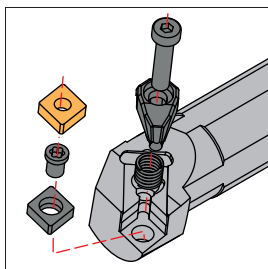


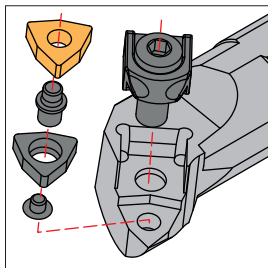


BORING BARS BOHRSTANGEN

Clamping systems Klemmsysteme	A170
Code system (ISO) Kodifizierung (ISO)	A171
Applications index Anwendungen	A172-174
Dimple lock boring bars Bohrstangen mit Dimple Lock-Klemmung	A176-177
Wedge clamp boring bars / Double lock boring bars Bohrstangen mit Pratzen-Klemmung / Bohrstangen mit Doppel-Klemmung	A178-186
Lever lock boring bars Bohrstangen mit Kniehebel-Klemmung	A187-199
Top clamp boring bars Bohrstangen mit oberer Klemmung	A200-203
Center screw boring bars Bohrstangen mit Zentralschrauben-Klemmung	A204-235
Anti-vibration tools Schwingungsgedämpfte Bohrstangen	A236-247
Cutting data Schnittdaten	A248-249

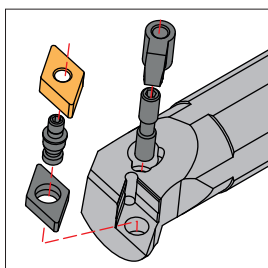
**(D) Dimple lock**

The "D" clamping system avoids insert movement during high feed or heavily interrupted machining, due to its accurate indexing that holds the insert securely clamped. Das "D"-Klemmsystem vermeidet die Bewegung der Wendschneidplatte bei hohem Vorschub oder bei stark unterbrochener Bearbeitung dank der genauen Positionierung, die die Wendschneidplatte sicher befestigt.

**(M) Wedge clamp
(M) Pratzen-Klemmung**

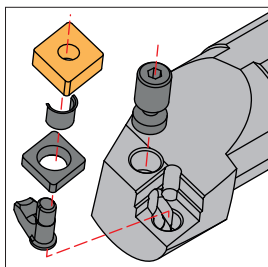
Negative inserts require good clamping force for heavy duty work, for this purpose we have designed our "M" system, one of the strongest and safest available.

Die negativen Wendeplatten für sehr schwere Zerspanungsarbeiten benötigen eine gute Klemmung, dafür bieten wir unser "M" Klemmsystem, das eines der stärksten und sichersten ist.

**(M-K) Double lock
(M-K) Doppel-Klemmung**

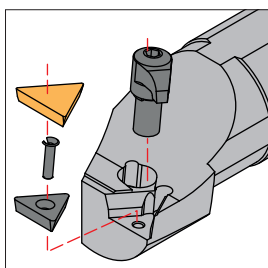
The double lock system offers good rigidity in negative inserts clamping. It is the first choice for center hole negative ceramic and cermet inserts.

Das doppelte Klemmsystem bietet eine gute Unbeweglichkeit bei der Klemmung von negativen Wendschneidplatten. Es ist die erste Wahl für negative Keramik-Wendschneidplatten mit zentralem Loch und auch für Cermet-Wendschneidplatten.

**(P) Lever lock
(P) Kniehebel-Klemmung**

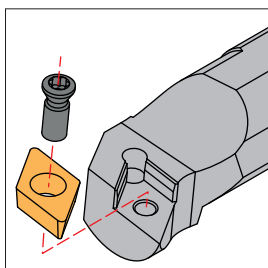
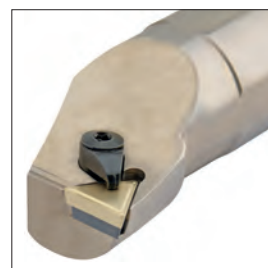
The classic lever lock system allows a wide range of applications. It is the first choice for general purpose turning toolholders.

Das klassische Hebel-System erlaubt eine breite Reihe von Anwendungen. Es ist die erste Wahl für allgemeine Drehoperationen

**(C) Top clamp
(C) Obere Klemmung**

The classic positive insert clamping system is designed to hold flat positive inserts, both with additional or sintered chipbreaker.

Dieses klassische Klemmsystem von positiven Wendeplatten erlaubt die Verwendung von allen Wendeplatten dieses Typs, in üblicher Sinterausführung sowohl als auch mit Spanbrecher.

**(S) Center screw
(S) Zentralschrauben-Klemmung**

Since the advent of the TORX screw it has been possible to hold with complete safety positive inserts with center hole. Our range covers all the screw fixing permutations.

Seit der Einführung der Torx-Schraube ist es möglich, die positiven Wendschneidplatten mit zentralem Loch zu klemmen. Unser Programm bietet alle Klemmmöglichkeiten mit Schraube.

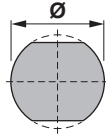


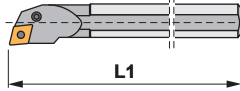
Code system / Kodifizierung (ISO)

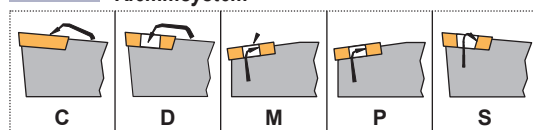
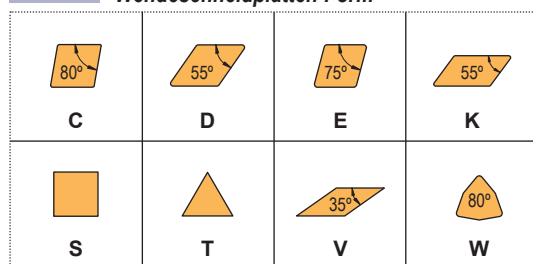
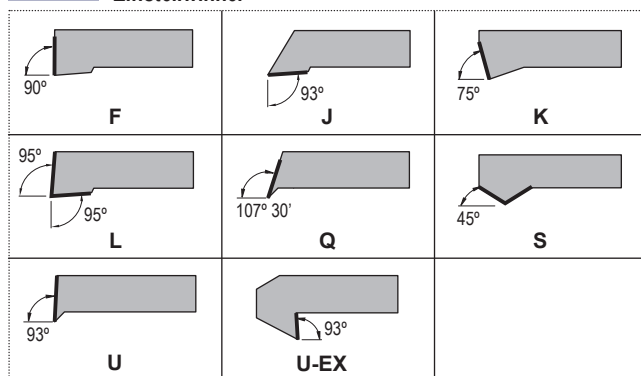
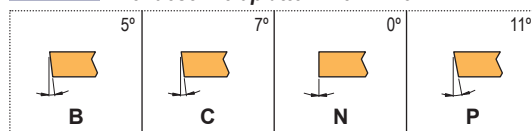
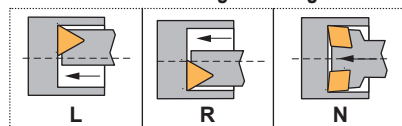
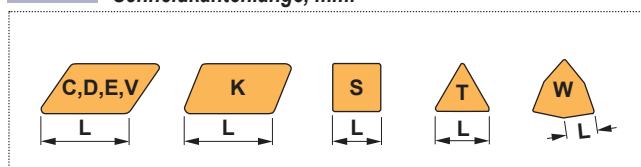
S	25	T	S	D	U	C	R	11	-	EX
1	2	3	4	5	6	7	8	9		10

1 Type of bar
Schaft-Ausführung

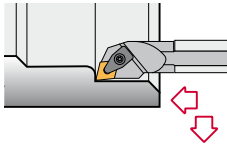
A	Steel shank with internal coolant. Bohrstange aus Stahl mit Kühlmittelzufuhr.	
E	Anti-vibration shank (carbide) with internal coolant. Schwingungsgedämpfte Bohrstange (Hartmetall) mit Kühlmittelzufuhr.	
S	Steel shank Bohrstange aus Stahl	

2Bar diameter, mm.
Schaft-Durchmesser mm.**3**Bar length, mm
Werkzeuglänge, mm

	H 100	T 300
	J 110	U 350
	K 125	V 400
	L 140	W 450
	M 150	Y 600
	Q 180	X Special Sonder
	R 200	
	S 250	

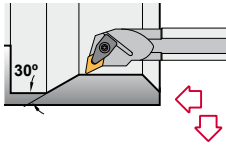
4 Clamping method of insert
Klemmsystem**5** Insert shape
Wendeschneidplatten-Form**6** Holder style
Einstellwinkel**7** Clearance angle of insert
Wendeschneidplatten-Freiwinkel**8** Hand
Bearbeitungsrichtung**9** Cutting edge length, mm
Schneidkantenlänge, mm.**10**Manufacturer's option.
Herstellervahl.

NEGATIVE BORING BARS / NEGATIVE BOHRSTANGEN

**Dimple lock boring bars
Bohrstangen mit Dimple Lock-Klemmung****DCLN 95°-N**

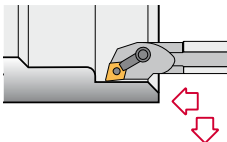
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CN.. 1204..
CN.. 1606..

DDUN 93°-N

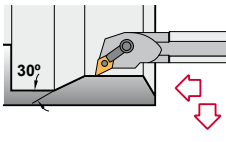
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DN.. 1506..

**Wedge clamp / Double lock boring bars
Bohrstangen mit Pratzen- und Doppel-Klemmung****MCLN-K 95°**

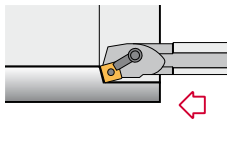
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CN.. 1204..

MDUN-K 93°

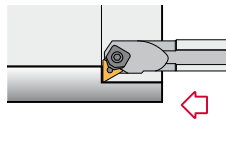
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DN.. 1506..

MSKN-K 75°

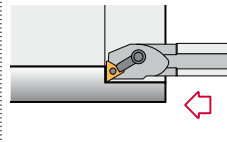
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SNM.. 1204..

MTFN 90°

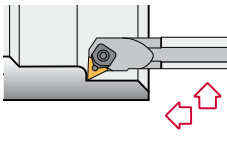
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TNM.. 1604..
TNM.. 2204..

MTFN-K 90°

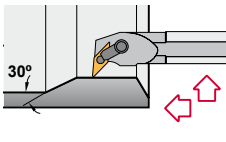
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TNM.. 1604..
TNM.. 2204..

MTUN 93°

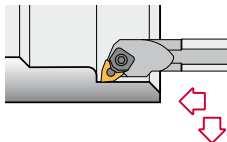
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TNM.. 1604..
TNM.. 2204..

MVUN-K 93°

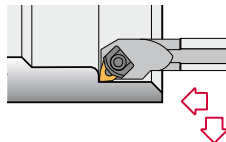
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VN.. 1604..

MWLN 95°

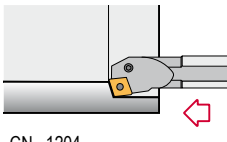
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WNM.. 0604..
WNM.. 0804..

MWLN-K 95°

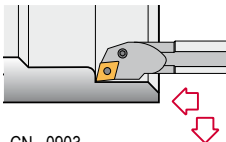
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WNMG 0804..

**Lever lock boring bars
Bohrstangen mit Kniehebel-Klemmung****PCKN 75°**

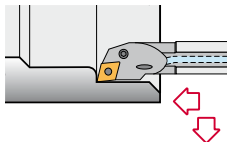
CN.. 1204..
CN.. 1606..
CN.. 1906..

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PCLN 95°

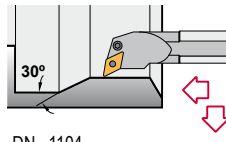
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CN.. 1906..

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A-PCLN 95°

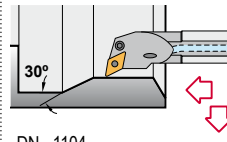
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CN.. 1204..

PDUN 93°

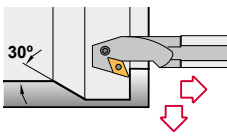
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DN.. 1506..

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A-PDUN 93°

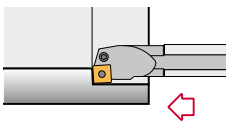
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DN.. 1504..
DN.. 1506..

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PDUN 93°-EX

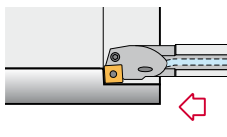
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DN.. 1504..
DN.. 1506..

PSKN 75°

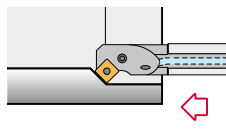
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SNM.. 1204..
SNM.. 1506..
SNM.. 1906..

A-PSKN 75°

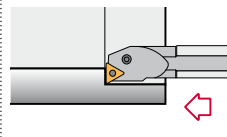
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SNM.. 1204..

A-PSSN 45°

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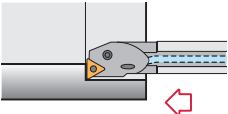
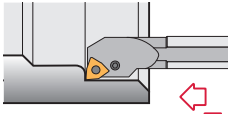
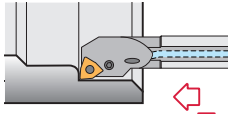
SNM.. 1204..

PTFN 90°

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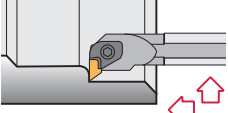
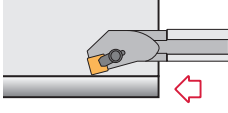
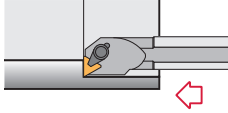
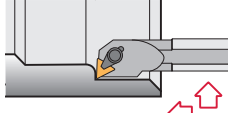
TNM.. 1604..
TNM.. 2204..

Lever lock boring bars Bohrstangen mit Kniehebel-Klemmung

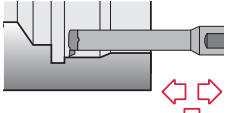
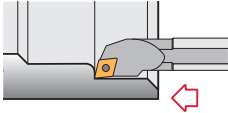
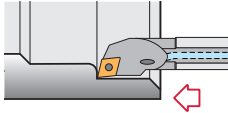
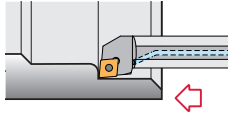
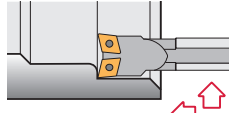
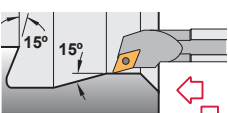
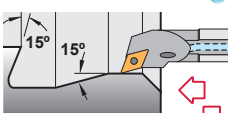
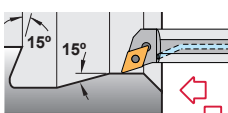
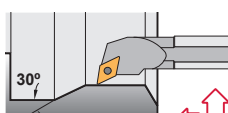
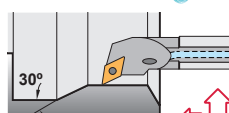
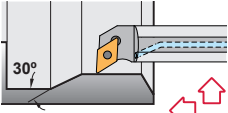
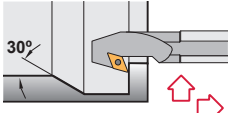
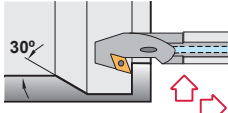
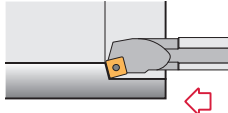
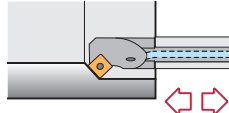
A-PTFN 90°  Page TNM.. 1604.. Seite A197 TNM.. 2204..	PWLN 95°  Page WNM.. 0604.. Seite A198 WNM.. 0804..	A-PWLN 95°  Page WNM.. 0604.. Seite A199 WNM.. 0804..		
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POSITIVE BORING BARS / POSITIVE BOHRSTANGEN

Top clamp boring bars Bohrstangen mit oberer Klemmung

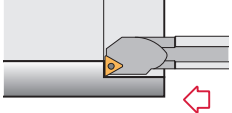
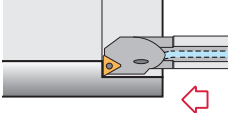
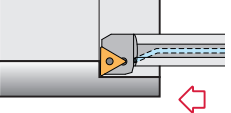
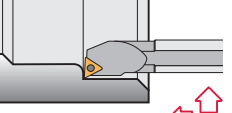
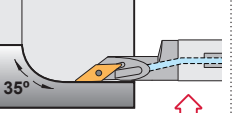
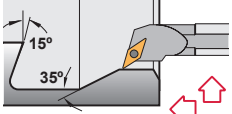
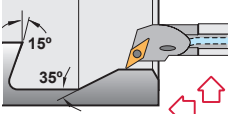
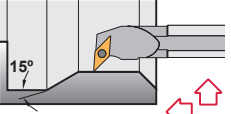
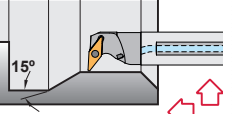
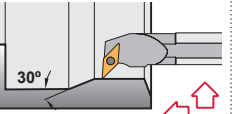
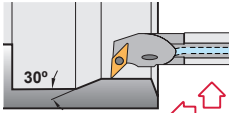
CKUN 93°  Page KNUX 1604.. Seite A200	CSKP 75°  Page SP.. 0903.. Seite A201 SP.. 1203.. SP.. 1904..	CTFP 90°  Page TP.. 0902.. Seite A202 TP.. 2204..	CTUP 93°  Page TP.. 0902.. Seite A203 TP.. 2204..	
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Center screw boring bars Bohrstangen mit Zentralschrauben-Klemmung

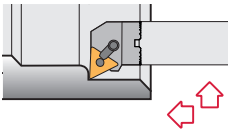
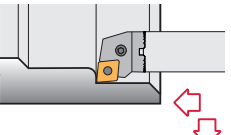
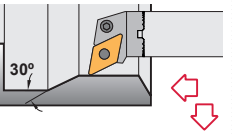
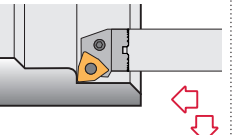
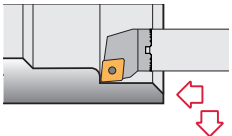
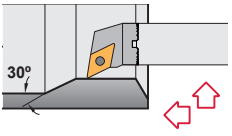
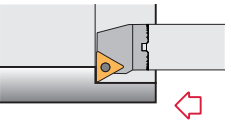
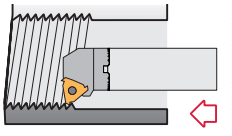
608.00  Page R/LS 08.. Seite A204 R/LS 16..	SCLC 95°  Page CC.. 0602.. Seite A205 CC.. 09T3.. CC.. 1204..	A-SCLC 95°  Page CC.. 0602.. Seite A206 CC.. 09T3.. CC.. 1204..	E-SCLC 95°  Page CC.. 0301.. Seite A208 CC.. 09T3.. CC.. 1204..	SCLCN 95°  Page CC.. 0602.. Seite A210 CC.. 09T3.. CC.. 1204..
SDQC 107°30'  Page DC.. 0702.. Seite A211 DC.. 11T3..	A-SDQC 107°30'  Page DC.. 0702.. Seite A212 DC.. 11T3..	E-SDQC 107°30'  Page DC.. 0702.. Seite A214 DC.. 11T3..	SDUC 93°  Page DC.. 0702.. Seite A215 DC.. 11T3..	A-SDUC 93°  Page DC.. 0702.. Seite A216 DC.. 11T3..
E-SDUC 93°  Page DC.. 0702.. Seite A218 DC.. 11T3..	SDUC 93°-EX  Page DC.. 0702.. Seite A219 DC.. 11T3..	A-SDUC 93°-EX  Page DC.. 0702.. Seite A220 DC.. 11T3..	SSKC 75°  Page SC.. 09T3.. Seite A221 SC.. 1204..	A-SSSC 45°  Page SC.. 09T3.. Seite A222

POSITIVE BORING BARS / POSITIVE BOHRSTANGEN

Center screw boring bars
Bohrstangen mit Zentralschrauben-Klemmung

STFC 90°  TC.. 0902.. Page TC.. 1102.. Seite A223 TC.. 16T3..	A-STFC 90°  TC.. 0902.. Page TC.. 1102.. Seite A224 TC.. 16T3..	E-STFC 90°  Page TC.. 1102.. Seite A226	STUC 93°  Page TC.. 1102.. Seite A227 TC.. 16T3..	A-SVJC 93°  VC.. 1103.. Page VC.. 1604.. Seite A228
SVQC 107°30'  VC.. 1103.. Page VC.. 1303.. Seite A230 VC.. 1604..	A-SVQC 107°30'  VC.. 1103.. Page VC.. 1604.. Seite A231	SVUB 93°  Page VBMT 1604.. Seite A232	A-SVUB 93°  Page VBMT 1604.. Seite A233	SVUC 93°  Page VC.. 1103.. Seite A234 VC.. 1604..
A-SVUC 93°  VC.. 1103.. Page VC.. 1604.. Seite A235				

Anti-vibration tools
Schwingungsgedämpfte Bohrstan- gen

J..  Page Seite A238	MTUN 93°-N  Page TNM.. 1604.. Seite A239 TNM.. 2204..	PCLN 95°-N  Page CN.. 1204.. Seite A240 CN.. 1606..	PDUN 93°-N  Page DN.. 1504.. Seite A241 DN.. 1506..	PWLN 95°-N  Page WNM.. 0804.. Seite A242
SCLC 95°-N  Page CC.. 09T3.. Seite A243 CC.. 1204..	SDUC 93°-N  Page DC.. 11T3.. Seite A244	STFC 90°-N  Page TC.. 16T3.. Seite A245	STXN 90°-N  Page 16 NR/L.. Seite A246 22 NR/L..	J..-A..  Page Seite A247

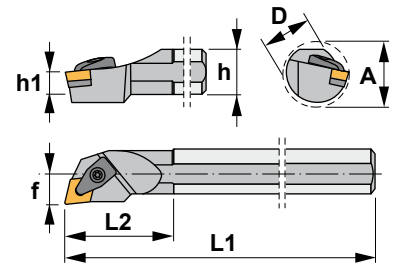


**Characteristics:**

Boring bar for internal turning applications equipped with rhombic negative inserts (angle 80°).

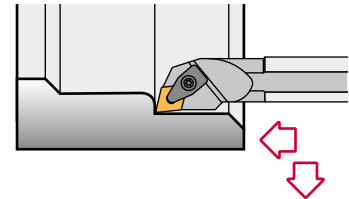
For low powered machines and small pieces choose boring bars Ref. SCLC (Page: A207).

Axial -5°
Radial -13.5°

**Eigenschaften:**

Bohrstange zum Innendrehen mit rhombischen negativen Wendeschneidplatten (80° Winkel).

Für Niederleistungsmaschinen und kleine Werkstücke, wählen Sie Bohrstangen Bez. SCLC (Seite: A207).



