	9MC32H	CCKLN32
CCK12-□, KM12-□	CKFN12-□	CKFN12-□C	-	CCKLN-12
CCK16-□, KM16-□	CKFN16-□	CKFN16-□C	-	CCKLN16
CCK20-□, CCNK20-□, KM20-□, NK20-□	CKFN20-□	CKFN20-□C	9MC20H	CCKLN20
CCK25-□, CCNK25-□, KM25-□, NK25-□	CKFN25-□	CKFN25-□C	9MC25H	CCKLN25
CCK32-□, CCNK32-□, KM32-□, NK32-□	CKFN32-□	CKFN32-□C	9MC32H	CCKLN32
CCK42-□, CCNK42-□, KM42-□, NK42-□	CKFN42-□	CKFN42-□C	9MC42H	CCKLN42

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X-TREME - NIT50



X-Treme - NIT50



Bezeichnung	LF	DCON _{ws}	LSCN	BD	Max. U/min	Rollenschlüssel
NIT50-C12EX-96	96	12	57	40	15.000	GH16
NIT50-C16EX-106	106	16	67	48	10.000	GH20
NIT50-C20EX-106	106	20	70	55	8.000	GH25
NIT50-C25EX-111	111	25	76	55	8.000	GH25
NIT50-C32EX-116	116	32	82	68	6.000	GH32
NIT50-C42EX-126	126	42	85	86	7.000	9HC42

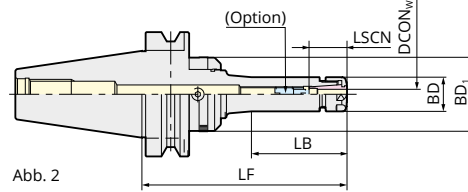
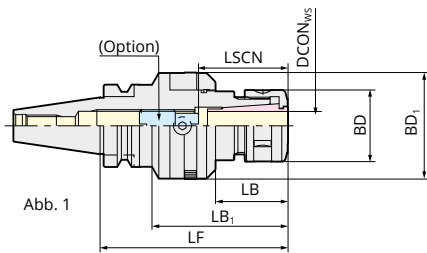
ZERO FIT SLIM CHUCK - IT / NIT



Zero Fit Slim Chuck - IT

Bezeichnung	LF	DCON _{ws}	LSCN	LB	LB ₁	BD	BD ₁	Max. U/min
IT40-SZF6-□	90, 150	0.7-6.0	21-35	45, 89	-	19.5	40.5	15.000
IT40-SZF10-□	120, 150	1.75-10.0	30-50	57, 87	-	27.5	48.5	15.000
IT40-SZF16-□	120, 150	2.75-16.0	45-65	51, 81	-	40	59.5	12.000
IT40-SZF25-□	120, 150	7.5-25.4	55-85	49, 79	85, 115	55	66.5	10.000
IT50-SZF6-□	105, 165	0.7-6.0	21-35	60, 67	-	19.5	40.5, 59.5	15.000
IT50-SZF10-□	105, 165	1.75-10.0	30-50	60, 65	-	27.5	48.5, 59.5	15.000
IT50-SZF16-□	105, 165	2.75-16.0	45-65	60, 120	-	40	59.5	12.000
IT50-SZF25-□	120, 165	7.5-25.4	55-85	75, 120	-	55	66.5	10.000
NIT40-SZF6C-□	90, 150	0.7-6.0	21-35	37, 60	-	19.5	40.5, 48.5	15.000
NIT40-SZF10C-□	90, 150	1.75-10.0	30-50	37, 97	-	27.5	48.5	15.000
NIT40-SZF16C-□	90, 150	2.75-16.0	45-65	37, 97	-	40	59.5	12.000
NIT40-SZF25C-□	120, 150	7.5-25.4	55-85	55, 86	84, 114	55	66.5	10.000
NIT50-SZF6C-□	105, 165	0.7-6.0	21-35	41, 63	-	19.5	40.5, 59.5	15.000
NIT50-SZF10C-□	105, 165	1.75-10.0	30-50	41, 101	-	27.5	48.5	15.000
NIT50-SZF16C-□	105, 165	2.75-16.0	45-65	41, 101	-	40	59.5	12.000
NIT50-SZF25C-□	135, 165	7.5-25.4	55-85	71, 101	-	55	66.5	10.000

Anschlagscheibe mit O-Ring		Frontscheibe		Anschlagscheibe mit Jet		Frontscheibe mit Jet	
9MC12HEX-6L		9C12SL-FS-EX-A1		9MC12HEX-6L-J		9C12SL-FS-EX-A-J1	
9MC16HEX-6.5L		9C16SL-FS-EX-A1		9MC16HEX-6.5L-J		9C16SL-FS-EX-A-J1	
9MC20HEX-12L		9C20-FS-EX-A1		9MC20HEX-12L-J		9C20-FS-EX-A-J1	
9MC25HEX-6.2L		9C25SL-FS-EX-A1		9MC25HEX-6.2L-J		9C25SL-FS-EX-A-J1	
9MC32HEX-7L		9C32SL-FS-EX-A1		9MC32HEX-7L-J		9C32SL-FS-EX-A-J1	
9MC42HEX-9L		9C42SL-FS-EX-A1		9MC42HEX-9L-J		9C42SL-FS-EX-A-J1	



Spannschlüssel	Spannzange	Anschlagsschraube	TiN Spannmutter (Standard)	Jet Typ Spannmutter	Jet Abdeckkappe	O-Ring Abdeckkappe	Abdeckkappenschlüssel	Abb.
SKL-6W	SK6-□	SKG-8	SKN-6WK	SKN-6WKJ	SKJ6-□	SKJ6-□C	SKJL-6	2
SKL-10	SK10-□	SKG-12L	SKN-10K	SKN-10KJ	SKJ10-□	SKJ10-□C	SKJL-10	2
9HC16	SK16-□	SKG-18L	SKN-16B	SKN-16BJ	SKJ16-□	SKJ16-□C	SKJL-16	2
9HC25	SK25-□	SKG-28	SKN-25B	SKN-25BJ	SKJ25-□	SKJ25-□C	SKJL-25	1
SKL-6W	SK6-□	SKG-8	SKN-6WK	SKN-6WKJ	SKJ6-□	SKJ6-□C	SKJL-6	2
SKL-10	SK10-□	SKG-12L	SKN-10K	SKN-10KJ	SKJ10-□	SKJ10-□C	SKJL-10	2
9HC16	SK16-□	SKG-18L	SKN-16B	SKN-16BJ	SKJ16-□	SKJ16-□C	SKJL-16	2
9HC25	SK25-□	SKG-28	SKN-25B	SKN-25BJ	SKJ25-□	SKJ25-□C	SKJL-25	2
SKL-6W	SK6-□	SKG-8	SKN-6WK	SKN-6WKJ	SKJ6-□	SKJ6-□C	SKJL-6	2
SKL-10	SK10-□	SKG-12L	SKN-10K	SKN-10KJ	SKJ10-□	SKJ10-□C	SKJL-10	2
9HC16	SK16-□	SKG-18L	SKN-16B	SKN-16BJ	SKJ16-□	SKJ16-□C	SKJL-16	2
9HC25	SK25-□	SKG-28	SKN-25B	SKN-25BJ	SKJ25-□	SKJ25-□C	SKJL-25	1
SKL-6W	SK6-□	SKG-8	SKN-6WK	SKN-6WKJ	SKJ6-□	SKJ6-□C	SKJL-6	2
SKL-10	SK10-□	SKG-12L	SKN-10K	SKN-10KJ	SKJ10-□	SKJ10-□C	SKJL-10	2
9HC16	SK16-□	SKG-18L	SKN-16B	SKN-16BJ	SKJ16-□	SKJ16-□C	SKJL-16	2
9HC25	SK25-□	SKG-28	SKN-25B	SKN-25BJ	SKJ25-□	SKJ25-□C	SKJL-25	2

IT Steilkegelschaft DIN69871

ZERO FIT MULTI LOCK - IT / NIT



Zero Fit Multi Lock - IT

Bezeichnung	LF	DCON _{WS}	LSCN	LSCX	LB	LB ₁	BD	BD ₁	Max. U/min
IT40-CZF20-105	105	2.0-20.0	53	80	35	70	51.5	66.5	7.000
IT40-CZF25-105	105	3.0-25.0	59	80	35	70	59.5	47.5	8.000
IT40-CZF32-120	120	3.0-32.0	64.5	105	42	85	69	80.5	6.000
IT50-CZF20-105	105	2.0-20.0	53	80	35	-	51.5	66.5	8.000
IT50-CZF25-105	105	3.0-25.0	59	80	35	-	59.5	74.5	8.000
IT50-CZF32-120	120	3.0-32.0	64.5	105	42	-	69	80.5	6.000
NIT40-CZF20-□	105, 120	2.0-20.0	53	80	35	64.5	51.5	66.5	7.000
NIT40-CZF25-□	105, 120	3.0-25.0	59	80	35	68	59.5	47.5	6.000
NIT40-CZF32-120	120	3.0-32.0	64.5	105	42	78	69	80.5	6.000
NIT50-CZF20-□	105, 165	2.0-20.0	53	80	35	-	51.5	66.5	8.000
NIT50-CZF25-□	105, 165	3.0-25.0	59	80	35	-	59.5	74.5	8.000
NIT50-CZF32-□	105, 165	3.0-32.0	64.5	105	42	-	69	80.5	6.000

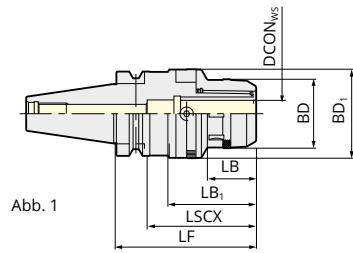


Abb. 1

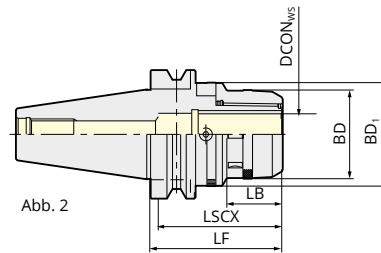


Abb. 2

Spannschlüssel	Spannzange	Jet Abdeckkappe	O-Ring Abdeckkappe	Abdeckkappenschlüssel	Abb.
9HC22	CCK20-□, KM20-□	CKFN20-□	CKFN20-□C	CCKLN20	1
9HC25	CCK25-□, KM25-□	CKFN25-□	CKFN25-□C	CCKLN25	1
9HC32	CCK32-□, KM32-□	CKFN32-□	CKFN32-□C	CCKLN32	1
9HC22	CCK20-□, KM20-□	CKFN20-□	CKFN20-□C	CCKLN20	2
9HC25	CCK25-□, KM25-□	CKFN25-□	CKFN25-□C	CCKLN25	2
9HC32	CCK32-□, KM32-□	CKFN32-□	CKFN32-□C	CCKLN32	2
9HC22	CCK20-□, KM20-□	CKFN20-□	CKFN20-□C	CCKLN20	1
9HC25	CCK25-□, KM25-□	CKFN25-□	CKFN25-□C	CCKLN25	1
9HC32	CCK32-□, KM32-□	CKFN32-□	CKFN32-□C	CCKLN32	1
9HC22	CCK20-□, KM20-□	CKFN20-□	CKFN20-□C	CCKLN20	2
9HC25	CCK25-□, KM25-□	CKFN25-□	CKFN25-□C	CCKLN25	2
9HC32	CCK32-□, KM32-□	CKFN32-□	CKFN32-□C	CCKLN32	2

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MODULARE GRUNDHALTER IT / NIT / MIT (SK)



Modulare Grundhalter - IT, NIT

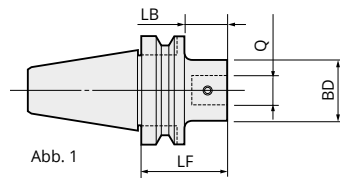


Abb. 1

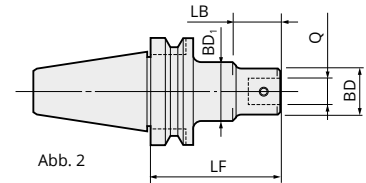


Abb. 2

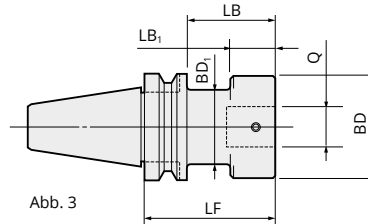


Abb. 3

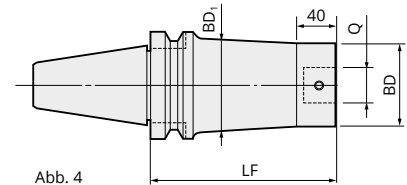


Abb. 4

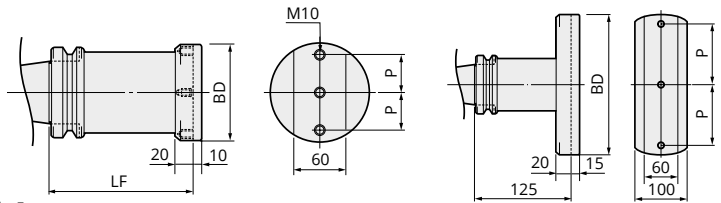
Bezeichnung	LF	LB	LB ₁	Q	BD	BD ₁	LU	Gewicht (kg)	Abb.
IT40-Q9-80	80	5	-	9	19	30	45	1.2	2
IT40-Q9-95N	95	27	-	9	19	30	67	1.2	2
IT40-Q12-80	80	12	-	12	24	35	52	1.2	2
IT40-Q12-110	10	50	-	12	24	35	90	1.3	2
IT40-Q16-95	95	22	-	16	31	42	77	1.5	2
IT40-Q16-125	125	55	-	16	31	42	110	1.6	2
IT40-Q20-80	80	27	-	20	40	50	107	1.5	2
IT40-Q20-110	110	60	-	20	40	50	150	1.7	2
IT40-Q26-50	50	20	-	26	50	-	90	1.1	1
IT40-Q26-95	95	65	-	26	50	-	135	1.8	1
IT40-Q26-140	140	110	-	26	50	-	180	2.4	1
IT40-Q34-95	95	68	55	34	64	62	138	2.2	3
IT40-Q34-110	110	83	70	34	64	62	153	2.6	3
IT40-Q42-95	95	68	55	42	83	62	168	2.8	3
IT50-Q9-110	110	5	-	9	19	40	45	4.1	2
IT50-Q9-125N	125	27	-	9	19	40	67	4.1	2
IT50-Q12-95	95	12	-	12	24	44	52	4	2
IT50-Q12-125	125	50	-	12	24	44	90	4	2
IT50-Q16-125N	125	22	-	16	31	50	62	4.5	2
IT50-Q16-155	155	55	-	16	31	50	95	4.6	2
IT50-Q20-110	110	27	-	20	40	60	67	4.6	2
IT50-Q20-125	125	60	-	20	40	60	100	4.5	2
IT50-Q26-65	65	27	-	26	50	65	97	3.7	1
IT50-Q26-140	140	47	-	26	50	65	117	5.3	2
IT50-Q26-170N	170	112	-	26	50	65	182	5.4	2
IT50-Q26-140	140	102	-	34	64	80	172	5.6	1
IT50-Q34-170	170	120	-	34	64	80	190	6.5	2
IT50-Q34-200	200	150	-	34	64	80	220	7.1	2
IT50-Q42-125	125	87	-	42	83	-	187	6.5	1
IT50-Q42-190	190	152	-	42	83	-	252	9.1	1
IT50-Q42-225A	225	-	-	42	83	98	-	12.9	4
IT40-RAK-130A-C	205	-	-	-	-	-	205	7.0-8.0	5
IT50-RAK-110A	110	-	-	-	-	-	185	9.8	5
IT50-RAK-160A	160	-	-	-	-	-	235	12.5	5
IT50-RAK-210A	210	-	-	-	-	-	285	15.2	5
IT50-RAK-260A	260	-	-	-	-	-	335	17.9	5



Modulare Grundhalter RAK – IT / NIT / MIT



Abb. 5



Bezeichnung	LF	LB	LB ₁	Q	BD	BD ₁	LU	Gewicht (kg)	Abb.
IT50-RAK-310A	310	-	-	-	-	-	385	20.6	5
IT50-RAK-360A	360	-	-	-	-	-	435	23.3	5
IT50-RAK-410A	410	-	-	-	-	-	485	26	5
IT50-RAK330-135	220	-	-	-	-	-	220	16.7-18.7	5
NIT40-Q9-80	80	5	-	9	19	30	45	1.2	2
NIT40-Q9-95N	95	27	-	9	19	30	67	1.2	2
NIT40-Q12-80	80	12	-	12	24	35	52	1.2	2
NIT40-Q12-110	10	50	-	12	24	35	90	1.3	2
NIT40-Q16-95	95	22	-	16	31	42	77	1.5	2
NIT40-Q16-125	§	55	-	16	31	42	110	1.6	2
NIT40-Q20-80	80	27	-	20	40	50	107	1.5	2
NIT40-Q20-110	110	60	-	20	40	50	150	1.7	2
NIT40-Q26-50	50	20	-	26	50	-	90	1.1	1
NIT40-Q26-95	95	65	-	26	50	-	135	1.8	1
NIT40-Q26-140	140	110	-	26	50	-	180	2.4	1
NIT40-Q34-95	95	68	55	34	64	62	138	2.2	3
NIT40-Q34-110	110	83	70	34	64	62	153	2.6	3
NIT40-Q42-95	95	68	55	42	83	62	168	2.8	3
NIT40N-MDQ26-65	65	-	-	26	50	-	100	1.3	-
NIT50-Q9-110	110	5	-	9	19	40	45	4.1	2
NIT50-Q9-125N	125	27	-	9	19	40	67	4.1	2
NIT50-Q12-95	95	12	-	12	24	44	52	4	2
NIT50-Q12-125	125	50	-	12	24	44	90	4	2
NIT50-Q16-125N	125	22	-	16	31	50	62	4.5	2
NIT50-Q16-155	155	55	-	16	31	50	95	4.6	2
NIT50-Q20-110	110	27	-	20	40	60	67	4.6	2
NIT50-Q20-125	125	60	-	20	40	60	100	4.5	2
NIT50-Q26-65	65	27	-	26	50	65	97	3.7	1
NIT50-Q26-140	140	47	-	26	50	65	117	5.3	2
NIT50-Q26-170N	170	112	-	26	50	65	182	5.4	2
NIT50-Q34-140	140	102	-	34	64	80	172	5.6	1
NIT50-Q34-170	170	120	-	34	64	80	190	6.5	2
NIT50-Q34-200	200	150	-	34	64	80	220	7.1	2
NIT50-Q42-125	125	87	-	42	83	-	187	6.5	1
NIT50-Q42-190	190	152	-	42	83	-	252	9.1	1
NIT50-Q42-225A	225	-	-	42	83	98	-	12.9	4

IT Steilkegelschaft DIN69871



Modulare Grundhalter – IT, NIT

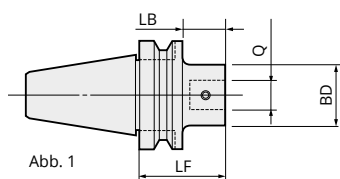


Abb. 1

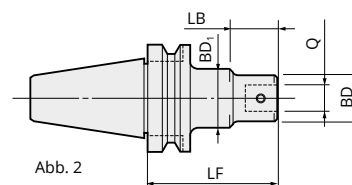


Abb. 2

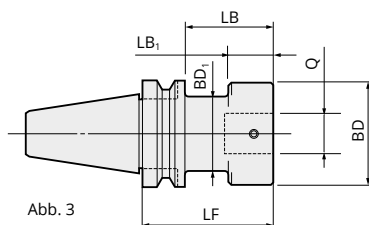


Abb. 3

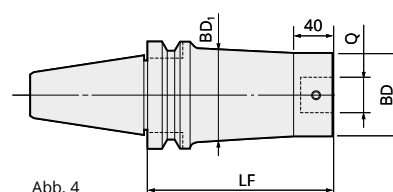


Abb. 4



Modulare Grundhalter – MIT

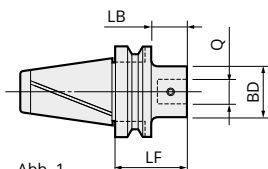


Abb. 1

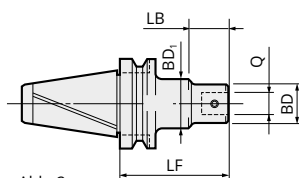


Abb. 2

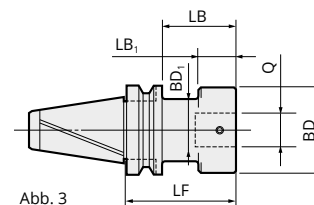


Abb. 3

Bezeichnung	LF	LB	LB ₁	Q	BD	BD ₁	LU	Gewicht (kg)	Abb.
NIT50-Q42-275A	275	-	-	42	83	98	-	15.6	4
NIT50-Q42-325A	325	-	-	42	83	98	-	18.3	4
NIT50-Q42-375A	375	-	-	42	83	98	-	21	4
NIT50-MDQ26-80	80	-	-	26	50	-	82	4.6	-
NIT50-MDQ34-90	90	-	-	34	64	-	-	4.9	-
NIT50-MDQ42-100	100	-	-	42	83	-	-	5.7	-
NIT40-RAK-130A-C	130	-	-	-	-	-	210	6.8-7.8	5
NIT50-RAK-110A-C	110	-	-	-	-	-	185	11.3-15.8	5
NIT50-RAK-160A-C	160	-	-	-	-	-	235	11.8-16.3	5
NIT50-RAK-210A-C	210	-	-	-	-	-	285	12.3-16.8	5
NIT50-RAK30-135	220	-	-	-	-	-	385	12.8-17.3	5
MIT40-Q26-50	50	20	-	26	50	-	90	1.1	1
MIT40-Q26-95	95	65	-	26	50	-	135	1.8	1
MIT40-Q26-140	140	110	-	26	50	-	180	2.4	1
MIT40-Q34-95	95	68	55	34	64	55	138	2.2	3
MIT40-Q34-110	110	83	70	34	64	70	153	2.6	3
MIT40-Q42-95	95	68	55	42	83	55	138	2.8	3
MIT40-RAK-130A	130	-	-	-	-	-	205	6.8-7.8	6



Modulare Grundhalter RAK – IT / NIT / MIT

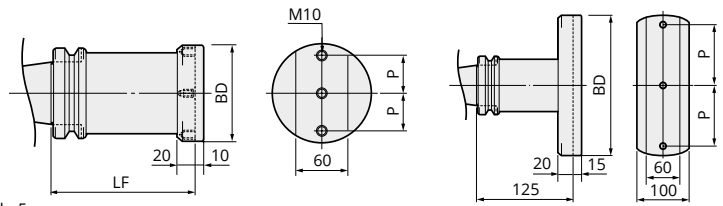


Abb. 5



Modulare Grundhalter RAK – MIT

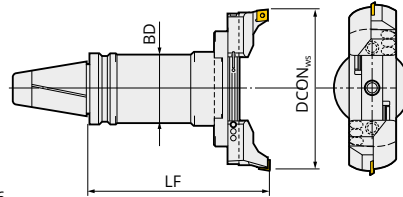


Abb. 6

Bezeichnung	LF	LB	LB ₁	Q	BD	BD ₁	LU	Gewicht (kg)	Abb.
MIT50-Q26-65	65	27	-	26	50	-	97	3.7	1
MIT50-Q26-140	140	47	-	26	50	-	117	5.3	1
MIT50-Q26-170N	170	112	-	26	50	-	182	5.4	1
MIT50-Q34-140	140	102	-	34	64	-	-	5.6	2
MIT50-Q34-170	170	120	-	34	64	-	-	6.5	2
MIT50-Q42-125	200	150	-	34	64	-	-	7.1	2
MIT50-Q42-190	125	87	-	42	83	-	-	6.5	1
MIT50-Q42-300	190	152	-	42	83	-	-	9.1	1
MIT50-RAK-110A	110	-	-	-	-	-	185	11.3-15.8	6
MIT50-RAK-160A	160	-	-	-	-	-	235	11.8-16.8	6
MIT50-RAK-210A	210	-	-	-	-	-	285	12.8-17.3	6
MIT50-RAK330-125	125	-	-	-	125	-	220	15.5-19.5	6

BT JIS B6339 / MAS 403

SLIM CHUCK STANDARD – BT / NBT / MBT



Slim Chuck Standard – BT

Bezeichnung	LF	DCON _{WS}	LSCN	LB	LB ₁	BD	BD ₁
BT30-SK6-□	60, 90, 120	0.7-6.0	21-35	33, 56, 62	33, 65, 95	19.5	19.5, 32, 32
BT30-SK10-45	45	1.75-10.0	30-50	22	-	27.5	-
BT30-SK10-□	60, 75, 90, 120	1.75-10.0	30-50	35, 50, 65, 95	-	27.5	-
BT30-SK13-60	60	2.75-13.0	31-50	35	-	33	-
BT30-SK13-□	75, 90, 120	2.75-13.0	31-65	50, 65, 95	-	33	-
BT30-SK16-60	60	2.75-16.0	45-60	37	-	40	-
BT30-SK16-75	75	2.75-16.0	45-65	52	-	40	-
BT30-SK16-90	90	2.75-16.0	45-65	67	-	40	-
BT30-SK16-120	120	2.75-16.0	40-70	97	-	40	-
BT30-SK20-60	60	3.5-20.0	65-70	37	-	48.5	-
BT30-SK20-75	75	3.5-20.0	70-75	52	-	48.5	-
BT30-SK20-90	90	3.5-20.0	65-75	67	-	48.5	-
BT30-SK25-90	90	7.5-25.4	55-75	67	-	55	-
BT40-SK6-□	60, 90, 120, 150	0.7-6.0	21-35	30, 51, 60, 60	30, 60, 90, 120	19.5	19.5, 32, 32, 25
BT40-SK10-□	60, 75, 90, 120	1.75-10.0	30-50	32, 45, 48, 73	32, 45, 60, 90	27.5	27.5, 27.5, 40, 40
BT40-SK10-□	150, 180	1.75-10.0	30-50	73, 73	118, 148	27.5	34.5, 39
BT40-SK10-□	200, 250	1.75-10.0	30-50	73, 73	168, 218	27.5	39
BT40-SK13-□	60, 75, 90, 120	2.75-13.0	31-65	28, 43, 58, 88	-	33	-
BT40-SK13-□	150, 180	2.75-13.0	31-65	88, 88	118, 148	33	40
BT40-SK13-□	200, 250	2.75-13.0	31-65	88, 88	168, 218	33	40
BT40-SK16-60	60	2.75-16.0	50-65	32	-	40	-
BT40-SK16-75	75	2.75-16.0	40-67	43	-	40	-
BT40-SK16-□	90, 120, 150	2.75-16.0	45-60	58, 88, 118	-	40	-
BT40-SK16-180	180	2.75-16.0	45-60	148	-	40	-
BT40-SK16-□	200, 250	2.75-16.0	45-60	168, 218	-	40	-
BT40-SK20-60	60	3.5-20.0	47-60	32	-	48.5	-
BT40-SK20-75	75	3.5-20.0	47-70	45	-	48.5	-
BT40-SK20-□	90, 120	3.5-20.0	47-80	60, 90	-	48.5	-
BT40-SK25-75	75	7.5-25.4	55-75	47	-	55	-
BT40-SK25-90	90	7.5-25.4	55-75	61	-	55	-
BT40-SK25-120	120	7.5-25.4	55-85	91	-	55	-
BT50-SK6-□	105, 135	0.7-6.0	21-35	55, 60	64, 92	19.5	32
BT50-SK6-□	165, 200	0.7-6.0	21-35	60, 60	114, 151	19.5	32, 30
BT50-SK10-□	105, 135	1.75-10.0	30-50	57, 70	57, 92	27.5	27.5, 32
BT50-SK10-□	165, 200	1.75-10.0	30-50	75, 75	114, 151	27.5	32, 36
BT50-SK10-□	225, 250, 300	1.75-10.0	30-50	75, 75, 75	178, 203, 253	27.5	40, 40, 60
BT50-SK13-□	105, 135	2.75-13.0	31-65	62, 92	-	33	-
BT50-SK13-□	165, 200	2.75-13.0	31-65	92, 92	122, 157	33	45
BT50-SK13-□	250, 300	2.75-13.0	31-65	92, 92	207, 257	33	45
BT50-SK16-□	105, 135	2.75-16.0	45-70	62, 92	-	40	-
BT50-SK16-□	165, 200	2.75-16.0	45-70	90, 90	122, 157	40	50, 52
BT50-SK16-□	250, 300	2.75-16.0	45-70	90, 90	207, 257	40	52, 60
BT50-SK20-□	105, 135	3.5-20.0	47-80	62, 92	-	48.5	-
BT50-SK20-□	165, 200	3.5-20.0	47-80	122, 157	-	48.5	-

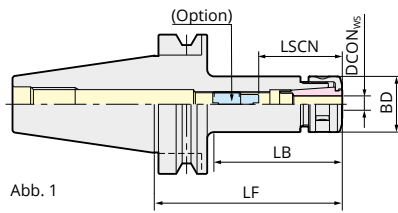


Abb. 1

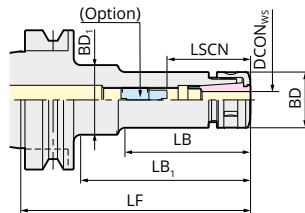


Abb. 2

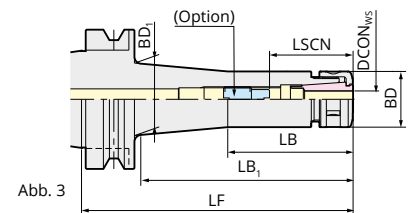


Abb. 3

Max. U/min	Rollenschlüssel	Spannzange	Anschlagsschraube	TiN Spannmutter (Standard)	Jet Typ Spannmutter	Jet Abdeckkappe	O-Ring Abdeckkappe	Abdeckkappenschlüssel	Abb.
15.000	SKL-6W	SK6-□	SKG-8	SKN-6WK	SKN-6WKJ	SKJ6-□	SKJ6-□C	SKJL-6	1, 2, 2
15.000	SKL-10	SK10-□	SKG-12S	SKN-10K	SKN-10KJ	SKJ10-□	SKJ10-□C	SKJL-10	1
15.000	SKL-10	SK10-□	SKG-12L	SKN-10K	SKN-10KJ	SKJ10-□	SKJ10-□C	SKJL-10	1
12.000	9HC12A	SK13-□	SKG-15	SKN-13B	SKN-13BJ	SKJ16-□	SKJ16-□C	SKJL-16	1
12.000	9HC12A	SK13-□	SKG-15	SKN-13B	SKN-13BJ	SKJ16-□	SKJ16-□C	SKJL-16	1
10.000	9HC16	SK16-□	SKG-12L	SKN-16B	SKN-16BJ	SKJ16-□	SKJ16-□C	SKJL-16	1
10.000	9HC16	SK16-□	SKG-12L	SKN-16B	SKN-16BJ	SKJ16-□	SKJ16-□C	SKJL-16	1
10.000	9HC16	SK16-□	SKG-12	SKN-16B	SKN-16BJ	SKJ16-□	SKJ16-□C	SKJL-16	1
10.000	9HC16	SK16-□	SKG-18L	SKN-16B	SKN-16BJ	SKJ16-□	SKJ16-□C	SKJL-16	1
10.000	9HC22	SK20-□	SKG-12S	SKN-20B	SKN-20BJ	SKJ25-□	SKJ25-□C	SKJL-25	1
10.000	9HC22	SK20-□	SKG-12L	SKN-20B	SKN-20BJ	SKJ25-□	SKJ25-□C	SKJL-25	1
10.000	9HC22	SK20-□	SKG-12	SKN-20B	SKN-20BJ	SKJ25-□	SKJ25-□C	SKJL-25	1
10.000	9HC25	SK25-□	SKG-12	SKN-25B	SKN-25BJ	SKJ25-□	SKJ25-□C	SKJL-25	1
15.000	SKL-6W	SK6-□	SKG-8	SKN-6WK	SKN-6WKJ	SKJ6-□	SKJ6-□C	SKJL-6	1, 2, 2, 3
15.000	SKL-10	SK10-□	SKG-12L	SKN-10K	SKN-10KJ	SKJ10-□	SKJ10-□C	SKJL-10	1, 1, 2, 2
12.000	SKL-10	SK10-□	SKG-12L	SKN-10K	SKN-10KJ	SKJ10-□	SKJ10-□C	SKJL-10	3
10.000	SKL-10	SK10-□	SKG-12L	SKN-10K	SKN-10KJ	SKJ10-□	SKJ10-□C	SKJL-10	3
12.000	9HC12A	SK13-□	SKG-15	SKN-13B	SKN-13BJ	SKJ16-□	SKJ16-□C	SKJL-16	1
10.000	9HC12A	SK13-□	SKG-15	SKN-13B	SKN-13BJ	SKJ16-□	SKJ16-□C	SKJL-16	3
8.000	9HC12A	SK13-□	SKG-15	SKN-13B	SKN-13BJ	SKJ16-□	SKJ16-□C	SKJL-16	3
12.000	9HC16	SK16-□	SKG-18S	SKN-16B	SKN-16BJ	SKJ16-□	SKJ16-□C	SKJL-16	1
12.000	9HC16	SK16-□	SKG-18L	SKN-16B	SKN-16BJ	SKJ16-□	SKJ16-□C	SKJL-16	1
12.000	9HC16	SK16-□	SKG-18L	SKN-16B	SKN-16BJ	SKJ16-□	SKJ16-□C	SKJL-16	1
10.000	9HC16	SK16-□	SKG-18L	SKN-16B	SKN-16BJ	SKJ16-□	SKJ16-□C	SKJL-16	1
8.000	9HC16	SK16-□	SKG-18L	SKN-16B	SKN-16BJ	SKJ16-□	SKJ16-□C	SKJL-16	1
12.000	9HC22	SK20-□	SKG-22	SKN-20B	SKN-20BJ	SKJ25-□	SKJ25-□C	SKJL-25	1
12.000	9HC22	SK20-□	SKG-22	SKN-20B	SKN-20BJ	SKJ25-□	SKJ25-□C	SKJL-25	1
12.000	9HC22	SK20-□	SKG-22	SKN-20B	SKN-20BJ	SKJ25-□	SKJ25-□C	SKJL-25	1
12.000	9HC25	SK25-□	SKG-12	SKN-25B	SKN-25BJ	SKJ25-□	SKJ25-□C	SKJL-25	1
12.000	9HC25	SK25-□	SKG-28	SKN-25B	SKN-25BJ	SKJ25-□	SKJ25-□C	SKJL-25	1
12.000	9HC25	SK25-□	SKG-28	SKN-25B	SKN-25BJ	SKJ25-□	SKJ25-□C	SKJL-25	1
15.000	SKL-6W	SK6-□	SKG-8	SKN-6WK	SKN-6WKJ	SKJ6-□	SKJ6-□C	SKJL-6	2
12.000	SKL-6W	SK6-□	SKG-8	SKN-6WK	SKN-6WKJ	SKJ6-□	SKJ6-□C	SKJL-6	2, 3
15.000	SKL-10	SK10-□	SKG-12L	SKN-10K	SKN-10KJ	SKJ10-□	SKJ10-□C	SKJL-10	1, 2
12.000	SKL-10	SK10-□	SKG-12L	SKN-10K	SKN-10KJ	SKJ10-□	SKJ10-□C	SKJL-10	2, 3
10.000	SKL-10	SK10-□	SKG-12L	SKN-10K	SKN-10KJ	SKJ10-□	SKJ10-□C	SKJL-10	3
12.000	9HC12A	SK13-□	SKG-15	SKN-13B	SKN-13BJ	SKJ16-□	SKJ16-□C	SKJL-16	1
10.000	9HC12A	SK13-□	SKG-15	SKN-13B	SKN-13BJ	SKJ16-□	SKJ16-□C	SKJL-16	2, 3
8.000	9HC12A	SK13-□	SKG-15	SKN-13B	SKN-13BJ	SKJ16-□	SKJ16-□C	SKJL-16	3
12.000	9HC16	SK16-□	SKG-18L	SKN-16B	SKN-16BJ	SKJ16-□	SKJ16-□C	SKJL-16	1
10.000	9HC16	SK16-□	SKG-18L	SKN-16B	SKN-16BJ	SKJ16-□	SKJ16-□C	SKJL-16	2, 3
8.000	9HC16	SK16-□	SKG-18L	SKN-16B	SKN-16BJ	SKJ16-□	SKJ16-□C	SKJL-16	3
12.000	9HC22	SK20-□	SKG-22	SKN-20B	SKN-20BJ	SKJ25-□	SKJ25-□C	SKJL-25	1
10.000	9HC22	SK20-□	SKG-22	SKN-20B	SKN-20BJ	SKJ25-□	SKJ25-□C	SKJL-25	1

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Slim Chuck Standard – BT, NBT

Bezeichnung	LF	DCON _{WS}	LSCN	LB	LB ₁	BD	BD ₁
BT50-SK20-□	250, 300	3.5-20.0	47-80	207, 257	-	48.5	-
BT50-SK25-□	105, 135	7.5-25.4	50-85	62, 92	-	55	-
BT50-SK25-□	165, 200	7.5-25.4	50-85	122, 157	-	55	-
BT50-SK25-□	250, 300	7.5-25.4	50-85	207, 257	-	55	-
NBT30-SK6C-□	60, 90, 120	0.7-6.0	26-31	33, 56, 62	33, 65, 95	19.5	19.5, 32, 32
NBT30-SK10C-□	45, 60, 75, 90, 120	1.75-10.0	33-41	22, 35, 50, 65, 95	-	27.5	-
NBT30-SK13C-□	60, 75, 90, 120	2.75-13.0	39-51	35, 50, 65, 95	-	33	-
NBT30-SK16C-60	60	2.75-16.0	47-52	37	-	40	-
NBT30-SK16C-75	75	2.75-16.0	45-52	52	-	40	-
NBT30-SK16C-□	90, 120	2.75-16.0	45-57	67, 97	-	40	-
NBT30-SK20-60	60	3.5-20.0	65-70	37	-	48.5	-
NBT30-SK20C-75	75	3.5-20.0	55-55	52	-	48.5	-
NBT30-SK20C-90	90	3.5-20.0	47-63	67	-	48.5	-
NBT30-SK25-90	90	7.5-25.4	55-75	67	-	55	-
NBT40-SK6C-□	60, 90, 120, 150	0.7-6.0	26-31	30, 51, 60, 60	30, 60, 90, 120	19.5	19.5, 32, 32, 25
NBT40-SK10C-□	60, 75, 90, 120	1.75-10.0	33-41	32, 45, 48, 75	32, 45, 60, 90	27.5	27.5, 27.5, 40, 40
NBT40-SK10C-□	150, 180	1.75-10.0	33-41	75	118, 148	27.5	34.5, 39
NBT40-SK10C-□	200, 250	1.75-10.0	33-41	75	168, 218	27.5	39
NBT40-SK13C-□	60, 75, 90, 120	2.75-13.0	39-51	28, 43, 58, 88	-	33	-
NBT40-SK13C-□	150, 180	2.75-13.0	39-51	88	118, 148	33	40
NBT40-SK13C-□	200, 250	2.75-13.0	39-51	88	168, 218	33	40
NBT40-SK16C-60	60	2.75-16.0	45-52	32	-	40	-
NBT40-SK16C-□	75, 90, 120, 150	2.75-16.0	45-57	43, 58, 88, 118	-	40	-
NBT40-SK16C-180	180	2.75-16.0	45-57	148	-	40	-
NBT40-SK16C-□	200, 250	2.75-16.0	45-57	168, 218	-	40	-
NBT40-SK20C-60	60	3.5-20.0	57-63	32	-	48.5	-
NBT40-SK20C-□	75, 90, 120	3.5-20.0	47-63	45, 60, 90	-	48.5	-
NBT40-SK25C-75	75	7.5-25.4	60-65	47	-	55	-
NBT40-SK25C-90	90	7.5-25.4	60-65	61	-	55	-
NBT40-SK25C-120	120	7.5-25.4	60-70	91	-	55	-
NBT50-SK6C-□	105, 135	0.7-6.0	26-31	55, 60	64, 92	19.5	32, 32
NBT50-SK6C-□	165, 200	0.7-6.0	26-31	60	114, 151	19.5	32, 30
NBT50-SK10C-□	105, 135	1.75-10.0	33-41	57, 70	57, 92	27.5	27.5, 32
NBT50-SK10C-□	165, 200	1.75-10.0	33-41	75	114, 151	27.5	32, 36
NBT50-SK10C-□	225, 250, 300	1.75-10.0	33-41	75	178, 207, 257	27.5	40, 40, 60
NBT50-SK13C-□	105, 135	2.75-13.0	39-51	62, 92	-	33	-
NBT50-SK13C-□	165, 200	2.75-13.0	39-51	92	122, 157	33	45
NBT50-SK13C-□	250, 300	2.75-13.0	39-51	92	207, 257	33	45
NBT50-SK16C-□	105, 135	2.75-16.0	45-57	62, 92	-	40	-
NBT50-SK16C-□	165, 200	2.75-16.0	45-57	90	122, 157	40	50, 52
NBT50-SK16C-□	250, 300	2.75-16.0	45-57	90	207, 257	40	52, 60
NBT50-SK20C-□	105, 135	3.5-20.0	47-63	62, 92	-	48.5	-
NBT50-SK20C-□	165, 200	3.5-20.0	47-63	122, 157	-	48.5	-
NBT50-SK20C-□	250, 300	3.5-20.0	47-63	207, 257	-	48.5	-

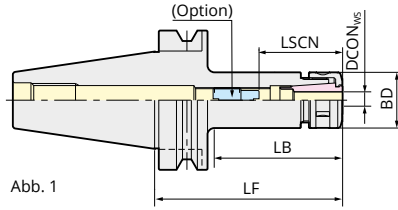


Abb. 1

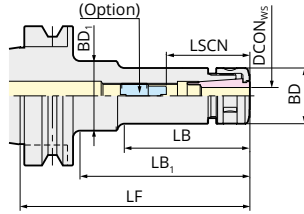


Abb. 2

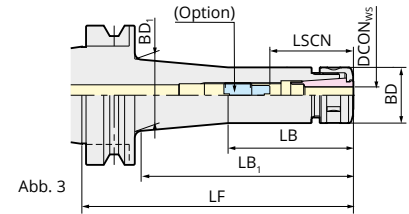


Abb. 3

Max. U/min	Rollenschlüssel	Spannzange	Anschlagsschraube	TiN Spannmutter (Standard)	Jet Typ Spannmutter	Jet Abdeckkappe	O-Ring Abdeckkappe	Abdeckkappenschlüssel	Abb.
8.000	9HC22	SK20-□	SKG-22	SKN-20B	SKN-20BJ	SKJ25-□	SKJ25-□C	SKJL-25	1
12.000	9HC25	SK25-□	SKG-28	SKN-25B	SKN-25BJ	SKJ25-□	SKJ25-□C	SKJL-25	1
10.000	9HC25	SK25-□	SKG-28	SKN-25B	SKN-25BJ	SKJ25-□	SKJ25-□C	SKJL-25	1
8.000	9HC25	SK25-□	SKG-28	SKN-25B	SKN-25BJ	SKJ25-□	SKJ25-□C	SKJL-25	1
15.000	SKL-6W	SK6-□	SKG6-6HG	SKN-6WK	SKN-6WKJ	SKJ6-□	SKJ6-□C	SKJL-6	1, 2, 2
15.000	SKL-10	SK10-□	SKG10-10HG	SKN-10K	SKN-10KJ	SKJ10-□	SKJ10-□C	SKJL-10	1
12.000	9HC12A	SK13-□	SKG13-10HG	SKN-13B	SKN-13BJ	SKJ16-□	SKJ16-□C	SKJL-16	1
10.000	9HC16	SK16-□	SKG16-12HGE	SKN-16B	SKN-16BJ	SKJ16-□	SKJ16-□C	SKJL-16	1
10.000	9HC16	SK16-□	SKG16-10HG	SKN-16B	SKN-16BJ	SKJ16-□	SKJ16-□C	SKJL-16	1
10.000	9HC16	SK16-□	SKG16-12HG	SKN-16B	SKN-16BJ	SKJ16-□	SKJ16-□C	SKJL-16	1
10.000	9HC22	SK20-□	SKG-12S	SKN-20B	SKN-20BJ	SKJ25-□	SKJ25-□C	SKJL-25	1
10.000	9HC22	SK20-□	SKG20-12HGE	SKN-20B	SKN-20BJ	SKJ25-□	SKJ25-□C	SKJL-25	1
10.000	9HC22	SK20-□	SKG20-12HG	SKN-20B	SKN-20BJ	SKJ25-□	SKJ25-□C	SKJL-25	1
10.000	9HC25	SK25-□	SKG-12	SKN-25B	SKN-25BJ	SKJ25-□	SKJ25-□C	SKJL-25	1
15.000	SKL-6W	SK6-□	SKG6-6HG	SKN-6WK	SKN-6WKJ	SKJ6-□	SKJ6-□C	SKJL-6	1, 2, 2, 3
15.000	SKL-10	SK10-□	SKG10-10HG	SKN-10K	SKN-10KJ	SKJ10-□	SKJ10-□C	SKJL-10	1, 1, 2, 2
12.000	SKL-10	SK10-□	SKG10-10HG	SKN-10K	SKN-10KJ	SKJ10-□	SKJ10-□C	SKJL-10	3
10.000	SKL-10	SK10-□	SKG10-10HG	SKN-10K	SKN-10KJ	SKJ10-□	SKJ10-□C	SKJL-10	3
12.000	9HC12A	SK13-□	SKG13-10HG	SKN-13B	SKN-13BJ	SKJ16-□	SKJ16-□C	SKJL-16	1
10.000	9HC12A	SK13-□	SKG13-10HG	SKN-13B	SKN-13BJ	SKJ16-□	SKJ16-□C	SKJL-16	3
8.000	9HC12A	SK13-□	SKG13-10HG	SKN-13B	SKN-13BJ	SKJ16-□	SKJ16-□C	SKJL-16	3
12.000	9HC16	SK16-□	SKG16-10HG	SKN-16B	SKN-16BJ	SKJ16-□	SKJ16-□C	SKJL-16	1
12.000	9HC16	SK16-□	SKG16-12HG	SKN-16B	SKN-16BJ	SKJ16-□	SKJ16-□C	SKJL-16	1
10.000	9HC16	SK16-□	SKG16-12HG	SKN-16B	SKN-16BJ	SKJ16-□	SKJ16-□C	SKJL-16	1
8.000	9HC16	SK16-□	SKG16-12HG	SKN-16B	SKN-16BJ	SKJ16-□	SKJ16-□C	SKJL-16	1
12.000	9HC22	SK20-□	SKG20-16HG	SKN-20B	SKN-20BJ	SKJ25-□	SKJ25-□C	SKJL-25	1
12.000	9HC22	SK20-□	SKG20-18HG	SKN-20B	SKN-20BJ	SKJ25-□	SKJ25-□C	SKJL-25	1
12.000	9HC25	SK25-□	SKG25-18HGE	SKN-25B	SKN-25BJ	SKJ25-□	SKJ25-□C	SKJL-25	1
12.000	9HC25	SK25-□	SKG25-18HGD	SKN-25B	SKN-25BJ	SKJ25-□	SKJ25-□C	SKJL-25	1
12.000	9HC25	SK25-□	SKG25-24HG	SKN-25B	SKN-25BJ	SKJ25-□	SKJ25-□C	SKJL-25	1
15.000	SKL-6W	SK6-□	SKG6-6HG	SKN-6WK	SKN-6WKJ	SKJ6-□	SKJ6-□C	SKJL-6	2
12.000	SKL-6W	SK6-□	SKG6-6HG	SKN-6WK	SKN-6WKJ	SKJ6-□	SKJ6-□C	SKJL-6	2, 3
15.000	SKL-10	SK10-□	SKG10-10HG	SKN-10K	SKN-10KJ	SKJ10-□	SKJ10-□C	SKJL-10	1, 2
12.000	SKL-10	SK10-□	SKG10-10HG	SKN-10K	SKN-10KJ	SKJ10-□	SKJ10-□C	SKJL-10	2, 3
10.000	SKL-10	SK10-□	SKG10-10HG	SKN-10K	SKN-10KJ	SKJ10-□	SKJ10-□C	SKJL-10	3
12.000	9HC12A	SK13-□	SKG13-10HG	SKN-13B	SKN-13BJ	SKJ16-□	SKJ16-□C	SKJL-16	1
10.000	9HC12A	SK13-□	SKG13-10HG	SKN-13B	SKN-13BJ	SKJ16-□	SKJ16-□C	SKJL-16	2, 3
8.000	9HC12A	SK13-□	SKG13-10HG	SKN-13B	SKN-13BJ	SKJ16-□	SKJ16-□C	SKJL-16	3
12.000	9HC16	SK16-□	SKG16-12HG	SKN-16B	SKN-16BJ	SKJ16-□	SKJ16-□C	SKJL-16	1
10.000	9HC16	SK16-□	SKG16-12HG	SKN-16B	SKN-16BJ	SKJ16-□	SKJ16-□C	SKJL-16	2, 3
8.000	9HC16	SK16-□	SKG16-12HG	SKN-16B	SKN-16BJ	SKJ16-□	SKJ16-□C	SKJL-16	3
12.000	9HC22	SK20-□	SKG20-18HG	SKN-20B	SKN-20BJ	SKJ25-□	SKJ25-□C	SKJL-25	1
10.000	9HC22	SK20-□	SKG20-18HG	SKN-20B	SKN-20BJ	SKJ25-□	SKJ25-□C	SKJL-25	1
8.000	9HC22	SK20-□	SKG20-18HG	SKN-20B	SKN-20BJ	SKJ25-□	SKJ25-□C	SKJL-25	1

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Slim Chuck Standard - MBT

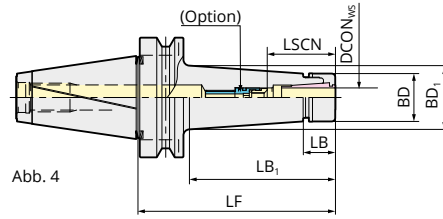


Abb. 4

Bezeichnung	LF	DCON _{ws}	LSCN	LB	LB ₁	BD	BD ₁
NBT50-SKT25C-□	105, 135	7.5-25.4	60-70	62, 92	-	55	-
NBT50-SKT25C-□	165, 200	7.5-25.4	60-70	122, 157	-	55	-
NBT50-SKT25C-□	250, 300	7.5-25.4	60-70	207, 257	-	55	-
MBT40-SKT6C-□	90, 120	0.7-6.0	26-31	60, 90	-	19.5	25.2, 29.4
MBT40-SKT10C-□	90, 120	1.75-10.0	35-41	60, 90	-	27.5	32.9, 37.1
MBT40-SKT10C-150	150	1.75-10.0	35-41	120	-	27.5	41,3
MBT40-SKT13C-□	90, 120	2.75-13.0	39-51	60, 90	-	33	37.8, 42
MBT40-SKT13C-150	150	2.75-13.0	39-51	120	-	33	46.2
MBT40-SKT16C-□	90, 120, 150	2.75-16.0	45-57	60, 90, 120	-	40	44.7, 48.9, 53.1
MBT40-SKT20C-□	90, 120	3.5-20.0	47-63	60, 92	-	48.5	53, 57.4
MBT40-SKT25C-□	90, 120	7.5-25.4	60-65	62,6, 92	-	55	59.5, 59.3
MBT50-SKT6C-□	105, 165	0.7-6.0	26-31	62, 122	-	19.5	25.5, 33.8
MBT50-SKT10C-□	105, 165	1.75-10.0	35-41	62, 122	-	27.5	33.1, 41.5
MBT50-SKT13C-□	105, 165	2.75-13.0	39-51	62, 122	-	33	38.1, 46.5
MBT50-SKT16C-□	105, 165	2.75-16.0	45-57	62, 122	-	40	44.9, 53.3
MBT50-SKT20C-□	105, 165	3.5-20.0	47-63	62, 122	-	48.5	53.2, 61.6
MBT50-SKT25C-□	105, 165	7.5-25.4	60-65	62, 122	-	55	59.4, 67.8

Max. U/min	Rollenschlüssel	Spannzange	Anschlagsschraube	TiN Spannmutter (Standard)	Jet Typ Spannmutter	Jet Abdeckkappe	O-Ring Abdeckkappe	Abdeckkappenschlüssel	Abb.
12.000	9HC25	SK25-□	SKG25-24HG	SKN-25B	SKN-25BJ	SKJ25-□	SKJ25-□C	SKJL-25	1
10.000	9HC25	SK25-□	SKG25-24HG	SKN-25B	SKN-25BJ	SKJ25-□	SKJ25-□C	SKJL-25	1
8.000	9HC25	SK25-□	SKG25-24HG	SKN-25B	SKN-25BJ	SKJ25-□	SKJ25-□C	SKJL-25	1
30.000	GH6	SK6-□	SKG6-6HG	MDSKN-6K	MDSKN-6KJ	SKJ6-□	SKJ6-□C	SKJL-6	4
30.000	GH10	SK10-□	SKG10-10HG	MDSKN-10K	MDSKN-10KJ	SKJ10-□	SKJ10-□C	SKJL-10	4
30.000	GH10	SK10-□	SKG10-10HG	MDSKN-10K	MDSKN-10KJ	SKJ10-□	SKJ10-□C	SKJL-10	4
30.000	GH12	SK13-□	SKG13-10HG	MDSKN-13B	MDSKN-13BJ	SKJ16-□	SKJ16-□C	SKJL-16	4
30.000	GH12	SK13-□	SKG13-10HG	MDSKN-13B	MDSKN-13BJ	SKJ16-□	SKJ16-□C	SKJL-16	4
25.000	GH16	SK16-□	SKG16-12HG	MDSKN-16B	MDSKN-16BJ	SKJ16-□	SKJ16-□C	SKJL-16	4
25.000	GH20	SK20-□	SKG20-18HG	MDSKN-20B	MDSKN-20BJ	SKJ25-□	SKJ25-□C	SKJL-25	4
20.000	GH25	SK25-□	SKG25-18HGD	MDSKN-25B	MDSKN-25BJ	SKJ25-□	SKJ25-□C	SKJL-25	4
20.000	GH6	SK6-□	SKG6-6HG	MDSKN-6K	MDSKN-6KJ	SKJ6-□	SKJ6-□C	SKJL-6	4
20.000	GH10	SK10-□	SKG10-10HG	MDSKN-10K	MDSKN-10KJ	SKJ10-□	SKJ10-□C	SKJL-10	4
20.000	GH12	SK13-□	SKG13-10HG	MDSKN-13B	MDSKN-13BJ	SKJ16-□	SKJ16-□C	SKJL-16	4
20.000	GH16	SK16-□	SKG16-12HG	MDSKN-16B	MDSKN-16BJ	SKJ16-□	SKJ16-□C	SKJL-16	4
20.000	GH20	SK20-□	SKG20-18HG	MDSKN-20B	MDSKN-20BJ	SKJ25-□	SKJ25-□C	SKJL-25	4
15.000	GH21	SK25-□	SKG25-18HGD	MDSKN-25B	MDSKN-25BJ	SKJ25-□	SKJ25-□C	SKJL-25	4

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SLIM CHUCK HIGH SPEED – BT / NBT / MBT