DCLN 95°-N

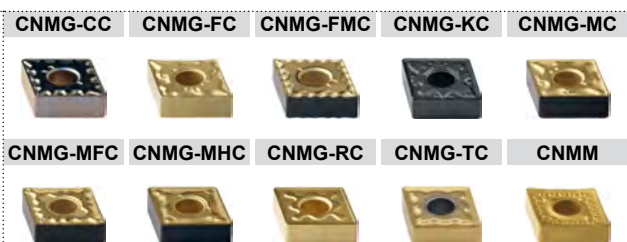
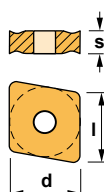
Reference Bezeichnung	D	h	h1	L1	L2	f	A	Insert size Wendeschneidplatte	Kg
S25T DCLN R/L 12-N	25	23	11,5	300	40	17	31	CN.. 1204..	0,700
S32U DCLN R/L 12-N	32	30	15,0	350	45	22	39	CN.. 1204..	2,050
S40V DCLN R/L 12-N	40	37	18,5	400	50	27	48	CN.. 1204..	3,750
S40V DCLN R/L 16-N	40	37	18,5	400	50	27	48	CN.. 1606..	3,750

Reference Bezeichnung							Nm
S25T DCLN R/L 12-N	ICSN-422	1766	2712	1696	4295	5004	3.5
S32U DCLN R/L 12-N	ICSN-442	1766	2712	1696	4295	5004	3.5
S40V DCLN R/L 12-N	ICSN-442	1766	2712	1696	4295	5004	3.5
S40V DCLN R/L 16-N	ICSN-533	1768	2716	1696	4295	5004	3.5

CN..

80° rhombic negative inserts.
80° rhombische negative WSP. A32-34

Reference / Bez.	l	s	d
CN.. 1204..	12,90	4,76	12,70
CN.. 1606..	16,10	6,35	15,88



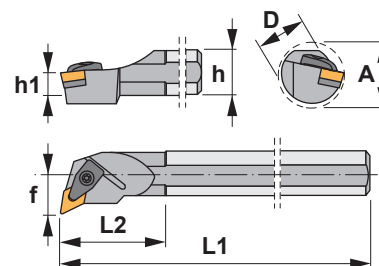


Characteristics:

Boring bar for internal turning and profiling applications equipped with rhombic negative inserts (angle 55°).

For low powered machines and small pieces choose boring bars Ref. SDUC (Page: A217).

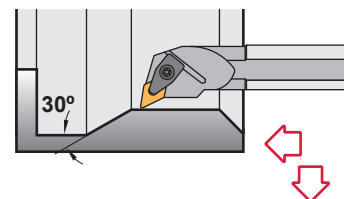
Axial -6°
Radial -14°



Eigenschaften:

Bohrstange zum Innen- und Profildrehen mit rhombischen negativen Wendeschneidplatten (55° Winkel).

Für Niederleistungsmaschinen und kleine Werkstücke, wählen Sie Bohrstangen SDUC (Seite: A217).



DDUN 93°-N

Reference Bezeichnung	D	h	h1	L1	L2	f	A	Insert size Wendeschneidplatte	Kg
S32U DDUN R/L 15-N	32	30	15,0	350	45	22	39	DN.. 1506..	2,050
S40V DDUN R/L 15-N	40	37	18,5	400	50	27	48	DN.. 1506..	3,750

Reference Bezeichnung							Nm
S32U DDUN R/L 15-N	IDSN-432	1766	2712	1696	4295	5004	3.5
S40V DDUN R/L 15-N	IDSN-432	1766	2712	1696	4295	5004	3.5

DN..

55° rhombic negative inserts. A36-37
55° rhombische negative Wendeschneidplatten.

Reference / Bez.

l

s

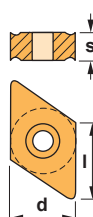
d

DN.. 1506..

15,50

6,35

12,70



DNMA DNMG-FC DNMG-FMC DNMG-KC



DNMG-MC

DNMG-MHC

DNMG-TC

DNMX

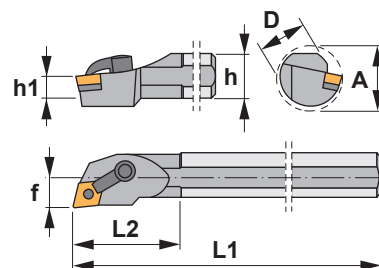


**Characteristics:**

Multipurpose boring bar equipped with rhombic negative double-sided insert (angle 80°).

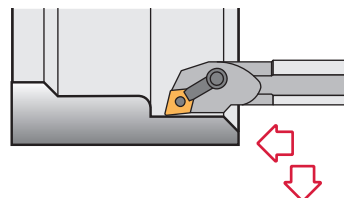
For low powered machines and small pieces choose boring bars Ref. SCLC (Page: A207).

Axial -5°
Radial -13.5°

**Eigenschaften:**

Multifunktions-Bohrstange mit doppelseitigen rhombischen negativen Wendeschneidplatten (80° Winkel).

Für Niederleistungsmaschinen und kleine Werkstücke, wählen Sie Bohrstangen SCLC (Seite: A207).



MCLN-K 95°

Reference Bezeichnung	D	h	h1	L1	L2	f	A	Insert size Wendeschneidplatte	Kg
S25T MCLN R/L 12-K	25	23	11,5	300	40	17	31	CN.. 1204..	0,700
S32U MCLN R/L 12-K	32	30	15,0	350	45	22	39	CN.. 1204..	2,050
S40V MCLN R/L 12-K	40	37	18,5	400	50	27	48	CN.. 1204..	3,750

Reference Bezeichnung							Nm
S25T MCLN R/L 12-K	2613	1186	5003	-	1686	5025	3.0
S32U MCLN R/L 12-K	2613	1086	5003	ICSN-432	1656	5025	3.0
S40V MCLN R/L 12-K	2613	1086	5003	ICSN-432	1656	5025	3.0

CN..

80° rhombic negative inserts.
80° rhombische negative WSP. A32-34

Reference / Bez.

l

s

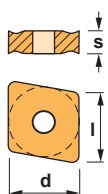
d

CN.. 1204..

12,90

4,76

12,70



CNMG-CC

CNMG-FC

CNMG-FMC

CNMG-KC

CNMG-MC



CNMG-MFC

CNMG-MHC

CNMG-RC

CNMG-TC

CNMM



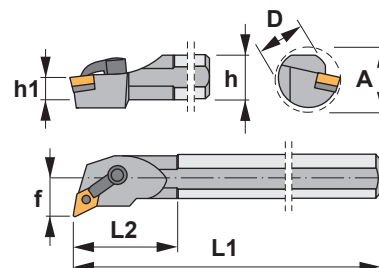


Characteristics:

Internal turning and profiling boring bar equipped with rhombic negative double-sided insert (angle 55°).

For low powered machines and small pieces choose boring bars Ref. SDUC (Page: A217).

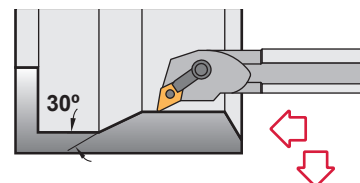
Axial -6°
Radial -12°



Eigenschaften:

Bohrstange zum Innen- und Profildrehen mit doppelseitigen rhombischen negativen Wendeschneidplatten (55° Winkel).

Für Niederleistungsmaschinen und kleine Werkstücke, wählen Sie Bohrstangen SDUC (Seite: A217).



MDUN-K 93°

Reference Bezeichnung	D	h	h1	L1	L2	f	A	Insert size Wendeschneidplatte	Kg
S25T MDUN R/L 15-K	25	23	11,5	300	40	17	31	DN.. 1506..	0,700
S32U MDUN R/L 15-K	32	30	15,0	350	45	22	39	DN.. 1506..	2,050
S40V MDUN R/L 15-K	40	37	18,5	400	50	27	48	DN.. 1506..	3,750

Reference Bezeichnung							Nm
S25T MDUN R/L 15-K	2614	1186	5003	-	1686	5025	3.0
S32U MDUN R/L 15-K	2614	1086	5003	IDSN-432	1666	5025	3.0
S40V MDUN R/L 15-K	2614	1086	5003	IDSN-432	1666	5025	3.0

DN..

55° rhombic negative inserts. A36-37
55° rhombische negative Wendeschneidplatten.

Reference / Bez.

l

s

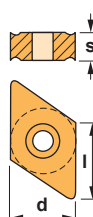
d

DN.. 1506..

15,50

6,35

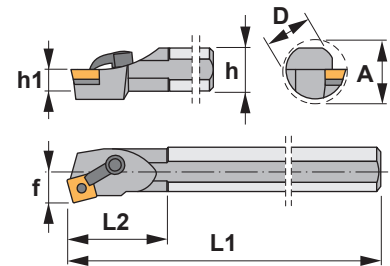
12,70



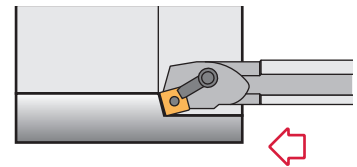
**Characteristics:**

Boring bar for internal turning applications equipped with square negative inserts.
For low powered machines and small pieces choose boring bars Ref. CSKP (Page: A201) or SSKC (Page: A223).

Axial -3.25°
Radial -11°

**Eigenschaften:**

Bohrstange zum Innendrehen mit vierkantigen negativen Wendschneidplatten.
Für Niederleistungsmaschinen und kleine Werkstücke, wählen Sie Bohrstangen CSKP (Seite: A201) oder SSKC (Seite: A223).



MSKN-K 75°

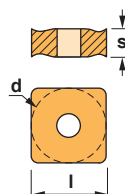
Reference Bezeichnung	D	h	h1	L1	L2	f	A	Insert size Wendschneidplatte	Kg
S32U MSKN R/L 12-K	32	33	15,0	350	45	22	39	SNM.. 1204..	2,050
S40V MSKN R/L 12-K	40	37	18,5	400	50	27	48	SNM.. 1204..	3,750

Reference Bezeichnung							Nm
S32U MSKN R/L 12-K	2613	1086	5003	ISSN-432	1656	5025	3.0
S40V MSKN R/L 12-K	2613	1086	5003	ISSN-432	1656	5025	3.0

SNM..

Square negative inserts.
Vierkantige negative Wendschneidplatten. A41-42

Reference / Bez.	l	s	d
SNM.. 1204..	12,70	4,76	12,70

**SNMG-FMC****SNMG-KC****SNMG-MHC****SNMG-RC****SNMG-TC****SNMM**

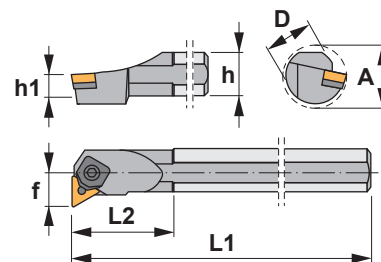


Characteristics:

Internal turning and profiling boring bar equipped with triangular negative double-sided insert.

For low powered machines and small pieces choose boring bars Ref. CTFP (Page: A202) or STFC (page: A225).

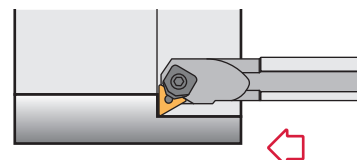
Axial -6°
Radial -12°



Eigenschaften:

Bohrstange zum Innen- und Profildrehen mit doppelseitigen dreikantigen negativen Wendeschneidplatten.

Für Niederleistungsmaschinen und kleine Werkstücke, wählen Sie Bohrstangen CTFP (Seite: A202) oder STFC (Seite: A225).



MTFN 90°

Reference Bezeichnung	D	h	h1	L1	L2	f	A	Insert size Wendeschneidplatte	Kg
S25T MTFN R/L 16	25	23	11,5	300	40	17	34	TNM.. 1604..	0,700
S32U MTFN R/L 16	32	30	15,0	350	45	22	39	TNM.. 1604..	2,050
S40V MTFN R/L 16	40	37	18,5	400	50	27	48	TNM.. 1604..	3,750
S50W MTFN R/L 16	50	47	23,5	450	60	35	61	TNM.. 1604..	6,500
S60Y MTFN R/L 16	60	57	28,5	600	75	43	80	TNM.. 1604..	12,600
S40V MTFN R/L 22	40	37	18,5	400	50	27	48	TNM.. 2204..	3,750
S50W MTFN R/L 22	50	47	23,5	450	60	35	61	TNM.. 2204..	6,500
S60Y MTFN R/L 22	60	57	28,5	600	75	43	80	TNM.. 2204..	12,600

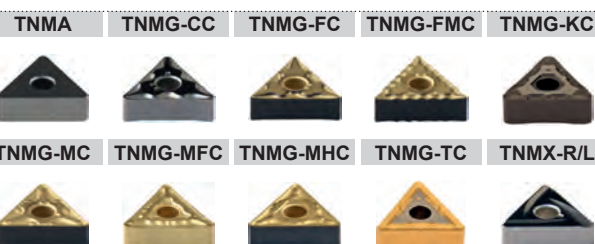
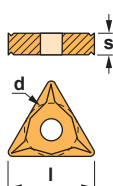
Reference Bezeichnung						Nm
S25T MTFN R/L 16	2014	5005	3414	1644	1813	4.0
S32U MTFN R/L 16	2014	5005	3414	1644	1393	4.0
S40V MTFN R/L 16	2014	5005	3414	1644	1393	4.0
S50W MTFN R/L 16	2014	5005	3414	1644	1393	4.0
S60Y MTFN R/L 16	2014	5005	3414	1644	1393	4.0
S40V MTFN R/L 22	2024	5005	ITSN-433	1661	1394	4.0
S50W MTFN R/L 22	2024	5005	ITSN-433	1661	1394	4.0
S60Y MTFN R/L 22	2024	5005	ITSN-433	1661	1394	4.0

TNM..

Triangular negative inserts.
Dreikantige negative WSP. A45-46

Reference / Bez.

	l	s	d
TNM.. 1604..	16,50	4,76	9,52
TNM.. 2204..	22,00	4,76	12,70

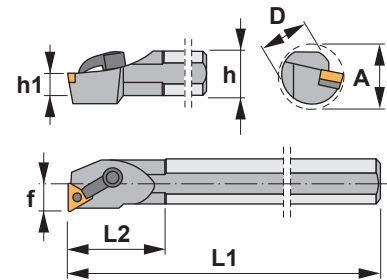


**Characteristics:**

Internal turning and profiling boring bar equipped with triangular negative double-sided insert.

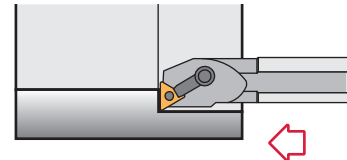
For low powered machines and small pieces choose boring bars Ref. CTFP (Page: A202) or STFC (Page: A225).

Axial -6°
Radial -11°

**Eigenschaften:**

Bohrstange zum Innen- und Profildrehen mit doppelseitigen dreikantigen negativen Wendeschneidplatten.

Für Niederleistungsmaschinen und kleine Werkstücke, wählen Sie Bohrstangen CTFP (Seite: A202) oder STFC (Seite: A225).



MTFN-K 90°

Reference Bezeichnung	D	h	h1	L1	L2	f	A	Insert size Wendeschneidplatte	Kg
S25T MTFN R/L 16-K	25	23	11,5	300	40	17	31	TNM.. 1604..	0,700
S32U MTFN R/L 16-K	32	30	15,0	350	45	22	39	TNM.. 1604..	2,050
S40V MTFN R/L 16-K	40	37	18,5	400	50	27	48	TNM.. 1604..	3,750

Reference Bezeichnung							Nm ¹	Nm ²
S25T MTFN R/L 16-K	2613	1086	5003	ITSN-322	1665	5002	3.0	1.4
S32U MTFN R/L 16-K	2613	1086	5003	ITSN-322	1665	5002	3.0	1.4
S40V MTFN R/L 16-K	2613	1086	5003	ITSN-322	1665	5002	3.0	1.4

TNM..

Triangular negative inserts.
Dreikantige negative WSP. A45-46

Reference / Bez.

l

s

d

TNM.. 1604..

16,50

4,76

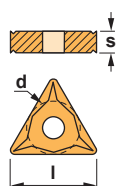
9,52

TNM.. 2204..

22,00

4,76

12,70



TNMA

TNMG-CC

TNMG-FC

TNMG-FMC

TNMG-KC



TNMG-MC

TNMG-MFC

TNMG-MHC

TNMG-TC

TNMX-R/L



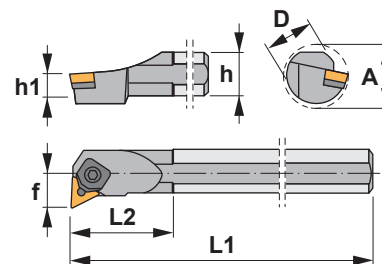


Characteristics:

Internal turning and profiling boring bar equipped with triangular negative double-sided insert.

For low powered machines and small pieces choose boring bars Ref. CTUP (Page: A203) or STUC (Page: A229).

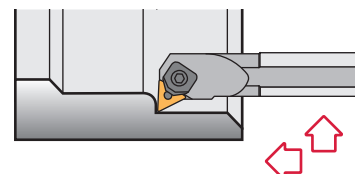
Axial -6°
Radial -11°



Eigenschaften:

Bohrstange zum Innen- und Profildrehen mit doppelseitigen dreikantigen negativen Wendeschneidplatten.

Für Niederleistungsmaschinen und kleine Werkstücke, wählen Sie Bohrstangen CTUP (Seite: A203) oder STUC (Seite: A229).



MTUN 93°

Reference Bezeichnung	D	h	h1	L1	L2	f	A	Insert size Wendeschneidplatte	Kg
S25T MTUN R/L 16	25	23	11,5	300	40	17	34	TNM.. 1604..	0,700
S32U MTUN R/L 16	32	30	15,0	350	45	22	39	TNM.. 1604..	2,050
S40V MTUN R/L 16	40	37	18,5	400	50	27	48	TNM.. 1604..	3,750
S50W MTUN R/L 16	50	47	23,5	450	60	35	61	TNM.. 1604..	6,500
S40V MTUN R/L 22	40	37	18,5	400	50	27	48	TNM.. 2204..	3,750
S50W MTUN R/L 22	50	47	23,5	450	60	35	61	TNM.. 2204..	6,500

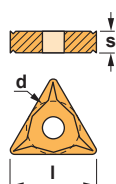
Reference Bezeichnung						Nm
S25T MTUN R/L 16	2014	5005	3414	1644	1813	4.0
S32U MTUN R/L 16	2014	5005	3414	1644	1393	4.0
S40V MTUN R/L 16	2014	5005	3414	1644	1393	4.0
S50W MTUN R/L 16	2014	5005	3414	1644	1393	4.0
S40V MTUN R/L 22	2024	5005	ITSN-433	1661	1394	4.0
S50W MTUN R/L 22	2024	5005	ITSN-433	1661	1394	4.0

TNM..

Triangular negative inserts.
Dreikantige negative WSP. **i** A45-46

Reference / Bez.

	l	s	d
TNM.. 1604..	16,50	4,76	9,52
TNM.. 2204..	22,00	4,76	12,70



TNMA



TNMG-CC



TNMG-FC



TNMG-FMC



TNMG-KC



TNMG-MC



TNMG-MFC



TNMG-MHC



TNMG-TC



TNMX-R/L

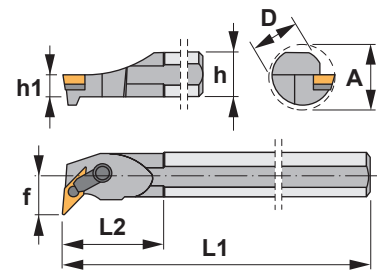


**Characteristics:**

Internal turning and profiling boring bar equipped with rhombic negative double-sided insert (angle 35°).

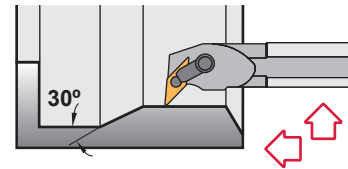
For low powered machines and small pieces choose boring bars Ref. SVUC (Page: A235).

Axial -5°
Radial -15°

**Eigenschaften:**

Bohrstange zum Innen- und Profildrehen mit doppelseitigen rhombischen negativen Wendeschneidplatten (35° Winkel).

Für Niederleistungsmaschinen und kleine Werkstücke, wählen Sie Bohrstangen SVUC (Seite: A235).



MVUN-K 93°

Reference Bezeichnung	D	h	h1	L1	L2	f	A	Insert size Wendeschneidplatte	Kg
S25T MVUN R/L 16-K	25	23	11,5	300	40	17	31	VN.. 1604..	0,700
S32U MVUN R/L 16-K	32	30	15,0	350	45	22	39	VN.. 1604..	2,050
S40V MVUN R/L 16-K	40	37	18,5	400	50	27	48	VN.. 1604..	3,750

Reference Bezeichnung								Nm ¹	Nm ²
S25T MVUN R/L 16-K	2614	1186	5003	IVSN-322	1665	5002		3.0	1.4
S32U MVUN R/L 16-K	2614	1086	5003	IVSN-322	1665	5002		3.0	1.4
S40V MVUN R/L 16-K	2614	1086	5003	IVSN-322	1665	5002		3.0	1.4

VN..

35° rhombic negative inserts.
35° rhombische negative Wendeschneidplatten. A49

Reference / Bez.

l

s

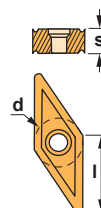
d

VN.. 1604..

16,50

4,76

9,52

**VNGP****VNMG****VNMG-TC**

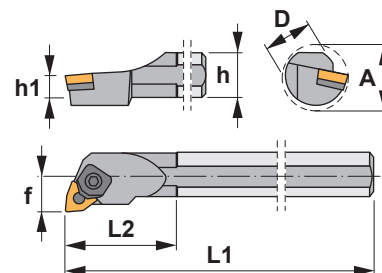


Characteristics:

Multipurpose boring bar equipped with trigon negative double-sided insert (angle 80°).

Not suitable for cermet, ceramic or K10, P10 grade inserts.

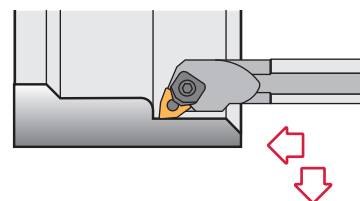
Axial -5°
Radial -11.5°



Eigenschaften:

Multifunktions-Bohrstange mit doppelseitigen negativen Trigon Wendeschneidplatten (80° Winkel).

Nicht geeignet für Cermet, Keramik oder K10 und P10 Wendeschneidplatten.



MWLN 95°

Reference Bezeichnung	D	h	h1	L1	L2	f	A	Insert size Wendeschneidplatte	kg
S20S MWLN R/L 06	20	18	9,0	250	35	13	27	WNM.. 0604..	0,550
S25T MWLN R/L 06	25	23	11,5	300	40	17	31	WNM.. 0604..	0,700
S32U MWLN R/L 06	32	30	15,0	350	45	22	39	WNM.. 0604..	2,050
S25T MWLN R/L 08	25	23	11,5	300	40	17	31	WNM.. 0804..	0,700
S32U MWLN R/L 08	32	30	15,0	350	45	22	39	WNM.. 0804..	2,050
S40V MWLN R/L 08	40	37	18,5	400	50	27	48	WNM.. 0804..	3,750
S50W MWLN R/L 08	50	47	23,5	450	60	35	61	WNM.. 0804..	6,500
S60Y MWLN R/L 08	60	57	28,5	600	75	43	80	WNM.. 0804..	12,600

Reference Bezeichnung						Nm
S20S MWLN R/L 06	2006	5025	-	1643	1813	2.0
S25T MWLN R/L 06	2006	5025	3006	1644	1813	2.0
S32U MWLN R/L 06	2006	5025	3006	1644	1813	2.0
S25T MWLN R/L 08	2011	5005	-	1647	1814	4.0
S32U MWLN R/L 08	2011	5005	IWSN-433	1661	1814	4.0
S40V MWLN R/L 08	2011	5005	IWSN-433	1661	1814	4.0
S50W MWLN R/L 08	2011	5005	IWSN-433	1661	1814	4.0
S60Y MWLN R/L 08	2011	5005	IWSN-433	1661	1814	4.0

WNMG

80° trigon negative inserts.
80° trigon negative Wendeschneidplatten.  A50-51

Reference / Bez.