Slim Chuck High Speed – BT

Bezeichnung	LF	DCON _{WS}	LSCN	LB	LB ₁	BD	BD ₁
BT30-SK6-□	60P, 90P, 120P	0.7-6.0	21-35	33, 56, 62	33, 65, 95	19.5	19.5, 32, 32
BT30-SK10-45P	45P	1.75-10.0	30-50	22	-	27.5	-
BT30-SK10-□	60P, 75P, 90P, 120P	1.75-10.0	30-50	35, 50, 65, 95	-	27.5	-
BT30-SK13-60P	60P	2.75-13.0	31-50	35	-	33	-
BT30-SK13-□	75P, 90P, 120P	2.75-13.0	31-65	50, 65, 95	-	33	-
BT30-SK16-60P	60P	2.75-16.0	45-60	37	-	40	-
BT30-SK16-75P	75P	2.75-16.0	45-65	52	-	40	-
BT30-SK16-90P	90P	2.75-16.0	45-65	67	-	40	-
BT30-SK16-120P	120P	2.75-16.0	40-70	97	-	40	-
BT30-SK20-60P	60P	3.5-20.0	65-70	37	-	48.5	-
BT30-SK20-75P	75P	3.5-20.0	70-75	52	-	48.5	-
BT30-SK20-90P	90P	3.5-20.0	65-75	67	-	48.5	-
BT30-SK25-90P	90P	7.5-25.4	55-75	67	-	55	-
BT40-SK6-□	60P, 90P, 120P, 150P	0.7-6.0	21-35	30, 51, 60, 60	30, 60, 90, 120	19.5	19.5, 32, 32, 25
BT40-SK10-□	60P, 75P, 90P, 120P	1.75-10.0	30-50	32, 45, 48, 73	32, 45, 60, 90	27,5	27.5, 2735, 40, 40
BT40-SK10-□	150P, 180P	1.75-10.0	30-50	73	118, 148	27.5	34.5, 39
BT40-SK10-□	200P, 250P	1.75-10.0	30-50	73	168, 218	27.5	39
BT40-SK13-□	60P, 75P, 90P, 120P	2.75-13.0	31-65	28, 43, 58, 88	28, 43, 58, 88	33	-
BT40-SK13-□	150P, 180P	2.75-13.0	31-65	88	118, 148	33	-
BT40-SK13-□	200P, 250P	2.75-13.0	31-65	88	168, 218	33	-
BT40-SK16-60P	60P	2.75-16.0	50-65	32	-	40	-
BT40-SK16-75P	75P	2.75-16.0	40-67	43	-	40	-
BT40-SK16-□	90P, 120P, 150P	2.75-16.0	45-60	58, 88, 118	-	40	-
BT40-SK16-180P	180P	2.75-16.0	45-60	148	-	40	-
BT40-SK16-□	200P, 250P	2.75-16.0	45-60	168, 218	-	40	-
BT40-SK20-60P	60P	3.5-20.0	47-60	32	-	48.5	-
BT40-SK20-75P	75P	3.5-20.0	47-70	45	-	48.5	-
BT40-SK20-□	90P, 120P	3.5-20.0	47-80	60, 90	-	48.5	-
BT40-SK25-75P	75P	7.5-25.4	55-75	47	-	55	-
BT40-SK25-90P	90P	7.5-25.4	55-75	61	-	55	-
BT40-SK25-120P	120P	7.5-25.4	55-85	91	-	55	-
BT50-SK6-□	105P, 135P	0.7-6.0	21-35	55, 60	64, 92	19.5	32
BT50-SK6-□	165P, 200P	0.7-6.0	21-35	60	114, 151	19.5	32, 30
BT50-SK10-□	105P, 135P	1.75-10.0	30-50	57, 70	57, 92	27.5	27.5, 32
BT50-SK10-□	165P, 200P	1.75-10.0	30-50	75	114, 151	27.5	32, 36
BT50-SK10-225P	225P	1.75-10.0	30-50	75	178	27.5	40
BT50-SK13-□	105P, 135P	2.75-13.0	31-65	62, 92	-	33	-
BT50-SK13-□	165P, 200P	2.75-13.0	31-65	92	122, 157	33	45
BT50-SK16-□	105P, 135P	2.75-16.0	45-70	62, 92	-	40	-
BT50-SK16-□	165P, 200P	2.75-16.0	45-70	90	122, 157	40	50, 52
BT50-SK20-□	105P, 135P	3.5-20.0	47-80	62, 92	-	48.5	-
BT50-SK20-□	165P, 200P	3.5-20.0	47-80	122, 157	-	48.5	-
BT50-SK25-□	105P, 135P	7.5-25.4	50-85	62, 92	-	55	-
BT50-SK25-□	165P, 200P	7.5-25.4	50-85	122, 157	-	55	-
NBT30-SK6C-□	60P, 90P	0.7-6.0	26-31	33, 56	-	19.5	19.5, 32

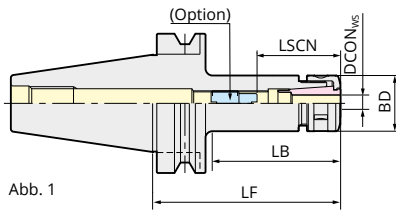


Abb. 1

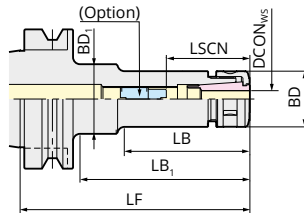


Abb. 2

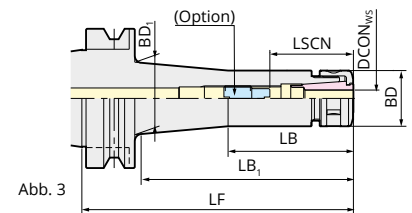
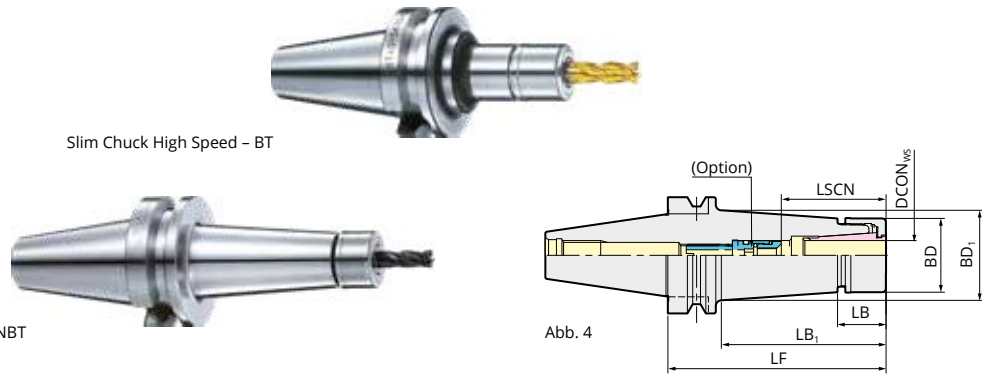


Abb. 3

Max. U/min	Rollenschlüssel	Spannzange	Anschlagsschraube	TiN Spannmutter (Standard)	Jet Typ Spannmutter	Jet Abdeckkappe	O-Ring Abdeckkappe	Abdeckkappenschlüssel
40.000	GH6	SK6-□	SKG-8	SKN-6WK(GH)	SKN-6WKJ(GH)	SKJ6-□	SKJ6-□C	SKJL-6
40.000	GH10	SK10-□	SKG-12S	SKN-10K(GH)	SKN-10KJ(GH)	SKJ10-□	SKJ10-□C	SKJL-10
40.000	GH10	SK10-□	SKG-12L	SKN-10K(GH)	SKN-10KJ(GH)	SKJ10-□	SKJ10-□C	SKJL-10
40.000	GH12	SK13-□	SKG-15	SKN-13B(GH)	SKN-13BJ(GH)	SKJ16-□	SKJ16-□C	SKJL-16
40.000	GH12	SK13-□	SKG-15	SKN-13B(GH)	SKN-13BJ(GH)	SKJ16-□	SKJ16-□C	SKJL-16
30.000	GH16	SK16-□	SKG-12L	SKN-16B(GH)	SKN-16BJ(GH)	SKJ16-□	SKJ16-□C	SKJL-16
30.000	GH16	SK16-□	SKG-12L	SKN-16B(GH)	SKN-16BJ(GH)	SKJ16-□	SKJ16-□C	SKJL-16
30.000	GH16	SK16-□	SKG-12	SKN-16B(GH)	SKN-16BJ(GH)	SKJ16-□	SKJ16-□C	SKJL-16
30.000	GH16	SK16-□	SKG-18L	SKN-16B(GH)	SKN-16BJ(GH)	SKJ16-□	SKJ16-□C	SKJL-16
30.000	GH20	SK20-□	SKG-12S	SKN-20B(GH)	SKN-20BJ(GH)	SKJ25-□	SKJ25-□C	SKJL-25
30.000	GH20	SK20-□	SKG-12L	SKN-20B(GH)	SKN-20BJ(GH)	SKJ25-□	SKJ25-□C	SKJL-25
30.000	GH20	SK20-□	SKG-12	SKN-20B(GH)	SKN-20BJ(GH)	SKJ25-□	SKJ25-□C	SKJL-25
30.000	GH25	SK25-□	SKG-12	SKN-25B(GH)	SKN-25BJ(GH)	SKJ25-□	SKJ25-□C	SKJL-25
30.000	GH6	SK6-□	SKG-8	SKN-6WK(GH)	SKN-6WKJ(GH)	SKJ6-□	SKJ6-□C	SKJL-6
30.000	GH10	SK10-□	SKG-12L	SKN-10K(GH)	SKN-10KJ(GH)	SKJ10-□	SKJ10-□C	SKJL-10
30.000	GH10	SK10-□	SKG-12L	SKN-10K(GH)	SKN-10KJ(GH)	SKJ10-□	SKJ10-□C	SKJL-10
30.000	GH10	SK10-□	SKG-12L	SKN-10K(GH)	SKN-10KJ(GH)	SKJ10-□	SKJ10-□C	SKJL-10
30.000	GH12	SK13-□	SKG-15	SKN-13B(GH)	SKN-13BJ(GH)	SKJ16-□	SKJ16-□C	SKJL-16
30.000	GH12	SK13-□	SKG-15	SKN-13B(GH)	SKN-13BJ(GH)	SKJ16-□	SKJ16-□C	SKJL-16
30.000	GH12	SK13-□	SKG-15	SKN-13B(GH)	SKN-13BJ(GH)	SKJ16-□	SKJ16-□C	SKJL-16
25.000	GH16	SK16-□	SKG-18S	SKN-16B(GH)	SKN-16BJ(GH)	SKJ16-□	SKJ16-□C	SKJL-16
25.000	GH16	SK16-□	SKG-18L	SKN-16B(GH)	SKN-16BJ(GH)	SKJ16-□	SKJ16-□C	SKJL-16
25.000	GH16	SK16-□	SKG-18L	SKN-16B(GH)	SKN-16BJ(GH)	SKJ16-□	SKJ16-□C	SKJL-16
25.000	GH16	SK16-□	SKG-18L	SKN-16B(GH)	SKN-16BJ(GH)	SKJ16-□	SKJ16-□C	SKJL-16
25.000	GH16	SK16-□	SKG-18L	SKN-16B(GH)	SKN-16BJ(GH)	SKJ16-□	SKJ16-□C	SKJL-16
25.000	GH16	SK16-□	SKG-18L	SKN-16B(GH)	SKN-16BJ(GH)	SKJ16-□	SKJ16-□C	SKJL-16
25.000	GH20	SK20-□	SKG-22	SKN-20B(GH)	SKN-20BJ(GH)	SKJ25-□	SKJ25-□C	SKJL-25
25.000	GH20	SK20-□	SKG-22	SKN-20B(GH)	SKN-20BJ(GH)	SKJ25-□	SKJ25-□C	SKJL-25
25.000	GH20	SK20-□	SKG-22	SKN-20B(GH)	SKN-20BJ(GH)	SKJ25-□	SKJ25-□C	SKJL-25
20.000	GH25	SK25-□	SKG-12	SKN-25B(GH)	SKN-25BJ(GH)	SKJ25-□	SKJ25-□C	SKJL-25
20.000	GH25	SK25-□	SKG-28	SKN-25B(GH)	SKN-25BJ(GH)	SKJ25-□	SKJ25-□C	SKJL-25
20.000	GH25	SK25-□	SKG-28	SKN-25B(GH)	SKN-25BJ(GH)	SKJ25-□	SKJ25-□C	SKJL-25
20.000	GH6	SK6-□	SKG-8	SKN-6WK(GH)	SKN-6WKJ(GH)	SKJ6-□	SKJ6-□C	SKJL-6
20.000	GH6	SK6-□	SKG-8	SKN-6WK(GH)	SKN-6WKJ(GH)	SKJ6-□	SKJ6-□C	SKJL-6
20.000	GH10	SK10-□	SKG-12L	SKN-10K(GH)	SKN-10KJ(GH)	SKJ10-□	SKJ10-□C	SKJL-10
20.000	GH10	SK10-□	SKG-12L	SKN-10K(GH)	SKN-10KJ(GH)	SKJ10-□	SKJ10-□C	SKJL-10
20.000	GH10	SK10-□	SKG-12L	SKN-10K(GH)	SKN-10KJ(GH)	SKJ10-□	SKJ10-□C	SKJL-10
20.000	GH12	SK13-□	SKG-15	SKN-13B(GH)	SKN-13BJ(GH)	SKJ16-□	SKJ16-□C	SKJL-16
20.000	GH12	SK13-□	SKG-15	SKN-13B(GH)	SKN-13BJ(GH)	SKJ16-□	SKJ16-□C	SKJL-16
20.000	GH16	SK16-□	SKG-18L	SKN-16B(GH)	SKN-16BJ(GH)	SKJ16-□	SKJ16-□C	SKJL-16
20.000	GH16	SK16-□	SKG-18L	SKN-16B(GH)	SKN-16BJ(GH)	SKJ16-□	SKJ16-□C	SKJL-16
20.000	GH20	SK20-□	SKG-22	SKN-20B(GH)	SKN-20BJ(GH)	SKJ25-□	SKJ25-□C	SKJL-25
20.000	GH20	SK20-□	SKG-22	SKN-20B(GH)	SKN-20BJ(GH)	SKJ25-□	SKJ25-□C	SKJL-25
15.000	GH25	SK25-□	SKG-28	SKN-25B(GH)	SKN-25BJ(GH)	SKJ25-□	SKJ25-□C	SKJL-25
15.000	GH25	SK25-□	SKG-28	SKN-25B(GH)	SKN-25BJ(GH)	SKJ25-□	SKJ25-□C	SKJL-25
40.000	GH6	SK6-□	SKG6-6HG	SKN-6WK(GH)	SKN-6WKJ(GH)	SKJ6-□	SKJ6-□C	SKJL-6

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Bezeichnung	LF	DCON _{WS}	LSCN	LB	LB ₁	BD	BD ₁
NBT30-SK10C-□	45P, 60P, 75P, 90P	1.75-10.0	33-41	22, 35, 50, 65	-	27.5	-
NBT30-SK13C-□	60P, 75P, 90P	2.75-13.0	39-51	35, 50, 65	-	33	-
NBT30-SK16C-60P	60P	2.75-16.0	47-52	37	-	40	-
NBT30-SK16C-75P	75P	2.75-16.0	45-52	52	-	40	-
NBT30-SK16C-90P	90P	2.75-16.0	45-57	67	-	40	-
NBT30-SK20-60P	60P	3.5-20.0	65-70	37	-	48.5	-
NBT30-SK20C-75P	75P	3.5-20.0	55-55	52	-	48.5	-
NBT30-SK20C-90P	90P	3.5-20.0	47-63	67	-	48.5	-
NBT30-SK25-90P	90P	7.5-25.4	55-75	67	-	55	-
NBT40-SK6C-□	60P, 90P, 120P	0.7-6.0	26-31	33, 51, 60	30, 60, 90	19.5	19.5, 32, 32
NBT40-SK10C-□	60P, 75P, 90P, 120P	1.75-10.0	33-41	32, 45, 48, 73	32, 45, 60, 90	27.5	27.5, 27.5, 40, 40
NBT40-SK10C-150P	150P	1.75-10.0	33-41	73	118	27.5	34, 5
NBT40-SK13C-□	60P, 75P, 90P, 120P	2.75-13.0	39-51	28, 43, 58, 88	-	33	-
NBT40-SK13C-150P	150P	2.75-13.0	39-51	88	118	33	40
NBT40-SK16C-60P	60P	2.75-16.0	45-52	32	-	40	-
NBT40-SK16C-□	75P, 90P, 120P, 150P	2.75-16.0	45-57	43, 58, 88, 118	-	40	-
NBT40-SK20C-60P	60P	3.5-20.0	57-63	32	-	48.5	-
NBT40-SK20C-□	75P, 90P, 120P	3.5-20.0	47-63	45, 60, 90	-	48.5	-
NBT40-SK25C-75P	75P	7.5-25.4	60-65	47	-	55	-
NBT40-SK25C-90P	90P	7.5-25.4	60-65	61	-	55	-
NBT40-SK25C-120P	120P	7.5-25.4	60-70	91	-	55	-
NBT50-SK6C-□	105P, 135P	0.7-6.0	26-31	55, 60	64, 92	19.5	32
NBT50-SK6C-165P	165P	0.7-6.0	26-31	60	114	19.5	32
NBT50-SK10C-□	105P, 135P	1.75-10.0	33-41	57, 70	57, 92	27.5	27.5, 32
NBT50-SK10C-165P	165P	1.75-10.0	33-41	75	114	27.5	32
NBT50-SK13C-□	105P, 135P	2.75-13.0	39-51	62, 92	-	33	-
NBT50-SK13C-165P	165P	2.75-13.0	39-51	92	122	33	45
NBT50-SK16C-□	105P, 135P	2.75-16.0	45-57	62, 92	-	40	-
NBT50-SK16C-165P	165P	2.75-16.0	45-57	90	112	40	50
NBT50-SK20C-□	105P, 135P	3.5-20.0	47-63	62, 92	-	48.5	-
NBT50-SK20C-165P	165P	3.5-20.0	47-63	122	112	48.5	-
NBT50-SK25C-□	105P, 135P	7.5-25.4	60-70	62, 92	-	55	-
NBT50-SK25C-165P	165P	7.5-25.4	60-70	122	112	55	-
NBT30-SKT6C-□	60P, 75P, 90P	0.7-6.0	26-31	19.8	35, 50, 65	19.5	21.7, 23.8, 25.9
NBT30-SKT10C-□	60P, 75P, 90P	1.75-10.0	35-41	22	35, 50, 65	27.5	29.4, 31.5, 33.6
NBT30-SKT13C-□	60P, 75P, 90P	2.75-13.0	39-51	26	35, 50, 65	33	34.6, 36.4, 38.5
NBT30-SK16C-60P	60P	2.75-16.0	47-52	27	37	40	41,4
NBT30-SK16C-75P	75P	2.75-16.0	45-52	27	52,6	40	43,6
NBT30-SK16C-90P	90P	2.75-16.0	45-57	27	62,8	40	45
NBT40-SKT6C-□	60P, 75P, 90P, 120P	0.7-6.0	26-31	19.8	30, 45, 60, 90	19.5	21, 23.1, 25.2, 29.4

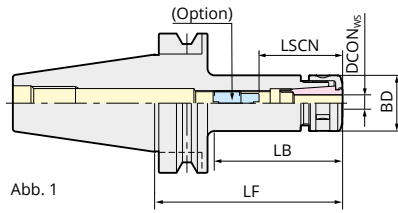


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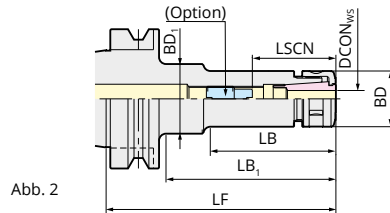


Abb. 2

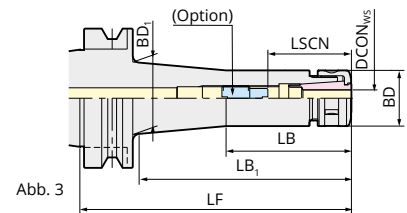


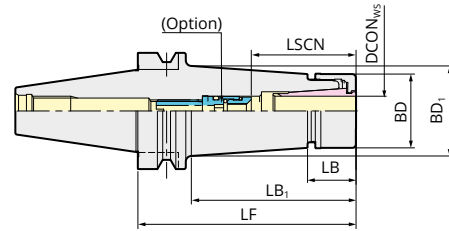
Abb. 3

Max. U/min	Rollenschlüssel	Spannzange	Anschlag-schraube	TiN Spannmutter (Standard)	Jet Typ Spannmutter	Jet Abdeck-kappe	O-Ring Abdeckkappe	Abdeckkappen-schlüssel
40.000	GH10	SK10-□	SKG10-10HG	SKN-10K(GH)	SKN-10KJ(GH)	SKJ10-□	SKJ10-□C	SKJL-10
40.000	GH12	SK13-□	SKG13-10HG	SKN-13B(GH)	SKN-13BJ(GH)	SKJ16-□	SKJ16-□C	SKJL-16
30.000	GH16	SK16-□	SKG16-12HGE	SKN-16B(GH)	SKN-16BJ(GH)	SKJ16-□	SKJ16-□C	SKJL-16
30.000	GH16	SK16-□	SKG16-10HG	SKN-16B(GH)	SKN-16BJ(GH)	SKJ16-□	SKJ16-□C	SKJL-16
30.000	GH16	SK16-□	SKG16-12HG	SKN-16B(GH)	SKN-16BJ(GH)	SKJ16-□	SKJ16-□C	SKJL-16
30.000	GH20	SK20-□	SKG-12S	SKN-20B(GH)	SKN-20BJ(GH)	SKJ25-□	SKJ25-□C	SKJL-25
30.000	GH20	SK20-□	SKG20-12HGE	SKN-20B(GH)	SKN-20BJ(GH)	SKJ25-□	SKJ25-□C	SKJL-25
30.000	GH20	SK20-□	SKG20-12HG	SKN-20B(GH)	SKN-20BJ(GH)	SKJ25-□	SKJ25-□C	SKJL-25
30.000	GH25	SK25-□	SKG-12	SKN-25B(GH)	SKN-25BJ(GH)	SKJ25-□	SKJ25-□C	SKJL-25
30.000	GH6	SK6-□	SKG6-6HG	SKN-6WK(GH)	SKN-6WKJ(GH)	SKJ6-□	SKJ6-□C	SKJL-6
30.000	GH10	SK10-□	SKG10-10HG	SKN-10K(GH)	SKN-10KJ(GH)	SKJ10-□	SKJ10-□C	SKJL-10
30.000	GH10	SK10-□	SKG10-10HG	SKN-10K(GH)	SKN-10KJ(GH)	SKJ10-□	SKJ10-□C	SKJL-10
30.000	GH12	SK13-□	SKG13-10HG	SKN-13B(GH)	SKN-13BJ(GH)	SKJ16-□	SKJ16-□C	SKJL-16
30.000	GH12	SK13-□	SKG13-10HG	SKN-13B(GH)	SKN-13BJ(GH)	SKJ16-□	SKJ16-□C	SKJL-16
25.000	GH16	SK16-□	SKG16-10HG	SKN-16B(GH)	SKN-16BJ(GH)	SKJ16-□	SKJ16-□C	SKJL-16
25.000	GH16	SK16-□	SKG16-12HG	SKN-16B(GH)	SKN-16BJ(GH)	SKJ16-□	SKJ16-□C	SKJL-16
25.000	GH20	SK20-□	SKG20-16HG	SKN-20B(GH)	SKN-20BJ(GH)	SKJ25-□	SKJ25-□C	SKJL-25
25.000	GH20	SK20-□	SKG20-18HG	SKN-20B(GH)	SKN-20BJ(GH)	SKJ25-□	SKJ25-□C	SKJL-25
20.000	GH25	SK25-□	SKG25-18HGE	SKN-25B(GH)	SKN-25BJ(GH)	SKJ25-□	SKJ25-□C	SKJL-25
20.000	GH25	SK25-□	SKG25-18HGD	SKN-25B(GH)	SKN-25BJ(GH)	SKJ25-□	SKJ25-□C	SKJL-25
20.000	GH25	SK25-□	SKG25-24HG	SKN-25B(GH)	SKN-25BJ(GH)	SKJ25-□	SKJ25-□C	SKJL-25
20.000	GH6	SK6-□	SKG6-6HG	SKN-6WK(GH)	SKN-6WKJ(GH)	SKJ6-□	SKJ6-□C	SKJL-6
20.000	GH6	SK6-□	SKG6-6HG	SKN-6WK(GH)	SKN-6WKJ(GH)	SKJ6-□	SKJ6-□C	SKJL-6
20.000	GH10	SK10-□	SKG10-10HG	SKN-10K(GH)	SKN-10KJ(GH)	SKJ10-□	SKJ10-□C	SKJL-10
20.000	GH10	SK10-□	SKG10-10HG	SKN-10K(GH)	SKN-10KJ(GH)	SKJ10-□	SKJ10-□C	SKJL-10
20.000	GH12	SK13-□	SKG13-10HG	SKN-13B(GH)	SKN-13BJ(GH)	SKJ16-□	SKJ16-□C	SKJL-16
20.000	GH12	SK13-□	SKG13-10HG	SKN-13B(GH)	SKN-13BJ(GH)	SKJ16-□	SKJ16-□C	SKJL-16
20.000	GH16	SK16-□	SKG16-12HG	SKN-16B(GH)	SKN-16BJ(GH)	SKJ16-□	SKJ16-□C	SKJL-16
20.000	GH16	SK16-□	SKG16-12HG	SKN-16B(GH)	SKN-16BJ(GH)	SKJ16-□	SKJ16-□C	SKJL-16
20.000	GH20	SK20-□	SKG20-18HG	SKN-20B(GH)	SKN-20BJ(GH)	SKJ25-□	SKJ25-□C	SKJL-25
20.000	GH20	SK20-□	SKG20-18HG	SKN-20B(GH)	SKN-20BJ(GH)	SKJ25-□	SKJ25-□C	SKJL-25
15.000	GH25	SK25-□	SKG25-24HG	SKN-25B(GH)	SKN-25BJ(GH)	SKJ25-□	SKJ25-□C	SKJL-25
15.000	GH25	SK25-□	SKG25-24HG	SKN-25B(GH)	SKN-25BJ(GH)	SKJ25-□	SKJ25-□C	SKJL-25
40.000	GH6	SK6-□	SKG6-6HG	MDSKN-6K	MDSKN-6KJ	SKJ6-□	SKJ6-□C	SKJL-6
40.000	GH10	SK10-□	SKG10-10HG	MDSKN-10K	MDSKN-10KJ	SKJ10-□	SKJ10-□C	SKJL-10
40.000	GH12	SK13-□	SKG13-10HG	MDSKN-13B	MDSKN-13BJ	SKJ16-□	SKJ16-□C	SKJL-16
30.000	GH16	SK16-□	SKG16-12HGE	MDSKN-16B	MDSKN-16BJ	SKJ16-□	SKJ16-□C	SKJL-16
30.000	GH16	SK16-□	SKG16-10HG	MDSKN-16B	MDSKN-16BJ	SKJ16-□	SKJ16-□C	SKJL-16
30.000	GH16	SK16-□	SKG16-12HG	MDSKN-16B	MDSKN-16BJ	SKJ16-□	SKJ16-□C	SKJL-16
30.000	GH6	SK6-□	SKG6-6HG	MDSKN-6K	MDSKN-6KJ	SKJ6-□	SKJ6-□C	SKJL-6

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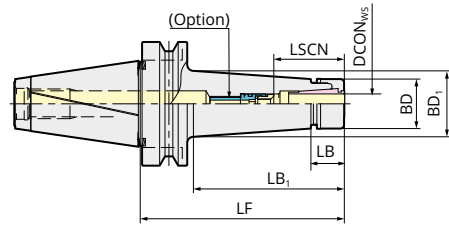