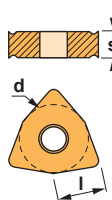
l

s

d

WNMG 0604.. 6,45 4,76 9,52

WNMG 0804.. 8,14 4,76 12,70



WNMG-FC

WNMG-FMC

WNMG-KC

WNMG-MFC



WNMG-MC

WNMG-MHC

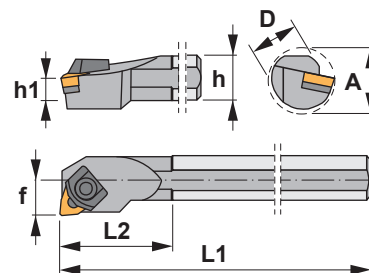
WNMG-TC



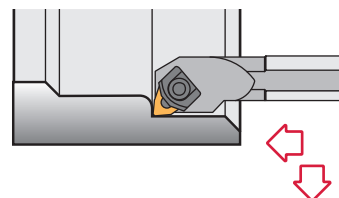
**Characteristics:**

Multipurpose boring bar equipped with trigon negative double-sided insert (angle 80°).
Especially recommended for cermet, ceramic or K10, P10 grade inserts.

Axial -5°
Radial -11.5°

**Eigenschaften:**

Multifunktions-Bohrstange mit doppelseitigen negativen Trigon Wendeschneidplatten (80° Winkel).
Besonders geeignet für Cermet, Keramik oder K10 und P10 Wendeschneidplatten.



MWLN-K 95°

Reference Bezeichnung	D	h	h1	L1	L2	f	A	Insert size Wendeschneidplatte	Kg
S25T MWLN R/L 08-K	25	23	11,5	300	40	17	31	WNMG 0804..	0,700
S32U MWLN R/L 08-K	32	30	15,0	350	45	22	39	WNMG 0804..	2,050
S40V MWLN R/L 08-K	40	37	18,5	400	50	27	48	WNMG 0804..	3,750
S50W MWLN R/L 08-K	50	47	23,5	450	60	35	61	WNMG 0804..	6,500

Reference Bezeichnung						Nm
S25T MWLN R/L 08-K	2018	-	1647	5025	1814	2.0
S32U MWLN R/L 08-K	2018	IWSN-433	1661	5025	1814	2.0
S40V MWLN R/L 08-K	2018	IWSN-433	1661	5025	1814	2.0
S50W MWLN R/L 08-K	2018	IWSN-433	1661	5025	1814	2.0

WNMG

80° trigon negative inserts. A50-51
80° trigon negative Wendeschneidplatten.

Reference / Bez.

l

s

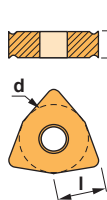
d

WNMG 0804..

8,14

4,76

12,70



WNMG-FC



WNMG-FMC



WNMG-KC



WNMG-MFC



WNMG-MC



WNMG-MHC



WNMG-TC



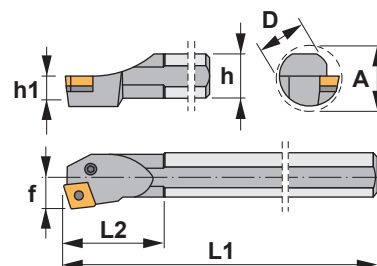


Characteristics:

Boring bar for internal turning applications equipped with rhombic negative inserts (angle 80°).

For general applications, roughing, semi-finishing and finishing.

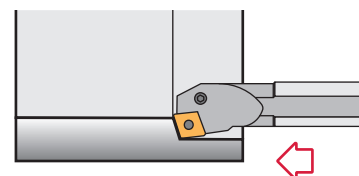
Axial -3°
Radial -11.5°



Eigenschaften:

Bohrstange zum Innendrehen mit rhombischen negativen Wendschneidplatten (80° Winkel).

Für allgemeine Anwendungen, Schruppen, Vorschlichten und Schlichten.



PCKN 75°

Reference Bezeichnung	D	h	h1	L1	L2	f	A	Insert size Wendschneidplatte	Kg
S25T PCKN R/L 12	25	23	11,5	300	40	17	31	CN.. 1204..	0,700
S32U PCKN R/L 12	32	30	15,0	350	45	22	39	CN.. 1204..	2,050
S40V PCKN R/L 12	40	37	18,5	400	50	27	48	CN.. 1204..	3,750
S50W PCKN R/L 12	50	47	23,5	450	60	35	61	CN.. 1204..	6,500
S60Y PCKN R/L 12	60	57	28,5	600	75	43	80	CN.. 1204..	12,600
S40V PCKN R/L 16	40	37	18,5	400	50	27	48	CN.. 1606..	3,750
S50W PCKN R/L 16	50	47	23,5	450	60	35	61	CN.. 1606..	6,500
S60Y PCKN R/L 16	60	57	28,5	600	75	43	80	CN.. 1606..	12,600
S50W PCKN R/L 19	50	47	23,5	450	60	35	61	CN.. 1906..	6,500
S60Y PCKN R/L 19	60	57	28,5	600	75	43	80	CN.. 1906..	12,600

Reference Bezeichnung							Nm
S25T PCKN R/L 12	8212	1626	5025	-	-	-	2.0
S32U PCKN R/L 12	8312	1648	5003	3612	4112	0012	3.0
S40V PCKN R/L 12	8012	1608	5003	3612	4112	0012	3.0
S50W PCKN R/L 12	8012	1608	5003	3612	4112	0012	3.0
S60Y PCKN R/L 12	8012	1608	5003	3612	4112	0012	3.0
S40V PCKN R/L 16	8016	1618	5003	3616	4115	0015	3.0
S50W PCKN R/L 16	8016	1618	5003	3616	4115	0015	3.0
S60Y PCKN R/L 16	8016	1618	5003	3616	4115	0015	3.0
S50W PCKN R/L 19	8219	1610	5004	3619	4119	0019	3.5
S60Y PCKN R/L 19	8219	1610	5004	3619	4119	0019	3.5

CN..

80° rhombic negative inserts.
80° rhombische negative WSP. A32-34

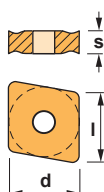
Reference / Bez.

l

s

d

CN.. 1204..	12,90	4,76	12,70
CN.. 1606..	16,10	6,35	15,88
CN.. 1906..	19,30	6,35	19,05



CNMG-CC

CNMG-FC

CNMG-FMC

CNMG-KC

CNMG-MC



CNMG-MFC

CNMG-MHC

CNMG-RC

CNMG-TC

CNMM

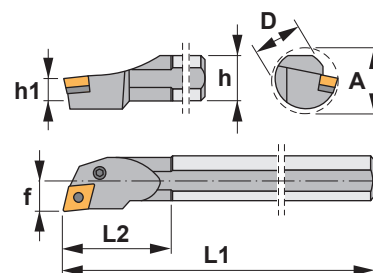


**Characteristics:**

Boring bar for internal turning applications equipped with rhombic negative inserts (angle 80°).

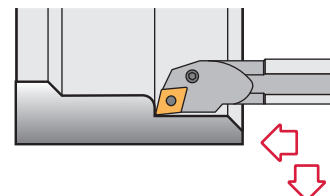
For low powered machines and small pieces choose boring bars Ref. SCLC (Page: A207).

Axial -5°
Radial -13.5°

**Eigenschaften:**

Bohrstange zum Innendrehen mit rhombischen negativen Wendeschneidplatten (80° Winkel).

Für Niederleistungsmaschinen und kleine Werkstücke, wählen Sie Bohrstangen SCLC (Seite: A207).

**PCLN 95°**

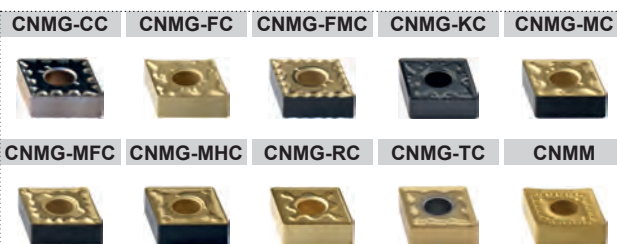
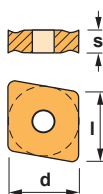
Reference Bezeichnung	D	h	h1	L1	L2	f	A	Insert size Wendeschneidplatte	Kg
S16R PCLN R/L 09	16	15	7,5	200	30	11	20	CN.. 0903..	0,300
S20S PCLN R/L 09	20	18	9,0	250	35	13	25	CN.. 0903..	0,550
S25T PCLN R/L 09	25	23	11,5	300	40	17	32	CN.. 0903..	0,700
S25T PCLN R/L 12	25	23	11,5	300	40	17	31	CN.. 1204..	0,700
S32U PCLN R/L 12	32	30	15,0	350	45	22	39	CN.. 1204..	2,050
S40V PCLN R/L 12	40	37	18,5	400	50	27	48	CN.. 1204..	3,750
S50W PCLN R/L 12	50	47	23,5	450	60	35	61	CN.. 1204..	6,500
S60Y PCLN R/L 12	60	57	28,5	600	75	43	80	CN.. 1204..	12,600
S40V PCLN R/L 16	40	37	18,5	400	50	27	48	CN.. 1606..	3,750
S50W PCLN R/L 16	50	47	23,5	450	60	35	61	CN.. 1606..	6,500
S60Y PCLN R/L 16	60	57	28,5	600	75	43	80	CN.. 1606..	12,600
S50W PCLN R/L 19	50	47	23,5	450	60	35	61	CN.. 1906..	6,500
S60Y PCLN R/L 19	60	57	28,5	600	75	43	80	CN.. 1906..	12,600

Reference Bezeichnung							Nm
S16R PCLN R/L 09	8005	1605	5002	-	-	-	1.4
S20S PCLN R/L 09	8005	1605	5002	-	-	-	1.4
S25T PCLN R/L 09	8009	1626	5025	3609	4109	0009	2.0
S25T PCLN R/L 12	8212	1626	5025	-	-	-	2.0
S32U PCLN R/L 12	8312	1648	5003	3612	4112	0012	3.0
S40V PCLN R/L 12	8012	1608	5003	3612	4112	0012	3.0
S50W PCLN R/L 12	8012	1608	5003	3612	4112	0012	3.0
S60Y PCLN R/L 12	8012	1608	5003	3612	4112	0012	3.0
S40V PCLN R/L 16	8016	1618	5003	3616	4115	0015	3.0
S50W PCLN R/L 16	8016	1618	5003	3616	4115	0015	3.0
S60Y PCLN R/L 16	8016	1618	5003	3616	4115	0015	3.0
S50W PCLN R/L 19	8219	1610	5004	3619	4129	0019	3.5
S60Y PCLN R/L 19	8219	1610	5004	3619	4129	0019	3.5

CN..

80° rhombic negative inserts.
80° rhombische negative WSP. A32-34

Reference / Bez.	l	s	d
CN.. 0903..	9,65	3,18	9,52
CN.. 1204..	12,90	4,76	12,70
CN.. 1606..	16,10	6,35	15,88
CN.. 1906..	19,30	6,35	19,05



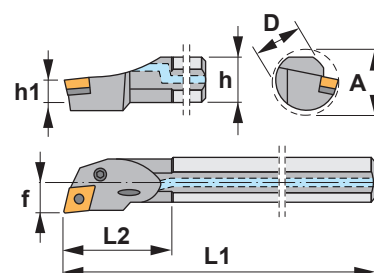


Characteristics:

Boring bar for internal turning applications equipped with rhombic negative inserts (angle 80°).

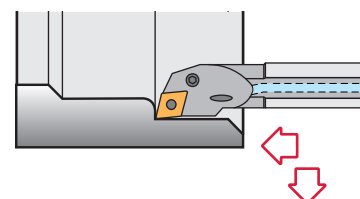
For low powered machines and small pieces choose boring bars Ref. A-SCLC (Page: A208).

Axial -5°
Radial -13.5°



Eigenschaften:

Bohrstange zum Innendrehen mit rhombischen negativen Wendeschneidplatten (80° Winkel). Für Niederleistungsmaschinen und kleine Werkstücke, wählen Sie Bohrstanen A-SCLC (Seite: A208).



A-PCLN 95°

Reference Bezeichnung	D	h	h1	L1	L2	f	A	Insert size Wendeschneidplatte	kg
A16M PCLN R/L 09	16	15	7,5	150	30	11	20	CN.. 0903..	0,200
A20Q PCLN R/L 09	20	18	9,0	180	35	13	25	CN.. 0903..	0,400
A25R PCLN R/L 12	25	23	11,5	200	40	17	31	CN.. 1204..	0,700
A32S PCLN R/L 12	32	30	15,0	250	45	22	39	CN.. 1204..	1,400
A40T PCLN R/L 12	40	37	18,5	300	50	27	48	CN.. 1204..	2,650

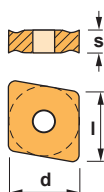
Reference Bezeichnung							Nm
A16M PCLN R/L 09	8005	1605	5002	-	-	-	1.4
A20Q PCLN R/L 09	8005	1605	5002	-	-	-	1.4
A25R PCLN R/L 12	8212	1626	5025	-	-	-	2.0
A32S PCLN R/L 12	8312	1648	5003	3612	4112	0012	3.0
A40T PCLN R/L 12	8012	1608	5003	3612	4112	0012	3.0

CN..

80° rhombic negative inserts.
80° rhombische negative WSP.  A32-34

Reference / Bez.

	l	s	d
CN.. 0903..	9,65	3,18	9,52
CN.. 1204..	12,90	4,76	12,70



CNMG-CC CNMG-FC CNMG-FMC CNMG-KC CNMG-MC



CNMG-MFC CNMG-MHC CNMG-RC CNMG-TC CNMM

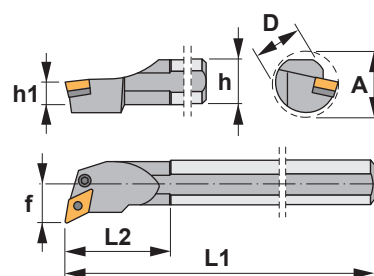


**Characteristics:**

Boring bar for internal turning and profiling applications equipped with rhombic negative inserts (angle 55°).

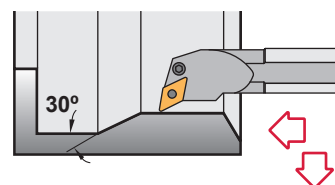
For low powered machines and small pieces choose boring bars Ref. SDUC (Page: A217).

Axial -6°
Radial -14°

**Eigenschaften:**

Bohrstange zum Innen- und Profildrehen mit rhombischen negativen Wendeschneidplatten (55° Winkel).

Für Niederleistungsmaschinen und kleine Werkstücke, wählen Sie Bohrstangen SDUC (Seite: A217).



PDUN 93°

Reference Bezeichnung	D	h	h1	L1	L2	f	A	Insert size Wendeschneidplatte	kg
S20S PDUN R/L 11	20	18	9,0	250	35	13	20	DN.. 1104..	0,550
S25T PDUN R/L 11	25	23	11,5	300	40	17	31	DN.. 1104..	0,700
S32U PDUN R/L 11	32	30	15,0	350	45	22	39	DN.. 1104..	2,050
S32U PDUN R/L 15	32	30	15,0	350	45	22	39	DN.. 1506..	2,050
S40V PDUN R/L 15	40	37	18,5	400	50	27	48	DN.. 1506..	3,750
S50W PDUN R/L 15	50	47	23,5	450	60	35	61	DN.. 1506..	6,500
S60Y PDUN R/L 15	60	57	28,5	600	75	43	80	DN.. 1506..	12,600

Reference Bezeichnung									Nm
S20S PDUN R/L 11	8216	1605	5002	-	-	-	-	-	1.4
S25T PDUN R/L 11	8009	1606	5025	3711	4109	0009	-	-	2.0
S32U PDUN R/L 11	8009	1606	5025	3711	4109	0009	-	-	2.0
S32U PDUN R/L 15	8415	1648	5003	3715	4112	0012	3725	4135	3.0
S40V PDUN R/L 15	8415	1638	5003	3715	4112	0012	3725	4135	3.0
S50W PDUN R/L 15	8415	1638	5003	3715	4112	0012	3725	4135	3.0
S60Y PDUN R/L 15	8415	1638	5003	3715	4112	0012	3725	4135	3.0

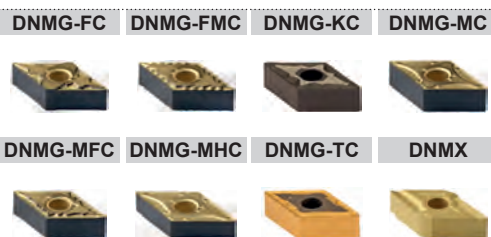
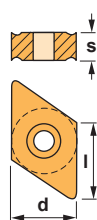
For DNM.. 1504.. inserts
Für Wendeschneidplatten DNM.. 1504..

DN..

55° rhombic negative inserts. A36-37
55° rhombische negative Wendeschneidplatten.

Reference / Bez.**l****s****d**

DN.. 1104..	11,60	4,76	9,52
DN.. 1504..	15,50	4,76	12,70
DN.. 1506..	15,50	6,35	12,70



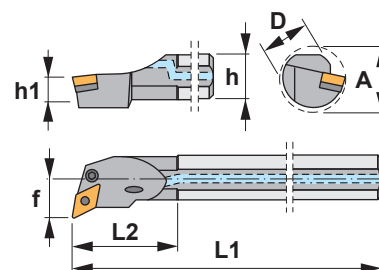


Characteristics:

Boring bar for internal turning and profiling applications equipped with rhombic negative inserts (angle 55°).

For low powered machines and small pieces choose boring bars Ref. A-SDUC (Page: A218).

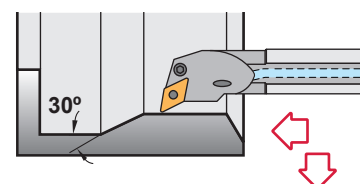
Axial -6°
Radial -14°



Eigenschaften:

Bohrstange zum Innen- und Profildrehen mit rhombischen negativen Wendeschneidplatten (55° Winkel).

Für Niederleistungsmaschinen und kleine Werkstücke, wählen Sie Bohrstangen A-SDUC (Seite: A218).



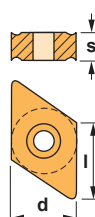
A-PDUN 93°

Reference Bezeichnung	D	h	h1	L1	L2	f	A	Insert size Wendeschneidplatte	kg
A25R PDUN R/L 11	25	23	11,5	200	40	17	31	DN.. 1104..	0,700
A32S PDUN R/L 15	32	30	15,0	250	45	22	39	DN.. 1506..	1,400
A40T PDUN R/L 15	40	37	18,5	300	50	27	48	DN.. 1506..	2,650

Reference Bezeichnung	8009	1606	5025	3711	4109	0009	3725	4135	Nm
A25R PDUN R/L 11	8009	1606	5025	3711	4109	0009	-	-	2.0
A32S PDUN R/L 15	8415	1648	5003	3715	4112	0012	3725	4135	3.0
A40T PDUN R/L 15	8415	1638	5003	3715	4112	0012	3725	4135	3.0

For DNM.. 1504.. inserts
Für Wendeschneidplatten DNM.. 1504..

Reference / Bez.	l	s	d
DN.. 1104..	11,60	4,76	9,52
DN.. 1504..	15,50	4,76	12,70
DN.. 1506..	15,50	6,35	12,70



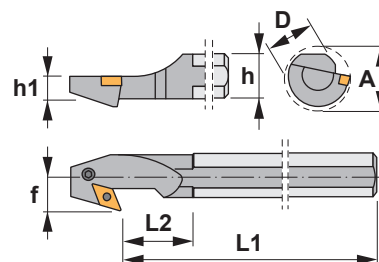
DNMG-FC	DNMG-FMC	DNMG-KC	DNMG-MC
DNMG-MFC	DNMG-MHC	DNMG-TC	DNMX

**Characteristics:**

Backwards boring bar for internal turning and profiling applications equipped with rhombic negative inserts (angle 55°).

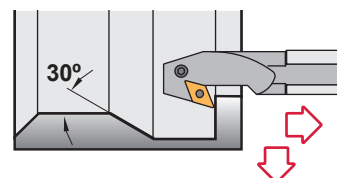
For low powered machines and small pieces choose boring bars Ref. SDUC-EX (Page: A221).

Axial -6°
Radial -14°

**Eigenschaften:**

Rückwärts-Bohrstange zum Innen- und Profildrehen mit rhombischen negativen Wendeschneidplatten (55° Winkel).

Für Niederleistungsmaschinen und kleine Werkstücke, wählen Sie Bohrstan- gen SDUC-EX (Seite: A221).



PDUN 93°-EX

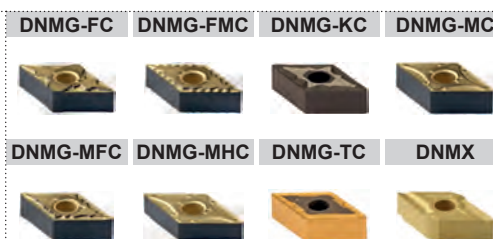
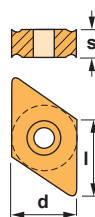
Reference Bezeichnung	D	h	h1	L1	L2	f	A	Insert size Wendeschneidplatte	kg
S32U PDUN R/L 15-EX	32	30	15,0	350	50	22	39	DN.. 1506..	2,050
S40V PDUN R/L 15-EX	40	37	18,5	400	60	27	48	DN.. 1506..	3,750
S50W PDUN R/L 15-EX	50	47	23,5	450	65	35	61	DN.. 1506..	6,500

Reference Bezeichnung									Nm
S32U PDUN R/L 15-EX	8415	1648	5003	-	-	-	-	-	3.0
S40V PDUN R/L 15-EX	8415	1638	5003	3715	4112	0012	3725	4135	3.0
S50W PDUN R/L 15-EX	8415	1638	5003	3715	4112	0012	3725	4135	3.0

For DNM.. 1504.. inserts
Für Wendeschneidplatten DNM.. 1504..

DN.. 55° rhombic negative inserts. A36-37
55° rhombische negative Wendeschneidplatten.

Reference / Bez.	l	s	d
DN.. 1504..	15,50	4,76	12,70
DN.. 1506..	15,50	6,35	12,70



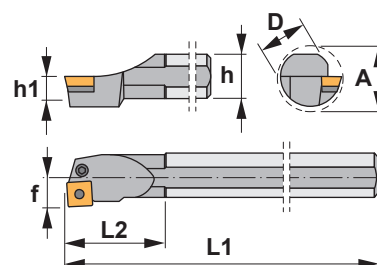


Characteristics:

Boring bar for internal turning applications equipped with square negative inserts.

For low powered machines and small pieces choose boring bars Ref. CSKP (Page: A201) or SSKC (Page: A223).

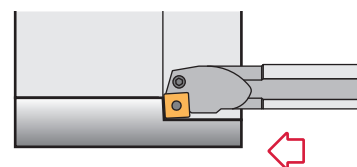
Axial -3°
Radial -11°



Eigenschaften:

Bohrstange zum Innendrehen mit vierkantigen negativen Wendeschneidplatten.