Slim Chuck High Speed - NBT



Bezeichnung	LF	DCON _{ws}	LSCN	LB	LB ₁	BD	BD ₁
NBT40-SKT10C-□	60P, 75P, 90P, 120P, 150P	1.75-10.0	33-41	22	30, 45, 60, 90, 120	27.5	28.7, 30.8, 32.9, 37.1, 41.3
NBT40-SKT13C-□	60P, 75P, 90P, 120P, 150P	2.75-13.0	39-51	26	30, 45, 60, 90, 120	33	33, 35.7, 37.8, 42, 46.2
NBT40-SKT16C-60P	60P	2.75-16.0	45-52	27	30	40	-
NBT40-SKT16C-□	75P, 90P, 120P, 150P	2.75-16.0	45-57	27	45, 60, 90, 120	40	42.6, 44.7, 48.9, 53.1
NBT40-SKT20C-60P	60P	3.5-20.0	57-63	28.5	30	48.5	-
NBT40-SKT20C-□	75P, 90P, 120P	3.5-20.0	47-63	28.5	45, 60, 92	48.5	50.9, 53, 57.4
NBT40-SKT25C-75P	75P	7.5-25.4	60-65	31	47	55	57,3
NBT40-SKT25C-90P	90P	7.5-25.4	60-65	31	62,6	55	59,5
NBT50-SKT6C-□	105P, 135P, 165P	0.7-6.0	26-31	19.8	62, 92, 122	19.5	25.5, 29.6, 33.8
NBT50-SKT10C-□	105P, 135P, 165P	1.75-10.0	33-41	22	62, 92, 122	27.5	33.1, 37.3, 41.5
NBT50-SKT13C-□	105P, 135P, 165P	2.75-13.0	39-51	26	62, 92, 122	33	38.1, 42.3, 46.5
NBT50-SKT16C-□	105P, 135P, 165P	2.75-16.0	45-57	27	62, 92, 122	40	44.9, 49.1, 53.3
NBT50-SKT20C-□	105P, 135P, 165P	3.5-20.0	47-63	28.5	62, 92, 122	48.5	53.2, 57.6, 61.6
NBT50-SKT25C-□	105P, 135P, 165P	7.5-25.4	60-70	31	62, 92, 122	55	59.4, 53.6, 67.8
MBT40-SKT6C-□	90P, 120P	0.7-6.0	26-31	19.8	60, 90	19.5	25, 2, 29.4
MBT40-SKT10C-□	90P, 120P	1.75-10.0	35-41	22	60, 90	27.5	32.9, 37.1
MBT40-SKT10C-150P	150P	1.75-10.0	35-41	22	120	27.5	41,3
MBT40-SKT13C-□	90P, 120P	2.75-13.0	39-51	26	60, 90	33	37.8, 42
MBT40-SKT13C-150P	150P	2.75-13.0	39-51	26	120	33	46,2
MBT40-SKT16C-□	90P, 120P, 150P	2.75-16.0	45-57	27	60, 90, 120	40	44.7, 48.9, 53.1
MBT40-SKT20C-□	90P, 120P	3.5-20.0	47-63	28.5	60, 92	48.5	53, 57.4
MBT40-SKT25C-□	90P, 120P	7.5-25.4	60-65	31	62.6, 92	55	59.5, 59.3
MBT50-SKT6C-□	105P, 165P	0.7-6.0	26-31	19.8	62, 122	19.5	25.5, 33.8
MBT50-SKT10C-□	105P, 165P	1.75-10.0	35-41	22	62, 122	27.5	33.1, 41.5
MBT50-SKT13C-□	105P, 165P	2.75-13.0	39-51	26	62, 122	33	38.1, 46.5
MBT50-SKT16C-□	105P, 165P	2.75-16.0	45-57	27	62, 122	40	44.9, 53.3
MBT50-SKT20C-□	105P, 165P	3.5-20.0	47-63	28.5	62, 122	48.5	53.2, 61.6
MBT50-SKT25C-□	105P, 165P	7.5-25.4	60-65	31	62, 122	55	59.4, 67.8

Slim Chuck High Speed - MBT



	Max. U/min	Rollenschlüssel	Spannzange	Anschlag-schraube	TiN Spannmutter (Standard)	Jet Typ Spannmutter	Jet Abdeck-kappe	O-Ring Abdeckkappe	Abdeckkappen-schlüssel
	30.000	GH10	SK10-□	SKG10-10HG	MDSKN-10K	MDSKN-10KJ	SKJ10-□	SKJ10-□C	SKJL-10
	30.000	GH12	SK13-□	SKG13-10HG	MDSKN-13B	MDSKN-13BJ	SKJ16-□	SKJ16-□C	SKJL-16
	25.000	GH16	SK16-□	SKG16-10HG	MDSKN-16B	MDSKN-16BJ	SKJ16-□	SKJ16-□C	SKJL-16
	25.000	GH16	SK16-□	SKG16-12HG	MDSKN-16B	MDSKN-16BJ	SKJ16-□	SKJ16-□C	SKJL-16
	25.000	GH20	SK20-□	SKG20-16HG	MDSKN-20B	MDSKN-20BJ	SKJ25-□	SKJ25-□C	SKJL-25
	25.000	GH20	SK20-□	SKG20-18HG	MDSKN-20B	MDSKN-20BJ	SKJ25-□	SKJ25-□C	SKJL-25
	20.000	GH25	SK25-□	SKG25-18HGE	MDSKN-25B	MDSKN-25BJ	SKJ25-□	SKJ25-□C	SKJL-25
	20.000	GH25	SK25-□	SKG25-18HGD	MDSKN-25B	MDSKN-25BJ	SKJ25-□	SKJ25-□C	SKJL-25
	20.000	GH6	SK6-□	SKG6-6HG	MDSKN-6K	MDSKN-6KJ	SKJ6-□	SKJ6-□C	SKJL-6
	20.000	GH10	SK10-□	SKG10-10HG	MDSKN-10K	MDSKN-10KJ	SKJ10-□	SKJ10-□C	SKJL-10
	20.000	GH12	SK13-□	SKG13-10HG	MDSKN-13B	MDSKN-13BJ	SKJ16-□	SKJ16-□C	SKJL-16
	20.000	GH16	SK16-□	SKG16-12HG	MDSKN-16B	MDSKN-16BJ	SKJ16-□	SKJ16-□C	SKJL-16
	20.000	GH20	SK20-□	SKG20-18HG	MDSKN-20B	MDSKN-20BJ	SKJ25-□	SKJ25-□C	SKJL-25
	15.000	GH25	SK25-□	SKG25-24HG	MDSKN-25B	MDSKN-25BJ	SKJ25-□	SKJ25-□C	SKJL-25
	30.000	GH6	SK6-□	SKG6-6HG	MDSKN-6K	MDSKN-6KJ	SKJ6-□	SKJ6-□C	SKJL-6
	30.000	GH10	SK10-□	SKG10-10HG	MDSKN-10K	MDSKN-10KJ	SKJ10-□	SKJ10-□C	SKJL-10
	30.000	GH10	SK10-□	SKG10-10HG	MDSKN-10K	MDSKN-10KJ	SKJ10-□	SKJ10-□C	SKJL-10
	30.000	GH12	SK13-□	SKG13-10HG	MDSKN-13B	MDSKN-13BJ	SKJ16-□	SKJ16-□C	SKJL-16
	30.000	GH12	SK13-□	SKG13-10HG	MDSKN-13B	MDSKN-13BJ	SKJ16-□	SKJ16-□C	SKJL-16
	25.000	GH16	SK16-□	SKG16-12HG	MDSKN-16B	MDSKN-16BJ	SKJ16-□	SKJ16-□C	SKJL-16
	25.000	GH20	SK20-□	SKG20-18HG	MDSKN-20B	MDSKN-20BJ	SKJ25-□	SKJ25-□C	SKJL-25
	20.000	GH25	SK25-□	SKG25-18HGD	MDSKN-25B	MDSKN-25BJ	SKJ25-□	SKJ25-□C	SKJL-25
	20.000	GH6	SK6-□	SKG6-6HG	MDSKN-6K	MDSKN-6KJ	SKJ6-□	SKJ6-□C	SKJL-6
	20.000	GH10	SK10-□	SKG10-10HG	MDSKN-10K	MDSKN-10KJ	SKJ10-□	SKJ10-□C	SKJL-10
	20.000	GH12	SK13-□	SKG13-10HG	MDSKN-13B	MDSKN-13BJ	SKJ16-□	SKJ16-□C	SKJL-16
	20.000	GH16	SK16-□	SKG16-12HG	MDSKN-16B	MDSKN-16BJ	SKJ16-□	SKJ16-□C	SKJL-16
	20.000	GH20	SK20-□	SKG20-18HG	MDSKN-20B	MDSKN-20BJ	SKJ25-□	SKJ25-□C	SKJL-25
	15.000	GH25	SK25-□	SKG25-18HGD	MDSKN-25B	MDSKN-25BJ	SKJ25-□	SKJ25-□C	SKJL-25

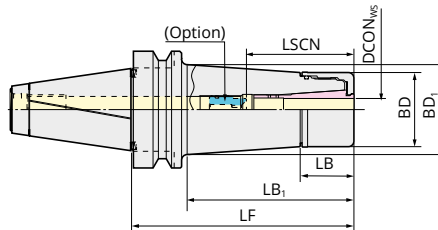
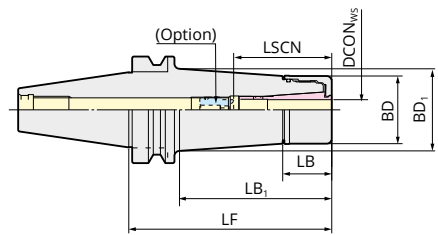
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VC HOLDER - BT / NBT / MBT

VC Holder - BT

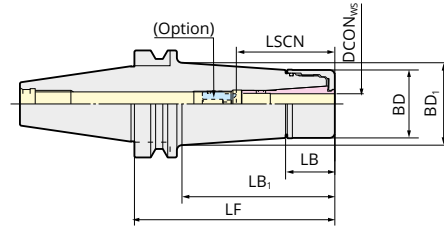


VC Holder - MBT



Bezeichnung	LF	DCON _{ws}	LSCN	LB	LB ₁	BD	BD ₁	Max. U/min
BT30-VC6-□	45, 60, 90	2.0-6.0	35-45	23	23, 35, 65	27.5	27.5, 31.7, 33.4	40.000
BT30-VC13-□	60, 90, 120	3.0-12.0	50-60	29	37, 67, 97	40	41.1, 41.3, 42.4	40.000
BT40-VC6-□	60, 90, 120	2.0-6.0	35-45	23	30, 60, 90	27.5	30, 32.7, 36.9	30.000
BT40-VC13-□	60, 90, 120	3.0-12.0	50-60	29	31, 60, 90	40	40.3, 44.3, 48.5	30.000
BT50-VC6-□	105, 135, 165	2.0-6.0	35-45	23	62, 92, 122	27.5	33, 37.1, 41.3	20.000
BT50-VC13-□	105, 135, 165	3.0-12.0	50-60	29	62, 92, 122	40	44.6, 48.6, 53	20.000
NBT30-VC6-□	45, 60, 90	2.0-6.0	35-45	23	23, 35, 65	27.5	27.5, 31.7, 33.4	40.000
NBT30-VC13-□	60, 90, 120	3.0-12.0	50-60	29	37, 67, 97	40	41.1, 41.3, 42.4	40.000
NBT40-VC6-□	60, 90, 120	2.0-6.0	35-45	23	30, 60, 90	27.5	30, 32.7, 36.9	30.000
NBT40-VC13-□	60, 90, 120	3.0-12.0	50-60	29	31, 60, 90	40	40.3, 44.3, 48.5	30.000
NBT50-VC6-□	105, 135, 165	2.0-6.0	35-45	23	62, 92, 122	27.5	33, 37.1, 41.3	20.000
NBT50-VC13-□	105, 135, 165	3.0-12.0	50-60	29	62, 92, 122	40	44.6, 48.6, 53	20.000
MBT40-VC6-□	60, 90, 120	2.0-6.0	35-45	23	30, 60, 90	27.5	30, 32.7, 36.9	30.000
MBT40-VC13-□	60, 90, 120	3.0-12.0	50-60	29	31, 60, 90	40	40.3, 44.3, 48.5	30.000
MBT50-VC6-□	105, 135, 165	2.0-6.0	35-45	23	62, 92, 122	27.5	33, 37.1, 41.3	20.000
MBT50-VC13-□	105, 135, 165	3.0-12.0	50-60	29	62, 92, 122	40	44.6, 48.8, 53	20.000

VC Holder- NBT



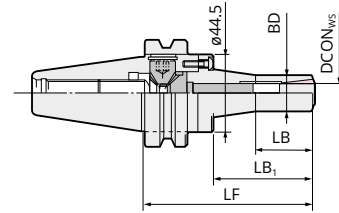
Rollenschlüssel	Spannzange	Jet Typ Spannmutter	Jet Abdeckkappe	O-Ring Abdeckkappe	Anschlagschraube	Abdeckkappen- schlüssel
GH10	VCK6-□	VCN-6BJ	SKJ10-□	SKJ10-□C	VCG6-8A	SKJL-10
GH16	VCK13-□	VCN-13BJ	SKJ16-□	SKJ16-□C	VCG13-15A	SKJL-16
GH10	VCK6-□	VCN-6BJ	SKJ10-□	SKJ10-□C	VCG6-8A	SKJL-10
GH16	VCK13-□	VCN-13BJ	SKJ16-□	SKJ16-□C	VCG13-15A	SKJL-16
GH10	VCK6-□	VCN-6BJ	SKJ10-□	SKJ10-□C	VCG6-8A	SKJL-10
GH16	VCK13-□	VCN-13BJ	SKJ16-□	SKJ16-□C	VCG13-15A	SKJL-16
GH10	VCK6-□	VCN-6BJ	SKJ10-□	SKJ10-□C	VCG6-8A	SKJL-10
GH16	VCK13-□	VCN-13BJ	SKJ16-□	SKJ16-□C	VCG13-15A	SKJL-16
GH10	VCK6-□	VCN-6BJ	SKJ10-□	SKJ10-□C	VCG6-8A	SKJL-10
GH16	VCK13-□	VCN-13BJ	SKJ16-□	SKJ16-□C	VCG13-15A	SKJL-16
GH10	VCK6-□	VCN-6BJ	SKJ10-□	SKJ10-□C	VCG6-8A	SKJL-10
GH16	VCK13-□	VCN-13BJ	SKJ16-□	SKJ16-□C	VCG13-15A	SKJL-16
GH10	VCK6-□	VCN-6BJ	SKJ10-□	SKJ10-□C	VCG6-8A	SKJL-10
GH16	VCK13-□	VCN-13BJ	SKJ16-□	SKJ16-□C	VCG13-15A	SKJL-16

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MINI MINI - BT / NBT / MBT



Mini Mini - BT, NBT

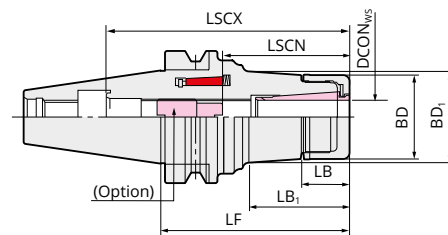


Bezeichnung	LF	DCON _{ws}	LSCN	LB	LB ₁
BT30-MMC8-105-AA	105	2.0-8.0	9.4-15.0	33	42
BT30-MMC12-105-AA	105	4.0-12.0	20.0-31.0	35	44
BT40-MMC8-□-AA	90, 120, 150, 180	2.0-8.0	9.4-15.0	33, 40, 40, 70	42, 72, 102, 132
BT40-MMC12-□-AA	90, 120, 150, 180	4.0-12.0	20.0-31.0	35, 60, 70, 100	44, 74, 104, 134
BT50-MMC8-□-AA	105, 135, 165, 195	2.0-8.0	9.4-15.0	33, 40, 40, 70	42, 72, 102, 132
BT50-MMC12-□-AA	105, 135, 165, 195	4.0-12.0	20.0-31.0	35, 60, 70, 100	44, 74, 104, 134
NBT30-MMC8-105	105	2.0-8.0	9.4-15.0	33	42
NBT30-MMC12-105	105	4.0-12.0	20.0-31.0	35	44
NBT40-MMC8-□	90, 120, 150	2.0-8.0	9.4-15.0	33, 40, 40, 70	42, 72, 102, 132
NBT40-MMC12-□	90, 120, 150	4.0-12.0	20.0-31.0	35, 60, 70, 100	44, 74, 104, 134
NBT50-MMC8-□	105, 135, 165, 195	2.0-8.0	9.4-15.0	33, 40, 40, 70	42, 72, 102, 132
NBT50-MMC12-□	105, 135, 165, 195	4.0-12.0	20.0-31.0	35, 60, 70, 100	44, 74, 104, 134
MBT40-MMC8-□	90, 120	2.0-8.0	9.4-15.0	36, 43	42, 72
MBT40-MMC12-□	90, 120	4.0-12.0	20.0-31.0	35, 60	44, 74
MBT50-MMC8-□	105, 135, 165	2.0-8.0	9.4-15.0	36, 43, 43	42, 72, 102
MBT50-MMC12-□	105, 135, 165	4.0-12.0	20.0-31.0	35, 60, 70	44, 74, 104

MAJOR DREAM HOLDER - NBT



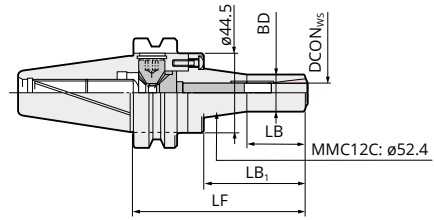
Major Dream Holder - NBT



Bezeichnung	LF	DCON _{ws}	LSCN	LSCX	LB	LB ₁	BD
NBT30-MDSK6-□	50, 60, 75, 90	3.0-6.0	21-35	73, 83, 98, 113	16.2	19.5, 25.5, 40.5, 55.5	19.5
NBT30-MDSK10-□	50, 60, 75, 90	3.0-10.0	30-50	72, 82, 97, 112	18	19, 25.7, 42.9, 58.7	27.5
NBT30-MDSK13-60	60	3.0-13.0	31-43	83	22	29	33
NBT30-MDSK13-□	75, 90	3.0-13.0	31-60	98, 113	22	45, 60	33
NBT30-MDSK16-75	75	3.0-16.0	45-60	60	23	47,5	40
NBT30-MDSK16-90	90	3.0-16.0	45-70	75	23	62,5	40
NBT40-MDSK6-□	60, 75, 90, 105, 120	3.0-6.0	21-35	86, 101, 116, 131, 146	16.2	18, 33, 48, 63, 78	19.5
NBT40-MDSK10-□	60, 75, 90, 105, 120, 150	3.0-10.0	30-50	86, 101, 116, 131, 146, 176	18	19, 33, 48, 63, 78, 110	27.5
NBT40-MDSK13-□	65, 75, 90, 105, 120, 150, 180	3.0-13.0	31-60	91, 101, 116, 131, 146, 176, 206	22	24, 33, 48, 63, 78, 110, 144	33
NBT40-MDSK16-65	65	3.0-16.0	45-60	91	23	24	40



Mini Mini - MBT



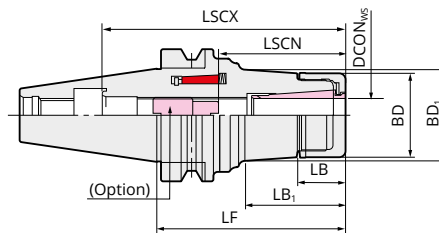
BD	Max. U/min	Spannzange (Standard)	Spannzange metallisch dichtend	Jet Spannzange
20	30.000	PMK8-□	VMK8-□J	VMK8-□
30	30.000	PMK12-□	VMK12-□J	VMK12-□
20	30.000	PMK8-□	VMK8-□J	VMK8-□
30	30.000	PMK12-□	VMK12-□J	VMK12-□
20	20.000	PMK8-□	VMK8-□J	VMK8-□
30	20.000	PMK12-□	VMK12-□J	VMK12-□
20	30.000	PMK8-□	VMK8-□J	VMK8-□
30	30.000	PMK12-□	VMK12-□J	VMK12-□
20	30.000	PMK8-□	VMK8-□J	VMK8-□
30	30.000	PMK12-□	VMK12-□J	VMK12-□
20	20.000	PMK8-□	VMK8-□J	VMK8-□
30	20.000	PMK12-□	VMK12-□J	VMK12-□
20	30.000	PMK8-□	VMK8-□J	VMK8-□
30	30.000	PMK12-□	VMK12-□J	VMK12-□
20	20.000	PMK8-□	VMK8-□J	VMK8-□
30	20.000	PMK12-□	VMK12-□J	VMK12-□

BD ₁	Max. U/min	Rollenschlüssel	Spannzange	Anschlag-schraube	Jet Typ Spannmutter	Jet Abdeck-kappe	O-Ring Abdeckkappe	Abdeckkappen-schlüssel
20, 20.8, 22.9, 25	40.000	GH6	SK6-□A	SKG-8	MDSKN-6KJ	SKJ6-□	SKJ6-□C	SKJL-6
27.5, 28.6, 31, 33.2	40.000	GH10	SK10-□A	SKG-12L	MDSKN-10KJ	SKJ10-□	SKJ10-□C	SKJL-10
34	40.000	GH12	SK13-□A	SKG-15	MDSKN-13BJ	SKJ16-□	SKJ16-□C	SKJL-16
36.2, 38.3	40.000	GH12	SK13-□A	SKG-15	MDSKN-13BJ	SKJ16-□	SKJ16-□C	SKJL-16
40	40.000	GH16	SK16-□A	SKG-12L	MDSKN-16BJ	SKJ16-□	SKJ16-□C	SKJL-16
40	40.000	GH16	SK16-□A	SKG-12	MDSKN-16BJ	SKJ16-□	SKJ16-□C	SKJL-16
19.5, 21.9, 24, 26.1, 28.2	30.000	GH6	SK6-□A	SKG-8	MDSKN-6KJ	SKJ6-□	SKJ6-□C	SKJL-6
27.5, 29.6, 31.7, 33.8, 35.9, 40.4	30.000	GH10	SK10-□A	SKG-12L	MDSKN-10KJ	SKJ10-□	SKJ10-□C	SKJL-10
33, 34.6, 36.7, 38.8, 40.9, 45.4, 50.1	30.000	GH12	SK13-□A	SKG-15	MDSKN-13BJ	SKJ16-□	SKJ16-□C	SKJL-16
40	30.000	GH16	SK16-□A	SKG-18L	MDSKN-16BJ	SKJ16-□	SKJ16-□C	SKJL-16

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Major Dream Holder - NBT

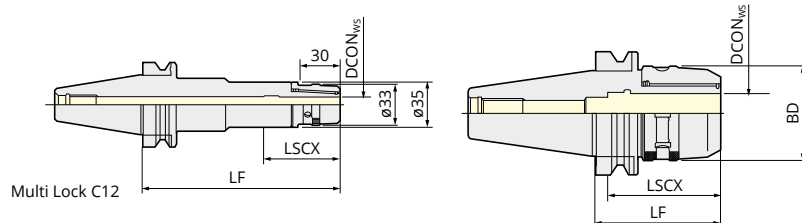


Bezeichnung	LF	DCON _{ws}	LSCN	LSCX	LB	LB ₁	BD
NBT40-MDSK16-□	75, 90, 105, 120, 150	3.0-16.0	45-70	101, 116, 131, 146, 176	23	33, 48, 64, 80, 113	40
NBT40-MDSK20-75	75	4.0-20.0	50-73	80	25.2	41,2	48
NBT40-MDSK20-90	90	4.0-20.0	50-73	95	25.2	55	48
NBT40-MDSK20-105	105	4.0-20.0	50-73	110	25.2	70	48
NBT40-MDSK20-120	120	4.0-20.0	50-73	125	25.2	85	48
NBT50-MDSK6-□	105, 120	3.0-6.0	21-35	116, 131	16.5	48, 63	19.5
NBT50-MDSK10-□	105, 120, 135, 165, 195	3.0-10.0	30-50	116, 131, 146, 176, 206	18.2	48, 63.2, 78.2, 110.2, 141.2	27.5
NBT50-MDSK13-□	105, 120, 135, 165, 195	3.0-13.0	31-60	116, 131, 146, 176, 206	22	48, 63, 78, 110, 144	33
NBT50-MDSK16-□	105, 120, 135, 165, 195	3.0-16.0	45-70	116, 131, 146, 176, 206	23	48, 64, 80.1, 114.7, 144.6	40
NBT50-MDSK20-□	105, 135, 165, 195	4.0-20.0	47-80	159, 175, 205, 235	25.2	42.3, 72, 102, 132	48
NBT50-MDSK25-□	105, 135, 165, 195	8.0-25.4	55-85	159, 175, 205, 235	27	42.3, 74, 105, 135	55

MULTI LOCK STANDARD - BT / NBT / MBT



Multi Lock - BT

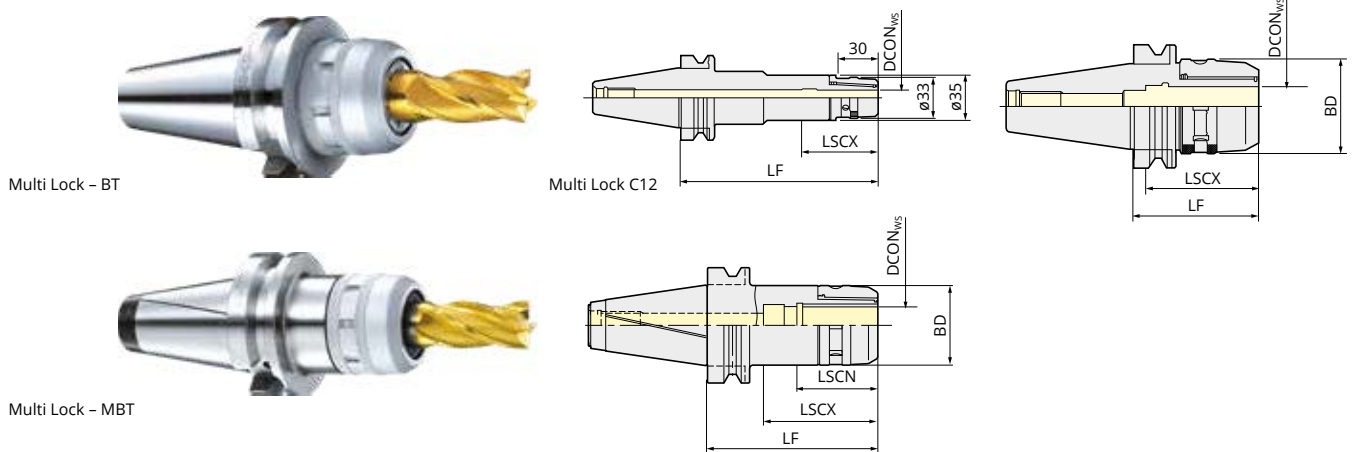


Bezeichnung	LF	DCON _{ws}	LSCN	LSCX	BD	Max. U/min
BT30-C12-55	55	2.0-12.0	40	58	33	15.000
BT30-C16-55	55	2.0-16.0	47.5	65	44	10.000
BT30-C20-□	65, 75	2.0-20.0	53	80	52	6.000
BT30-C25-□	75, 80	3.0-25.0	59	68	55	5.000
BT30-C32-□	90, 100	3.0-32.0	64.5	68, 76	64	5.000
BT40-C12-□	65, 90, 120	2.0-12.0	40	58, 65, 65	33	15.000
BT40-C16-□	60, 90, 120	2.0-16.0	47.5	65	44	10.000
BT40-C20-□	70, 90, 105, 120	2.0-20.0	53	80	52	7.000
BT40-C25-□	70, 90, 120	3.0-25.0	59	80	60	6.000
BT40-C32-□	85, 105, 120	3.0-32.0	64.5	77, 90, 105	69	6.000
BT50-C12-□	105, 135, 165	2.0-12.0	40	58	33	15.000
BT50-C16-□	105, 135, 165	2.0-16.0	47.5	65	44	10.000
BT50-C20-□	105, 135, 165, 180	2.0-20.0	53	80	52	8.000
BT50-C25-□	105, 135, 165	3.0-25.0	59	80	60	8.000
BT50-C32-□	90, 105, 120, 135, 165, 200, 250, 300, 400, 500	3.0-32.0	64.5	105	69	6.000
BT50-C42-□	90, 105, 120, 135, 165, 200, 250, 300, 400, 500	3.0-42.0	73-78	125	86	5.000

BD ₁	Max. U/min	Rollenschlüssel	Spannzange	Anschlag-schraube	Jet Typ Spannmutter	Jet Abdeck-kappe	O-Ring Abdeckkappe	Abdeckkappen-schlüssel
41.4, 43.5, 45.8, 48, 52.6	30.000	GH16	SK16-□A	SKG-18L	MDSKN-16BJ	SKJ16-□	SKJ16-□C	SKJL-16
51,3	30.000	GH20	SK20-□A	SKG-12	MDSKN-20BJ	SKJ25-□	SKJ25-□C	SKJL-25
53,2	30.000	GH20	SK20-□A	SKG-12-55L	MDSKN-20BJ	SKJ25-□	SKJ25-□C	SKJL-25
52,2	30.000	GH20	SK20-□A	SKG-12-70L	MDSKN-20BJ	SKJ25-□	SKJ25-□C	SKJL-25
53,2	30.000	GH20	SK20-□A	SKG-12-85L	MDSKN-20BJ	SKJ25-□	SKJ25-□C	SKJL-25
24, 26.1	20.000	GH6	SK6-□A	SKG-8	MDSKN-6KJ	SKJ6-□	SKJ6-□C	SKJL-6
31, .7, 33.8, 35.9, 40.4, 44.8	20.000	GH10	SK10-□A	SKG-12L	MDSKN-10KJ	SKJ10-□	SKJ10-□C	SKJL-10
36.7, 38.8, 40.9, 45.4, 50.1	20.000	GH12	SK13-□A	SKG-15	MDSKN-13BJ	SKJ16-□	SKJ16-□C	SKJL-16
43.5, 45.8, 48, 52.6, 52.8	20.000	GH16	SK16-□A	SKG-18L	MDSKN-16BJ	SKJ16-□	SKJ16-□C	SKJL-16
51.4, 55.6, 59.8, 64	20.000	GH20	SK20-□A	SKG-22	MDSKN-20BJ	SKJ25-□	SKJ25-□C	SKJL-25
57.2, 61.6, 66, 70.2	20.000	GH25	SK25-□A	SKG-28	MDSKN-25BJ	SKJ25-□	SKJ25-□C	SKJL-25

Spannschlüssel	Spannzange	Jet Abdeckkappe	O-Ring Abdeckkappe	Abdeckkappenschlüssel
9HC12A	CCK12-□, KM12-□	CKFN12-□	CKFN12-□C	CCKLN12
9HC16	CCK16-□, KM16-□	CKFN16-□	CKFN16-□C	CCKLN16
9HC22	CCK20-□, CCNK20-□, KM20-□, NK20-□	CKFN20-□	CKFN20-□C	CCKLN20
9HC22	CCK25-□, CCNK25-□, KM25-□, NK25-□	CKFN25-□	CKFN25-□C	CCKLN25
9HC25	CCK32-□, CCNK32-□, KM32-□, NK32-□	CKFN32T-□	CKFN32-□C	CCKLN32
9HC12A	CCK12-□, KM12-□	CKFN12-□	CKFN12-□C	CCKLN12
9HC16	CCK16-□, KM16-□	CKFN16-□	CKFN16-□C	CCKLN16
9HC22	CCK20-□, CCNK20-□, KM20-□, NK20-□	CKFN20-□	CKFN20-□C	CCKLN20
9HC25	CCK25-□, CCNK25-□, KM25-□, NK25-□	CKFN25-□	CKFN25-□C	CCKLN25
9HC32	CCK32-□, CCNK32-□, KM32-□, NK32-□	CKFN32-□	CKFN32-□C	CCKLN32
9HC12A	CCK12-□, KM12-□	CKFN12-□	CKFN12-□C	CCKLN12
9HC16	CCK16-□, KM16-□	CKFN16-□	CKFN16-□C	CCKLN16
9HC22	CCK20-□, CCNK20-□, KM20-□, NK20-□	CKFN20-□	CKFN20-□C	CCKLN20
9HC25	CCK25-□, CCNK25-□, KM25-□, NK25-□	CKFN25-□	CKFN25-□C	CCKLN25
9HC32	CCK32-□, CCNK32-□, KM32-□, NK32-□	CKFN32-□	CKFN32-□C	CCKLN32
9HC42	CCK42-□, CCNK42-□, KM42-□, NK42-□	CKFN42-□	CKFN42-□C	CCKLN42

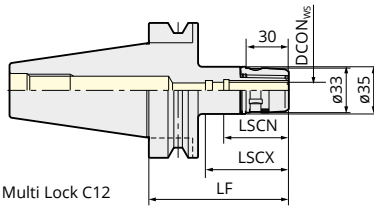
BT JIS B6339 / MAS 403



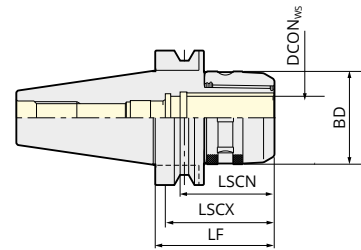
Bezeichnung	LF	DCON _{ws}	LSCN	LSCX	BD	Max. U/min
NBT30-C12-55	55	2.0-12.0	40	58	33	15.000
NBT30-C16-□	55, 70	2.0-16.0	47.5	65	44	10.000
NBT30-C20-□	65, 75	2.0-20.0	53	80	52	6.000
NBT30-C25-□	75, 80, 90	3.0-25.0	59	68, 68, 80	55	6.000
NBT30-C32-□	90, 100	3.0-32.0	64.5	68, 72	64	5.000
NBT40-C12-□	65, 90, 120	2.0-12.0	40	58	33	15.000
NBT40-C16-□	60, 75, 90, 105, 120	2.0-16.0	47.5	65	44	10.000
NBT40-C20-□	70, 90, 105, 120	2.0-20.0	53	80	52	7.000
NBT40-C25-□	70, 90, 120	3.0-25.0	59	80	60	6.000
NBT40-C32-□	85, 105, 120, 135	3.0-32.0	64.5	77, 81, 81, 81	69	6.000
NBT50-C12-□	105, 135, 165	2.0-12.0	40	58	33	15.000
NBT50-C16-□	105, 135, 165, 200	2.0-16.0	47.5	65	44	10.000
NBT50-C20-□	105, 135, 165, 180, 200	2.0-20.0	53	80	52	8.000
NBT50-C25-□	105, 135, 165, 200	3.0-25.0	59	80	60	8.000
NBT50-C32-□	90, 105, 120, 135, 165, 200, 250, 300, 400, 500	3.0-32.0	64.5	81	69	6.000
NBT50-C42-□	90, 105, 120, 135, 165, 200, 250, 300, 400, 500	3.0-42.0	73-78	125	86	5.000
MBT40-C12-□	90, 120	2.0-12.0	40	58	33	15.000
MBT40-C16-□	60, 90, 120	2.0-16.0	47.5	65	44	10.000
MBT40-C20-□	70, 90, 120	2.0-20.0	53	80	52	7.000
MBT40-C25-□	70, 90, 120	3.0-25.0	59	80	60	6.000
MBT40-C32-85	85	3.0-32.0	64.5	75	69	6.000
MBT40-C32-□	105, 120	3.0-32.0	64.5	81	69	6.000
MBT50-C12-□	105, 165	2.0-12.0	40	53	33	15.000
MBT50-C16-□	105, 165, 200	2.0-16.0	47.5	58	44	10.000
MBT50-C20-□	105, 165, 200	2.0-20.0	53	66	52	8.000
MBT50-C25-□	105, 135, 165	3.0-25.0	59	72	60	8.000
MBT50-C32-□	90, 105, 120, 135, 165, 200, 250, 300	3.0-32.0	64.5	81	69	6.000
MBT50-C42-95	95	3.0-42.0	73-78	85	86	5.000
MBT50-C42-□	105, 120, 135, 165, 200, 250, 300	3.0-42.0	73-78	110, 125, 125, 125, 125	86	5.000



Multi Lock - NBT



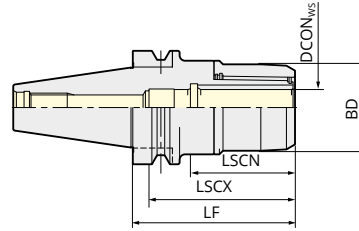
Multi Lock C12



Spann Schlüssel	Spannzange	Jet Abdeckkappe	O-Ring Abdeckkappe	Abdeckkappenschlüssel
9HC12A	CCK12-□, KM12-□	CKFN12-□	CKFN12-□C	CCKLN12
9HC16	CCK16-□, KM16-□	CKFN16-□	CKFN16-□C	CCKLN16
9HC22	CCK20-□, CCNK20-□, KM20-□, NK20-□	CKFN20-□	CKFN20-□C	CCKLN20
9HC22	CCK25-□, CCNK25-□, KM25-□, NK25-□	CKFN25-□	CKFN25-□C	CCKLN25
9HC25	CCK32-□, CCNK32-□, KM32-□, NK32-□	CKFN32T-□	CKFN32-□C	CCKLN32
9HC12A	CCK12-□, KM12-□	CKFN12-□	CKFN12-□C	CCKLN12
9HC16	CCK16-□, KM16-□	CKFN16-□	CKFN16-□C	CCKLN16
9HC22	CCK20-□, CCNK20-□, KM20-□, NK20-□	CKFN20-□	CKFN20-□C	CCKLN20
9HC25	CCK25-□, CCNK25-□, KM25-□, NK25-□	CKFN25-□	CKFN25-□C	CCKLN25
9HC32	CCK32-□, CCNK32-□, KM32-□, NK32-□	CKFN32-□	CKFN32-□C	CCKLN32
9HC12A	CCK12-□, KM12-□	CKFN12-□	CKFN12-□C	CCKLN12
9HC16	CCK16-□, KM16-□	CKFN16-□	CKFN16-□C	CCKLN16
9HC22	CCK20-□, CCNK20-□, KM20-□, NK20-□	CKFN20-□	CKFN20-□C	CCKLN20
9HC25	CCK25-□, CCNK25-□, KM25-□, NK25-□	CKFN25-□	CKFN25-□C	CCKLN25
9HC32	CCK32-□, CCNK32-□, KM32-□, NK32-□	CKFN32-□	CKFN32-□C	CCKLN32
9HC42	CCK42-□, CCNK42-□, KM42-□, NK42-□	CKFN42-□	CKFN42-□C	CCKLN42
9HC12A	CCK12-□, KM12-□	CKFN12-□	CKFN12-□C	CCKLN12
9HC16	CCK16-□, KM16-□	CKFN16-□	CKFN16-□C	CCKLN16
9HC22	CCK20-□, CCNK20-□, KM20-□, NK20-□	CKFN20-□	CKFN20-□C	CCKLN20
9HC25	CCK25-□, CCNK25-□, KM25-□, NK25-□	CKFN25-□	CKFN25-□C	CCKLN25
9HC32	CCK32-□, KM32-□	CKFN32-□	CKFN32-□C	CCKLN32
9HC32	CCK32-□, CCNK32-□, KM32-□, NK32-□	CKFN32-□	CKFN32-□C	CCKLN32
9HC12A	CCK12-□, KM12-□	CKFN12-□	CKFN12-□C	CCKLN12
9HC16	CCK16-□, KM16-□	CKFN16-□	CKFN16-□C	CCKLN16
9HC22	CCK20-□, CCNK20-□, KM20-□, NK20-□	CKFN20-□	CKFN20-□C	CCKLN20
9HC25	CCK25-□, CCNK25-□, KM25-□, NK25-□	CKFN25-□	CKFN25-□C	CCKLN25
9HC32	CCK32-□, CCNK32-□, KM32-□, NK32-□	CKFN32-□	CKFN32-□C	CCKLN32
9HC42	CCK42-□, KM42-□	CKFN42-□	CKFN42-□C	CCKLN42
9HC42	CCK42-□, CCNK42-□, KM42-□, NK42-□	CKFN42-□	CKFN42-□C	CCKLN42

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MULTI LOCK HIGH SPEED - BT / NBT / MBT

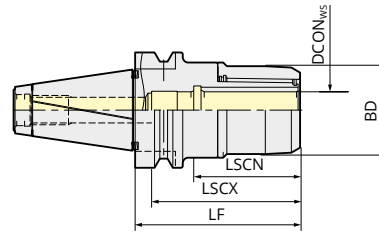


Multi Lock High Speed – BT, NBT

Bezeichnung	LF	DCON _{WS}	LSCN	LSCX	BD	Max. U/min	Rollenschlüssel
BT30-C12-55G	55G	2.0-12.0	40	58	33	40.000	GH12
BT30-C16-55G	55G	2.0-16.0	47.5	65	40	40.000	GH16
BT30-C20-□	65G, 75G	2.0-20.0	53	80	48	30.000	GH20
BT30-C25-□	75G, 80G	3.0-25.0	59	68	55	25.000	GH25
BT30-C32-□	90G, 100G	3.0-32.0	64.5	68, 76	62	10.000	GH32S
BT40-C12-□	65G, 90G	2.0-12.0	40	58	33	30.000	GH12
BT40-C16-□	60G, 90G	2.0-16.0	47.5	65	40	25.000	GH16
BT40-C20-□	70G, 90G	2.0-20.0	53	80	48	25.000	GH20
BT40-C25-□	70G, 90G	3.0-25.0	59	80	55	20.000	GH25
BT40-C32-□	85G, 105G	3.0-32.0	64.5	77, 90	68	20.000	GH32
BT50-C12-□	105G, 135G	2.0-12.0	40	58	33	20.000	GH12
BT50-C16-□	105G, 135G	2.0-16.0	47.5	65	40	20.000	GH16
BT50-C20-□	105G, 135G	2.0-20.0	53	80	48	20.000	GH20
BT50-C25-□	105G, 135G	3.0-25.0	59	80	55	15.000	GH25
BT50-C32-□	90G, 105G, 120G, 135G, 165G	3.0-32.0	64.5	105	68	15.000	GH32
BT50-C42-□	90P, 105P, 120P	3.0-42.0	73-78	125	86	12.000	GH42
NBT30-C12-55G	55G	2.0-12.0	40	58	33	40.000	GH12
NBT30-C16-55G-□	55G, 70G	2.0-16.0	47.5	65	40	40.000	GH16
NBT30-C20-□	65G, 75G	2.0-20.0	53	80	48	30.000	GH20
NBT30-C25-□	75G, 80G, 90G	3.0-25.0	59	68, 68, 80	55	25.000	GH25
NBT30-C32-□	90G, 100G	3.0-32.0	64.5	68, 76	62	10.000	GH32S
NBT40-C12-□	65G, 90G	2.0-12.0	40	58	33	30.000	GH12
NBT40-C16-□	60G, 75G, 90G, 105G, 120G	2.0-16.0	47.5	65	40	25.000	GH16
NBT40-C20-□	70G, 90G, 105G, 120G	2.0-20.0	53	80	48	25.000	GH20
NBT40-C25-□	70G, 90G, 105G, 120G	3.0-25.0	59	80	55	20.000	GH25
NBT40-C32-□	85G, 105G, 120G, 135G	3.0-32.0	64.5	107	68	20.000	GH32
NBT50-C12-□	105G, 135G, 165G	2.0-12.0	40	58	33	20.000	GH12
NBT50-C16-□	105G, 135G, 165G, 200G	2.0-16.0	47.5	65	40	20.000	GH16
NBT50-C20-□	105G, 135G, 165G, 180G, 200G	2.0-20.0	53	80	48	20.000	GH20
NBT50-C25-□	105G, 135G, 165G, 200G	3.0-25.0	59	80	55	15.000	GH25
NBT50-C32-□	90G, 105G, 120G, 135G, 165G, 200G	3.0-32.0	64.5	107	68	15.000	GH32
NBT50-C42-□	95P, 105P, 120P	3.0-42.0	73-78	125	86	12.000	GH42
MBT40-C12-90G	90G	2.0-12.0	40	58	33	25.000	GH12
MBT40-C16-□	60G, 90G	2.0-16.0	47.5	65	40	25.000	GH16
MBT40-C20-□	70G, 90G	2.0-20.0	53	80	48	25.000	GH20
MBT40-C25-□	70G, 90G, 120G	3.0-25.0	59	75	55	20.000	GH25
MBT40-C32-□	85G, 105G	3.0-32.0	64.5	81	68	20.000	GH32
MBT50-C12-105G	105G	2.0-12.0	40	58	33	20.000	GH12
MBT50-C16-105G	105G	2.0-16.0	47.5	65	40	20.000	GH16
MBT50-C20-105G	105G	2.0-20.0	53	80	48	20.000	GH20
MBT50-C25-105G	105G	3.0-25.0	59	80	55	15.000	GH25
MBT50-C32-□	90G, 105G, 120G	3.0-32.0	64.5	81	68	15.000	GH32
MBT50-C42-□	95P, 105P	3.0-42.0	73-78	85, 110	86	12.000	GH42



Multi Lock High Speed – MBT



Spannzange	Jet Abdeckkappe	O-Ring Abdeckkappe	Anschlagschraube	Abdeckkappenschlüssel
CCK12-□, KM12-□	CKFN12-□	CKFN12-□C	-	CCKLN12
CCK16-□, KM16-□	CKFN16-□	CKFN16-□C	-	CCKLN16
CCK20-□, CCNK20-□, KM20-□, NK20-□	CKFN20-□	CKFN20-□C	9MC20H	CCKLN20
CCK25-□, CCNK25-□, KM25-□, NK25-□	CKFN25-□	CKFN25-□C	9MC25H	CCKLN25
CCK32-□, CCNK32-□, KM32-□, NK32-□	CKFN32T-□	CKFN32-□C	9MC32H	CCKLN32
CCK12-□, KM12-□	CKFN12-□	CKFN12-□C	-	CCKLN12
CCK16-□, KM16-□	CKFN16-□	CKFN16-□C	-	CCKLN16
CCK20-□, CCNK20-□, KM20-□, NK20-□	CKFN20-□	CKFN20-□C	9MC20H	CCKLN20
CCK25-□, CCNK25-□, KM25-□, NK25-□	CKFN25-□	CKFN25-□C	9MC25H	CCKLN25
CCK32-□, CCNK32-□, KM32-□, NK32-□	CKFN32-□	CKFN32-□C	9MC32H	CCKLN32
CCK12-□, KM12-□	CKFN12-□	CKFN12-□C	-	CCKLN12
CCK16-□, KM16-□	CKFN16-□	CKFN16-□C	-	CCKLN16
CCK20-□, CCNK20-□, KM20-□, NK20-□	CKFN20-□	CKFN20-□C	-	CCKLN20
CCK25-□, CCNK25-□, KM25-□, NK25-□	CKFN25-□	CKFN25-□C	-	CCKLN25
CCK32-□, CCNK32-□, KM32-□, NK32-□	CKFN32-□	CKFN32-□C	-	CCKLN32
CCK42-□, CCNK42-□, KM42-□, NK42-□	CKFN42-□	CKFN42-□C	-	CCKLN42
CCK12-□, KM12-□	CKFN12-□	CKFN12-□C	-	CCKLN12
CCK16-□, KM16-□	CKFN16-□	CKFN16-□C	-	CCKLN16
CCK20-□, CCNK20-□, KM20-□, NK20-□	CKFN20-□	CKFN20-□C	9MC20H	CCKLN20
CCK25-□, CCNK25-□, KM25-□, NK25-□	CKFN25-□	CKFN25-□C	9MC25H	CCKLN25
CCK32-□, CCNK32-□, KM32-□, NK32-□	CKFN32T-□	CKFN32-□C	9MC32H	CCKLN32
CCK12-□, KM12-□	CKFN12-□	CKFN12-□C	-	CCKLN12
CCK16-□, KM16-□	CKFN16-□	CKFN16-□C	-	CCKLN16
CCK20-□, CCNK20-□, KM20-□, NK20-□	CKFN20-□	CKFN20-□C	9MC20H	CCKLN20
CCK25-□, CCNK25-□, KM25-□, NK25-□	CKFN25-□	CKFN25-□C	9MC25H	CCKLN25
CCK32-□, CCNK32-□, KM32-□, NK32-□	CKFN32-□	CKFN32-□C	9MC32H	CCKLN32
CCK12-□, KM12-□	CKFN12-□	CKFN12-□C	-	CCKLN12
CCK16-□, KM16-□	CKFN16-□	CKFN16-□C	-	CCKLN16
CCK20-□, CCNK20-□, KM20-□, NK20-□	CKFN20-□	CKFN20-□C	9MC20H	CCKLN20
CCK25-□, CCNK25-□, KM25-□, NK25-□	CKFN25-□	CKFN25-□C	9MC25H	CCKLN25
CCK32-□, CCNK32-□, KM32-□, NK32-□	CKFN32T-□	CKFN32-□C	9MC32H	CCKLN32
CCK12-□, KM12-□	CKFN12-□	CKFN12-□C	-	CCKLN-12
CCK16-□, KM16-□	CKFN16-□	CKFN16-□C	-	CCKLN16
CCK20-□, CCNK20-□, KM20-□, NK20-□	CKFN20-□	CKFN20-□C	9MC20H	CCKLN20
CCK25-□, CCNK25-□, KM25-□, NK25-□	CKFN25-□	CKFN25-□C	9MC25H	CCKLN25
CCK32-□, CCNK32-□, KM32-□, NK32-□	CKFN32-□	CKFN32-□C	9MC32H	CCKLN32
CCK42-□, CCNK42-□, KM42-□, NK42-□	CKFN42-□	CKFN42-□C	9MC42H	CCKLN42

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X-TREME - NBT



X-Treme - NBT

Bezeichnung	LF	DCON _{ws}	LSCN	BD	Max. U/min	Rollenschlüssel
NBT40-C12EX-86	86	12	57	40	15.000	GH16
NBT40-C16EX-96	96	16	67	48	10.000	GH20
NBT40-C20EX-96	96	20	70	55	7.000	GH25
NBT50-C12EX-96	96	12	57	40	15.000	GH16
NBT50-C16EX-106	106	16	67	48	10.000	GH20
NBT50-C20EX-116	116	20	70	55	8.000	GH25
NBT50-C25EX-116	116	25	76	55	8.000	GH25
NBT50-C32EX-121	121	32	82	68	6.000	GH32
NBT50-C42EX-126	126	42	85	86	7.000	9HC42

ZERO FIT SLIM CHUCK - BT / NBT / MBT



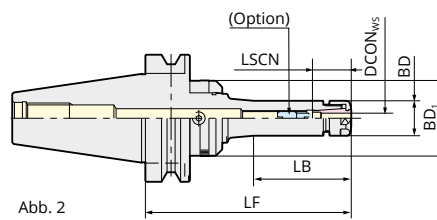
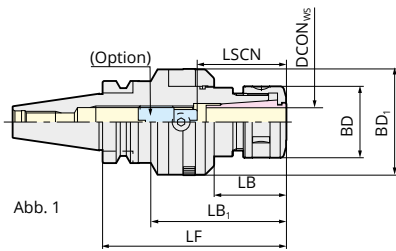
Zero Fit Slim Chuck - BT, NBT



Zero Fit Slim Chuck - MBT

Bezeichnung	LF	DCON _{ws}	LSCN	LB	LB ₁	BD	BD ₁	Max. U/min	Spann- schlüssel
BT30-SZF6-90	90	0.7-6.0	21-35	42	-	19.5	40.5	15.000	SKL-6W
BT30-SZF10-90	90	1.75-10.0	30-50	35	61	27.5	48.5	15.000	SKL-10
BT30-SZF16-105	105	2.75-16.0	45-65	40	76	40	59.5	10.000	9HC16
BT40-SZF6-□	90, 150	0.7-6.0	21-35	37, 60	-	19.5	40.5, 48.5	15.000	SKL-6W
BT40-SZF10-□	90, 150	1.75-10.0	30-50	37, 97	-	27.5	48.5	15.000	SKL-10
BT40-SZF16-□	90, 150	2.75-16.0	45-65	37, 97	-	40	59.5	12.000	9HC16
BT40-SZF25-□	120, 150	7.5-25.4	55-85	55, 86	84, 114	55	66.5	10.000	9HC25
BT50-SZF6-□	105, 165	0.7-6.0	21-35	41, 63	-	19.5	40.5, 59.5	15.000	SKL-6W
BT50-SZF10-□	105, 165	1.75-10.0	30-50	41, 101	-	27.5	48.5	15.000	SKL-10
BT50-SZF16-□	105, 165	2.75-16.0	45-65	41, 101	-	40	59.5	12.000	9HC16
BT50-SZF25-□	135, 165	7.5-25.4	55-85	71, 101	-	55	66.5	10.000	9HC25
NBT30-SZF6C-90	90	0.7-6.0	21-35	42	-	19.5	40.5	15.000	SKL-6W
NBT30-SZF10C-90	90	1.75-10.0	30-50	35	61	27.5	48.5	15.000	SKL-10
NBT30-SZF16C-105	105	2.75-16.0	45-65	40	76	40	59.5	10.000	9HC16
NBT40-SZF6C-□	90, 150	0.7-6.0	21-35	37, 60	-	19.5	40.5, 48.5	15.000	SKL-6W
NBT40-SZF10C-□	90, 150	1.75-10.0	30-50	37, 97	-	27.5	48.5	15.000	SKL-10
NBT40-SZF16C-□	90, 150	2.75-16.0	45-65	37, 97	-	40	59.5	12.000	9HC16
NBT40-SZF25C-□	120, 150	7.5-25.4	55-85	55, 86	84, 114	55	66.5	10.000	9HC25
NBT50-SZF6C-□	105, 165	0.7-6.0	21-35	41, 63	-	19.5	40.5, 59.5	15.000	SKL-6W
NBT50-SZF10C-□	105, 165	1.75-10.0	30-50	41, 101	-	27.5	48.5	15.000	SKL-10

Anschlagscheibe mit O-Ring	Frontscheibe	Anschlagscheibe mit Jet	Frontscheibe mit Jet
9MC12HEX-6L	9C12SL-FS-EX-A1	9MC12HEX-6L-J	9C12SL-FS-EX-A-J1
9MC16HEX-6.5L	9C16SL-FS-EX-A1	9MC16HEX-6.5L-J	9C16SL-FS-EX-A-J1
9MC20HEX-7L	9C20-FS-EX-A1	9MC20HEX-7L-J	9C20-FS-EX-A-J1
9MC12HEX-6L	9C12SL-FS-EX-A1	9MC12HEX-6L-J	9C12SL-FS-EX-A-J1
9MC16HEX-6.5L	9C16SL-FS-EX-A1	9MC16HEX-6.5L-J	9C16SL-FS-EX-A-J1
9MC20HEX-12L	9C20-FS-EX-A1	9MC20HEX-12L-J	9C20-FS-EX-A-J1
9MC25HEX-6.2L	9C25SL-FS-EX-A1	9MC25HEX-6.2L-J	9C25SL-FS-EX-A-J1
9MC32HEX-7L	9C32SL-FS-EX-A1	9MC32HEX-7L-J	9C32SL-FS-EX-A-J1
9MC42HEX-9L	9C42SL-FS-EX-A1	9MC42HEX-9L-J	9C42SL-FS-EX-A-J1



Spannzange	Anschlagschraube	TiN Spannmutter (Standard)	Jet Typ Spannmutter	Jet Abdeckkappe	O-Ring Abdeckkappe	Abdeckkappenschlüssel	Abb.
SK6-□	SKG-8	SKN-6WK	SKN-6WKJ	SKJ6-□	SKJ6-□C	SKJL-6	2
SK10-□	SKG-12L	SKN-10K	SKN-10KJ	SKJ10-□	SKJ10-□C	SKJL-10	1
SK16-□	SKG-28	SKN-16B	SKN-16BJ	SKJ25-□	SKJ25-□C	SKJL-25	1
SK6-□	SKG-8	SKN-6WK	SKN-6WKJ	SKJ6-□	SKJ6-□C	SKJL-6	2
SK10-□	SKG-12L	SKN-10K	SKN-10KJ	SKJ10-□	SKJ10-□C	SKJL-10	2
SK16-□	SKG-18L	SKN-16B	SKN-16BJ	SKJ16-□	SKJ16-□C	SKJL-16	2
SK25-□	SKG-28	SKN-25B	SKN-25BJ	SKJ25-□	SKJ25-□C	SKJL-25	1
SK6-□	SKG-8	SKN-6WK	SKN-6WKJ	SKJ6-□	SKJ6-□C	SKJL-6	2
SK10-□	SKG-12L	SKN-10K	SKN-10KJ	SKJ10-□	SKJ10-□C	SKJL-10	2
SK16-□	SKG-18L	SKN-16B	SKN-16BJ	SKJ16-□	SKJ16-□C	SKJL-16	2
SK25-□	SKG-28	SKN-25B	SKN-25BJ	SKJ25-□	SKJ25-□C	SKJL-25	2
SK6-□	SKG-8	SKN-6WK	SKN-6WKJ	SKJ6-□	SKJ6-□C	SKJL-6	2
SK10-□	SKG-12L	SKN-10K	SKN-10KJ	SKJ10-□	SKJ10-□C	SKJL-10	1
SK25-□	SKG-28	SKN-25B	SKN-25BJ	SKJ25-□	SKJ25-□C	SKJL-25	1
SK6-□	SKG-8	SKN-6WK	SKN-6WKJ	SKJ6-□	SKJ6-□C	SKJL-6	2
SK10-□	SKG-12L	SKN-10K	SKN-10KJ	SKJ10-□	SKJ10-□C	SKJL-10	2
SK16-□	SKG-18L	SKN-16B	SKN-16BJ	SKJ16-□	SKJ16-□C	SKJL-16	2
SK25-□	SKG-28	SKN-25B	SKN-25BJ	SKJ25-□	SKJ25-□C	SKJL-25	1
SK6-□	SKG-8	SKN-6WK	SKN-6WKJ	SKJ6-□	SKJ6-□C	SKJL-6	2
SK10-□	SKG-12L	SKN-10K	SKN-10KJ	SKJ10-□	SKJ10-□C	SKJL-10	2