Für Niederleistungsmaschinen und kleine Werkstücke, wählen Sie Bohrstanen CSKP (Seite: A201) oder SSKC (Seite: A223).



PSKN 75°

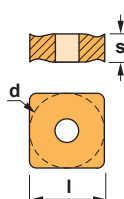
Reference Bezeichnung	D	h	h1	L1	L2	f	A	Insert size Wendeschneidplatte	Kg
S25T PSKN R/L 12	25	23	11,5	300	40	17	31	SNM.. 1204..	0,700
S32U PSKN R/L 12	32	30	15,0	350	45	22	39	SNM.. 1204..	2,050
S40V PSKN R/L 12	40	37	18,5	400	50	27	48	SNM.. 1204..	3,750
S40V PSKN R/L 15	40	37	18,5	400	50	27	48	SNM.. 1506..	3,750
S50W PSKN R/L 15	50	47	23,5	450	60	35	61	SNM.. 1506..	6,500
S50W PSKN R/L 19	50	47	23,5	450	60	35	61	SNM.. 1906..	6,500
S60Y PSKN R/L 19	60	57	28,5	600	75	43	80	SNM.. 1906..	12,600

Reference Bezeichnung							Nm
S25T PSKN R/L 12	8212	1626	5025	-	-	-	2.0
S32U PSKN R/L 12	8312	1648	5003	3512	4112	0012	3.0
S40V PSKN R/L 12	8012	1608	5003	3512	4112	0012	3.0
S40V PSKN R/L 15	8012	1608	5003	3512	4112	0012	3.0
S50W PSKN R/L 15	8016	1618	5003	3515	4115	0015	3.0
S50W PSKN R/L 19	8219	1710	5004	3519	4129	0019	3.5
S60Y PSKN R/L 19	8219	1710	5004	3519	4129	0019	3.5

SNM..

Square negative inserts.
Vierkantige negative Wendeschneidplatten. A41-42

Reference / Bez.	l	s	d
SNM.. 1204..	12,70	4,76	12,70
SNM.. 1506..	15,88	6,35	15,88
SNM.. 1906..	19,05	6,35	19,05



SNMG-FMC



SNMG-KC



SNMG-MHC



SNMG-RC



SNMG-TC



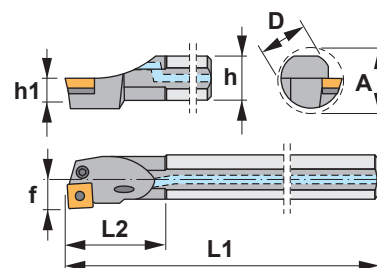
SNMM



**Characteristics:**

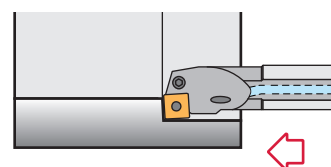
Boring bar for internal turning applications equipped with square negative inserts. For low powered machines and small pieces choose boring bars Ref. CSKP (Page: A201) or SSKC (Page: A223).

Axial -3°
Radial -11°

**Eigenschaften:**

Bohrstange zum Innendrehen mit vierkantigen negativen Wendeschneidplatten.

Für Niederleistungsmaschinen und kleine Werkstücke, wählen Sie Bohrstangen CSKP (Seite: A201) oder SSKC (Seite: A223).



A-PSKN 75°

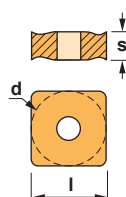
Reference Bezeichnung	D	h	h1	L1	L2	f	A	Insert size Wendeschneidplatte	Kg
A25R PSKN R/L 12	25	23	11,5	200	40	17	31	SNM.. 1204..	0,700
A32S PSKN R/L 12	32	30	15,0	250	45	22	39	SNM.. 1204..	1,400
A40T PSKN R/L 12	40	37	18,5	300	50	27	48	SNM.. 1204..	2,650

Reference Bezeichnung							Nm
A25R PSKN R/L 12	8212	1626	5025	-	-	-	2.0
A32S PSKN R/L 12	8312	1648	5003	3512	4112	0012	3.0
A40T PSKN R/L 12	8012	1608	5003	3512	4112	0012	3.0

SNM..

Square negative inserts.
Vierkantige negative Wendeschneidplatten. A41-42

Reference / Bez.	l	s	d
SNM.. 1204..	12,70	4,76	12,70

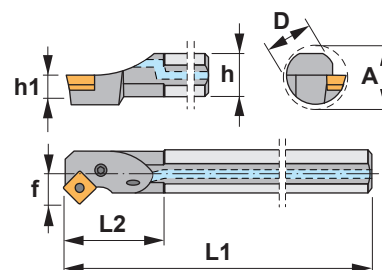
**SNMG-FMC****SNMG-KC****SNMG-MHC****SNMG-RC****SNMG-TC****SNMM**



Characteristics:

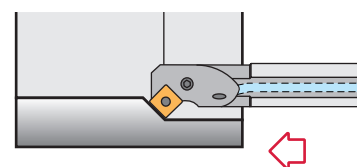
Boring bar for internal turning applications equipped with square negative inserts. For low powered machines and small pieces choose boring bars Ref. A-SSSC (Page: A224).

Axial -3°
Radial -11°



Eigenschaften:

Bohrstange zum Innendrehen mit vierkantigen negativen Wendeschneidplatten. Für Niederleistungsmaschinen und kleine Werkstücke, wählen Sie Bohrstangen A-SSSC (Seite: A224).



A-PSSN 45°

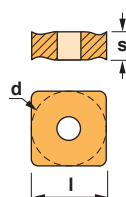
Reference Bezeichnung	D	h	h1	L1	L2	f	A	Insert size Wendeschneidplatte	Kg
A25R PSSN R/L 12	25	23	11,5	200	40	17	31	SNM.. 1204..	0,700
A32S PSSN R/L 12	32	30	15,0	250	45	22	39	SNM.. 1204..	2,050

Reference Bezeichnung							Nm
A25R PSSN R/L 12	8212	1626	5025	-	-	-	2.0
A32S PSSN R/L 12	8312	1648	5003	3512	4112	0012	3.0

SNM..

Square negative inserts. A41-42
Vierkantige negative Wendeschneidplatten.

Reference / Bez.	l	s	d
SNM.. 1204..	12,70	4,76	12,70



SNMG-FMC SNMG-KC SNMG-MHC



SNMG-RC

SNMG-TC

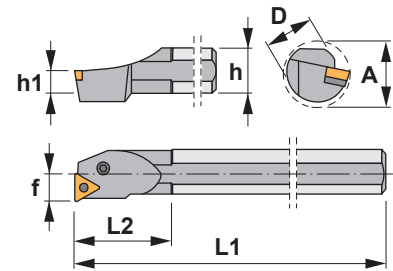
SNMM



**Characteristics:**

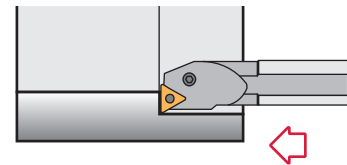
Boring bar for internal turning applications equipped with triangular negative inserts.
For low powered machines and small pieces choose boring bars Ref. CTFP (Page: A202) or STFC (Page: A225).

Axial -6°
Radial -11°

**Eigenschaften:**

Bohrstange zum Innendrehen mit dreikantigen negativen Wendeschneidplatten.

Für Niederleistungsmaschinen und kleine Werkstücke, wählen Sie Bohrstangen CTFP (Seite: A202) oder STFC (Seite: A225).



PTFN 90°

Reference Bezeichnung	D	h	h1	L1	L2	f	A	Insert size Wendeschneidplatte	 Kg
S25T PTFN R/L 16	25	23	11,5	300	40	17	31	TNM.. 1604..	0,700
S32U PTFN R/L 16	32	30	15,0	350	45	22	39	TNM.. 1604..	2,050
S40V PTFN R/L 16	40	37	18,5	400	50	27	48	TNM.. 1604..	3,750
S50W PTFN R/L 16	50	47	23,5	450	60	35	61	TNM.. 1604..	6,500
S40V PTFN R/L 22	40	37	18,5	400	50	27	48	TNM.. 2204..	3,750
S50W PTFN R/L 22	50	47	23,5	450	60	35	61	TNM.. 2204..	6,500

Reference Bezeichnung							Nm
S25T PTFN R/L 16	8216	1605	5002	-	-	-	1.4
S32U PTFN R/L 16	8009	1606	5025	3416	4109	0009	2.0
S40V PTFN R/L 16	8009	1606	5025	3416	4109	0009	2.0
S50W PTFN R/L 16	8009	1606	5025	3416	4109	0009	2.0
S40V PTFN R/L 22	8012	1608	5003	3422	4112	0012	3.0
S50W PTFN R/L 22	8012	1608	5003	3422	4112	0012	3.0

TNM..

Triangular negative inserts.
Dreikantige negative WSP.  A45-46

Reference / Bez.

l

s

d

TNM.. 1604..

16,50

4,76

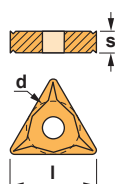
9,52

TNM.. 2204..

22,00

4,76

12,70



TNMA

TNMG-CC

TNMG-FC

TNMG-FMC

TNMG-KC

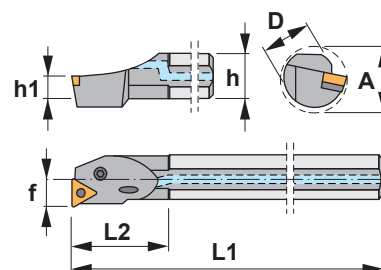




Characteristics:

Boring bar for internal turning applications equipped with triangular negative inserts. For low powered machines and small pieces choose boring bars Ref. CTFP (Page: A202) or A-STFC (Page: A226).

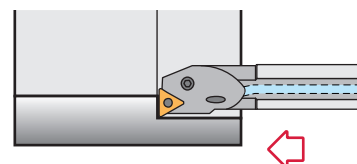
Axial -6°
Radial -11°



Eigenschaften:

Bohrstange zum Innendrehen mit dreikantigen negativen Wendeschneidplatten.

Für Niederleistungsmaschinen und kleine Werkstücke, wählen Sie Bohrstangen CTFP (Seite: A202) oder A-STFC (Seite: A226).



A-PTFN 90°



Reference Bezeichnung	D	h	h1	L1	L2	f	A	Insert size Wendeschneidplatte	kg
A25R PTFN R/L 16	25	23	11,5	200	40	17	31	TNM.. 1604..	0,700
A32S PTFN R/L 16	32	30	15,0	250	45	22	39	TNM.. 1604..	1,400
A40T PTFN R/L 22	40	37	18,5	300	50	27	48	TNM.. 2204..	2,650

Reference Bezeichnung							Nm
A25R PTFN R/L 16	8216	1605	5002	-	-	-	1.4
A32S PTFN R/L 16	8009	1606	5025	3416	4109	0009	2.0
A40T PTFN R/L 22	8012	1608	5003	3422	4112	0012	3.0

TNM..

Triangular negative inserts.
Dreikantige negative WSP.  A45-46

Reference / Bez.

l

s

d

TNM.. 1604..

16,50

4,76

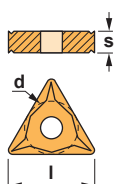
9,52

TNM.. 2204..

22,00

4,76

12,70



TNMA

TNMG-CC

TNMG-FC

TNMG-FMC

TNMG-KC

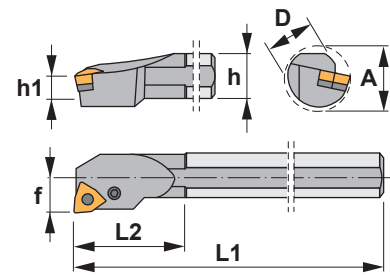


**Characteristics:**

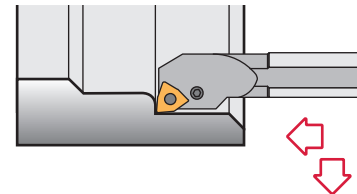
Boring bar for internal turning applications equipped with trigon negative inserts (angle 80°).

For general applications, roughing, semi-finishing and finishing.

Axial -6°
Radial -13.5°

**Eigenschaften:**

Bohrstangen zum Innendrehen mit negativen Trigon Wendeschneidplatten (80° Winkel). Für allgemeine Anwendungen, Schruppen, Vorschlichten und Schlichten.



PWLN 95°

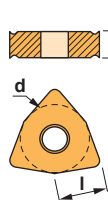
Reference Bezeichnung	D	h	h1	L1	L2	f	A	Insert size Wendeschneidplatte	Kg
S16R PWLN R/L 06	16	15	7,5	200	30	11	20	WNM.. 0604..	0,300
S20S PWLN R/L 06	20	18	9,0	250	35	13	27	WNM.. 0604..	0,550
S25T PWLN R/L 06	25	23	11,5	300	40	17	31	WNM.. 0604..	0,700
S25T PWLN R/L 08	25	23	11,5	300	40	17	31	WNM.. 0804..	0,700
S32U PWLN R/L 08	32	30	15,0	350	45	22	39	WNM.. 0804..	2,050
S40V PWLN R/L 08	40	37	18,5	400	50	27	48	WNM.. 0804..	3,750

Reference Bezeichnung							Nm
S16R PWLN R/L 06	8216	1605	5002	-	-	-	1.4
S20S PWLN R/L 06	8216	1605	5002	-	-	-	1.4
S25T PWLN R/L 06	8009	1606	5025	3007	4109	0009	2.0
S25T PWLN R/L 08	8212	1626	5025	-	-	-	2.0
S32U PWLN R/L 08	8012	1608	5003	3008	4112	0012	3.0
S40V PWLN R/L 08	8012	1608	5003	3008	4112	0012	3.0

WNMG

80° trigon negative inserts.
80° trigon negative Wendeschneidplatten. A50-51

Reference / Bez.	l	s	d
WNMG 0604..	6,45	4,76	9,52
WNMG 0804..	8,14	4,76	12,70



WNMG-FC	WNMG-FMC	WNMG-KC	WNMG-MFC
WNMG-MC	WNMG-MHC	WNMG-TC	

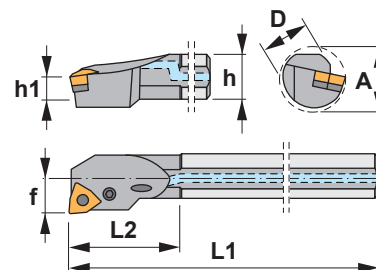


Characteristics:

Boring bar for internal turning applications equipped with trigon negative inserts (angle 80°).

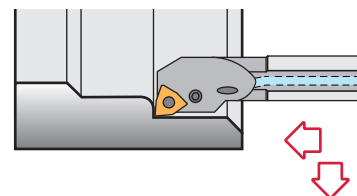
For general applications, roughing, semi-finishing and finishing.

Axial -6°
Radial -13.5°



Eigenschaften:

Bohrstangen zum Innendrehen mit negativen Trigon Wendeschneidplatten (80° Winkel). Für allgemeine Anwendungen, Schruppen, Vorschlichten und Schlichten.



A-PWLN 95°

Reference Bezeichnung	D	h	h1	L1	L2	f	A	Insert size Wendeschneidplatte	Kg
A16M PWLN R/L 06	16	15	7,5	150	30	11	20	WNM.. 0604..	0,200
A20Q PWLN R/L 06	20	18	9,0	180	35	13	27	WNM.. 0604..	0,400
A25R PWLN R/L 06	25	23	11,5	200	40	17	31	WNM.. 0604..	0,700
A32S PWLN R/L 06	32	30	15,0	250	45	22	39	WNM.. 0604..	1,400
A25R PWLN R/L 08	25	23	11,5	200	40	17	31	WNM.. 0804..	0,700
A32S PWLN R/L 08	32	30	15,0	250	45	22	39	WNM.. 0804..	1,400
A40T PWLN R/L 08	40	37	18,5	300	50	27	48	WNM.. 0804..	2,650

Reference Bezeichnung							Nm
A16M PWLN R/L 06	8216	1605	5002	-	-	-	1.4
A20Q PWLN R/L 06	8216	1605	5002	-	-	-	1.4
A25R PWLN R/L 06	8009	1606	5025	3007	4109	0009	2.0
A32S PWLN R/L 06	8009	1606	5025	3007	4109	0009	2.0
A25R PWLN R/L 08	8212	1626	5025	-	-	-	2.0
A32S PWLN R/L 08	8012	1608	5003	3008	4112	0012	3.0
A40T PWLN R/L 08	8012	1608	5003	3008	4112	0012	3.0

WNMG

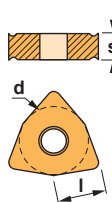
80° trigon negative inserts.
80° trigon negative Wendeschneidplatten.  A50-51

Reference / Bez.

l s d

WNMG 0604.. 6,45 4,76 9,52

WNMG 0804.. 8,14 4,76 12,70



WNMG-FC



WNMG-FMC



WNMG-KC



WNMG-MFC



WNMG-MC



WNMG-MHC



WNMG-TC

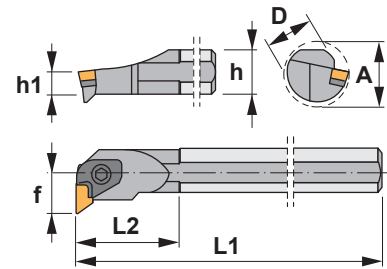


**Characteristics:**

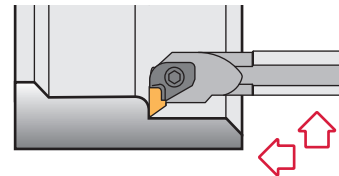
Boring bar for internal turning and profiling operations equipped with KNUX negative insert.

For semi-finishing and finishing operations.

Axial -6°
Radial -10°

**Eigenschaften:**

Bohrstange zum Innen- und Profildrehen mit negativen KNUX Wendeschneidplatten.
Zum Vorschlichten und Schlichten.



CKUN 93°

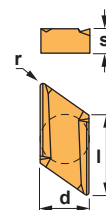
Reference Bezeichnung	D	h	h1	L1	L2	f	A	Insert size Wendeschneidplatte	Kg
S25T CKUN R/L 16	25	23	11,5	300	40	20,5	37	KNUX 1604..	0,700
S32U CKUN R/L 16	32	30	15,0	350	45	22,0	39	KNUX 1604..	2,050
S40V CKUN R/L 16	40	37	18,5	400	50	27,0	48	KNUX 1604..	3,750
S50W CKUN R/L 16	50	47	23,5	450	60	35,0	61	KNUX 1604..	6,500

Reference Bezeichnung								Nm
S25T CKUN L 16	2316	1614	5004	4295	4201	-	-	3.5
S32U CKUN L 16	2316	1614	5004	4295	4202	3226	4012	3.5
S40V CKUN L 16	2316	1614	5004	4295	4204	3226	4012	3.5
S50W CKUN L 16	2316	1614	5004	4295	4204	3226	4012	3.5
S25T CKUN R 16	2326	1614	5004	4295	4201	-	-	3.5
S32U CKUN R 16	2326	1614	5004	4295	4202	3236	4012	3.5
S40V CKUN R 16	2326	1614	5004	4295	4204	3236	4012	3.5
S50W CKUN R 16	2326	1614	5004	4295	4204	3236	4012	3.5

KNUX

KNUX negative insert.
KNUX negative Wendeschneidplatte. A38

Reference / Bezeichnung	l	s	d
KNUX 1604..	16,00	4,76	9,52

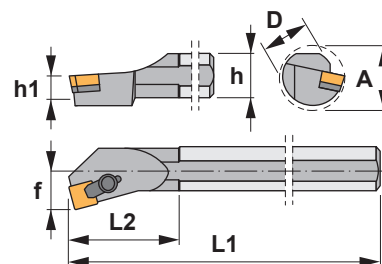
**KNUX**



Characteristics:

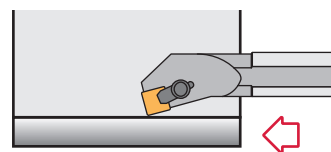
Boring bar for internal turning applications equipped with square positive inserts.
For interrupted cut choose boring bars Ref. PSKN (Page: A193).

Axial 6.5°
Radial -1.25°



Eigenschaften:

Bohrstange zum Innendrehen mit vierkantigen positiven Wendeschneidplatten.
Für unterbrochenen Schnitt wählen Sie Bohrstanen PSKN (Seite: A193).



CSKP 75°

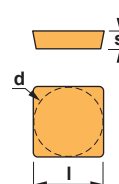
Reference Bezeichnung	D	h	h1	L1	L2	f	A	Insert size Wendeschneidplatte	
S16R CSKP R/L 09	16	15	7,5	200	30	11	20	SP.. 0903..	0,300
S20S CSKP R/L 09	20	18	9,0	250	35	13	24	SP.. 0903..	0,550
S25T CSKP R/L 12	25	23	11,5	300	40	17	31	SP.. 1203..	1,050
S32U CSKP R/L 12	32	30	15,0	350	45	22	39	SP.. 1203..	2,050
S40V CSKP R/L 12	40	37	18,5	400	50	27	48	SP.. 1203..	3,750
S50W CSKP R/L 12	50	47	23,5	450	60	35	61	SP.. 1203..	6,500
S50W CSKP R/L 19	50	47	23,5	450	60	35	61	SP.. 1904..	6,500

Reference Bezeichnung					Nm
S16R CSKP R/L 09	2107	5025	-	-	2.0
S20S CSKP R/L 09	2107	5025	-	-	2.0
S25T CSKP R/L 12	2109	5003	-	-	3.0
S32U CSKP R/L 12	2209	5003	3112	4002	3.0
S40V CSKP R/L 12	2209	5003	3112	4002	3.0
S50W CSKP R/L 12	2209	5003	3112	4002	3.0
S50W CSKP R/L 19	2211	5004	3119	4012	3.5

SP..

Square positive inserts with 11° clearance.
Vierkantige positive Wendeschneidplatten mit 11° Freiwinkel.  A43

Reference / Bezeichnung	l	s	d
SP.. 0903..	9,52	3,18	9,52
SP.. 1203..	12,70	3,18	12,70
SP.. 1904..	19,05	4,76	19,05

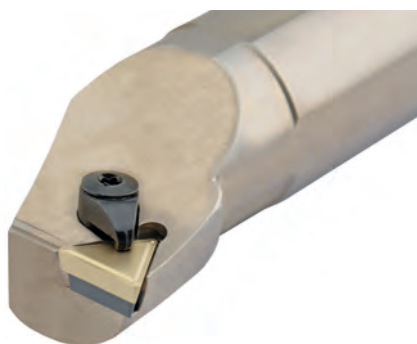


SPMR



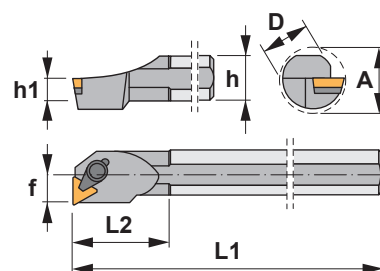
SPUN



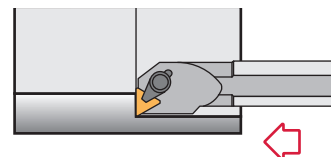
**Characteristics:**

Boring bar for internal turning applications equipped with triangular positive inserts. For interrupted cut choose boring bars Ref. MTFN (Page: A181) or PTFN (Page: A196).