BT JIS B6339 / MAS 403



Zero Fit Slim Chuck – BT, NBT



Zero Fit Slim Chuck – MBT

Bezeichnung	LF	DCON _{WS}	LSCN	LB	LB ₁	BD	BD ₁	Max. U/min	Spann-schlüssel
NBT50-SZF16C-□	105, 165	2.75-16.0	45-65	41, 101	-	40	59.5	12.000	9HC16
NBT50-SZF25C-□	135, 165	7.5-25.4	55-85	71, 101	-	55	66.5	10.000	9HC25
MBT40-SZF6C-□	90, 150	0.7-6.0	21-35	37, 60	-	19.5	40.5, 48.5	15.000	SKL-6W
MBT40-SZF10C-□	90, 150	1.75-10.0	30-50	37, 97	-	27.5	48.5	15.000	SKL-10
MBT40-SZF16C-□	90, 150	2.75-16.0	45-65	37, 97	-	40	59.5	12.000	9HC16
MBT40-SZF25C-□	120, 150	7.5-25.4	55-85	55, 86	84, 114	55	66.5	10.000	9HC25
MBT50-SZF6C-□	105, 165	0.7-6.0	21-35	41, 63	-	19.5	40.5, 59.5	15.000	SKL-6W
MBT50-SZF10C-□	105, 165	1.75-10.0	30-50	41, 101	-	27.5	48.5	15.000	SKL-10
MBT50-SZF16C-□	105, 165	2.75-16.0	45-65	41, 101	-	40	59.5	12.000	9HC16
MBT50-SZF25C-□	135, 165	7.5-25.4	55-85	71, 101	-	55	66.5	10.000	9HC25

ZERO FIT MULTI LOCK – BT / NBT / MBT



Zero Fit Multi Lock – BT, NBT

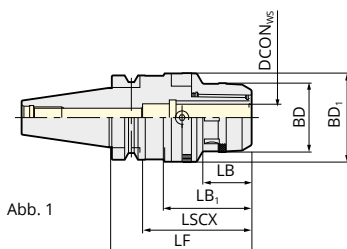


Abb. 1

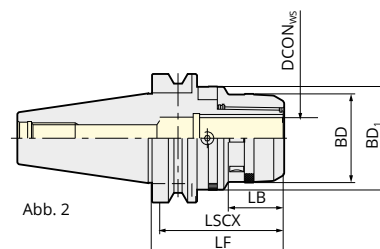
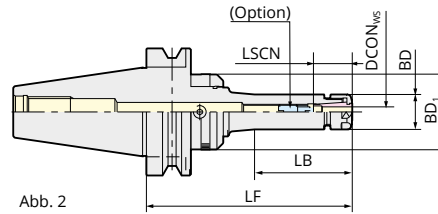
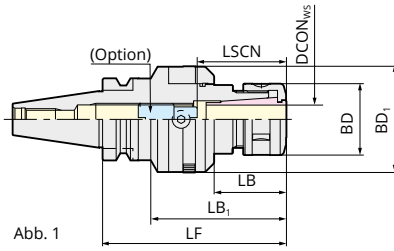


Abb. 2

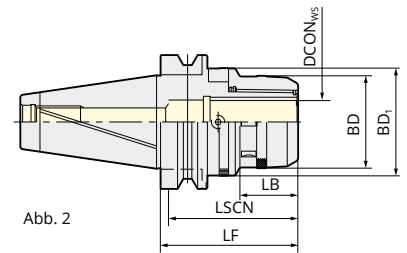
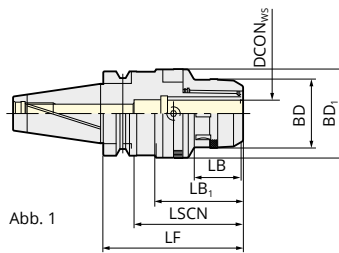
Bezeichnung	LF	DCON _{WS}	LSCN	LSCX	LB	LB ₁	BD	BD ₁	Max. U/min
BT30-CZF20-100	100	2.0-20.0	53	80	35	68	51.5	66,5	6.000
BT30-CZF25-100	100	3.0-25.0	59	80	35	68	59.5	74,5	5.000
BT40-CZF20-□	105, 120	2.0-20.0	53	80	35	64.5	51.5	66,5	7.000
BT40-CZF25-□	105, 120	3.0-25.0	59	80	35	68	59.5	74,5	6.000
BT40-CZF32-120	120	3.0-32.0	64.5	105	42	78	69	80,5	6.000
BT50-CZF20-□	105, 165	2.0-20.0	53	80	35	-	51.5	66,5	8.000
BT50-CZF25-□	105, 165	3.0-25.0	59	80	35	-	59.5	74,5	8.000
BT50-CZF32-□	105, 165	3.0-32.0	64.5	105	42	-	69	80,5	6.000
NBT30-CZF20-100	100	2.0-20.0	53	80	35	68	51.5		6.000
NBT30-CZF25-100	100	3.0-25.0	59	80	35	68	59.5		5.000
NBT40-CZF20-□	105, 120	2.0-20.0	53	80	35	64.5	51.5		7.000
NBT40-CZF25-□	105, 120	3.0-25.0	59	80	35	68	59.5		6.000
NBT40-CZF32-120	120	3.0-32.0	64.5	105	42	78	69		6.000
NBT50-CZF20-□	105, 165	2.0-20.0	53	80	35	-	51.5		8.000
NBT50-CZF25-□	105, 165	3.0-25.0	59	80	35	-	59.5		8.000
NBT50-CZF32-□	105, 165	3.0-32.0	64.5	105	42	-	69		6.000
MBT40-CZF20-□	105, 120	2.0-20.0	53	80	35	64.5	51.5	66,5	7.000
MBT40-CZF25-□	105, 120	3.0-25.0	59	80	35	68	59.5	74,5	6.000
MBT40-CZF32-120	120	3.0-32.0	64.5	105	42	81	69	80,5	6.000
MBT50-CZF20-□	105, 165	2.0-20.0	53	80	35	-	51.5	66,5	8.000
MBT50-CZF25-□	105, 165	3.0-25.0	59	80	35	-	59.5	74,5	8.000
MBT50-CZF32-□	105, 165	3.0-32.0	64.5	105	42	-	69	80,5	6.000



Spannzange	Anschlagschraube	TiN Spannmutter (Standard)	Jet Typ Spannmutter	Jet Abdeckkappe	O-Ring Abdeckkappe	Abdeckkappenschlüssel	Abb.
SK16-□	SKG-18L	SKN-16B	SKN-16BJ	SKJ16-□	SKJ16-□C	SKJL-16	2
SK25-□	SKG-28	SKN-25B	SKN-25BJ	SKJ25-□	SKJ25-□C	SKJL-25	2
SK6-□	SKG6-6HG	SKN-6WK	SKN-6WKJ	SKJ6-□	SKJ6-□C	SKJL-6	2
SK10-□	SKG10-10HG	SKN-10K	SKN-10KJ	SKJ10-□	SKJ10-□C	SKJL-10	2
SK16-□	SKG16-12HG	SKN-16B	SKN-16BJ	SKJ16-□	SKJ16-□C	SKJL-16	2
SK25-□	SKG25-18HGD	SKN-25B	SKN-25BJ	SKJ25-□	SKJ25-□C	SKJL-25	1
SK6-□	SKG6-6HG	SKN-6WK	SKN-6WKJ	SKJ6-□	SKJ6-□C	SKJL-6	2
SK10-□	SKG10-10HG	SKN-10K	SKN-10KJ	SKJ10-□	SKJ10-□C	SKJL-10	2
SK16-□	SKG16-12HG	SKN-16B	SKN-16BJ	SKJ16-□	SKJ16-□C	SKJL-16	2
SK25-□	SKG25-18HGD	SKN-25B	SKN-25BJ	SKJ25-□	SKJ25-□C	SKJL-25	2



Zero Fit Multi Lock - MBT



Spannschlüssel	Spannzange	Jet Abdeckkappe	O-Ring Abdeckkappe	Abdeckkappenschlüssel	Abb.
9HC22	CCK20-□, KM20-□	CKFN20-□	CKFN20-□C	CCKLN20	1
9HC25	CCK25-□, KM25-□	CKFN25-□	CKFN25-□C	CCKLN25	1
9HC22	CCK20-□, KM20-□	CKFN20-□	CKFN20-□C	CCKLN20	1
9HC25	CCK25-□, KM25-□	CKFN25-□	CKFN25-□C	CCKLN25	1
9HC32	CCK32-□, KM32-□	CKFN32-□	CKFN32-□C	CCKLN32	1
9HC22	CCK20-□, KM20-□	CKFN20-□	CKFN20-□C	CCKLN20	2
9HC25	CCK25-□, KM25-□	CKFN25-□	CKFN25-□C	CCKLN25	2
9HC32	CCK32-□, KM32-□	CKFN32-□	CKFN32-□C	CCKLN32	2
9HC22	CCK20-□, KM20-□	CKFN20-□	CKFN20-□C	CCKLN20	1
9HC25	CCK25-□, KM25-□	CKFN25-□	CKFN25-□C	CCKLN25	1
9HC22	CCK20-□, KM20-□	CKFN20-□	CKFN20-□C	CCKLN20	1
9HC25	CCK25-□, KM25-□	CKFN25-□	CKFN25-□C	CCKLN25	1
9HC32	CCK32-□, KM32-□	CKFN32-□	CKFN32-□C	CCKLN32	1
9HC22	CCK20-□, KM20-□	CKFN20-□	CKFN20-□C	CCKLN20	2
9HC25	CCK25-□, KM25-□	CKFN25-□	CKFN25-□C	CCKLN25	2
9HC32	CCK32-□, KM32-□	CKFN32-□	CKFN32-□C	CCKLN32	2
9HC22	CCK20-□, KM20-□	CKFN20-□	CKFN20-□C	CCKLN20	1
9HC25	CCK25-□, KM25-□	CKFN25-□	CKFN25-□C	CCKLN25	1
9HC32	CCK32-□, KM32-□	CKFN32-□	CKFN32-□C	CCKLN32	1
9HC22	CCK20-□, KM20-□	CKFN20-□	CKFN20-□C	CCKLN20	2
9HC25	CCK25-□, KM25-□	CKFN25-□	CKFN25-□C	CCKLN25	2
9HC32	CCK32-□, KM32-□	CKFN32-□	CKFN32-□C	CCKLN32	2

BT JIS B6339 / MAS 403

MODULARE GRUNDHALTER BT / NBT / MBT



Modulare Grundhalter -BT, NBT

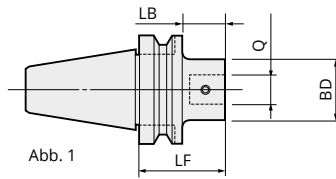


Abb. 1

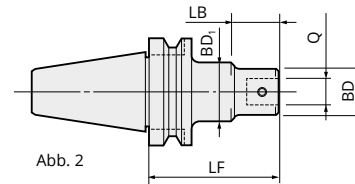


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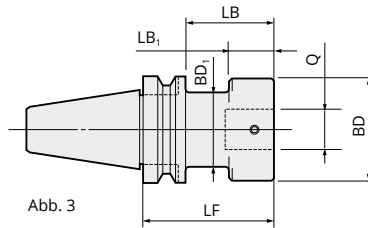


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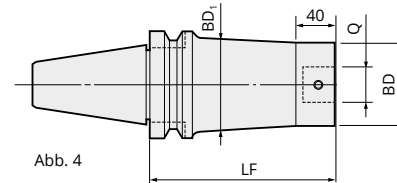
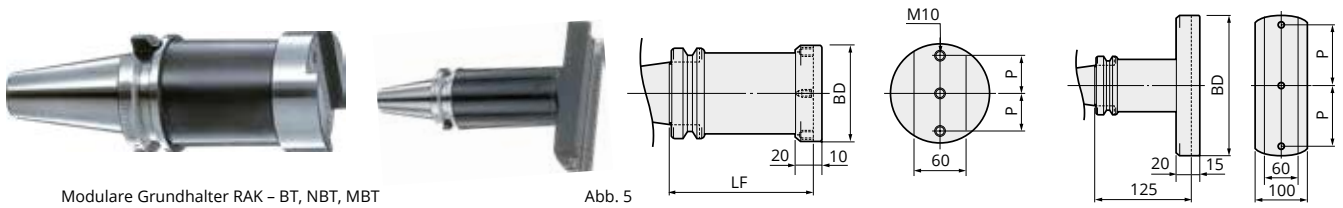


Abb. 4

Bezeichnung	LF	LB	LB ₁	Q	BD	BD ₁	LU	Gewicht (kg)	Abb.
BT30-Q9-50	50	20	-	9	19	30	60	0.5	2
BT30-Q12-65	65	40	-	12	24	-	80	0.5	1
BT30-Q16-50	50	25	-	16	31	-	80	0.5	1
BT30-Q20-50	50	26	-	20	40	-	96	0.5	1
BT30-Q26-40	40	18	6	26	50	45	88	0.5	3
BT40-Q9-80	80	5	-	9	19	30	45	1.2	2
BT40-Q9-95N	95	27	-	9	19	30	67	1.2	2
BT40-Q12-80	80	12	-	12	24	35	52	1.2	2
BT40-Q12-110	10	50	-	12	24	35	90	1.3	2
BT40-Q16-95	95	22	-	16	31	42	77	1.5	2
BT40-Q16-125	125	55	-	16	31	42	110	1.6	2
BT40-Q20-80	80	27	-	20	40	50	107	1.5	2
BT40-Q20-110	110	60	-	20	40	50	150	1.7	2
BT40-Q26-50	50	20	-	26	50	-	90	1.1	1
BT40-Q26-95	95	65	-	26	50	-	135	1.8	1
BT40-Q26-140	140	110	-	26	50	-	180	2.4	1
BT40-Q34-95	95	68	55	34	64	62	138	2.2	3
BT40-Q34-110	110	83	70	34	64	62	153	2.6	3
BT40-Q42-95	95	68	55	42	83	62	168	2.8	3
BT40-RAK-130A	205	-	-	-	61	-	205	7.0-8.0	5
BT50-Q9-110	110	5	-	9	19	40	45	4.1	2
BT50-Q9-125N	125	27	-	9	19	40	67	4.1	2
BT50-Q12-95	95	12	-	12	24	44	52	4	2
BT50-Q12-125	125	50	-	12	24	44	90	4	2
BT50-Q16-125N	125	22	-	16	31	50	62	4.5	2
BT50-Q16-155	155	55	-	16	31	50	95	4.6	2
BT50-Q20-110	110	27	-	20	40	60	67	4.6	2
BT50-Q20-125	125	60	-	20	40	60	100	4.5	2
BT50-Q26-65	65	27	-	26	50	65	97	3.7	1
BT50-Q26-140	140	47	-	26	50	65	117	5.3	2
BT50-Q26-170N	170	112	-	26	50	65	182	5.4	2
BT50-Q34-140	140	102	-	34	64	80	172	5.6	1



Modulare Grundhalter RAK – BT, NBT, MBT

Abb. 5

Bezeichnung	LF	LB	LB ₁	Q	BD	BD ₁	LU	Gewicht (kg)	Abb.
BT50-Q34-170	170	120	-	34	64	80	190	6.5	2
BT50-Q34-200	200	150	-	34	64	80	220	7.1	2
BT50-Q42-125	125	87	-	42	83	-	187	6.5	1
BT50-Q42-190	190	152	-	42	83	-	252	9.1	1
BT50-Q42-225A	225	-	-	42	83	98	-	12.9	4
BT50-Q42-275A	275	-	-	42	83	98	-	15.6	4
BT50-Q42-325A	325	-	-	42	83	98	-	18.3	4
BT50-Q42-375A	375	-	-	42	83	98	-	21	4
BT50-RAK-110A	110	-	-	-	-	-	185	9.8	5
BT50-RAK-160A	160	-	-	-	-	-	235	12.5	5
BT50-RAK-210A	210	-	-	-	-	-	285	15.2	5
BT50-RAK-260A	260	-	-	-	-	-	335	17.9	5
BT50-RAK-310A	310	-	-	-	-	-	385	20.6	5
BT50-RAK-360A	360	-	-	-	-	-	435	23.3	5
BT50-RAK-410A	410	-	-	-	-	-	485	26	5
BT50-RAK330-125	220	-	-	-	-	-	220	16.7-18.7	5
NBT30-Q9-50	50	20	-	9	19	30	60	0.5	2
NBT30-Q12-65	65	40	-	12	24	-	80	0.5	1
NBT30-Q16-50	50	25	-	16	31	-	80	0.5	1
NBT30-Q20-50	50	26	-	20	40	-	96	0.5	1
NBT30-Q26-40	40	18	6	26	50	45	88	0.5	3
NBT30-MDQ26-60	60	37.5	-	26	50	50	107.5	-	1
NBT40-Q9-80	80	5	-	9	19	30	45	1.2	2
NBT40-Q9-95N	95	27	-	9	19	30	67	1.2	2
NBT40-Q12-80	80	12	-	12	24	35	52	1.2	2
NBT40-Q12-110	10	50	-	12	24	35	90	1.3	2
NBT40-Q16-95	95	22	-	16	31	42	77	1.5	2
NBT40-Q16-125	§	55	-	16	31	42	110	1.6	2
NBT40-Q20-80	80	27	-	20	40	50	107	1.5	2
NBT40-Q20-110	110	60	-	20	40	50	150	1.7	2
NBT40-Q26-50	50	20	-	26	50	-	90	1.1	1
NBT40-Q26-95	95	65	-	26	50	-	135	1.8	1

BT JIS B6339 / MAS 403



Modulare Grundhalter – BT, NBT

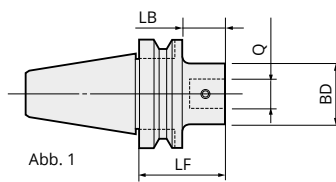


Abb. 1

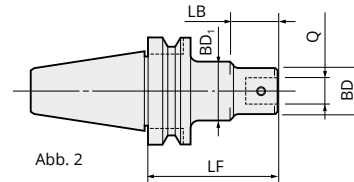


Abb. 2

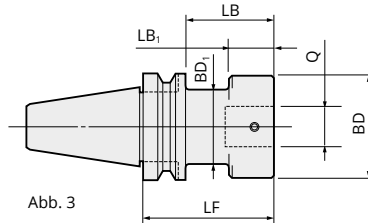


Abb. 3

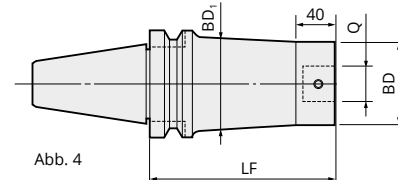


Abb. 4



Modulare Grundhalter – MBT

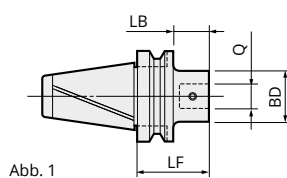


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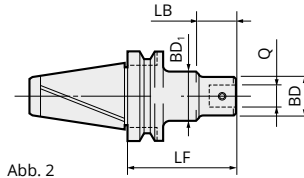


Abb. 2

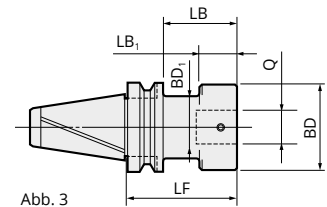


Abb. 3

Bezeichnung	LF	LB	LB ₁	Q	BD	BD ₁	LU	Gewicht (kg)	Abb.
NBT40-Q26-140	140	110	-	26	50	-	180	2.4	1
NBT40-Q34-95	95	68	55	34	64	62	138	2.2	3
NBT40-Q34-110	110	83	70	34	64	62	153	2.6	3
NBT40-Q42-95	95	68	55	42	83	62	168	2.8	3
NTB40-MDQ26-65	65	30	-	26	50	54	100	1.3	2
NBT40-RAK-130A	205	-	-	-	61	-	205	7.0-8.0	5
NBT50-Q9-110	110	5	-	9	19	40	45	4.1	2
NBT50-Q9-125N	125	27	-	9	19	40	67	4.1	2
NBT50-Q12-95	95	12	-	12	24	44	52	4	2
NBT50-Q12-125	125	50	-	12	24	44	90	4	2
NBT50-Q16-125N	125	22	-	16	31	50	62	4.5	2
NBT50-Q16-155	155	55	-	16	31	50	95	4.6	2
NBT50-Q20-110	110	27	-	20	40	60	67	4.6	2
NBT50-Q20-125	125	60	-	20	40	60	100	4.5	2
NBT50-Q26-65	65	27	-	26	50	65	97	3.7	1
NBT50-Q26-140	140	47	-	26	50	65	117	5.3	2
NBT50-Q26-170N	170	112	-	26	50	65	182	5.4	2
NBT50-Q34-140	140	102	-	34	64	80	172	5.6	1
NBT50-Q34-170	170	120	-	34	64	80	190	6.5	2
NBT50-Q34-200	200	150	-	34	64	80	220	7.1	2
NBT50-Q42-125	125	87	-	42	83	-	187	6.5	1
NBT50-Q42-190	190	152	-	42	83	-	252	9.1	1
NBT50-Q42-225A	225	-	-	42	83	98	-	12.9	4
NBT50-Q42-275A	275	-	-	42	83	98	-	15.6	4
NBT50-Q42-325A	325	-	-	42	83	98	-	18.3	4
NBT50-Q42-375A	375	-	-	42	83	98	-	21	4



Modulare Grundhalter RAK – BT, NBT, MBT

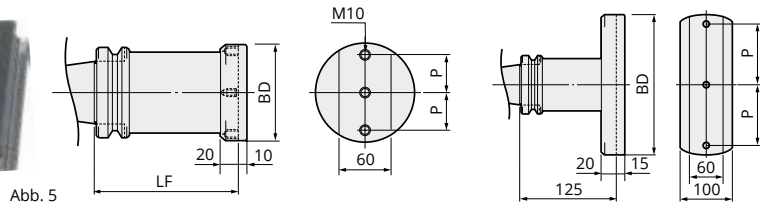


Abb. 5



Modulare Grundhalter RAK – MBT

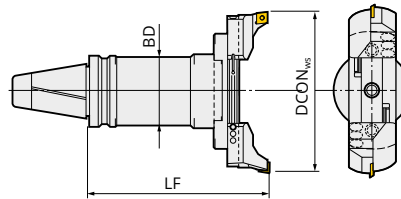
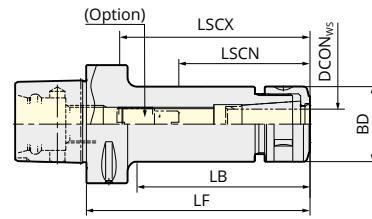


Abb. 6

Bezeichnung	LF	LB	LB ₁	Q	BD	BD ₁	LU	Gewicht (kg)	Abb.
NBT50-MDQ26-80	80	22	-	26	50	87	92	4,6	2
NBT50-MDQ34-90	90	32	-	34	64	87	102	4,9	2
NBT50-MDQ42-100	100	45	-	42	83	87	145	5,7	2
NBT50-RAK-110A	110	-	-	-	-	-	185	9,8	5
NBT50-RAK-160A	160	-	-	-	-	-	235	12,5	5
NBT50-RAK-210A	210	-	-	-	-	-	285	15,2	5
NBT50-RAK330-125	210	-	-	-	-	-	220	16,7-18,7	5
MBT40-Q26-50	50	20	-	26	50	-	90	1,1	1
MBT40-Q26-95	95	65	-	26	50	-	135	1,8	1
MBT40-Q26-140	140	110	-	26	50	-	180	2,4	1
MBT40-Q34-95	95	68	55	34	64	55	138	2,2	3
MBT40-Q34-110	110	83	70	34	64	70	153	2,6	3
MBT40-Q42-95	95	68	55	42	83	55	138	2,8	3
MBT40-RAK-130A	205	-	-	-	61	-	205	7,0-8,0	6
MBT50-Q26-65	65	27	-	26	50	-	97	3,7	1
MBT50-Q26-140	140	47	-	26	50	-	117	5,3	1
MBT50-Q26-170N	170	112	-	26	50	-	182	5,4	1
MBT50-Q34-140	140	102	-	34	64	-	-	5,6	2
MBT50-Q34-170	170	120	-	34	64	-	-	6,5	2
MBT50-Q34-200	200	150	-	34	64	-	-	7,1	2
MBT50-Q42-125	125	87	-	42	83	-	-	6,5	1
MBT50-Q42-190	190	152	-	42	83	-	-	9,1	1
MBT50-RAK-110A	110	-	-	-	-	-	185	9,8	6
MBT50-RAK-160A	160	-	-	-	-	-	235	12,5	6
MBT50-RAK-210A	210	-	-	-	-	-	285	15,2	6
MBT50-RAK330-125	210	-	-	-	-	-	220	16,7-18,7	6

Polygonschaft ISO 26223-1

SLIM CHUCK – POLYGONSCHAFT

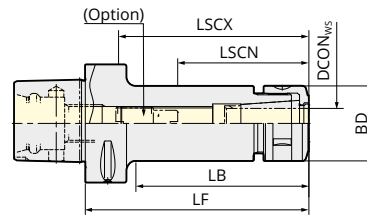


Bezeichnung	LF	DCON _{ws}	LSCN	LB	BD	Max. U/min	Spannschlüssel
C4-SK6-60	60	0.7-6.0	30	40	19.5	15.000	SKL-6W
C4-SK10-60	60	1.75-10.0	35.1	40	27.5	15.000	SKL-10
C4-SK13-60	60	2.75-13.0	43.5	40	33	15.000	9HC12A
C4-SK16-60	60	2.75-16.0	51.3	39.3	40	15.000	9HC16
C4-SK20-75	75	3.5-20.0	61	55	48.5	12.000	9HC22
C5-SK6-60	60	0.7-6.0	30	40	19.5	15.000	SKL-6W
C5-SK10-60	60	1.75-10.0	35.1	40	27.5	15.000	SKL-10
C5-SK13-60	60	2.75-13.0	43.5	40	33	15.000	9HC12A
C5-SK16-60	60	2.75-16.0	51	39.3	40	15.000	9HC16
C5-SK20-75	75	3.5-20.0	61	55	48.5	12.000	9HC22
C5-SK25-75	75	7.5-25.4	63	55	55	12.000	9HC25
C6-SK6-□	60, 90, 120	0.7-6.0	21-35	33, 63, 88	19.5	15.000	SKL-6W
C6-SK10-□	60, 90, 120	1.75-10.0	30-51	33, 63, 93	27.5	15.000	SKL-10
C6-SK13-□	60, 90, 120	2.75-13.0	31-65	33, 63, 93	33	15.000	9HC12A
C6-SK16-□	60, 90, 120	2.75-16.0	40-70	35, 63, 93	40	15.000	9HC16
C6-SK20-□	70, 90, 120	3.5-20.0	47-80	45, 65, 95	48.5	12.000	9HC22
C6-SK25-□	75, 90, 120	7.5-25.4	47-81	50, 65, 95	55	12.000	9HC25
C8-SK6C-□	90, 120, 165	0.7-6.0	21-35	50, 75, 120	19.5	15.000	SKL-6W
C8-SK10-□	90, 120, 165	1.75-10.0	30-50	50, 75, 120	27.5	15.000	SKL-10
C8-SK13-□	90, 120, 165	2.75-13.0	31-55	50, 80, 120	33	15.000	9HC12A
C8-SK16-□	90, 120, 165	2.75-16.0	40-70	50, 80, 125	40	15.000	9HC16
C8-SK20-□	90, 120, 165	3.5-20.0	47-80	50, 80, 125	48.5	12.000	9HC22
C8-SK25-□	90, 120, 165	7.5-25.4	55-75	50, 80, 125	55	12.000	9HC25