Axial 6°
Radial 0°

**Eigenschaften:**

Bohrstange zum Innendrehen mit dreikantigen positiven Wendeschneidplatten. Für unterbrochenen Schnitt wählen Sie Bohrstanzen MTFN (Seite: A181) oder PTFN (Seite: A196).

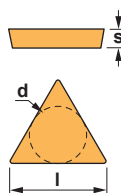
**CTFP 90°**

Reference Bezeichnung	D	h	h1	L1	L2	f	A	Insert size Wendeschneidplatte	Kg
S10M CTFP R/L 09	10	9	4,5	150	22	7	13	TP.. 0902..	0,060
S12M CTFP R/L 09	12	11	5,5	150	25	9	16	TP.. 0902..	0,150
S12M CTFP R/L 11	12	11	5,5	150	25	9	16	TP.. 1103..	0,150
S16R CTFP R/L 11	16	15	7,5	200	30	11	20	TP.. 1103..	0,300
S20S CTFP R/L 11	20	18	9,0	250	35	13	24	TP.. 1103..	0,550
S16R CTFP R/L 16	16	15	7,5	200	30	11	20	TP.. 1603..	0,300
S20S CTFP R/L 16	20	18	9,0	250	35	13	24	TP.. 1603..	0,550
S25T CTFP R/L 16	25	23	11,5	300	40	17	31	TP.. 1603..	0,700
S32U CTFP R/L 16	32	30	15,0	350	45	22	39	TP.. 1603..	2,050
S40V CTFP R/L 16	40	37	18,5	400	50	27	48	TP.. 1603..	3,750
S50W CTFP R/L 16	50	47	23,5	450	60	35	61	TP.. 1603..	6,500
S40V CTFP R/L 22	40	37	18,5	400	50	27	48	TP.. 2204..	3,750
S50W CTFP R/L 22	50	47	23,5	450	60	35	61	TP.. 2204..	6,500

Reference Bezeichnung						Nm
S10M CTFP R/L 09	2000	5015	-	-	-	0.6
S12M CTFP R/L 09	2000	5015	-	-	-	0.6
S12M CTFP R/L 11	2304	5025	-	-	-	2.0
S16R CTFP R/L 11	2107	5025	-	-	-	2.0
S20S CTFP R/L 11	2107	5025	-	-	-	2.0
S16R CTFP R/L 16	2119	5003	-	-	-	3.0
S20S CTFP R/L 16	2119	5003	-	-	-	3.0
S25T CTFP R/L 16	2109	5003	-	-	-	3.0
S32U CTFP R/L 16	2209	5003	3116	4002	-	3.0
S40V CTFP R/L 16	2209	5003	3116	4002	-	3.0
S50W CTFP R/L 16	2209	5003	3116	4002	-	3.0
S40V CTFP R/L 22	2211	5004	3122	4012	-	3.5
S50W CTFP R/L 22	2211	5004	3122	4012	-	3.5

TP.. Triangular positive inserts with 11° clearance. Dreikantige positive Wendeschneidplatten mit 11° Freiwinkel. A47

Reference / Bez.	l	s	d
TP.. 0902..	9,62	2,38	5,55
TP.. 1103..	11,00	3,18	6,35
TP.. 1603..	16,50	3,18	9,52
TP.. 2204..	22,00	4,76	12,70

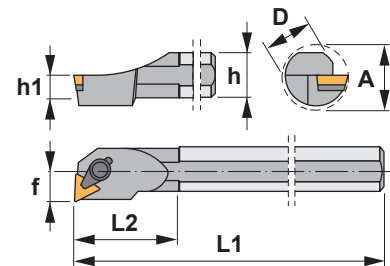
**TPMN****TPMR****TPUN****TPUX-R****TPUX-L**



Characteristics:

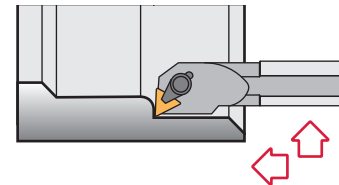
Boring bar for internal turning applications equipped with triangular positive inserts. For interrupted cut choose boring bars Ref. MTUN (Page: A183).

Axial 0°
Radial -6°



Eigenschaften:

Bohrstange zum Innendreien mit dreikantigen positiven Wendeschneidplatten. Für unterbrochenen Schnitt wählen Sie Bohrstanen MTUN (Seite: A183).



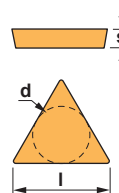
CTUP 93°

Reference Bezeichnung	D	h	h1	L1	L2	f	A	Insert size Wendeschneidplatte	kg
S10M CTUP R/L 09	10	9	4,5	150	22	7	13	TP.. 0902..	0,060
S12M CTUP R/L 09	12	11	5,5	150	25	9	16	TP.. 0902..	0,150
S12M CTUP R/L 11	12	11	5,5	150	25	9	16	TP.. 1103..	0,150
S16R CTUP R/L 11	16	15	7,5	200	30	11	20	TP.. 1103..	0,300
S20S CTUP R/L 11	20	18	9,0	250	35	13	24	TP.. 1103..	0,550
S16R CTUP R/L 16	16	15	7,5	200	30	11	20	TP.. 1603..	0,300
S20S CTUP R/L 16	20	18	9,0	250	35	13	24	TP.. 1603..	0,550
S25T CTUP R/L 16	25	23	11,5	300	40	17	31	TP.. 1603..	0,700
S32U CTUP R/L 16	32	30	15,0	350	45	22	39	TP.. 1603..	2,050
S40V CTUP R/L 16	40	37	18,5	400	50	27	48	TP.. 1603..	3,750
S50W CTUP R/L 16	50	47	23,5	450	60	35	61	TP.. 1603..	6,500
S40V CTUP R/L 22	40	37	18,5	400	50	27	48	TP.. 2204..	3,750
S50W CTUP R/L 22	50	47	23,5	450	60	35	61	TP.. 2204..	6,500

Reference Bezeichnung					Nm
S10M CTUP R/L 09	2000	5015	-	-	0.6
S12M CTUP R/L 09	2000	5015	-	-	0.6
S12M CTUP R/L 11	2304	5025	-	-	2.0
S16R CTUP R/L 11	2107	5025	-	-	2.0
S20S CTUP R/L 11	2107	5025	-	-	2.0
S16R CTUP R/L 16	2119	5003	-	-	3.0
S20S CTUP R/L 16	2119	5003	-	-	3.0
S25T CTUP R/L 16	2109	5003	-	-	3.0
S32U CTUP R/L 16	2209	5003	3116	4002	3.0
S40V CTUP R/L 16	2209	5003	3116	4002	3.0
S50W CTUP R/L 16	2209	5003	3116	4002	3.0
S40V CTUP R/L 22	2211	5004	3122	4012	3.5
S50W CTUP R/L 22	2211	5004	3122	4012	3.5

TP.. Triangular positive inserts with 11° clearance. Dreikantige positive Wendeschneidplatten mit 11° Freiwinkel. A47

Reference / Bez.	l	s	d
TP.. 0902..	9,62	2,38	5,55
TP.. 1103..	11,00	3,18	6,35
TP.. 1603..	16,50	3,18	9,52
TP.. 2204..	22,00	4,76	12,70



TPMN

TPMR

TPUN



TPUX-R

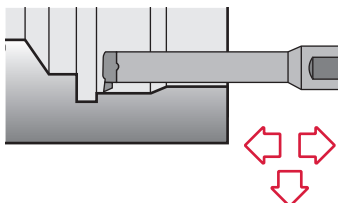
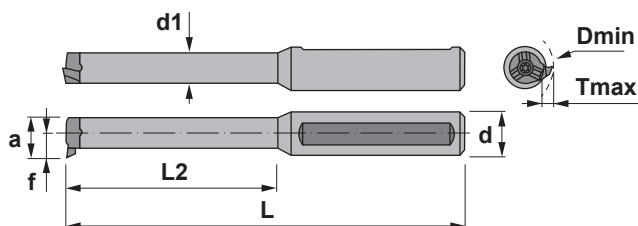
TPUX-L





Characteristics: Multipurpose boring bar for grooving, threading and turning.
For smaller diameters from 8 mm.

Eigenschaften: Multifunktions-Bohrstange zum Stechen, Gewindedrehen und Drehen.
Für kleinere Durchmesser ab 8 mm.



608.00

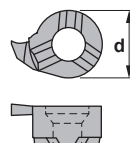
Reference Bezeichnung	Dmin	d	d1	L	L2	a	f	Tmax	Insert size Wendeschneidplatte	kg
608.0012.2 HM	8	12	6	90	30	7,8	4,8	1,0	R/LS08	0,090
611.0012.2 HM	11	12	8	110	42	10,7	6,7	2,3	R/LS11	0,090
614.0012.2 HM	14	12	11	110	45	13,8	9,0	4,0	R/LS14	0,130
616.0012.2 HM	16	12	11	130	56	15,7	10,2	4,3	R/LS16	0,265

Reference Bezeichnung			Nm
608.0012.2 HM	1226	5508	1.2
611.0012.2 HM	1535	5510	2.0
614.0012.2 HM	1244	5515	3.0
616.0012.2 HM	1255	5520	4.0

R/LS..

B11-15

Reference / Bez.	d
R/LS.. 08..	6,0
R/LS.. 11..	8,0
R/LS.. 14..	9,0
R/LS.. 16..	11,0



R/LS



Insert for turning
WSP zum Drehen

R/LS



Insert for grooving with radius
WSP zum Vollradius-Stechen

R/LS



Insert for threading
WSP zum Gewindedrehen

R/LS



Insert for grooving
WSP zum Stechen

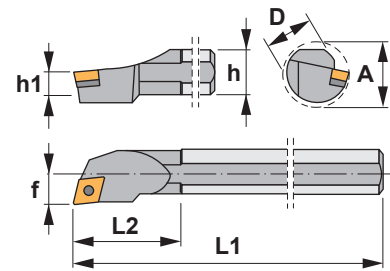


Characteristics:

Multipurpose boring bar equipped with rhombic positive insert (angle 80°).

For boring bars with negative inserts see Ref. MCLN-K (Page: A178) or PCLN (Page: A188).

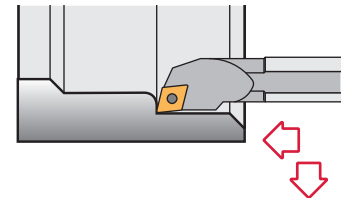
Axial 0°
Radial -6°



Eigenschaften:

Multifunktions-Bohrstange mit rhombischen positiven Wendeschneidplatten (80° Winkel).

Für Bohrstanen mit negativen Wendeschneidplatten siehe MCLN-K (Seite: A178) oder PCLN (Seite: A188).



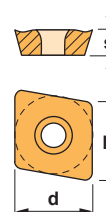
SCLC 95°

Reference Bezeichnung	D	h	h1	L1	L2	f	A	Insert size Wendeschneidplatte	Kg
S08K SCLC R/L 06	8	7	3,5	125	16	5	11	CC.. 0602..	0,040
S10M SCLC R/L 06	10	9	4,5	150	22	7	13	CC.. 0602..	0,060
S12M SCLC R/L 06	12	11	5,5	150	25	9	16	CC.. 0602..	0,150
S12M SCLC R/L 09	12	11	5,5	150	25	9	16	CC.. 09T3..	0,150
S12Q SCLC R/L 09	12	11	5,5	180	25	9	16	CC.. 09T3..	0,150
S16R SCLC R/L 09	16	15	7,5	200	30	11	20	CC.. 09T3..	0,300
S20S SCLC R/L 09	20	18	9,0	250	35	13	24	CC.. 09T3..	0,550
S25T SCLC R/L 09	25	23	11,5	300	40	17	31	CC.. 09T3..	0,550
S20S SCLC R/L 12	20	18	9,0	250	35	13	24	CC.. 1204..	0,550
S25T SCLC R/L 12	25	23	11,5	300	40	17	31	CC.. 1204..	0,700
S32U SCLC R/L 12	32	30	15,0	350	45	22	39	CC.. 1204..	2,050
S40V SCLC R/L 12	40	37	18,5	400	50	27	48	CC.. 1204..	3,750
S50W SCLC R/L 12	50	47	23,5	450	60	35	61	CC.. 1204..	6,500

Reference Bezeichnung					Nm
S08K SCLC R/L 06	1425	5507	-	-	0.9
S10M SCLC R/L 06	1425	5507	-	-	0.9
S12M SCLC R/L 06	1425	5507	-	-	0.9
S12M SCLC R/L 09	1440	5515	-	-	3.0
S12Q SCLC R/L 09	1440	5515	-	-	3.0
S16R SCLC R/L 09	1440	5515	-	-	3.0
S20S SCLC R/L 09	1440	5515	-	-	3.0
S25T SCLC R/L 09	1240	5515	-	-	3.0
S20S SCLC R/L 12	1250	5520	-	-	4.0
S25T SCLC R/L 12	1250	5520	-	-	4.0
S32U SCLC R/L 12	1540	5517	3614	1760	3.0
S40V SCLC R/L 12	1540	5517	3614	1760	3.0
S50W SCLC R/L 12	1540	5517	3614	1760	3.0

CC.. 80° rhombic positive inserts with 7° clearance. A30-31
80° rhombische positive Wendeschneidplatten mit 7° Freiwinkel.

Reference / Bez.	l	s	d
CC.. 0602..	6,45	2,38	6,35
CC.. 09T3..	9,65	3,97	9,52
CC.. 1204..	12,90	4,76	12,70



CCGT-AL



CCGT-AP



CCMT



CCMW

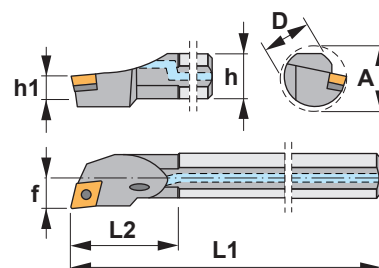


**Characteristics:**

Multipurpose boring bar equipped with rhombic positive insert (angle 80°).

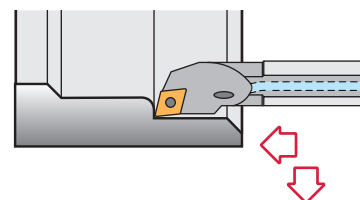
For boring bars with negative inserts see Ref. MCLN-K (Page: A178) or A-PCLN (Page: A189).

Axial 0°
Radial -6°

**Eigenschaften:**

Multifunktions-Bohrstange mit rhombischen positiven Wendeschneidplatten (80° Winkel).

Für Bohrstangen mit negativen Wendeschneidplatten siehe MCLN-K (Seite: A178) oder A-PCLN (Seite: A189).



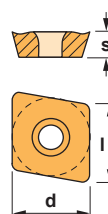
A-SCLC 95°

Reference Bezeichnung	D	h	h1	L1	L2	f	A	Insert size Wendeschneidplatte	Kg
A08F SCLC R/L 06	8	7	3,5	80	20	5	11	CC.. 0602..	0,030
A10H SCLC R/L 06	10	9	4,5	100	20	7	13	CC.. 0602..	0,040
A12K SCLC R/L 06	12	11	5,5	125	25	9	16	CC.. 0602..	0,100
A16M SCLC R/L 09	16	15	7,5	150	30	11	20	CC.. 09T3..	0,200
A20Q SCLC R/L 09	20	18	9,0	180	35	13	24	CC.. 09T3..	0,400
A25R SCLC R/L 09	25	23	11,5	200	40	17	31	CC.. 09T3..	0,700
A32S SCLC R/L 12	32	30	15,0	250	45	22	39	CC.. 1204..	1,400
A40T SCLC R/L 12	40	37	18,5	300	50	27	48	CC.. 1204..	2,650

Reference Bezeichnung					Nm
A08F SCLC R/L 06	1425	5507	-	-	0.9
A10H SCLC R/L 06	1425	5507	-	-	0.9
A12K SCLC R/L 06	1425	5507	-	-	0.9
A16M SCLC R/L 09	1440	5515	-	-	3.0
A20Q SCLC R/L 09	1440	5515	-	-	3.0
A25R SCLC R/L 09	1440	5515	-	-	3.0
A32S SCLC R/L 12	1540	5517	3614	1760	3.0
A40T SCLC R/L 12	1540	5517	3614	1760	3.0

CC.. 80° rhombic positive inserts with 7° clearance. A30-31
80° rhombische positive Wendeschneidplatten mit 7° Freiwinkel.

Reference / Bez.	l	s	d
CC.. 0602..	6,45	2,38	6,35
CC.. 09T3..	9,65	3,97	9,52
CC.. 1204..	12,90	4,76	12,70



CCGT-AL



CCGT-AP



CCMT



CCMW

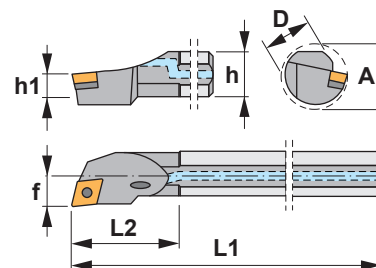




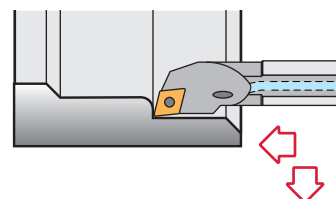
Characteristics:

Set of multipurpose boring bars equipped with rhombic positive insert (angle 80°). For boring bars with negative inserts see Ref. A-PCLN (Page: A189).

Axial 0°
Radial -6°



Eigenschaften: Multifunktions-Bohrstangen-Satz mit rhombischen positiven Wendeschneidplatten (80° Winkel). Für Bohrstanen mit negativen Wendeschneidplatten siehe A-PCLN (Seite: A189).



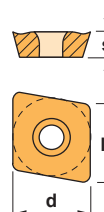
SET SCLC 95°

Reference Bezeichnung	D	d	L1	L2	f	A	h	Insert size Wendeschneidplatte	
A0608H SCLC R/L 06	8	6	100	25	4	10	7	CC.. 0602..	0,400
A0810J SCLC R/L 06	10	8	110	32	6	12	9	CC.. 0602..	
A1012K SCLC R/L 06	12	10	125	38	7	14	11	CC.. 0602..	
A1216M SCLC R/L 06	16	12	150	50	9	18	15	CC.. 0602..	

Reference Bezeichnung			Nm
A0608H SCLC R/L 06	1425	5507	0.9
A0810J SCLC R/L 06	1425	5507	0.9
A1012K SCLC R/L 06	1225	5507	0.9
A1216M SCLC R/L 06	1225	5507	0.9

CC.. 80° rhombic positive inserts with 7° clearance.  A30-31
80° rhombische positive Wendeschneidplatten mit 7° Freiwinkel.

Reference / Bez.	l	s	d
CC.. 0602..	6,45	2,38	6,35



CCGT-AL



CCGT-AP



CCMT



CCMW



**Characteristics:**

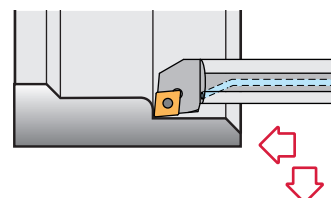
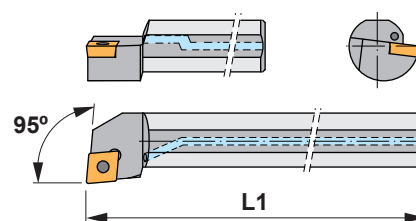
Carbide boring bar equipped with rhombic positive insert (angle 80°).
Range starting at Ø4 mm and minimum bore diameter of 5 mm.

Axial 0°
Radial -6°

Eigenschaften:

Hartmetall-Bohrstange mit rhombischen positiven Wendeschneidplatten (80° Winkel).

Das Sortiment fängt ab Ø4 mm an, für eine 5 mm Mindestbohrung.

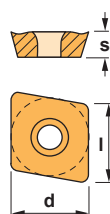
**E-SCLC 95°**

Reference Bezeichnung	L1 Total length (mm) L1 Gesamtlänge (mm)	Ø min. (mm)	Insert size Wendeschneidplatte	
E04G SCLCR 0305	90	5	CC.. 0301..	0,035
E05H SCLCR 0306	100	6	CC.. 0301..	0,040
E06J SCLCR 0307	110	7	CC.. 0301..	0,050
E07K SCLCR 0408	125	8	CC.. 0401..	0,070
E08K SCLCL 06	125	11	CC.. 0602..	0,085
E08K SCLCR 06	125	11	CC.. 0602..	0,085
E10M SCLCL 06	150	14	CC.. 0602..	0,160
E10M SCLCR 06	150	14	CC.. 0602..	0,160
E12Q SCLCL 06	180	17	CC.. 0602..	0,270
E12Q SCLCR 06	180	17	CC.. 0602..	0,270
E16R SCLCL 09	200	21	CC.. 09T3..	0,520
E16R SCLCR 09	200	21	CC.. 09T3..	0,520
E20S SCLCL 09	250	25	CC.. 09T3..	0,990
E20S SCLCR 09	250	25	CC.. 09T3..	0,990
Reference Bezeichnung				Nm
E04G SCLCR 0305	1415		5506	0.6
E05H SCLCR 0306	1415		5506	0.6
E06J SCLCR 0307	1415		5506	0.6
E07K SCLCR 0408	1420		5506	0.6
E08K SCLCL 06	1425		5507	0.9
E08K SCLCR 06	1425		5507	0.9
E10M SCLCL 06	1425		5507	0.9
E10M SCLCR 06	1425		5507	0.9
E12Q SCLCL 06	1425		5507	0.9
E12Q SCLCR 06	1425		5507	0.9
E16R SCLCL 09	1440		5515	3.0
E16R SCLCR 09	1440		5515	3.0
E20S SCLCL 09	1440		5515	3.0
E20S SCLCR 09	1440		5515	3.0

CC..

80° rhombic positive inserts with 7° clearance.  A30-31
80° rhombische positive WSP mit 7° Freiwinkel.

Reference / Bez.	l	s	d
CC.. 0301..	3,60	1,39	3,50
CC.. 0401..	4,40	1,79	4,30
CC.. 0602..	6,45	2,38	6,35
CC.. 09T3..	9,65	3,97	9,52



CCET	CCGT-AL	CCGT-AP
		
CCMT	CCMW	
		



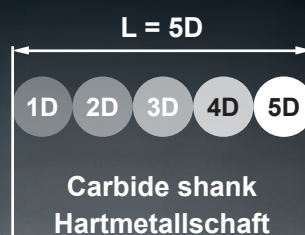
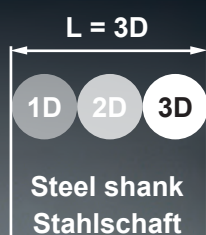
E-SCLC 95°

Features

- Better rigidity than steel bars.
- Excellent cutting performance in a wide range of boring sizes even at vibration cutting condition.
- Longer tool life and excellent surface finish.
- Range starting at Ø 4 mm. and minimum bore diameter of 5 mm.

Besonderheiten

- Bessere Festigkeit als die Stahl-Bohrstangen.
- Hervorragende Schnittleistung in einer breiten Palette von Bohrdurchmessern, auch bei schwingenden Schnittbedingungen.
- Längere Standzeiten und ausgezeichnete Oberflächengüte.
- Die Auswahl beginnt mit Ø 4 mm und minimum Bohrdurchmesser 5 mm.

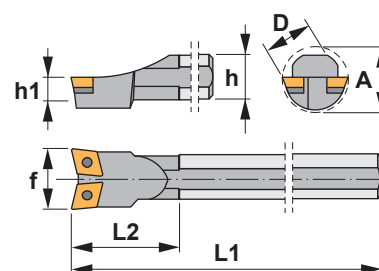


**Characteristics:**

Multipurpose internal and external boring bar equipped with rhombic positive insert (angle 80°).

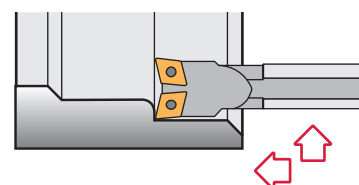
For general applications, roughing, semi-finishing and finishing.

Axial 0°
Radial -9°

**Eigenschaften:**

Multifunktions-Bohrstange zum Innen- und Außendreihen mit rhombischen positiven Wendeschneidplatten (80° Winkel).

Für allgemeine Anwendungen, Schruppen, Vorschlichten und Schlichten.



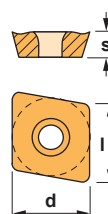
SCLCN 95°

Reference Bezeichnung	D	h	h1	L1	L2	f	A	Insert size Wendeschneidplatte	Kg
S12M SCLC N 06	12	11	5,5	150	25	18	20	CC.. 0602..	0,150
S16R SCLC N 06	16	15	7,5	200	30	22	25	CC.. 0602..	0,300
S20S SCLC N 06	20	18	9,0	250	35	26	30	CC.. 0602..	0,550
S25T SCLC N 09	25	23	11,5	300	40	34	40	CC.. 09T3..	0,700
S32U SCLC N 12	32	30	15,0	350	45	44	50	CC.. 1204..	2,050
S40V SCLC N 12	40	37	18,5	400	50	54	60	CC.. 1204..	3,750
S50W SCLC N 12	50	47	23,5	450	60	62	68	CC.. 1204..	6,500

Reference Bezeichnung					Nm
S12M SCLC N 06	1425	5507	-	-	0.9
S16R SCLC N 06	1225	5507	-	-	0.9
S20S SCLC N 06	1225	5507	-	-	0.9
S25T SCLC N 09	1440	5515	-	-	3.0
S32U SCLC N 12	1540	5517	3614	1760	3.0
S40V SCLC N 12	1540	5517	3614	1760	3.0
S50W SCLC N 12	1540	5517	3614	1760	3.0

CC.. 80° rhombic positive inserts with 7° clearance. A30-31
80° rhombische positive Wendeschneidplatten mit 7° Freiwinkel.

Reference / Bez.	l	s	d
CC.. 0602..	6,45	2,38	6,35
CC.. 09T3..	9,65	3,97	9,52
CC.. 1204..	12,90	4,76	12,70



CCGT-AL



CCGT-AP



CCMT



CCMW

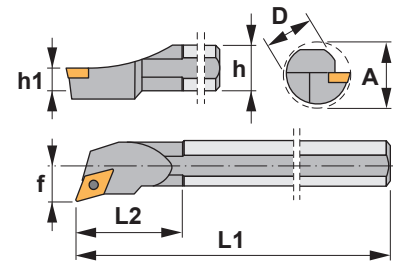




Characteristics:

Multipurpose profiling boring bar equipped with rhombic positive insert (angle 55°). For general applications, roughing, semi-finishing and finishing.

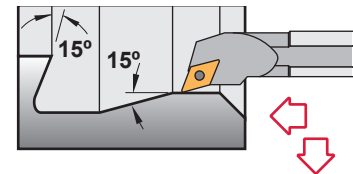
Axial 0°
Radial -6°



Eigenschaften:

Multifunktions-Bohrstange zum Profildrehen mit rhombischen positiven Wendeschneidplatten (55° Winkel).

Für allgemeine Anwendungen, Schruppen, Vorschlichten und Schlichten.



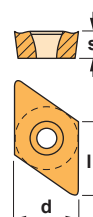
SDQC 107°30'

Reference Bezeichnung	D	h	h1	L1	L2	f	A	Insert size Wendeschneidplatte	kg
S10M SDQC R/L 07	10	9	4,5	150	22	7	13	DC.. 0702..	0,060
S12M SDQC R/L 07	12	11	5,5	150	25	9	16	DC.. 0702..	0,150
S16R SDQC R/L 07	16	15	7,5	200	30	11	20	DC.. 0702..	0,300
S20S SDQC R/L 07	20	18	9,0	250	35	13	24	DC.. 0702..	0,550
S20S SDQC R/L 11	20	18	9,0	250	35	13	24	DC.. 11T3..	0,550
S25T SDQC R/L 11	25	23	11,5	300	40	17	31	DC.. 11T3..	0,700
S32U SDQC R/L 11	32	30	15,0	350	45	22	39	DC.. 11T3..	2,050
S40V SDQC R/L 11	40	37	18,5	400	50	27	48	DC.. 11T3..	3,750

Reference Bezeichnung					Nm
S10M SDQC R/L 07	1425	5507	-	-	0.9
S12M SDQC R/L 07	1225	5507	-	-	0.9
S16R SDQC R/L 07	1225	5507	-	-	0.9
S20S SDQC R/L 07	1225	5507	-	-	0.9
S20S SDQC R/L 11	1240	5515	-	-	3.0
S25T SDQC R/L 11	1240	5515	-	-	3.0
S32U SDQC R/L 11	1335	5516	3714	1750	3.0
S40V SDQC R/L 11	1335	5516	3714	1750	3.0

DC.. 55° rhombic positive inserts with 7° clearance.  A35
55° rhombische positive Wendeschneidplatten mit 7° Freiwinkel.

Reference / Bez.	l	s	d
DC.. 0702..	7,75	2,38	6,35
DC.. 11T3..	11,60	3,97	9,52



DCGT-AL



DCGT-AP



DCMT



DCMW

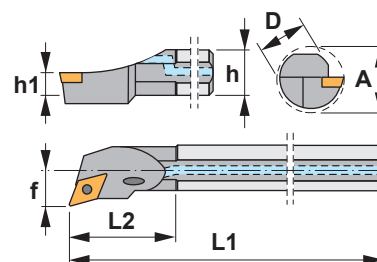




Characteristics:

Multipurpose profiling boring bar equipped with rhombic positive insert (angle 55°). For general applications, roughing, semi-finishing and finishing.

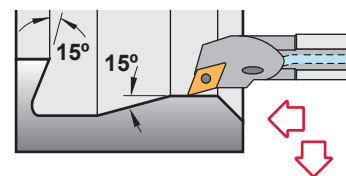
Axial 0°
Radial -6°



Eigenschaften:

Multifunktions-Bohrstange zum Profildrehen mit rhombischen positiven Wendeschneidplatten (55° Winkel).

Für allgemeine Anwendungen, Schruppen, Vorschlichten und Schlichten.



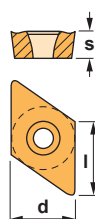
A-SDQC 107°30'

Reference Bezeichnung	D	h	h1	L1	L2	f	A	Insert size Wendeschneidplatte	Kg
A12K SDQC R/L 07	12	11	5,5	125	25	9	16	DC.. 0702..	0,100
A16M SDQC R/L 07	16	15	7,5	150	30	11	20	DC.. 0702..	0,200
A20Q SDQC R/L 11	20	18	9,0	180	35	13	24	DC.. 11T3..	0,400
A25R SDQC R/L 11	25	23	11,5	200	40	17	31	DC.. 11T3..	0,700
A32S SDQC R/L 11	32	30	15,0	250	45	22	39	DC.. 11T3..	1,400
A40T SDQC R/L 11	40	37	18,5	300	50	27	48	DC.. 11T3..	2,650

Reference Bezeichnung					Nm
A12K SDQC R/L 07	1225	5507	-	-	0.9
A16M SDQC R/L 07	1225	5507	-	-	0.9
A20Q SDQC R/L 11	1240	5515	-	-	3.0
A25R SDQC R/L 11	1240	5515	-	-	3.0
A32S SDQC R/L 11	1335	5516	3714	1750	3.0
A40T SDQC R/L 11	1335	5516	3714	1750	3.0

DC.. 55° rhombic positive inserts with 7° clearance. A35
55° rhombische positive Wendeschneidplatten mit 7° Freiwinkel.

Reference / Bez.	l	s	d
DC.. 0702..	7,75	2,38	6,35
DC.. 11T3..	11,60	3,97	9,52



DCGT-AL



DCGT-AP



DCMT



DCMW





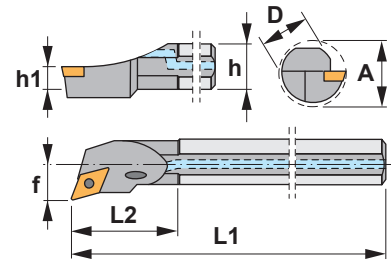
Characteristics:

Set of multipurpose profiling boring bars equipped with rhombic positive insert (angle 55°).

For general applications, roughing, semi-finishing and finishing.

Axial 0°

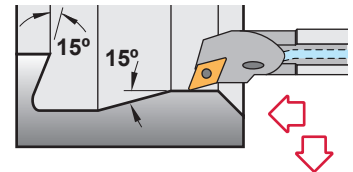
Radial -6°



Eigenschaften:

Multifunktions-Bohrstangen-Satz zum Profildrehen mit rhombischen positiven Wendeschneidplatten (55° Winkel).

Für allgemeine Anwendungen, Schruppen, Vorschlichten und Schlichten.



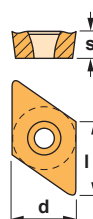
SET SDQC 107°30'

Reference Bezeichnung	D	d	L1	L2	f	A	h	Insert size Wendeschneidplatte	Kg
A0810J SDQC R/L 07	10	8	110	32	7	12,5	9	DC.. 0702..	0,350
A1012K SDQC R/L 07	12	10	125	38	9	15,5	11	DC.. 0702..	
A1216M SDQC R/L 07	16	12	150	50	11	19,5	15	DC.. 0702..	

Reference Bezeichnung			Nm
A0810J SDQC R/L 07	1225	5507	0.9
A1012K SDQC R/L 07	1225	5507	0.9
A1216M SDQC R/L 07	1225	5507	0.9

DC.. 55° rhombic positive inserts with 7° clearance. A35
55° rhombische positive Wendeschneidplatten mit 7° Freiwinkel.

Reference / Bez.	l	s	d
DC.. 0702..	7,75	2,38	6,35



DCGT-AL



DCGT-AP



DCMT



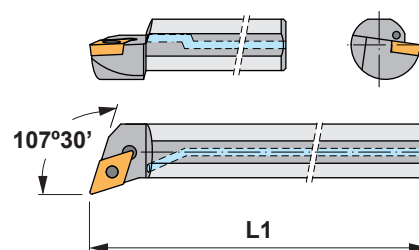
DCMW



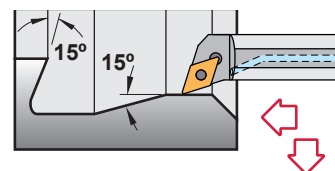
**Characteristics:**

Carbide boring bar equipped with rhombic positive insert (angle 55°).
Range starting at Ø10 mm and minimum bore diameter of 14 mm.

Axial 0°
Radial -6°

**Eigenschaften:**

Hartmetall-Bohrstange mit rhombischen positiven Wendeschneidplatten (55° Winkel).
Das Sortiment fängt ab Ø10 mm an, für eine 14 mm Mindestbohrung.

**E-SDQC 107°30'**

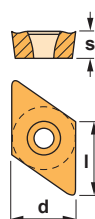
Reference Bezeichnung	L1 Total length (mm) L1 Gesamtlänge (mm)	Ø min. (mm)	Insert size Wendeschneidplatte	kg
E10M SDQCL 07	150	14	DC.. 0702..	0,165
E10M SDQCR 07	150	14	DC.. 0702..	0,165
E12Q SDQCL 07	180	17	DC.. 0702..	0,270
E12Q SDQCR 07	180	17	DC.. 0702..	0,270
E16R SDQCL 07	200	21	DC.. 0702..	0,520
E16R SDQCR 07	200	21	DC.. 0702..	0,520
E20S SDQCR 07	250	25	DC.. 0702..	0,800
E25T SDQCR 11	300	32	DC.. 11T3..	1,000

Reference Bezeichnung			Nm
E10M SDQCL 07	1425	5507	0.9
E10M SDQCR 07	1425	5507	0.9
E12Q SDQCL 07	1225	5507	0.9
E12Q SDQCR 07	1225	5507	0.9
E16R SDQCL 07	1225	5507	0.9
E16R SDQCR 07	1225	5507	0.9
E20S SDQCR 07	1225	5507	0.9
E25T SDQCR 11	1240	5515	3.0

DC..

55° rhombic positive inserts with 7° clearance. **i** A35
55° rhombische positive Wendeschneidplatten mit 7° Freiwinkel.

Reference / Bez.	l	s	d
DC.. 0702..	7,75	2,38	6,35
DC.. 11T3..	11,60	3,97	9,52

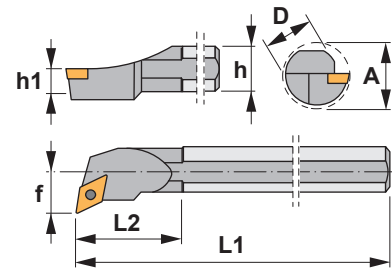
**DCGT-AL****DCGT-AP****DCMT****DCMW**



Characteristics:

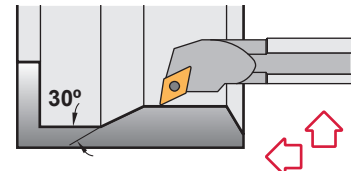
Multipurpose profiling boring bar equipped with rhombic positive insert (angle 55°). For boring bars with negative inserts see Ref. MDUN-K (Page: A179) or PDUN (Page: A190).

Axial 0°
Radial -6°



Eigenschaften:

Multifunktions-Bohrstange zum Profildrehen mit rhombischen positiven Wendeschneidplatten (55° Winkel). Für Bohrstanen mit negativen Wendeschneidplatten siehe MDUN-K (Seite: A179) oder PDUN (Seite: A190).



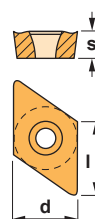
SDUC 93°

Reference Bezeichnung	D	h	h1	L1	L2	f	A	Insert size Wendeschneidplatte	kg
S10M SDUC R/L 07	10	9	4,5	150	22	7	13	DC.. 0702..	0,060
S12M SDUC R/L 07	12	11	5,5	150	25	9	16	DC.. 0702..	0,150
S12Q SDUC R/L 07	12	11	5,5	180	25	9	16	DC.. 0702..	0,150
S16R SDUC R/L 07	16	15	7,5	200	30	11	20	DC.. 0702..	0,300
S20S SDUC R/L 07	20	18	9,0	250	35	13	24	DC.. 0702..	0,550
S20S SDUC R/L 11	20	18	9,0	250	35	13	24	DC.. 11T3..	0,550
S25T SDUC R/L 11	25	23	11,5	300	40	17	31	DC.. 11T3..	0,700
S32U SDUC R/L 11	32	30	15,0	350	45	22	39	DC.. 11T3..	2,050
S40V SDUC R/L 11	40	37	18,5	400	50	27	48	DC.. 11T3..	3,750

Reference Bezeichnung					Nm
S10M SDUC R/L 07	1425	5507	-	-	0.9
S12M SDUC R/L 07	1225	5507	-	-	0.9
S12Q SDUC R/L 07	1225	5507	-	-	0.9
S16R SDUC R/L 07	1225	5507	-	-	0.9
S20S SDUC R/L 07	1225	5507	-	-	0.9
S20S SDUC R/L 11	1240	5515	-	-	3.0
S25T SDUC R/L 11	1240	5515	-	-	3.0
S32U SDUC R/L 11	1335	5516	3714	1750	3.0
S40V SDUC R/L 11	1335	5516	3714	1750	3.0

DC.. 55° rhombic positive inserts with 7° clearance.  A35
55° rhombische positive Wendeschneidplatten mit 7° Freiwinkel.

Reference / Bez.	l	s	d
DC.. 0702..	7,75	2,38	6,35
DC.. 11T3..	11,60	3,97	9,52



DCGT-AL



DCGT-AP



DCMT



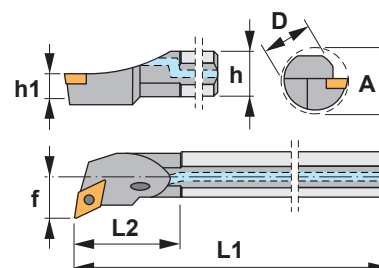
DCMW



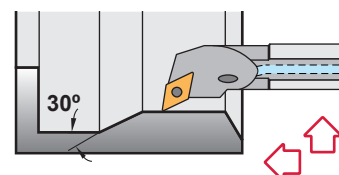
**Characteristics:**

Multipurpose profiling boring bar equipped with rhombic positive insert (angle 55°). For boring bars with negative inserts see Ref. MDUN-K (Page: A179) or A-PDUN (Page: A191).

Axial 0°
Radial -6°

**Eigenschaften:**

Multifunktions-Bohrstange zum Profildrehen mit rhombischen positiven Wendeschneidplatten (55° Winkel). Für Bohrstangen mit negativen Wendeschneidplatten siehe MDUN-K (Seite: A179) oder A-PDUN (Seite: A191).



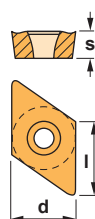
A-SDUC 93°

Reference Bezeichnung	D	h	h1	L1	L2	f	A	Insert size Wendeschneidplatte	Kg
A12K SDUC R/L 07	12	11	5,5	125	25	9	16	DC.. 0702..	0,100
A16M SDUC R/L 07	16	15	7,5	150	30	11	20	DC.. 0702..	0,200
A20Q SDUC R/L 11	20	18	9,0	180	35	13	24	DC.. 11T3..	0,400
A25R SDUC R/L 11	25	23	11,5	200	40	17	31	DC.. 11T3..	0,700
A32S SDUC R/L 11	32	30	15,0	250	45	22	39	DC.. 11T3..	1,400
A40T SDUC R/L 11	40	37	18,5	300	50	27	48	DC.. 11T3..	2,650

Reference Bezeichnung					Nm
A12K SDUC R/L 07	1225	5507	-	-	0.9
A16M SDUC R/L 07	1225	5507	-	-	0.9
A20Q SDUC R/L 11	1440	5515	-	-	3.0
A25R SDUC R/L 11	1240	5515	-	-	3.0
A32S SDUC R/L 11	1335	5516	3714	1750	3.0
A40T SDUC R/L 11	1335	5516	3714	1750	3.0

DC.. 55° rhombic positive inserts with 7° clearance. A35
55° rhombische positive Wendeschneidplatten mit 7° Freiwinkel.

Reference / Bez.	l	s	d
DC.. 0702..	7,75	2,38	6,35
DC.. 11T3..	11,60	3,97	9,52

**DCGT-AL****DCGT-AP****DCMT****DCMW**

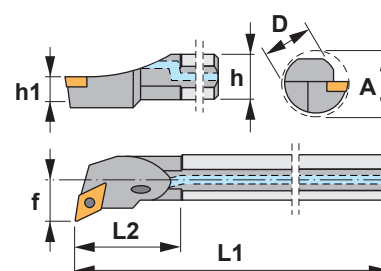


Characteristics:

Set of multipurpose profiling boring bars equipped with rhombic positive insert (angle 55°).

For boring bars with negative inserts see Ref. A-PDUN (Page: A191).

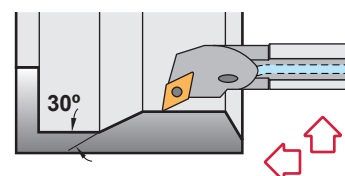
Axial 0°
Radial -6°



Eigenschaften:

Multifunktions-Bohrstangen-Satz zum Profildrehen mit rhombischen positiven Wendeschneidplatten (55° Winkel).

Für Bohrstangen mit negativen Wendeschneidplatten siehe A-PDUN (Seite: A191).



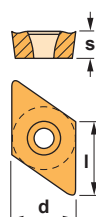
SET SDUC 93°

Reference Bezeichnung	D	d	L1	L2	f	A	h	Insert size Wendeschneidplatte	Kg
A0810J SDUC R/L 07	10	8	110	32	7	12,5	9	DC.. 0702..	0,350
A1012K SDUC R/L 07	12	10	125	38	9	15,5	11	DC.. 0702..	
A1216M SDUC R/L 07	16	12	150	50	11	19,5	15	DC.. 0702..	

Reference Bezeichnung			Nm
A0810J SDUC R/L 07	1225	5507	0.9
A1012K SDUC R/L 07	1225	5507	0.9
A1216M SDUC R/L 07	1225	5507	0.9

DC.. 55° rhombic positive inserts with 7° clearance. A35
55° rhombische positive Wendeschneidplatten mit 7° Freiwinkel.

Reference / Bez.	l	s	d
DC.. 0702..	7,75	2,38	6,35



DCGT-AL



DCGT-AP



DCMT



DCMW



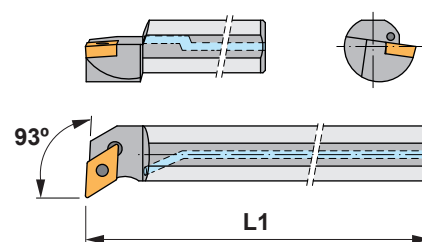
**Characteristics:**

Carbide boring bar equipped with rhombic positive insert (angle 55°).

Range starting at Ø10 mm and minimum bore diameter of 14 mm.

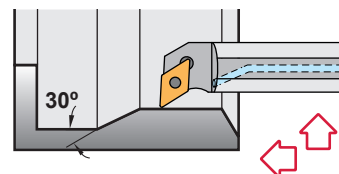
Axial 0°

Radial -6°

**Eigenschaften:**

Hartmetall-Bohrstange mit rhombischen positiven Wendeschneidplatten (55° Winkel).

Das Sortiment fängt ab Ø10 mm an, für eine 14 mm Mindestbohrung.



E-SDUC 93°

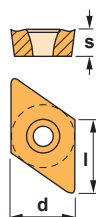


Reference Bezeichnung	L1 Total length (mm) L1 Gesamtlänge (mm)	Ø min. (mm)	Insert size Wendeschneidplatte	kg
E10M SDUCL 07	150	14	DC.. 0702..	0,165
E10M SDUCR 07	150	14	DC.. 0702..	0,165
E12Q SDUCL 07	180	17	DC.. 0702..	0,265
E12Q SDUCR 07	180	17	DC.. 0702..	0,265
E16R SDUCL 07	200	21	DC.. 0702..	0,525
E16R SDUCR 07	200	21	DC.. 0702..	0,525
E20S SDUCL 11	250	25	DC.. 11T3..	1,000
E20S SDUCR 11	250	25	DC.. 11T3..	1,000
E25T SDUCR 11	300	32	DC.. 11T3..	1,250

Reference Bezeichnung			Nm
E10M SDUCL 07	1425	5507	0.9
E10M SDUCR 07	1425	5507	0.9
E12Q SDUCL 07	1225	5507	0.9
E12Q SDUCR 07	1225	5507	0.9
E16R SDUCL 07	1225	5507	0.9
E16R SDUCR 07	1225	5507	0.9
E20S SDUCL 11	1240	5515	3.0
E20S SDUCR 11	1240	5515	3.0
E25T SDUCR 11	1240	5515	3.0

DC.. 55° rhombic positive inserts with 7° clearance. A35
55° rhombische positive Wendeschneidplatten mit 7° Freiwinkel.