Spannzange	Anschlagschraube	TiN Spannmutter (Standard)	Jet Typ Spannmutter	Jet Abdeckkappe	O-Ring Abdeckkappe	Abdeckkappen- schlüssel
SK6-□	SKG6-6HG	SKN-6WK	SKN-6WKJ	SKJ6-□	SKJ6-□C	SKJL-6
SK10-□	SKG10-10HG	SKN-10K	SKN-10KJ	SKJ10-□	SKJ10-□C	SKJL-10
SK13-□	SKG13-10HG	SKN-13B	SKN-13BJ	SKJ16-□	SKJ16-□C	SKJL-16
SK16-□	SKG16-12HG	SKN-16B	SKN-16BJ	SKJ16-□	SKJ16-□C	SKJL-16
SK20-□	SKG20-12MFHG	SKN-20B	SKN-20BJ	SKJ25-□	SKJ25-□C	SKJL-25
SK6-□	SKG6-6HG	SKN-6WB	SKN-6WBj	SKJ6-□	SKJ6-□C	SKJL-6
SK10-□	SKG10-10HG	SKN-10B	SKN-10BJ	SKJ10-□	SKJ10-□C	SKJL-10
SK13-□	SKG13-10HG	SKN-13B	SKN-13BJ	SKJ16-□	SKJ16-□C	SKJL-16
SK16-□	SKG16-12HG	SKN-16B	SKN-16BJ	SKJ16-□	SKJ16-□C	SKJL-16
SK20-□	SKG20-12MFHG	SKN-20B	SKN-20BJ	SKJ25-□	SKJ25-□C	SKJL-25
SK25-□	SKG25-18HGE	SKN-25B	SKN-25BJ	SKJ25-□	SKJ25-□C	SKJL-25
SK6-□	SKG6-6HG	SKN-6WK	SKN-6WKJ	SKJ6-□	SKJ6-□C	SKJL-6
SK10-□	SKG10-10HG	SKN-10K	SKN-10KJ	SKJ10-□	SKJ10-□C	SKJL-10
SK13-□	SKG13-10HG	SKN-13B	SKN-13BJ	SKJ16-□	SKJ16-□C	SKJL-16
SK16-□	SKG16-12HG	SKN-16B	SKN-16BJ	SKJ16-□	SKJ16-□C	SKJL-16
SK20-□	SKG20-12MFHG	SKN-20B	SKN-20BJ	SKJ25-□	SKJ25-□C	SKJL-25
SK25-□	SKG25-18HGE	SKN-25B	SKN-25BJ	SKJ25-□	SKJ25-□C	SKJL-25
SK6-□	SKG6-6HG	SKN-6WK	SKN-6WKJ	SKJ6-□	SKJ6-□C	SKJL-6
SK10-□	SKG10-10HG	SKN-10K	SKN-10KJ	SKJ10-□	SKJ10-□C	SKJL-10
SK13-□	SKG13-10HG	SKN-13B	SKN-13BJ	SKJ16-□	SKJ16-□C	SKJL-16
SK16-□	SKG16-12HG	SKN-16B	SKN-16BJ	SKJ16-□	SKJ16-□C	SKJL-16
SK20-□	SKG20-12MFHG	SKN-20B	SKN-20BJ	SKJ25-□	SKJ25-□C	SKJL-25
SK25-□	SKG25-18HGE	SKN-25B	SKN-25BJ	SKJ25-□	SKJ25-□C	SKJL-25

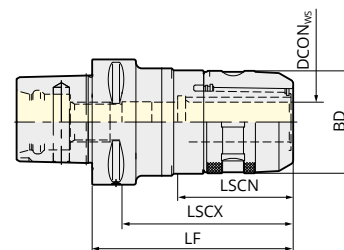
Polygonschaft ISO 26223-1

SLIM CHUCK HIGH SPEED – POLYGONSCHAFT



Bezeichnung	LF	DCON _{ws}	LSCN	LB	BD	Max. U/min	Rollenschlüssel
C5-SK6-□P	60	0.7-6.0	21-35	40	19.5	15.000	GH6
C5-SK10-□P	60	1.75-10.0	30-51	40	27.5	15.000	GH10
C5-SK13-□P	60	2.75-13.0	31-65	40	33	15.000	GH12
C5-SK16-□P	60	2.75-16.0	40-70	39, 3	40	15.000	GH16
C5-SK20-□P	75	3.5-20.0	47-80	55	48.5	12.000	GH20
C5-SK25-75	75	7.5-25.4	63	55	55	12.000	GH25
C6-SK6-□P	60, 90, 120	0.7-6.0	21-35	33, 63, 88	19.5	30.000	GH6
C6-SK10-□P	60, 90, 120	1.75-10.0	30-51	33, 63, 93	27.5	30.000	GH10
C6-SK13-□P	60, 90, 120	2.75-13.0	31-65	33, 63, 93	33	30.000	GH12
C6-SK16-□P	60, 90, 120	2.75-16.0	40-70	35, 63, 93	40	30.000	GH16
C6-SK20-□P	70, 90, 120	3.5-20.0	47-80	45, 65, 95	48.5	25.000	GH20
C6-SK25-□P	75, 90, 120	7.5-25.4	47-81	50, 65, 95	55	20.000	GH25
C8-SK6C-□P	90, 120, 165	0.7-6.0	21-35	50, 75, 120	19.5	20.000	GH6
C8-SK10-□P	90, 120, 165	1.75-10.0	30-50	50, 75, 120	27.5	20.000	GH10
C8-SK13-□P	90, 120, 165	2.75-13.0	31-55	50, 80, 120	33	20.000	GH12
C8-SK16-□P	90, 120, 165	2.75-16.0	40-70	50, 80, 125	40	20.000	GH16
C8-SK20-□P	90, 120, 165	3.5-20.0	47-80	50, 80, 125	48.5	20.000	GH20
C8-SK25-□P	90, 120, 165	7.5-25.4	55-75	50, 80, 125	55	15.000	GH25

MULTI LOCK MAJOR DREAM – POLYGONSCHAFT



Bezeichnung	LF	DCON _{ws}	LSCN	BD	Max. U/min	Spannschlüssel
C6-MDC16-90	90	2.0-16.0	50	44	10.000	9HC16
C6-MDC20-100	100	2.0-20.0	57	52	8.000	9HC22
C6-MDC25-110	110	3.0-25.0	58	60	8.000	9HC25
C6-MDC32-130	130	3.0-32.0	70	68	8.000	9HC32

Spannzange	Anschlagschraube	TiN Spannmutter (Standard)	Jet Typ Spannmutter	Jet Abdeckkappe	O-Ring Abdeckkappe	Abdeckkappen- schlüssel
SK6-□	SKG6-6HG	SKN-6WK(GH)	SKN-6WKJ(GH)	SKJ6-□	SKJ6-□C	SKJL-6
SK10-□	SKG10-10HG	SKN-10K(GH)	SKN-10KJ(GH)	SKJ10-□	SKJ10-□C	SKJL-10
SK13-□	SKG13-10HG	SKN-13B(GH)	SKN-13BJ(GH)	SKJ16-□	SKJ16-□C	SKJL-16
SK16-□	SKG16-12HG	SKN-16B(GH)	SKN-16BJ(GH)	SKJ16-□	SKJ16-□C	SKJL-16
SK20-□	SKG20-12MFHG	SKN-20B(GH)	SKN-20BJ(GH)	SKJ25-□	SKJ25-□C	SKJL-25
SK25-□	SKG25-18HGE	SKN-25B(GH)	SKN-25BJ(GH)	SKJ25-□	SKJ25-□C	SKJL-25
SK6-□	SKG6-6HG	SKN-6WK(GH)	SKN-6WKJ(GH)	SKJ6-□	SKJ6-□C	SKJL-6
SK10-□	SKG10-10HG	SKN-10K(GH)	SKN-10KJ(GH)	SKJ10-□	SKJ10-□C	SKJL-10
SK13-□	SKG13-10HG	SKN-13B(GH)	SKN-13BJ(GH)	SKJ16-□	SKJ16-□C	SKJL-16
SK16-□	SKG16-12HG	SKN-16B(GH)	SKN-16BJ(GH)	SKJ16-□	SKJ16-□C	SKJL-16
SK20-□	SKG20-12MFHG	SKN-20B(GH)	SKN-20BJ(GH)	SKJ25-□	SKJ25-□C	SKJL-25
SK25-□	SKG25-18HGE	SKN-25B(GH)	SKN-25BJ(GH)	SKJ25-□	SKJ25-□C	SKJL-25
SK6-□	SKG6-6HG	SKN-6WK(GH)	SKN-6WKJ(GH)	SKJ6-□	SKJ6-□C	SKJL-6
SK10-□	SKG10-10HG	SKN-10K(GH)	SKN-10KJ(GH)	SKJ10-□	SKJ10-□C	SKJL-10
SK13-□	SKG13-10HG	SKN-13B(GH)	SKN-13BJ(GH)	SKJ16-□	SKJ16-□C	SKJL-16
SK16-□	SKG16-12HG	SKN-16B(GH)	SKN-16BJ(GH)	SKJ16-□	SKJ16-□C	SKJL-16
SK20-□	SKG20-18HG	SKN-20B(GH)	SKN-20BJ(GH)	SKJ25-□	SKJ25-□C	SKJL-25
SK25-□	SKG25-18HGE	SKN-25B(GH)	SKN-25BJ(GH)	SKJ25-□	SKJ25-□C	SKJL-25

Spannzange	Jet Abdeckkappe	O-Ring Abdeckkappe	Abdeckkappenschlüssel
CCK16-□, KM16-□	CKFN16-□	CKFN16-□C	CCKLN16
CCK20-□, CCNK20-□, KM20-□, NK20-□	CKFN20-□	CKFN20-□C	CCKLN20
CCK25-□, CCNK25-□, KM25-□, NK25-□	CKFN25-□	CKFN25-□C	CCKLN25
CCK32-□, CCNK32-□, KM32-□, NK32-□	CKFN32-□	CKFN32-□C	CCKLN32

Polygonschaft ISO 26223-1

MAJOR DREAM HOLDER – POLYGONSCHAFT



Bezeichnung	LF	DCON _{WS}	LSCN	LB	LB ₁	BD	BD ₁	Max. U/min	Rollen-schlüssel
C6-MDSK10-□	65, 90	3.0-10.0	30-50	18.2	19.43	27.5	27.5, 31	20.000	GH10
C6-MDSK13-□	70, 90	3.0-13.0	31-54	22	24.43	33	33, 35.9	20.000	GH12
C6-MDSK16-□	70, 90	3.0-16.0	45-60	22	24.43	40	40, 42.8	20.000	GH16
C6-MDSK20-□	80, 90	4.0-20.0	47-70	25.2	39.3, 50.7	48	51, 52.6	20.000	GH20

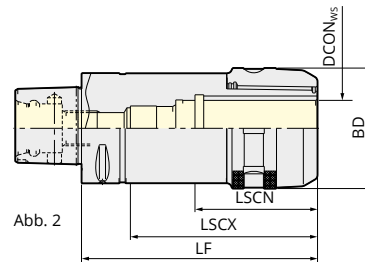
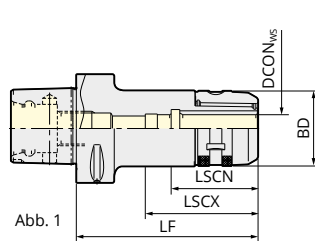
MULTI LOCK STANDARD – POLYGONSCHAFT



Bezeichnung	LF	DCON _{WS}	LSCN	LSCX	BD	Max. U/min	Spannschlüssel
C5-C20-75	75	2.0-20.0	58	57	52	8.000	9HC22
C5-C25-110	110	3.0-25.0	61	72	60	8.000	9HC25
C5-C32-90	90	3.0-32.0	70	97	69	6.000	9HC32
C6-C12-□	70, 90, 120	2.0-12.0	48	49, 58, 58	33	15.000	9HC12A
C6-C16-□	70, 90, 120	2.0-16.0	50	50, 65, 65	44	10.000	9HC16
C6-C20-□	75, 90, 120	2.0-20.0	66	66, 80, 80	52	8.000	9HC22
C6-C25-□	75, 90, 120,	3.0-25.0	66	66, 80, 80	60	8.000	9HC25
C6-C32-□	80, 120	3.0-32.0	71	71, 107	69	6.000	9HC32
C8-C12-□	70, 105, 165	2.0-12.0	49	-	33	15.000	9HC12A
C8-C16-□	70, 105, 165	2.0-16.0	52	-	44	10.000	9HC16
C8-C20-□	75, 105, 135, 165	2.0-20.0	58	80	52	8.000	9HC22
C8-C25-□	75, 105, 135, 165	3.0-25.0	60	80	60	8.000	9HC25
C8-C32-□	90, 105, 135, 165	3.0-32.0	70	100, 105, 105, 105	69	6.000	9HC32

Spannzange	Anschlagschraube	Jet Typ Spannmutter	Jet Abdeckkappe	O-Ring Abdeckkappe	Abdeckkappenschlüssel
SK10-□A	SKG-12L	MDSKN-10KJ	SKJ10-□	SKJ10-□C	SKJL-10
SK13-□A	SKG15	MDSKN-13BJ	SKJ16-□	SKJ16-□C	SKJL-16
SK16-□A	SKG-18S	MDSKN-16BJ	SKJ16-□	SKJ16-□C	SKJL-16
SK20-□A	SKG20-22	MDSKN-20BJ	SKJ20-□	SKJ20-□C	SKJL-25

Optional können alle Halter in der Version „High Speed“ bestellt werden. Die Bezeichnung „P“ am Ende einfügen



Spannzange	Jet Abdeckkappe	O-Ring Abdeckkappe	Abdeckkappenschlüssel
CCK20-□, CCNK20-□, KM20-□, NK20-□	CKFN20-□	CKFN20-□C	CCKLN20
CCK25-□, CCNK25-□, KM25-□, NK25-□	CKFN25-□	CKFN25-□C	CCKLN25
CCK32-□, CCNK32-□, KM32-□, NK32-□	CKFN32-□	CKFN32-□C	CCKLN32
CCK12-□, KM12-□	CKFN12-□	CKFN12-□C	CCKLN12
CCK16-□, KM16-□	CKFN16-□	CKFN16-□C	CCKLN16
CCK20-□, CCNK20-□, KM20-□, NK20-□	CKFN20-□	CKFN20-□C	CCKLN20
CCK25-□, CCNK25-□, KM25-□, NK25-□	CKFN25-□	CKFN25-□C	CCKLN25
CCK32-□, CCNK32-□, KM32-□, NK32-□	CKFN32-□	CKFN32-□C	CCKLN32
CCK12-□, KM12-□	CKFN12-□	CKFN12-□C	CCKLN12
CCK16-□, KM16-□	CKFN16-□	CKFN16-□C	CCKLN16
CCK20-□, CCNK20-□, KM20-□, NK20-□	CKFN20-□	CKFN20-□C	CCKLN20
CCK25-□, CCNK25-□, KM25-□, NK25-□	CKFN25-□	CKFN25-□C	CCKLN25
CCK32-□, CCNK32-□, KM32-□, NK32-□	CKFN32-□	CKFN32-□C	CCKLN32

Optional können alle Halter in der Version „High Speed“ bestellt werden. Die Bezeichnung „P“ am Ende einfügen

Polygonschaft ISO 26223-1

MULTI LOCK HIGH SPEED – POLYGONSCHAFT



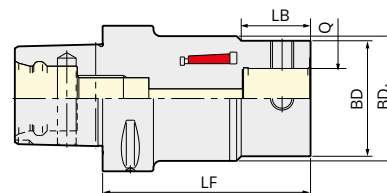
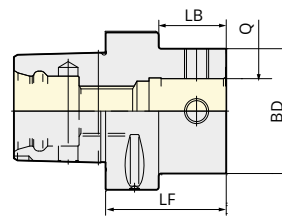
Multi Lock High Speed

Bezeichnung	LF	DCON _{WS}	LSCN	LSCX	BD	Max. U/min	Rollenschlüssel
C5-C20-75G	75	2.0-20.0	58	-	52	8.000	GH20
C5-C25-110G	110	3.0-25.0	61	72	60	8.000	GH25
C5-C32-90G	90	3.0-32.0	70	97	69	6.000	GH32
C6-C12-□G	70, 90, 120	2.0-12.0	49	49, 58, 58	33	15.000	GH12
C6-C16-□G	70, 90, 120	2.0-16.0	52	50, 65, 65	44	10.000	GH16
C6-C20-□G	75, 90, 120	2.0-20.0	58	66, 80, 80	52	8.000	GH20
C6-C25-□G	75, 90, 120	3.0-25.0	61	66, 80, 80	60	8.000	GH25
C6-C32-□G	80, 120	3.0-32.0	70	71, 107	69	6.000	GH32
C8-C12-□G	70, 105, 165	2.0-12.0	49	-	33	15.000	GH12
C8-C16-□G	70, 105, 165	2.0-16.0	52	-	44	10.000	GH16
C8-C20-□G	75, 105, 135, 165	2.0-20.0	58	80	52	8.000	GH20
C8-C25-□G	75, 105, 135, 165	3.0-25.0	61	80	60	8.000	GH25
C8-C32-□G	90, 105, 135, 165	3.0-32.0	70	100, 105, 105, 105	69	6.000	GH32

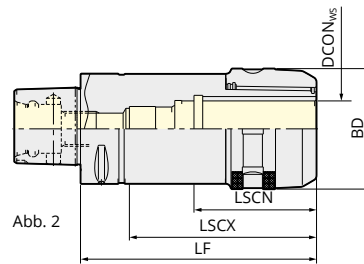
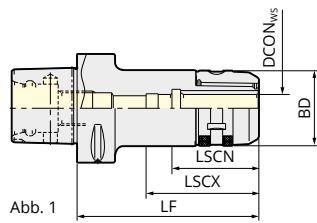
MODULARE GRUNDHALTER – POLYGONSCHAFT



Support de base modulaire



Bezeichnung	LF	Q	BD	LU	Gewicht (kg)
C5-Q26-95	95	26	50	100	1.1
C6-MDQ26-90	90	26	50	100	1.4
C6-Q26-50	50	26	50	97	1.1
C6-Q34-55	55	34	55	103	1.4



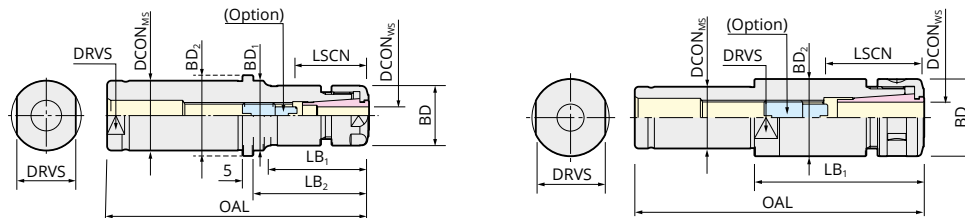
Spannzange	Jet Abdeckkappe	O-Ring Abdeckkappe	Abdeckkappenschlüssel
CCK20-□, CCNK20-□, KM20-□, NK20-□	CKFN20-□	CKFN20-□C	CCKLN20
CCK25-□, CCNK25-□, KM25-□, NK25-□	CKFN25-□	CKFN25-□C	CCKLN25
CCK32-□, CCNK32-□, KM32-□, NK32-□	CKFN32-□	CKFN32-□C	CCKLN32
CCK12-□, KM12-□	CKFN12-□	CKFN12-□C	CCKLN12
CCK16-□, KM16-□	CKFN16-□	CKFN16-□C	CCKLN16
CCK20-□, CCNK20-□, KM20-□, NK20-□	CKFN20-□	CKFN20-□C	CCKLN20
CCK25-□, CCNK25-□, KM25-□, NK25-□	CKFN25-□	CKFN25-□C	CCKLN25
CCK32-□, CCNK32-□, KM32-□, NK32-□	CKFN32-□	CKFN32-□C	CCKLN32
CCK12-□, KM12-□	CKFN12-□	CKFN12-□C	CCKLN12
CCK16-□, KM16-□	CKFN16-□	CKFN16-□C	CCKLN16
CCK20-□, CCNK20-□, KM20-□, NK20-□	CKFN20-□	CKFN20-□C	CCKLN20
CCK25-□, CCNK25-□, KM25-□, NK25-□	CKFN25-□	CKFN25-□C	CCKLN25
CCK32-□, CCNK32-□, KM32-□, NK32-□	CKFN32-□	CKFN32-□C	CCKLN32

Zylinderaufnahmen

SLIM CHUCK STANDARD - ZYLINDERAUFNAHMEN



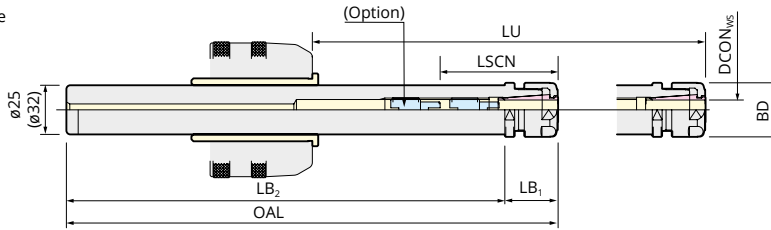
Slim Chuck Standard



Bezeichnung	OAL	LU	DCON _{ws}	LB ₁	LB ₂	LSCN	BD	BD ₁	BD ₂
K20-SK6-□	100, 120	-	0.7-6.0	37, 57	-	21-35	19.5	-	27
K20-SK10-□	100, 120	-	1.75-10.0	40, 60	-	30-50	27.5	-	27.5
K22-SK6-□	100, 120	-	0.7-6.0	37, 57	-	21-35	19.5	-	27
K22-SK10-□	100, 120	-	1.75-10.0	40, 60	-	30-50	27.5	-	27.5
K25-SK6-□	100, 130	-	0.7-6.0	32, 62	-	21-35	19.5	-	30
K25-SK10-□	100, 130	-	1.75-10.0	50, 80	-	30-50	27.5	-	30
K32-SK6-□	120, 140, 170	-	0.7-6.0	45, 65, 63	-	21-35	19.5	-	37
K32-SK10-□	120, 150, 180, 210	-	1.75-10.0	45, 75, 75, 75	53, 73, 100	30-50	27.5	32, 32, 24	37
K32-SK13-□	120, 150, 180, 210	-	2.75-13.0	52, 82, 112, 142	53, 83, 111, 141	31-65	33	32, 32, 31.5, 33.5	37
K32-SK16-□	120, 150, 180, 210	-	2.75-16.0	58, 88, 118, 148	-	45-60	40	-	40
K32-SK20-□	120, 150, 180	-	3.5-20.0	58, 88, 118	-	47-70	48.5	-	40
K32-SK25-□	150	-	7.5-25.4	88	-	55-75	55	-	42
K42-SK6-□	150, 170	-	0.7-6.0	52, 62	61, 78	21-35	19.5	32	47
K42-SK10-□	150, 180	-	1.75-10.0	56, 78	-	30-50	27.5	-	47
K42-SK13-□	150, 180	-	2.75-13.0	56, 86	-	31-65	33	-	47
K42-SK16-□	150, 180	-	2.75-16.0	58, 88	-	45-60	40	-	47
K42-SK20-□	150, 180	-	3.5-20.0	68, 98	-	47-70	48.5	-	48.5
K42-SK25-□	170	-	7.5-25.4	88	-	55-75	55	-	44.5
S25-SK10-□	250, 300	145-200, 195-250	1.75-10.0	27	223, 273	30-50	27.5	-	-
S32-SK13-□	250, 300	145-185, 195-235	2.75-13.0	26	224, 274	31-65	33	-	-
S32-SK16-□	250, 300	145-185, 195-235	2.75-16.0	58	192, 242	45-60	40	-	-
S25-SK10X-□	250, 300	145-200, 195-250	1.75-10.0	27	223, 273	30-50	27.5	-	-
S32-SK13X-□	250, 300	145-185, 195-235	2.75-13.0	26	224, 274	31-65	33	-	-
S32-SK16X-□	250, 300	145-185, 195-235	2.75-16.0	58	192, 242	45-60	40	-	-



Slim Chuck Ultra Long Type



DRVS	Spannschlüssel	Spannzange	Anschlagsschraube	TiN Spannmutter (Standard)	Jet Typ Spannmutter	Jet Abdeckkappe	O-Ring Abdeckkapp	Abdeckkappenschlüssel	Gewicht (kg)
18	SKL-6W	SK6-□	SKG-8	SKN-6WK	SKN-6WKJ	SKJ6-□	SKJ6-□C	SKJL-6	0.2, 0.2
18	SKL-10	SK10-□	SKG-12L	SKN-10K	SKN-10KJ	SKJ10-□	SKJ10-□C	SKJL-10	0.3, 0.3
19	SKL-6W	SK6-□	SKG-8	SKN-6WK	SKN-6WKJ	SKJ6-□	SKJ6-□C	SKJL-6	0.2, 0.2
19	SKL-10	SK10-□	SKG-12L	SKN-10K	SKN-10KJ	SKJ10-□	SKJ10-□C	SKJL-10	0.3, 0.3
22	SKL-6W	SK6-□	SKG-8	SKN-6WK	SKN-6WKJ	SKJ6-□	SKJ6-□C	SKJL-6	0.3, 0.3
22	SKL-10	SK10-□	SKG-12L	SKN-10K	SKN-10KJ	SKJ10-□	SKJ10-□C	SKJL-10	0.4, 0.5
27	SKL-6W	SK6-□	SKG-8	SKN-6WK	SKN-6WKJ	SKJ6-□	SKJ6-□C	SKJL-6	0.5, 0.5, 0.5
27	SKL-10	SK10-□	SKG-12L	SKN-10K	SKN-10KJ	SKJ10-□	SKJ10-□C	SKJL-10	0.6, 0.7, 0.8, 1.0
27	9HC12A	SK13-□	SKG-15	SKN-13B	SKN-13BJ	SKJ16-□	SKJ16-□C	SKJL-16	0.7, 0.8, 1.0, 1.2
36	9HC16	SK16-□	SKG-18L	SKN-16B	SKN-16BJ	SKJ16-□	SKJ16-□C	SKJL-16	0.7, 0.9, 1.2, 1.4
41	9HC22	SK20-□	SKG-22	SKN-20B	SKN-20BJ	SKJ25-□	SKJ25-□C	SKJL-25	0.9, 1.3, 1.7
46	9HC25	SK25-□	SKG-28	SKN-25B	SKN-25BJ	SKJ25-□	SKJ25-□C	SKJL-25	1, 3
36	SKL-6W	SK6-□	SKG-8	SKN-6WK	SKN-6WKJ	SKJ6-□	SKJ6-□C	SKJL-6	1.0, 1.1
36	SKL-10	SK10-□	SKG-12L	SKN-10K	SKN-10KJ	SKJ10-□	SKJ10-□C	SKJL-10	1.1, 1.3
36	9HC12A	SK13-□	SKG-15	SKN-13B	SKN-13BJ	SKJ16-□	SKJ16-□C	SKJL-16	1.2, 1.4
36	9HC16	SK16-□	SKG-18L	SKN-16B	SKN-16BJ	SKJ16-□	SKJ16-□C	SKJL-16	1.2, 1.4
36	9HC22	SK20-□	SKG-22	SKN-20B	SKN-20BJ	SKJ25-□	SKJ25-□C	SKJL-25	1.5, 1.9
46	9HC25	SK25-□	SKG-28	SKN-25B	SKN-25BJ	SKJ25-□	SKJ25-□C	SKJL-25	1.8
-	SKL-10	SK10-□	SKG-12L	SKN-10K	SKN-10KJ	SKJ10-□	SKJ10-□C	SKJL-10	0.9, 1.1
-	9HC12A	SK13-□	SKG-15	SKN-13B	SKN-13BJ	SKJ16-□	SKJ16-□C	SKJL-16	1.4, 1.7
-	9HC16	SK16-□	SKG-18L	SKN-16B	SKN-16BJ	SKJ16-□	SKJ16-□C	SKJL-16	1.5, 1.8
-	SKL-10	SK10-□	SKG-12L	SKN-10K	SKN-10KJ	SKJ10-□	SKJ10-□C	SKJL-10	1.8, 2.2
-	9HC12A	SK13-□	SKG-15	SKN-13B	SKN-13BJ	SKJ16-□	SKJ16-□C	SKJL-16	2.8, 3.6
-	9HC16	SK16-□	SKG-18L	SKN-16B	SKN-16BJ	SKJ16-□	SKJ16-□C	SKJL-16	3.6, 4.4

Zylinderaufnahmen

MINI MINI - ZYLINDERAUFNAHMEN



Mini Mini

Bezeichnung	OAL	DCONMS	LB ₁	LB ₂	DCON _{WS}	LSCN	BD
K20-MMC-8-100	100	20	80	20	2.0-8.0	9.4-15.0	20
K32-MMC8-□	122, 160	32	67	40	2.0-8.0	9.4-15.0	20
K32-MMC12-170S	170	32	120	50	4.0-12.0	20.0-31.0	30