Reference / Bez.	l	s	d
DC.. 0702..	7,75	2,38	6,35
DC.. 11T3..	11,60	3,97	9,52



DCGT-AL



DCGT-AP

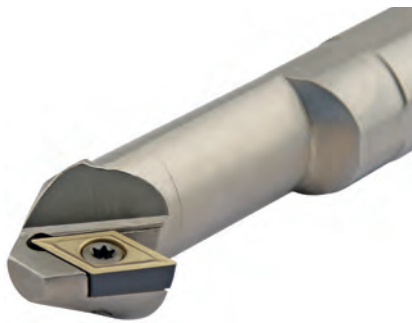


DCMT



DCMW



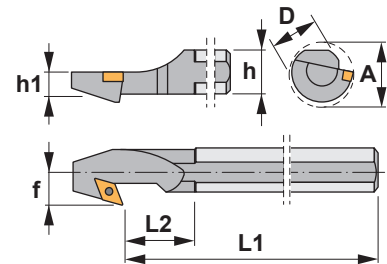


Characteristics:

Backwards multipurpose profiling boring bar equipped with rhombic positive insert (angle 55°).

For boring bars with negative inserts see Ref. PDUN-EX (Page: A192).

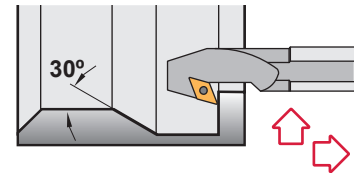
Axial 0°
Radial -6°



Eigenschaften:

Rückwärts-Multifunktions-Bohrstange zum Profildrehen mit rhombischen positiven Wendeschneidplatten (55° Winkel).

Für Bohrstanen mit negativen Wendeschneidplatten siehe PDUN-EX (Seite: A192).



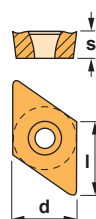
SDUC 93°-EX

Reference Bezeichnung	D	h	h1	L1	L2	f	A	Insert size Wendeschneidplatte	kg
S12M SDUC R/L 07-EX	12	11	5,5	150	25	9	16	DC.. 0702..	0,150
S16R SDUC R/L 07-EX	16	15	7,5	200	30	11	20	DC.. 0702..	0,300
S20S SDUC R/L 07-EX	20	18	9,0	250	35	13	24	DC.. 0702..	0,550
S20S SDUC R/L 11-EX	20	18	9,0	250	35	13	24	DC.. 11T3..	0,550
S25T SDUC R/L 11-EX	25	23	11,5	300	40	17	31	DC.. 11T3..	0,700
S32U SDUC R/L 11-EX	32	30	15,0	350	50	22	39	DC.. 11T3..	2,050
S40V SDUC R/L 11-EX	40	37	18,5	400	60	27	48	DC.. 11T3..	3,750

Reference Bezeichnung					Nm
S12M SDUC R/L 07-EX	1225	5507	-	-	0.9
S16R SDUC R/L 07-EX	1225	5507	-	-	0.9
S20S SDUC R/L 07-EX	1225	5507	-	-	0.9
S20S SDUC R/L 11-EX	1240	5515	-	-	3.0
S25T SDUC R/L 11-EX	1240	5515	-	-	3.0
S32U SDUC R/L 11-EX	1335	5516	3714	1750	3.0
S40V SDUC R/L 11-EX	1335	5516	3714	1750	3.0

DC.. 55° rhombic positive inserts with 7° clearance.  A35
55° rhombische positive Wendeschneidplatten mit 7° Freiwinkel.

Reference / Bez.	l	s	d
DC.. 0702..	7,75	2,38	6,35
DC.. 11T3..	11,60	3,97	9,52



DCGT-AL



DCGT-AP



DCMT



DCMW

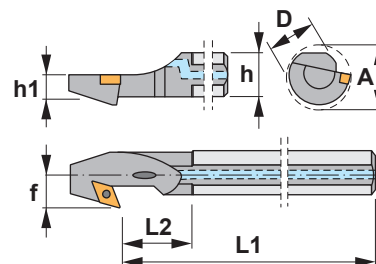


**Characteristics:**

Backwards multipurpose profiling boring bar equipped with rhombic positive insert (angle 55°).

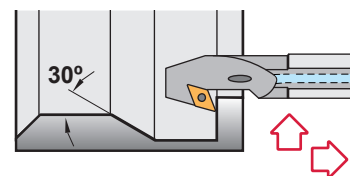
For boring bars with negative inserts see Ref. PDUN-EX (Page: A192).

Axial 0°
Radial -6°

**Eigenschaften:**

Rückwärts-Multifunktions-Bohrstange zum Profildrehen mit rhombischen positiven Wendeschneidplatten (55° Winkel).

Für Bohrstangen mit negativen Wendeschneidplatten siehe PDUN-EX (Seite: A192).



A-SDUC 93°-EX

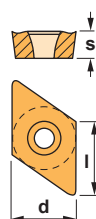


Reference Bezeichnung	D	h	h1	L1	L2	f	A	Insert size Wendeschneidplatte	 Kg
A12K SDUC R/L 07-EX	12	11	5,5	125	25	9	16	DC.. 0702..	0,100
A16M SDUC R/L 07-EX	16	15	7,5	150	30	11	20	DC.. 0702..	0,200
A20Q SDUC R/L 11-EX	20	18	9,0	180	35	13	24	DC.. 11T3..	0,400
A25R SDUC R/L 11-EX	25	23	11,5	200	40	17	31	DC.. 11T3..	0,700

Reference Bezeichnung			Nm
A12K SDUC R/L 07-EX	1225	5507	0.9
A16M SDUC R/L 07-EX	1225	5507	0.9
A20Q SDUC R/L 11-EX	1240	5515	3.0
A25R SDUC R/L 11-EX	1240	5515	3.0

DC.. 55° rhombic positive inserts with 7° clearance.  A35
55° rhombische positive Wendeschneidplatten mit 7° Freiwinkel.

Reference / Bez.	l	s	d
DC.. 0702..	7,75	2,38	6,35
DC.. 11T3..	11,60	3,97	9,52

**DCGT-AL****DCGT-AP****DCMT****DCMW**



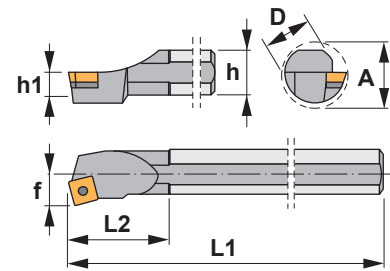
Characteristics:

Multipurpose boring bar equipped with square positive insert.

For boring bars with negative inserts see Ref. MSKN-K (Page: A180) or PSKN (Page: A193).

Axial 0°

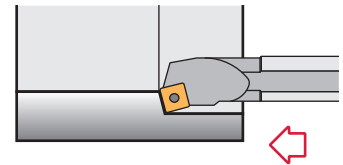
Radial -8°



Eigenschaften:

Multifunktions-Bohrstange mit vierkantigen positiven Wendeschneidplatten.

Für Bohrstanen mit negativen Wendeschneidplatten siehe MSKN-K (Seite: A180) oder PSKN (Seite: A193).



SSKC 75°

Reference Bezeichnung	D	h	h1	L1	L2	f	A	Insert size Wendeschneidplatte	Kg
S16R SSKC R/L 09	16	15	7,5	200	30	11	20	SC.. 09T3..	0,300
S20S SSKC R/L 09	20	18	9,0	250	35	13	24	SC.. 09T3..	0,550
S25T SSKC R/L 09	25	23	11,5	300	40	17	31	SC.. 09T3..	0,700
S32U SSKC R/L 12	32	30	15,0	350	45	22	39	SC.. 1204..	2,050
S40V SSKC R/L 12	40	37	18,5	400	50	27	48	SC.. 1204..	3,750
S50W SSKC R/L 12	50	47	23,5	450	60	35	61	SC.. 1204..	6,500

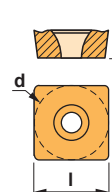
Reference Bezeichnung					Nm
S16R SSKC R/L 09	1440	5515	-	-	3.0
S20S SSKC R/L 09	1240	5515	-	-	3.0
S25T SSKC R/L 09	1240	5515	-	-	3.0
S32U SSKC R/L 12	1540	5517	3514	1760	3.0
S40V SSKC R/L 12	1540	5517	3514	1760	3.0
S50W SSKC R/L 12	1540	5517	3514	1760	3.0

SC..

Square positive inserts with 7° clearance. A40
Vierkantige positive Wendeschneidplatten mit 7° Freiwinkel.

Reference / Bez.

	l	s	d
SC.. 09T3..	9,52	3,97	9,52
SC.. 1204..	12,70	4,76	12,70



SCGT-AL



SCMT



SCMT-39



SCMW



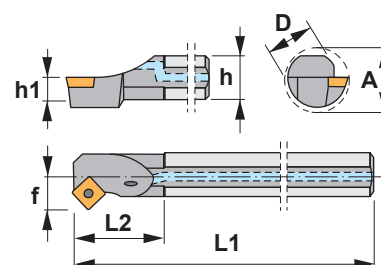
**Characteristics:**

Multipurpose boring bar equipped with square positive insert.

For boring bars with negative inserts see Ref. A-PSSN (Page: A195).

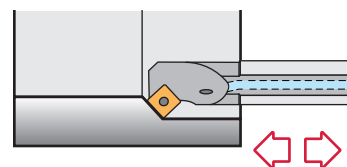
Axial 0°

Radial -8°

**Eigenschaften:**

Multifunktions-Bohrstange mit vierkantigen positiven Wendeschneidplatten.

Für Bohrstan- gen mit negativen Wendeschneidplatten siehe A-PSSN (Seite: A195).



A-SSSC 45°

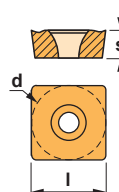
Reference Bezeichnung	D	h	h1	L1	L2	f	A	Insert size Wendeschneidplatte	
A16M SSSC R/L 09	16	15	7,5	150	30	11	20	SC.. 09T3..	0,300
A20Q SSSC R/L 09	20	18	9,0	180	35	13	24	SC.. 09T3..	0,550
A25R SSSC R/L 09	25	23	11,5	200	40	17	31	SC.. 09T3..	0,700

Reference Bezeichnung			Nm
A16M SSSC R/L 09	1440	5515	3.0
A20Q SSSC R/L 09	1440	5515	3.0
A25R SSSC R/L 09	1240	5515	3.0

SC..

Square positive inserts with 7° clearance.  A40
Vierkantige positive Wendeschneidplatten mit 7° Freiwinkel.

Reference / Bez.	l	s	d
SC.. 09T3..	9,52	3,97	9,52

**SCGT-AL****SCMT****SCMT-39****SCMW**

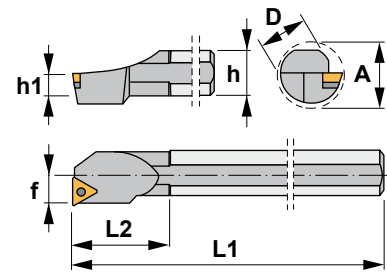


Characteristics:

Multipurpose boring bar equipped with triangular positive insert.

For boring bars with negative inserts see Ref. MTFN (Page: A181), MTFN-K (Page: A182) or PTFN (Page: A196).

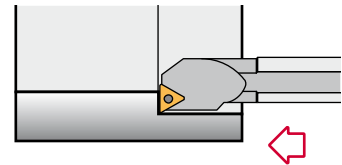
Axial 0°
Radial -6°



Eigenschaften:

Multifunktions-Bohrstange mit dreikantigen positiven Wendeschneidplatten.

Für Bohrstan- gen mit negativen Wendeschneidplatten siehe MTFN (Seite: A181), MTFN-K (Seite: A182) oder PTFN (Seite: A196).



STFC 90°

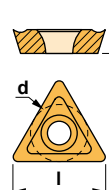
Reference Bezeichnung	D	h	h1	L1	L2	f	A	Insert size Wendeschneidplatte	kg
S10M STFC R/L 09	10	9	4,5	150	22	7	13	TC.. 0902..	0,060
S12M STFC R/L 09	12	11	5,5	150	25	9	16	TC.. 0902..	0,150
S12M STFC R/L 11	12	11	5,5	150	25	9	16	TC.. 1102..	0,150
S12Q STFC R/L 11	12	11	5,5	180	25	9	16	TC.. 1102..	0,050
S16R STFC R/L 11	16	15	7,5	200	30	11	20	TC.. 1102..	0,300
S20S STFC R/L 11	20	18	9,0	250	35	13	24	TC.. 1102..	0,550
S16R STFC R/L 16	16	15	7,5	200	30	11	20	TC.. 16T3..	0,300
S20S STFC R/L 16	20	18	9,0	250	35	13	24	TC.. 16T3..	0,550
S25T STFC R/L 16	25	23	11,5	300	40	17	31	TC.. 16T3..	0,700
S32U STFC R/L 16	32	30	15,0	350	45	22	39	TC.. 16T3..	2,050
S40V STFC R/L 16	40	37	18,5	400	50	27	48	TC.. 16T3..	3,750

Reference Bezeichnung					Nm
S10M STFC R/L 09	1222	5506	-	-	0.6
S12M STFC R/L 09	1222	5506	-	-	0.6
S12M STFC R/L 11	1225	5507	-	-	0.9
S12Q STFC R/L 11	1225	5507	-	-	0.9
S16R STFC R/L 11	1225	5507	-	-	0.9
S20S STFC R/L 11	1225	5507	-	-	0.9
S16R STFC R/L 16	1240	5515	-	-	3.0
S20S STFC R/L 16	1240	5515	-	-	3.0
S25T STFC R/L 16	1240	5515	-	-	3.0
S32U STFC R/L 16	1335	5516	3414	1750	3.0
S40V STFC R/L 16	1335	5516	3414	1750	3.0

TC..

Triangular positive inserts with 7° clearance. A44
Dreikantige positive Wendeschneidplatten mit 7° Freiwinkel.

Reference / Bez.	l	s	d
TC.. 0902..	9,62	2,38	5,55
TC.. 1102..	11,00	2,38	6,35
TC.. 16T3..	16,50	3,97	9,52



TCGT-AL



TCMT



TCMW

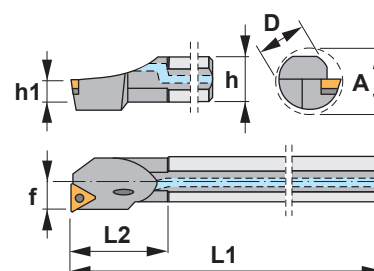


**Characteristics:**

Multipurpose boring bar equipped with triangular positive insert.

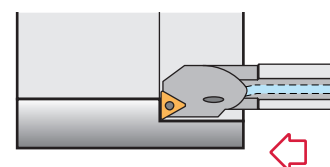
For boring bars with negative inserts see Ref. MTFN (Page: A181), MTFN-K (Page: A182) or A-PTFN (Page: A197).

Axial 0°
Radial -6°

**Eigenschaften:**

Multifunktions-Bohrstange mit dreikantigen positiven Wendeschneidplatten.

Für Bohrstangen mit negativen Wendeschneidplatten siehe MTFN (Seite: A181), MTFN-K (Seite: A182) oder A-PTFN (Seite: A197).



A-STFC 90°



Reference Bezeichnung	D	h	h1	L1	L2	f	A	Insert size Wendeschneidplatte	kg
A10H STFC R/L 09	10	9	4,5	100	20	7	13	TC.. 0902..	0,040
A12K STFC R/L 11	12	11	5,5	125	25	9	16	TC.. 1102..	0,100
A16M STFC R/L 11	16	15	7,5	150	30	11	20	TC.. 1102..	0,200
A20Q STFC R/L 11	20	18	9,0	180	35	13	24	TC.. 1102..	0,400
A20Q STFC R/L 16	20	18	7,5	180	35	11	20	TC.. 16T3..	0,400
A25R STFC R/L 16	25	23	11,5	200	40	17	31	TC.. 16T3..	0,700
A32S STFC R/L 16	32	30	15,0	250	45	22	39	TC.. 16T3..	1,400
A40T STFC R/L 16	40	37	18,5	300	50	27	48	TC.. 16T3..	2,650

Reference Bezeichnung					Nm
A10H STFC R/L 09	1222	5506	-	-	0.6
A12K STFC R/L 11	1225	5507	-	-	0.9
A16M STFC R/L 11	1225	5507	-	-	0.9
A20Q STFC R/L 11	1225	5507	-	-	0.9
A20Q STFC R/L 16	1240	5515	-	-	3.0
A25R STFC R/L 16	1240	5515	-	-	3.0
A32S STFC R/L 16	1335	5516	3414	1750	3.0
A40T STFC R/L 16	1335	5516	3414	1750	3.0

TC..

Triangular positive inserts with 7° clearance. A44
Dreikantige positive Wendeschneidplatten mit 7° Freiwinkel.

Reference / Bez.**l****s****d**

TC.. 0902..

9,62

2,38

5,55

TC.. 1102..

11,00

2,38

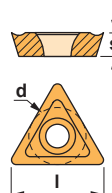
6,35

TC.. 16T3..

16,50

3,97

9,52

**TCGT-AL****TCMT****TCMW**

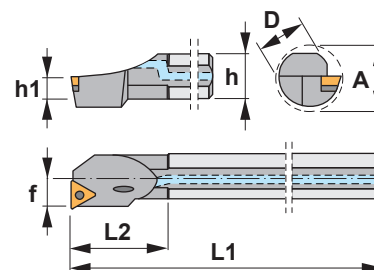


Characteristics:

Set of multipurpose boring bars equipped with triangular positive insert.

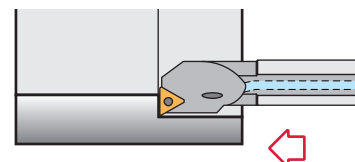
For boring bars with negative inserts see Ref. A-PTFN (Page: A197).

Axial 0°
Radial -6°



Eigenschaften:

Multifunktions-Bohrstangen-Satz mit dreikantigen positiven Wendeschneidplatten. Für Bohrstangen mit negativen Wendeschneidplatten siehe A-PTFN (Seite: A197).



SET STFC 90°



Reference Bezeichnung	D	d	L1	L2	f	A	h	Insert size Wendeschneidplatte	Kg
A0810J STFC R/L 11	10	8	110	32	7	12,5	9	TC.. 1102..	0,350
A1012K STFC R/L 11	12	10	125	38	9	15,5	11	TC.. 1102..	
A1216M STFC R/L 11	16	12	150	50	11	19,5	15	TC.. 1102..	

Reference Bezeichnung			Nm
A0810J STFC R/L 11	1425	5507	0.9
A1012K STFC R/L 11	1225	5507	0.9
A1216M STFC R/L 11	1225	5507	0.9

TC..

Triangular positive inserts with 7° clearance. A44
Dreikantige positive Wendeschneidplatten mit 7° Freiwinkel.

Reference / Bez.

l

s

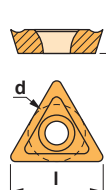
d

TC.. 1102..

11,00

2,38

6,35



TCGT-AL

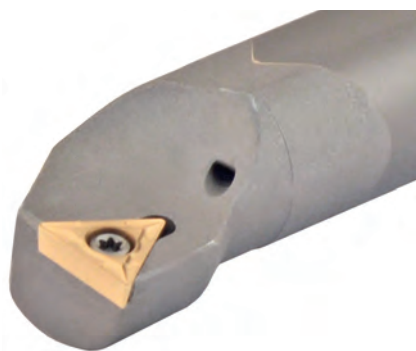


TCMT



TCMW



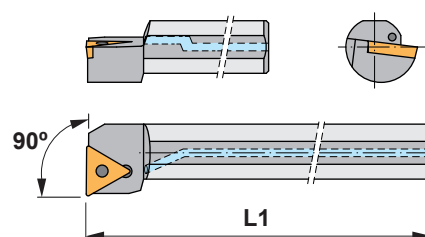
**Characteristics:**

Carbide boring bar equipped with triangular positive insert.

Range starting at Ø12 mm and minimum bore diameter of 17 mm.

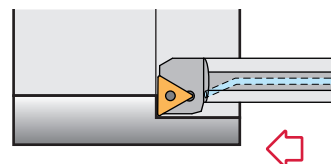
Axial 0°

Radial -6°

**Eigenschaften:**

Hartmetall-Bohrstange mit dreikantigen positiven Wendeschneidplatten.

Das Sortiment fängt ab Ø12 mm an, für eine 17 mm Mindestbohrung.

**E-STFC 90°**

Reference Bezeichnung	L1 Total length (mm) L1 Gesamtlänge (mm)	Ø min. (mm)	Insert size Wendeschneidplatte	
E12Q STFCL 11	180	17	TC.. 1102..	0,270
E12Q STFCR 11	180	17	TC.. 1102..	0,270
E16R STFCL 11	200	21	TC.. 1102..	0,510
E16R STFCR 11	200	21	TC.. 1102..	0,510
E20S STFCL 11	250	25	TC.. 1102..	1,000
E20S STFCR 11	250	25	TC.. 1102..	1,000

Reference Bezeichnung			Nm
E12Q STFCL 11	1225	5507	0.9
E12Q STFCR 11	1225	5507	0.9
E16R STFCL 11	1225	5507	0.9
E16R STFCR 11	1225	5507	0.9
E20S STFCL 11	1225	5507	0.9
E20S STFCR 11	1225	5507	0.9

TC..

Triangular positive inserts with 7° clearance.  A44
Dreikantige positive Wendeschneidplatten mit 7° Freiwinkel.

Reference / Bez.

l

s

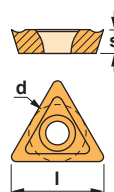
d

TC.. 1102..

11,00

2,38

6,35



TCGT-AL



TCMT



TCMW





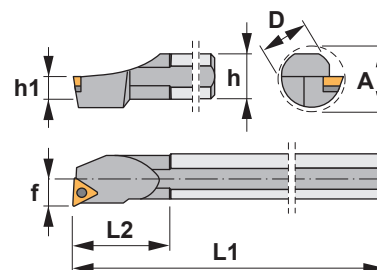
Characteristics:

Multipurpose boring bar equipped with triangular positive insert.

For boring bars with negative inserts see Ref. MTUN (Page: A183).

Axial 0°

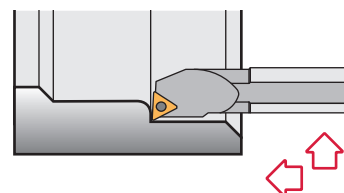
Radial -4°



Eigenschaften:

Multifunktions-Bohrstange mit dreikantigen positiven Wendeschneidplatten.

Für Bohrstanen mit negativen Wendeschneidplatten siehe MTUN (Seite: A183).



STUC 93°

Reference Bezeichnung	D	h	h1	L1	L2	f	A	Insert size Wendeschneidplatte	Kg
S12M STUC R/L 11	12	11	5,5	150	25	9	16	TC.. 1102..	0,150
S16R STUC R/L 16	16	15	7,5	200	30	11	20	TC.. 16T3..	0,300
S20S STUC R/L 16	20	18	9,0	250	35	13	24	TC.. 16T3..	0,550
S25T STUC R/L 16	25	23	11,5	300	40	17	31	TC.. 16T3..	0,700
S32U STUC R/L 16	32	30	15,0	350	45	22	39	TC.. 16T3..	2,050

Reference Bezeichnung					Nm
S12M STUC R/L 11	1225	5507	-	-	0.9
S16R STUC R/L 16	1240	5515	-	-	3.0
S20S STUC R/L 16	1240	5515	-	-	3.0
S25T STUC R/L 16	1240	5515	-	-	3.0
S32U STUC R/L 16	1335	5516	3414	1750	3.0

TC..