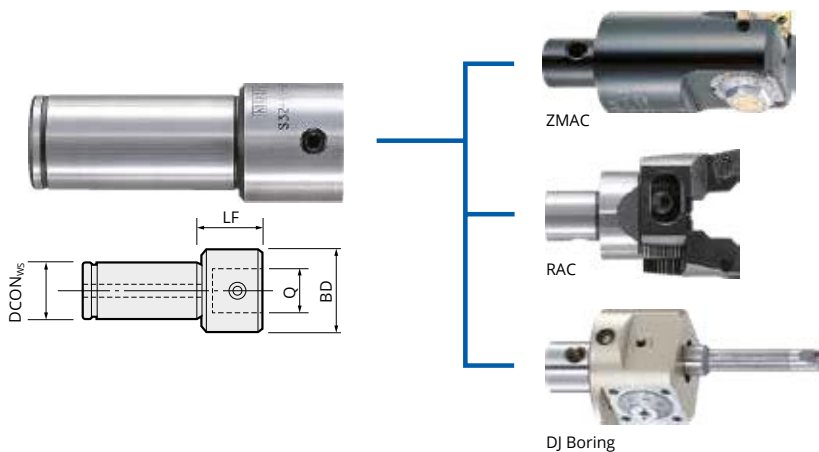
MULTI LOCK STANDARD - ZYLINDERAUFNAHMEN

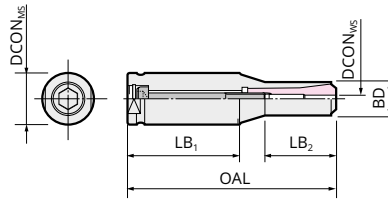


Multi Lock Standard

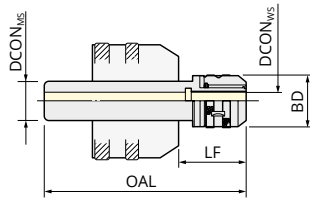
Bezeichnung	OAL	DCONMS	LF	DCON _{WS}	LSCN	BD	Spannschlüssel
S32-C12-□	120, 160, 200	32	60, 100, 140	2.0-12.0	40	33	9HC12A
S32-C16-□	130	32	70	2.0-16.0	47.5	44	9HC16
S32-C20-□	150	32	90	2.0-20.0	53	52	9HC22
S42-C16-□	180	42	120	2.0-16.0	47.5	44	9HC16
S42-C20-□	185	42	125	2.0-20.0	53	52	9HC22

MODULARE GRUNDHALTER - ZYLINDRISCH





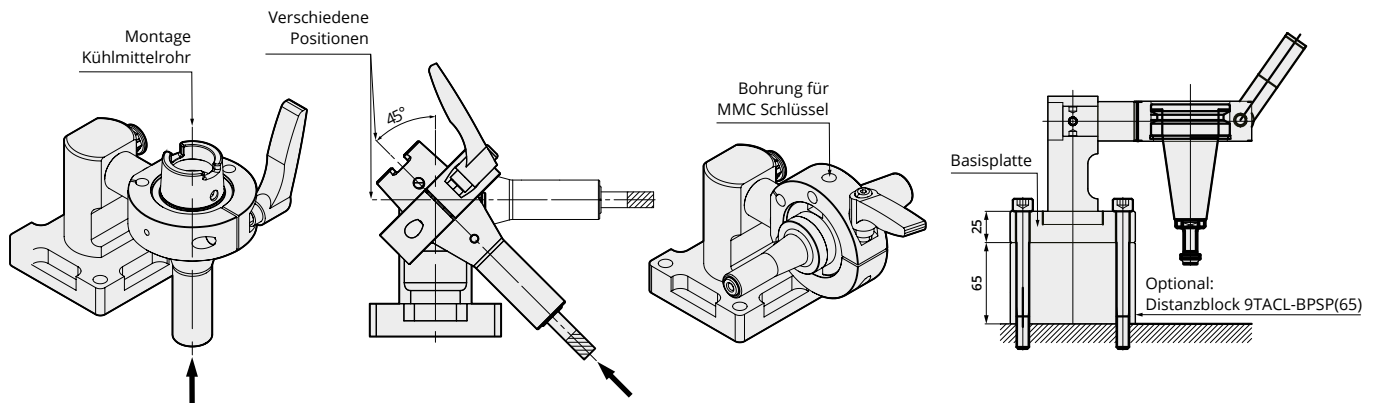
Spannzange (Standard)	Jet Spannzange	Spannzange metallisch dichtend	Gewicht (kg)
PMK8-□	VMK8-□J	VMK8-□	0.2
PMK8-□	VMK8-□J	VMK8-□	0.5, 0.7
PMK12-□	VMK12-□J	VMK12-□	1



Spannzange	Jet Abdeckkappe	O-Ring Abdeckkappe	Abdeckkappenschlüssel	Gewicht (kg)
CCK12-□, KM12-□	CKFN12-□	CKFN12-□C	CCKLN12	0.6, 0.9, 1.1
CCK16-□, KM16-□	CKFN16-□	CKFN16-□C	CCKLN16	0.7
CCK20-□, CCNK20-□, KM20-□, NK20-□	CKFN20-□	CKFN20-□C	CCKLN20	1.1
CCK16-□, KM16-□	CKFN16-□	CKFN16-□C	CCKLN16	1.6
CCK20-□, CCNK20-□, KM20-□, NK20-□	CKFN20-□	CKFN20-□C	CCKLN20	1.7

Bezeichnung	LF	Q	DCONMS	BD	LU	Gewicht (kg)
K32-Q9-20	20	9	32	19	60	0.4
K32-Q9-40	40	9	32	19	80	0.5
K32-Q12-20	20	12	32	24	60	0.4
K32-Q12-60	60	12	32	24	100	0.6
K32-Q16-20	20	16	32	31	75	0.5
K32-Q16-55	55	16	32	31	110	0.7
K32-Q20-40	40	20	32	40	110	0.7
K32-Q26-40	40	26	32	50	110	0.8
K42-Q26-40	40	26	42	50	110	1.2

MONTAGESUPPORT SCHWENKBAR



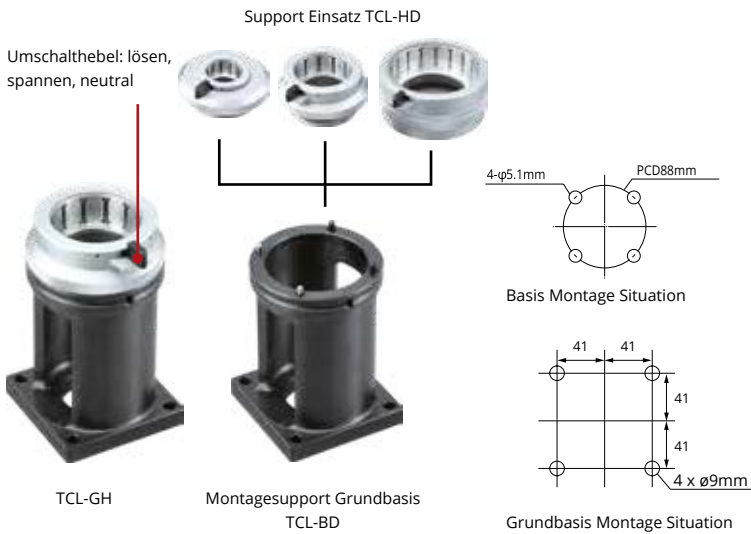
Support Bezeichnung	HSK63	HSK100	IT40	BT40	BT50	C6
TACL-B40H63	○	-	-	○	-	○
TACL-B50H100	-	○	-	-	○	-
TACL-ICAT40	-	-	○	-	-	-

TACL-B40H63 verfügbare Einsätze	Schaftnorm
9TACL63D-B30N46	BT30
9TACL63D-HSK50	HSK50, C5
9TACL63D-HSK40	HSK40, C4
9TACL63D-HSK32	HSK32
9TACL63D-HSK25	HSK25

TACL-B50H100 verfügbare Einsätze	Schaftnorm
9TACL100D-B40H63	BT40 HSK63, C6
9TACL100D-IT50	IT50
9TACL100D-HSK80	HSK80, C8

TACL-B40H63 verfügbare Einsätze	Schaftnorm
9TACL63D-S5/8	K5/8CM
9TACL63D-S3/4	K3/4CM, ST3/4
9TACL63D-S20	K20CM, ST20
9TACL63D-S25	K25CM, ST25
9TACL63D-S1	K1CM, ST1

MONTAGESUPPORT

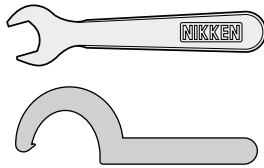


Support Bezeichnung	Grundbasis	Einsatz Bezeichnung	Schaftnorm
TCL-25GH		TCL-25HD	HSK 25E
TCL-32GH		TCL-32HD	HSK 32E
TCL-40GH		TCL-40HD	HSK 40A, 40E
TCL-46GH	TCL-BD	TCL-46HD	BT30
TCL-50GH		TCL-50HD	HSK 50A, 50E
TCL-63GH		TCL-63HD	HSK 63A, 63E, 63F, BT40
TCL-100GH		TCL-100HD	HSK100A, BT50

Für die Montage von Werkzeugen in HSK Aufnahmen ohne Mitnehmer-nuten wie z.B. HSK-E.

In die Support Basis können verschiedene Einsätze gesteckt werden.

SPANNSCHLÜSSEL



Kraftspannfutter	Bezeichnung	Slim Chuck	Bezeichnung
C12 (C1=ø 30mm)	9HC12	SK6 (C=ø 18mm)	SKL-6
C12 (C1=ø 33mm)	9HC12A	SK6 (C=ø 19.5mm)	SKL-6W
C16	9HC16	SK10	SKL-10
C20	9HC22	SK13	9HC12A
C25 (C1=ø 55mm)	9HC22	SK16	9HC16
C25 (C1=ø 60mm)	9HC25	SK20	9HC22
C32 (C1=ø 64mm)	9HC25	SK25	9HC25
C32 (C1=ø 69mm)	9HC32		
C42	9HC42		

ROLLENSCHLÜSSEL

Der GH Rollenschlüssel hat einen Umschalthebel lösen / spannen. Dadurch ist ein komfortabler Werkzeugwechsel möglich.

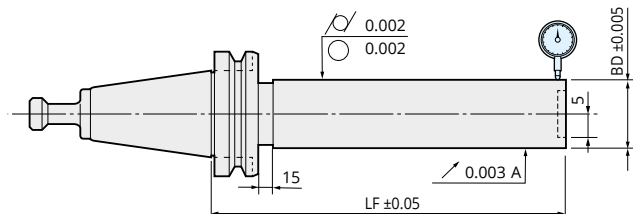
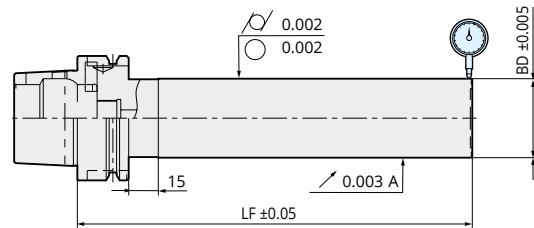


Bezeichnung	Kraftspannfutter	Slim Chuck	MAJOR DREAM	VC Holder
GH6*	—	SK 6-P / SKT 6	MDSK 6	—
GH10*	—	SK10-P / SKT10	MDSK10	VC6
GH12*	C12-G	SK13-P / SKT13	MDSK13	—
GH16*	C16-G	SK16-P / SKT16	MDSK16	VC13
GH20*	C20-G	SK20-P / SKT20	MDSK20	—
GH25*	C25-G	SK25-P / SKT25	MDSK25	—
GH32S	C32-G (Spannmutter: ø 62mm)	—	—	—
GH32	C32-G (Spannmutter: ø 68mm)	—	—	—

* Die Modelle sind optional mit Drehmoment-Einstellung verfügbar: GH6-TLS, GH10-TLS, GH16-TLS, GH20-TLS, GH25-TLS

PRÜFDORNE FÜR HSK, IT UND BT

- Unverzichtbar für die Kontrolle der Maschinenspindel.
- Spezielle Temperaturbehandlung hält die Genauigkeit aufrecht und verhindert eine Verformung.
- Jeder Prüfdorn wird in einer Sicherheits-Holzbox geliefert.



Schnittstelle	Bezeichnung	BD	LF	Gewicht (kg)	Rundlauf	Rundheit
HSK 40A	HSK40A-TB20-150	30	150	1	innerhalb 0.003mm	innerhalb 0.002mm
HSK 50A	HSK50A-TB40-200	40	200	2.2		
HSK 63A	HSK63A-TB40-200	40	200	2.4		
HSK 100A	HSK100A-TB50-300	50	300	6.3		
IT40	IT40-TB40-200	40	200	2.7		
BT30	BT30-TB40-150	40	150	1.7		
BT40	BT40-TB40-150	40	200	2.7		
BT50	BT50-TB50-300	50	300	7.7		

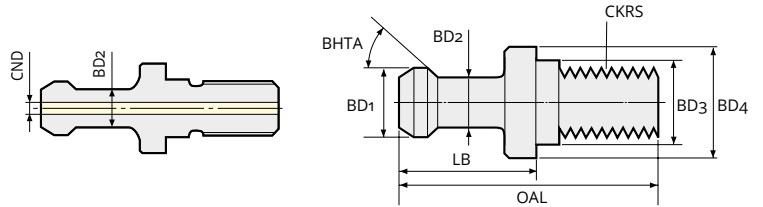
HSK KÜHLMITTELROHR



Grösse	Kühlmittelrohr Bezeichnung		Schlüssel Bezeichnung
	beweglich	fest	
HSK40A	HSK40-LP	HSK40-LPS	HSK40-LPL
HSK50A	HSK50-LP	HSK50-LPS	HSK50-LPL
HSK63A	HSK63-LP	HSK63-LPS	HSK63-LPL
HSK100A	HSK100-LP	HSK100-LPS	HSK100-LPL

Verschlusschraube für HSK63 - HSK63-LPGP optional verfügbar

ANZUGSBOLZEN (ALLE FÜR IK)



Hochfester Stahl: kein Brechen, kein Verbiegen

Karbonisiert gehärtet

Ideale Metallurgie
Struktur von Schmiedestahl



Schnittstelle	Bezeichnung	BD ₁	BD ₄	BD ₃	BD ₂	CND	OAL	LB	CKRS	BHTA	Beschreibung
IT40	PS-309	19	23	17	14	7	54	26	M16	75°	DIN
IT50	PS-581	28	36	25	21	11,5	74	34	M24	75°	DIN
BT30	PS-130E	11	16,5	12,5	7	2,5	43	23	M12	60°	Brother
BT30	PS-132	11	16,5	12,5	7	4	43	23	M12	45°	Fanuc
BT40	PS-73	15	23	17	10	4	60	35	M16	45°	MAS-1
BT40	PS-75	15	23	17	10	4	60	35	M16	60°	MAS-2
BT50	PS-5E	23	38	25	17	6	85	45	M24	45°	MAS-1
BT50	PS-6-E	23	38	25	17	6	85	45	M24	45°	MAS-2

EINSTELLSCHRAUBEN

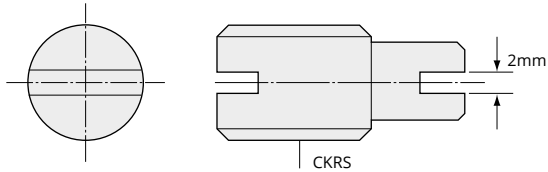


Abb. 1

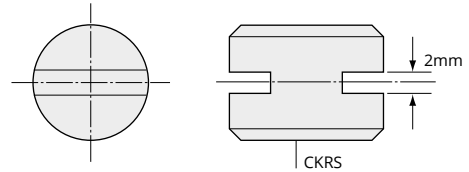
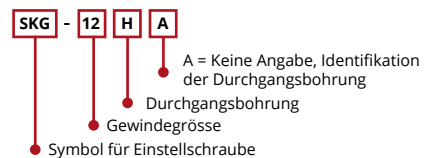
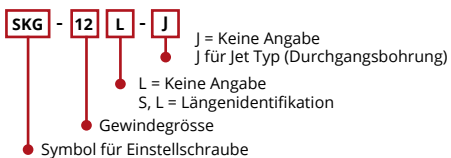


Abb. 2

Typ	CKRS	Einstellschraube	Abb.	Slim Chuck Bezeichnung
SK6	M6	SKG-8	1	Alle SK6 Slim Chucks
SK10	M12	SKG-12L	1	Alle SK10 Slim Chucks ausser folgende:
		SKG-12S	2	BT30-SK10-45, HSK50A-SK10-90, HSK63F-SK10-90
SK13	M15x1.0	SKG-15	1	Alle SK13 Slim Chucks
SK16	M18x1.5	SKG-18L	1	Alle SK16 Slim Chucks ausser folgende:
	M12	SKG-12	2	BT30-SK16-90
		SKG-12L	1	BT30-SK16-60
	M18x1.5	SKG-18S	2	BT40-SK16-60
SK20	M22x1.5	SKG-22	1	Alle SK20 Slim Chucks ausser folgende:
	M12	SKG-12	2	BT30-SK20-90
		SKG-12L	1	BT30-SK20-75
	SKG-12S	2	BT30-SK20-60	
SK25	M28x2.0	SKG-28	1	Alle SK25 Slim Chucks ausser folgende:
	M12	SKG-12	2	BT30-SK25-90, BT40-SK25-75

Typ	CKRS	Einstellschraube	Abb.	CND	Wkz Ø
SK10	M12	SKG-12H	3	ø 4	ø 6-
		SKG-12HA	3	ø 2.5	ø 4-
SK13	M15x1.0	SKG-15H	3	ø 4	ø 6-
		SKG-15HA	3	ø 2.5	ø 4-
SK16	M12	SKG-12H	3	ø 4	ø 6-
		SKG-12HA	3	ø 2.5	ø 4-
	M18x1.5	SKG-18H	3	ø 7.2	ø 10-
		SKG-18HA	3	ø 3.5	ø 5-
SK20	M12	SKG-12H	3	ø 4	ø 6-
		SKG-12HA	3	ø 2.5	ø 4-
SK25	M12	SKG-12H	3	ø 4	ø 6-
		SKG-12HA	3	ø 2.5	ø 4-
	M28x2.0	SKG-28H	3	ø 12	ø 16-

Alle Modelle können mit Durchgangsbohrung bestellt werden.
J am Ende der Bezeichnung anfügen.



Weitere Ausführungen, zum Beispiel für die Anwendung beim Gewindeschneiden, sind auf Anfrage verfügbar.

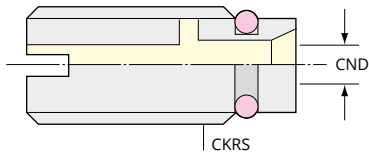


Abb. 3

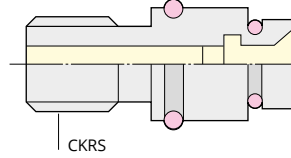
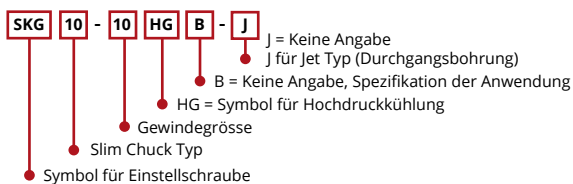


Abb. 4

Typ	CKRS	Einstellschraube	Abb.	CND	WKz ø	Slim Chuck Bezeichnung
SK6	M6	SKG 6- 6HG	4	ø 2.5	ø 4-	Tous les Slim Chucks SK6C/SK6F
SK10	M10	SKG10-10HG	4	ø 4	ø 6-	Tous les Slim Chucks SK10C/SK10F
	M10	SKG10-10HGA	4	ø 2.5	ø 4-	
SK13	M10	SKG13-10HG	4	ø 4	ø 6-	Tous les Slim Chucks SK13C/SK13F
	M10	SKG13-10HGA	4	ø 2.5	ø 4-	
SK16	M12	SKG16-12HG	4	ø 7.2	ø 10-	Tous les Slim Chucks SK16C/SK16F, sauf les suivants :
	M12	SKG16-12HGB	4			BT40-SK16F-90
	M10	SKG16-10HG	4			HSK40A-SK16C-120, HSK50A-SK16C-120 HSK63A-SK16C-120, 150, HSK100A-SK16C-120 NBT40-SK16C-60, NBT30-SK16C-75
	M12	SKG16-12HGE	4			NBT30-SK16C-60
SK16	M12	SKG16-12HGA	4	ø 3.5	ø 5-	Tous les Slim Chucks SK16C/SK16F, sauf les suivants :
	M12	SKG16-12HGBA	4			BT40-SK16F-90
	M10	SKG16-10HGA	4			HSK40A-SK16C-120, HSK50A-SK16C-120 HSK63A-SK16C-120, 150, HSK100A-SK16C-120 NBT40-SK16C-60, NBT30-SK16C-75
	M18x1.5	SKG20-18HG	4			Tous les Slim Chucks SK20C/SK20F, sauf les suivants :
SK20	M12	SKG20-12MFHG	4	ø 6.8	ø 10-	HSK63A-SK20C-120, -135
	M12	SKG20-12HG	4			NBT30-SK20C-90 HSK100A-SK20C-150, -200
	M10	SKG20-12HGE	4			NBT30-SK20C-75
	M16	SKG20-16HG	4			NBT40-SK20C-60
	M18x1.5	SKG20-18HGB	4			BT40-SK20F-90
SK25	M24x1.5	SKG25-24HG	4	ø 12	ø 16-	Tous les Slim Chucks SK25C/SK25F, sauf les suivants :
	M24x1.5	SKG25-24HGA	4			BT40-SK25F-120, BT50-SK25F-105
	M18x1.5	SKG25-18HGC	4			BT40-SK25F-90
	M18x1.5	SKG25-18HGD	4			BT40-SK25C-90, NC5-63-SK25C-135 NBT40-SK25C-90
	M18x1.5	SKG25-18HGE	4			HSK63A-SK25C-135, HSK100A-SK25C-145, NBT40-SK25C-75



ISO Attribut	Merkmalbenennung
ADJLXRDL	Verstellbereich, radial
BD	Körperdurchmesser
BHTA	Winkel Rückzugspannzange
CKRS	Gewinde Rückzugsbolzen
CND	Durchmesser für Kühlschmierstoff
DC	Durchmesserbereich
DCIN	Durchmesserbereich, Zapfen
DCINN	Durchmesserbereich, Zapfen, min.
DCINX	Durchmesserbereich, Zapfen, max.
DCON_{MS}	Aufnahmedurchmesser, maschinenseitig
DCON_{WS}	Spanndurchmesser, nominal, werkstückseitig
DN	Halsdurchmesser
DRVS	Schlüsselweite
L	Schneidkantenlänge
LB	Grundkörperlänge
LF	Funktionslänge
LS	Schaftlänge
LSC	Einspannlänge
LSCN	Einspannlänge, min.
LSCX	Einspannlänge, max.
LU	Nutzbare Länge (mögliche Ausbohrtiefe)
OAL	Gesamtlänge
WF	Funktionsbreite

Wendeplatten

Ausbohrsystem	NIKKEN Code	ISO Code	Schraube Code	Schraube Bez.	Schlüssel
RAC RAC (RAK) RAC Alpha (RAK)	CC08	CC□□09T3□□	M4090	M4	T-15
	CC12	CC□□1204□□	M5012	M5	T-15
	CN08	CN□□1204□□	CSM-70	M4.5	20S
	AEG12	AE□□09030□□L	M3070	M3	T-10
	AEG16	AE□□1503□□L	M4090	M4	T-15
	SC09	SC□□0702□□	M3070	M3	T-10
	SC12	SC□□1204□□	M5012	M5	T-15
DJ Boring	CC03	CC□□0301□□L	M611	M1.4	10S
	3MP	WB□□0601□□	M2037	M2	T-6
	6MP	TP□□1103□□	M2577	M2.5	T-8
eMAC	EM02	WC□□0201□□	TS21 kurz TS211 lang	M2	T-6
	EM09	TP□□0902□□	CS250T	M2.5	T-8
	EM11	TP□□1103□□	CS300890T	M3	T-8
DJ Boring ZMAC ZMAC Alpha BCB BAC BAC Alpha	CC03	CC□□0301□□L	M611	M1.4	10S
	1MP	WB□□0501□□L	M61	M1.4	10S
	3MP	WB□□0601□□	M2045	M2	T-6
	4MP	WB□□0802□□	M2055	M2	T-6
	6MP	TP□□1103□□	M2562D * M2577	M2.5	T-8
ZMAC ISO	TC..0902..L	TC□□0902□□	M2255	M2.2	T-6
	TP..1103..L	TP□□1103□□	M3070	M3	T8
	CC06	CC□□0602□□	M2560 kurz M2577 lang	M2.5	T-8
	CC08	CC□□09T3□□	M4090 kurz M4012 lang	M4	T-15
	CC12	CC□□1204□□	M5012	M5	T-15

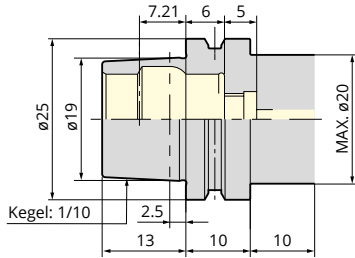
* zwingend bei der Verwendung einer ISO Platte

Wenn keine neutrale Wendeplatte verwendet wird muss es zwingend ein linke Ausführung sein.

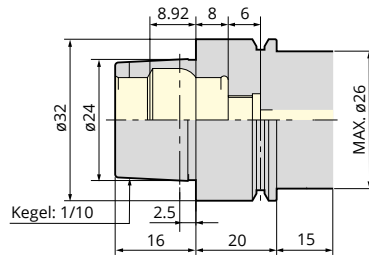
Schnittstellen

DIMENSION VON ISO, DIN & MAS BT SCHAFT

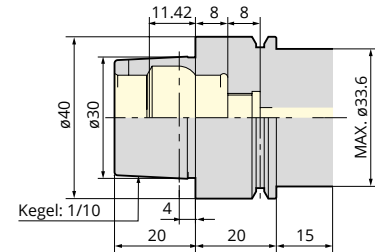
HSK25E (DIN69893-5)



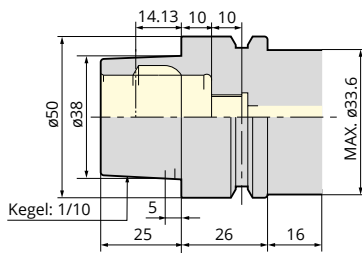
HSK32E (DIN69893-5)



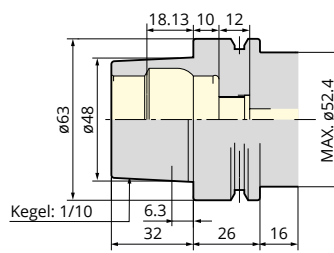
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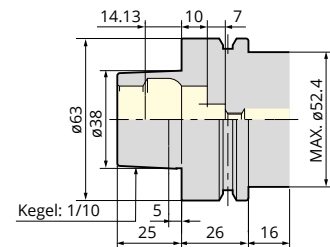
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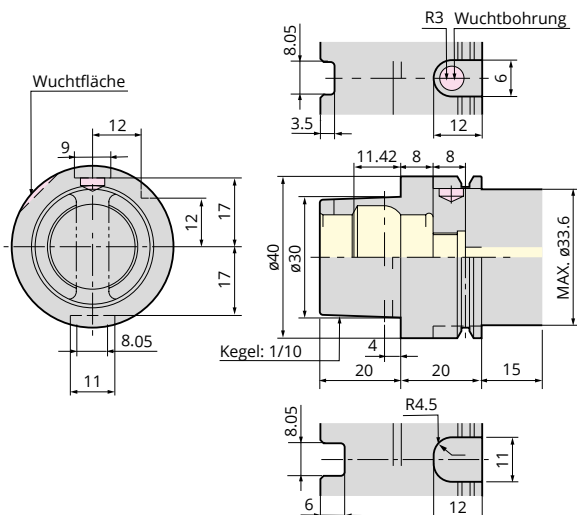
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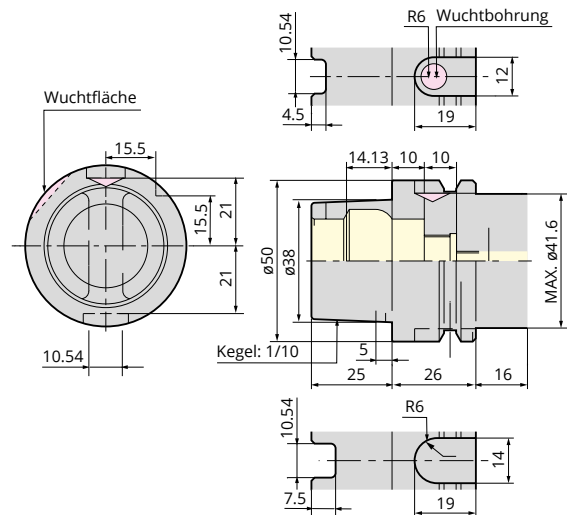
HSK63F (DIN69893-6)



HSK40A (ISO 12164-1)



HSK50A (ISO 12164-1)



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