Triangular positive inserts with 7° clearance.  A44
Dreikantige positive Wendeschneidplatten mit 7° Freiwinkel.

Reference / Bez.

l

s

d

TC.. 1102..

11,00

2,38

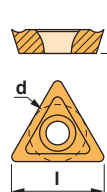
6,35

TC.. 16T3..

16,50

3,97

9,52



TCGT-AL



TCMT



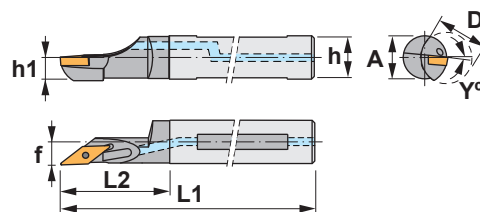
TCMW



**Characteristics:**

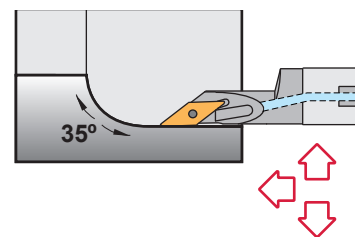
Multipurpose profiling boring bar equipped with rhombic positive insert (angle 35°). For general applications, roughing, semi-finishing and finishing.

Axial 0°
Radial -6°

**Eigenschaften:**

Multifunktions-Bohrstange zum Profildrehen mit rhombischen positiven Wendeschneidplatten (35° Winkel).

Für allgemeine Anwendungen, Schruppen, Vorschlichten und Schlichten.



A-SVJC 93°

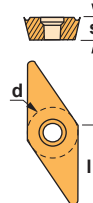
Reference Bezeichnung	D	h	h1	L1	L2	f	A	Y°	Insert size Wendeschneidplatte	
A16M SVJC R/L 11	16	15	7,5	150	30	8,5	22	22	VC.. 1103..	0,190
A20Q SVJC R/L 11	20	18	9,0	180	35	10,5	25	25	VC.. 1103..	0,350
A25R SVJC R/L 16	25	23	11,5	200	40	13,0	28	28	VC.. 1604..	0,590

Reference Bezeichnung			Nm
A16M SVJC R/L 11	1225	5507	0.9
A20Q SVJC R/L 11	1225	5507	0.9
A25R SVJC R/L 16	1240	5515	3.0

VC..

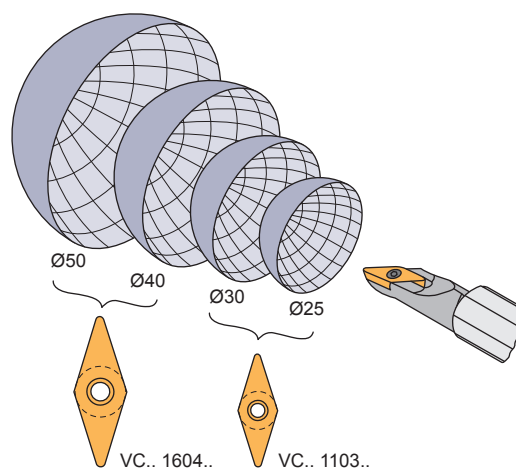
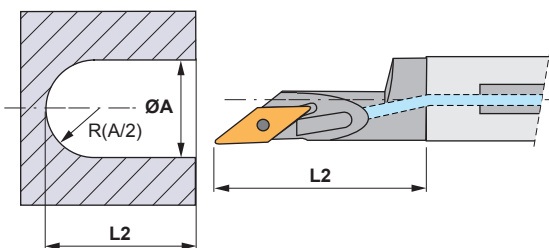
35° rhombic positive inserts with 7° clearance.  A48
Rhombische positive WSP (35° Winkel) mit Freiwinkel 7°.

Reference / Bez.	l	s	d
VC.. 1103..	11,00	3,18	6,35
VC.. 1604..	16,50	4,76	9,52

**VC GT-AL****VC GT-AP****VC MT**

Application of A-SVJC 93° Anwendung von A-SVJC 93°

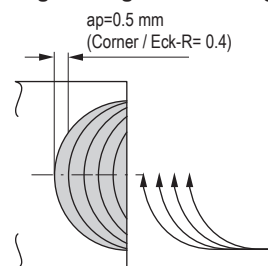
Application range / Anwendungsbereich



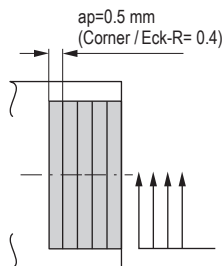
Machining method / Bearbeitungsmethode

Case with no existing hole / Ohne vorgebohrte Bohrung

Spherical machining Kugelförmige Bearbeitung



Internal facing Innen-Plandrehen

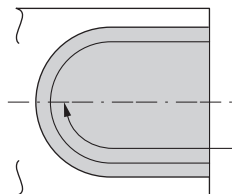


*Note: Feed rate shall be under 0.05 mm/rev at internal facing.

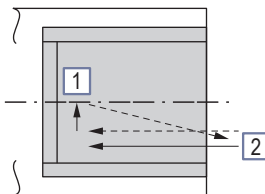
*Bemerkung: Vorschub muß bei Innen-Plandrehen unter 0.05 mm/U sein.

Finishing / Schlichten

Spherical machining Kugelförmige Bearbeitung



Internal facing Innen-Plandrehen



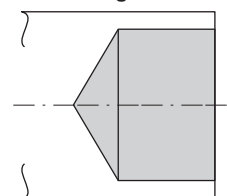
*Machining process / *Bearbeitungsvorgang

1 Finish the internal face first / Zuerst Bohrungsgrund schlichten.

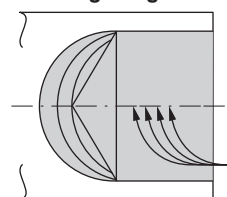
2 Next, finish the internal diameter / Anschließend Bohrungsdurchmesser schlichten.

Case with drilled hole / Mit vorgebohrte Bohrung

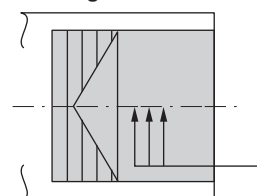
Drilled hole / Vorgebohrte Bohrung



Spherical machining / Kugelförmige Bearbeitung



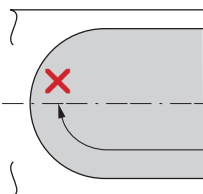
Internal facing / Innen-Plandrehen



*Note: Feed rate shall be under 0.05 mm/rev at internal facing.

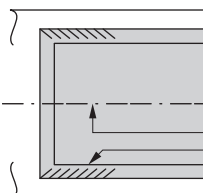
*Bemerkung: Vorschub muß bei Innen-Plandrehen unter 0.05 mm/U sein.

Caution / Vorsicht



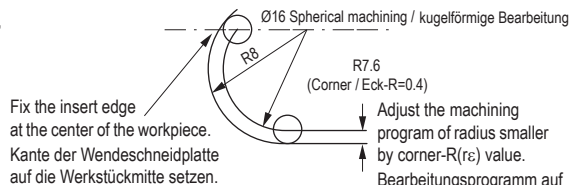
When machining past the center of the workpiece, insert breakage may occur.

Bei Bearbeitung über die Mitte des Werkstücks hinaus kann die Wendschneidplatte brechen.



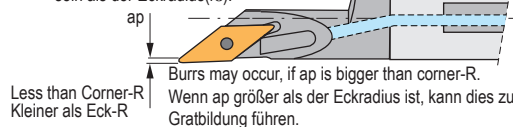
Machining of this kind is possible, but the oblique part may be scratched by chips.
Eine solche Bearbeitung ist zwar möglich, jedoch kann Spanschlag die Oberfläche aufrauen.

Poor finish
Schlechte Oberfläche



Fix the insert edge at the center of the workpiece.
Kante der Wendschneidplatte auf die Werkstückmitte setzen.

For internal profiling, ap should be less than the value of corner-R (rc).
Zum Innenprofilieren sollte ap kleiner sein als der Eckradius (rc).



Burrs may occur, if ap is bigger than corner-R.
Wenn ap größer als der Eckradius ist, kann dies zu Grabbildung führen.

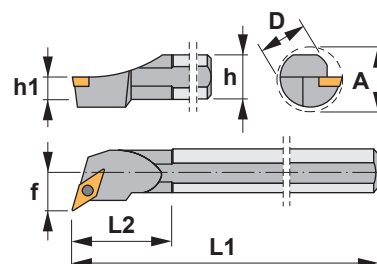
**Characteristics:**

Multipurpose profiling boring bar equipped with rhombic positive insert (angle 35°).

For general applications, roughing, semi-finishing and finishing.

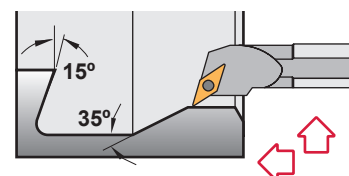
Axial 0°

Radial -6°

**Eigenschaften:**

Multifunktions-Bohrstange zum Profildrehen mit rhombischen positiven Wendeschneidplatten (35° Winkel).

Für allgemeine Anwendungen, Schruppen, Vorschlichten und Schlichten.



SVQC 107°30'

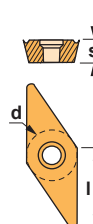
Reference Bezeichnung	D	h	h1	L1	L2	f	A	Insert size Wendeschneidplatte	kg
S16R SVQC R/L 11	16	15	7,5	200	30	11	20	VC.. 1103..	0,300
S20S SVQC R/L 11	20	18	9,0	250	35	13	24	VC.. 1103..	0,550
S16R SVQC R/L 13	16	15	7,5	200	30	13	22	VC.. 1303..	0,300
S20S SVQC R/L 13	20	18	9,0	250	35	13	24	VC.. 1303..	0,550
S25T SVQC R/L 16	25	23	11,5	300	40	17	31	VC.. 1604..	0,700

Reference Bezeichnung					Nm
S16R SVQC R/L 11	1225	5507	-	-	0.9
S20S SVQC R/L 11	1225	5507	-	-	0.9
S16R SVQC R/L 13	1230	5508	-	-	1.2
S20S SVQC R/L 13	1230	5508	-	-	1.2
S25T SVQC R/L 16	1335	5516	3718	1750	3.0

VC..

35° rhombic positive inserts with 7° clearance.
Rhombische positive WSP (35° Winkel) mit Freiwinkel 7°.  A48

Reference / Bez.	l	s	d
VC.. 1103..	11,00	3,18	6,35
VC.. 1303..	13,00	3,18	7,94
VC.. 1604..	16,50	4,76	9,52

**VCGT-AL****VCGT-AP****VCMT**



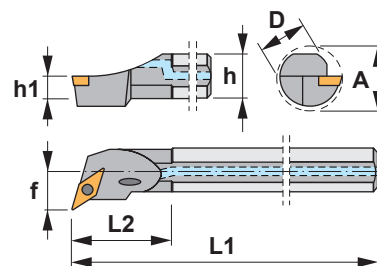
Characteristics:

Multipurpose profiling boring bar equipped with rhombic positive insert (angle 35°).

For general applications, roughing, semi-finishing and finishing.

Axial 0°

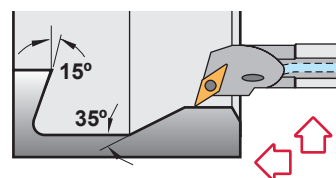
Radial -6°



Eigenschaften:

Multifunktions-Bohrstange zum Profildrehen mit rhombischen positiven Wendeschneidplatten (35° Winkel).

Für allgemeine Anwendungen, Schruppen, Vorschlichten und Schlichten.



A-SVQC 107°30'

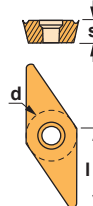
Reference Bezeichnung	D	h	h1	L1	L2	f	A	Insert size Wendeschneidplatte	kg
A16M SVQC R/L 11	16	15	7,5	150	30	11	20	VC.. 1103..	0,200
A20Q SVQC R/L 11	20	18	9,0	180	35	13	24	VC.. 1103..	0,400
A25R SVQC R/L 16	25	23	11,5	200	40	17	31	VC.. 1604..	0,700
A32S SVQC R/L 16	32	30	15,0	250	45	22	39	VC.. 1604..	1,400
A40T SVQC R/L 16	40	37	18,5	300	50	27	48	VC.. 1604..	2,650

Reference Bezeichnung					Nm
A16M SVQC R/L 11	1225	5507	-	-	0.9
A20Q SVQC R/L 11	1225	5507	-	-	0.9
A25R SVQC R/L 16	1335	5516	3718	1750	3.0
A32S SVQC R/L 16	1335	5516	3718	1750	3.0
A40T SVQC R/L 16	1335	5516	3718	1750	3.0

VC..

35° rhombic positive inserts with 7° clearance.
Rhombische positive WSP (35° Winkel) mit Freiwinkel 7°.  A48

Reference / Bez.	l	s	d
VC.. 1103..	11,00	3,18	6,35
VC.. 1604..	16,50	4,76	9,52



VCMT-AL



VCMT-AP



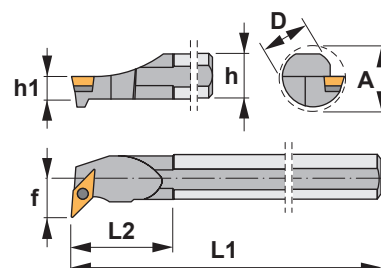
VCMT



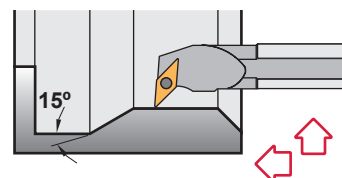
**Characteristics:**

Multipurpose profiling boring bar equipped with rhombic positive insert (angle 35°).
For boring bars with negative inserts see Ref. MVUN-K (Page: A184).

Axial 0°
Radial -5°

**Eigenschaften:**

Multifunktions-Bohrstange zum Profildrehen mit rhombischen positiven Wendeschneidplatten (35° Winkel). Für Bohrstan- gen mit negativen Wendeschneidplatten siehe MVUN-K (Seite: A184).



SVUB 93°

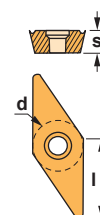
Reference Bezeichnung	D	h	h1	L1	L2	f	A	Insert size Wendeschneidplatte	Kg
S25T SVUB R/L 16	25	23	11,5	300	40	17	31	VBMT 1604..	0,700
S32U SVUB R/L 16	32	30	15,0	350	45	22	39	VBMT 1604..	2,050
S40V SVUB R/L 16	40	37	18,5	400	50	27	48	VBMT 1604..	3,750

Reference Bezeichnung					Nm
S25T SVUB R/L 16	1335	5516	3718	1750	3.0
S32U SVUB R/L 16	1335	5516	3718	1750	3.0
S40V SVUB R/L 16	1335	5516	3718	1750	3.0

VBMT

35° rhombic positive insert with 5° clearance. A48
35° rhombische positive Wendeschneidplatte mit 5° Freiwinkel.

Reference / Bez.	l	s	d
VBMT 1604..	16,50	4,76	9,52

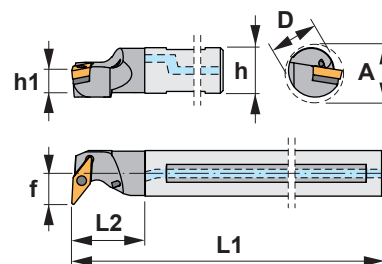
**VBMT**



Characteristics:

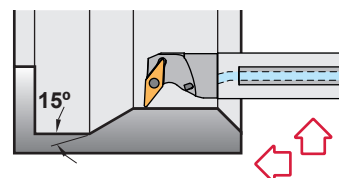
Multipurpose profiling boring bar equipped with rhombic positive insert (angle 35°).
For boring bars with negative inserts see Ref. MVUN-K (Page: A184).

Axial 0°
Radial -5°



Eigenschaften:

Multifunktions-Bohrstange zum Profildrehen mit rhombischen positiven Wendeschneidplatten (35° Winkel). Für Bohrstan- gen mit negativen Wendeschneidplatten siehe MVUN-K (Seite: A184).



A-SVUB 93°

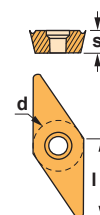
Reference Bezeichnung	D	h	h1	L1	L2	f	A	Insert size Wendeschneidplatte	Kg
A25R SVUB R/L 16	25	23	11,5	200	40	17	31	VBMT 1604..	0,700
A32S SVUB R/L 16	32	30	15,0	250	45	22	39	VBMT 1604..	1,400

Reference Bezeichnung					Nm
A25R SVUB R/L 16	1335	5516	3718	1750	3.0
A32S SVUB R/L 16	1335	5516	3718	1750	3.0

VBMT

35° rhombic positive insert with 5° clearance.
35° rhombische positive Wendeschneidplatte mit 5° Freiwinkel. A48

Reference / Bez.	l	s	d
VBMT 1604..	16,50	4,76	9,52



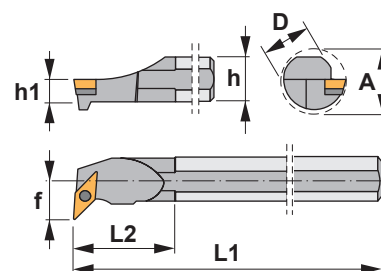
VBMT



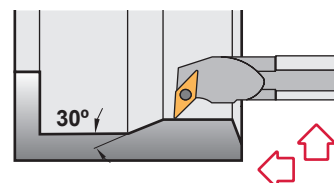
**Characteristics:**

Multipurpose profiling boring bar equipped with rhombic positive insert (angle 35°).
For boring bars with negative inserts see Ref. MVUN-K (Page: A184).

Axial 0°
Radial -5°

**Eigenschaften:**

Multifunktions-Bohrstange zum Profildrehen mit rhombischen positiven Wendeschneidplatten (35° Winkel). Für Bohrstan- gen mit negativen Wendeschneidplatten siehe MVUN-K (Seite: A184).



SVUC 93°

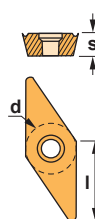
Reference Bezeichnung	D	h	h1	L1	L2	f	A	Insert size Wendeschneidplatte	Kg
S16R SVUC R/L 11	16	15	7,5	200	30	11	20	VC.. 1103..	0,300
S20S SVUC R/L 11	20	18	9,0	250	35	13	24	VC.. 1103..	0,550
S25T SVUC R/L 16	25	23	11,5	300	40	17	31	VC.. 1604..	0,700
S32U SVUC R/L 16	32	30	15,0	350	45	22	39	VC.. 1604..	2,050
S40V SVUC R/L 16	40	37	18,5	400	50	27	48	VC.. 1604..	3,750

Reference Bezeichnung					Nm
S16R SVUC R/L 11	1225	5507	-	-	0.9
S20S SVUC R/L 11	1225	5507	-	-	0.9
S25T SVUC R/L 16	1335	5516	3718	1750	3.0
S32U SVUC R/L 16	1335	5516	3718	1750	3.0
S40V SVUC R/L 16	1335	5516	3718	1750	3.0

VC..

35° rhombic positive inserts with 7° clearance.
Rhombische positive WSP (35° Winkel) mit Freiwinkel 7°. A48

Reference / Bez.	l	s	d
VC.. 1103..	11,00	3,18	6,35
VC.. 1604..	16,50	4,76	9,52

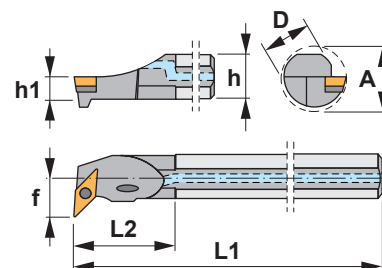
**VC GT-AL****VC GT-AP****VC MT**



Characteristics:

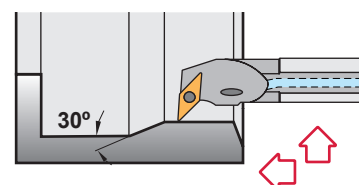
Multipurpose profiling boring bar equipped with rhombic positive insert (angle 35°). For boring bars with negative inserts see Ref. MVUN-K (Page: A184).

Axial 0°
Radial -5°



Eigenschaften:

Multifunktions-Bohrstange zum Profildrehen mit rhombischen positiven Wendeschneidplatten (35° Winkel). Für Bohrstan- gen mit negativen Wendeschneidplatten siehe MVUN-K (Seite: A184).



A-SVUC 93°

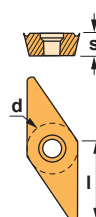
Reference Bezeichnung	D	h	h1	L1	L2	f	A	Insert size Wendeschneidplatte	kg
A16M SVUC R/L 11	16	15	7,5	150	30	11	20	VC.. 1103..	0,200
A20Q SVUC R/L 11	20	18	9,0	180	35	13	24	VC.. 1103..	0,400
A25R SVUC R/L 16	25	23	11,5	200	40	17	31	VC.. 1604..	0,700
A32S SVUC R/L 16	32	30	15,0	250	45	22	39	VC.. 1604..	1,400
A40T SVUC R/L 16	40	37	18,5	300	50	27	48	VC.. 1604..	2,650

Reference Bezeichnung					Nm
A16M SVUC R/L 11	1225	5507	-	-	0.9
A20Q SVUC R/L 11	1225	5507	-	-	0.9
A25R SVUC R/L 16	1335	5516	3718	1750	3.0
A32S SVUC R/L 16	1335	5516	3718	1750	3.0
A40T SVUC R/L 16	1335	5516	3718	1750	3.0

VC..

35° rhombic positive inserts with 7° clearance. A48
Rhombische positive WSP (35° Winkel) mit Freiwinkel 7°.

Reference / Bez.	l	s	d
VC.. 1103..	11,00	3,18	6,35
VC.. 1604..	16,50	4,76	9,52



VC GT-AL



VC GT-AP



VC MT



Machining recommendations Recomanacions per mecanitzat

Notes for anti-vibration shank Notes per mànec antivibratori

Centering line Línia de centratge

The anti-vibration bar is centered by taking as a reference the plane indicated by the arrow.
La barra antivibratòria es centra prenent com a referència el pla indicat per la fletxa.



Calibration procedure

The bars are supplied pre-calibrated, but a new, different calibration may be necessary, depending on the type of application.

The variables to consider are many:

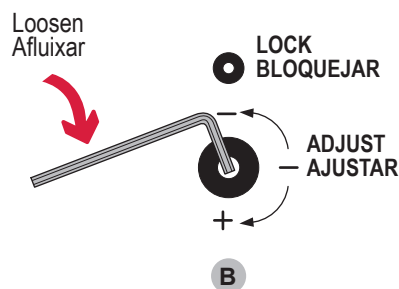
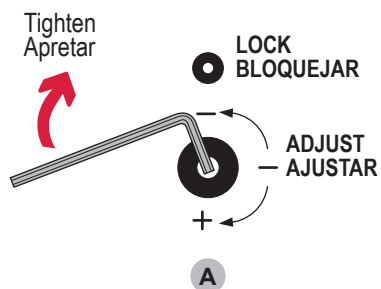
- Head type
- Insert type
- Material to be machined
- Cutting depth
- Speeds and feeds, etc.

Procediment de calibratge

Les barres s'entreguen calibrades, però pot ser que un nou calibratge sigui necessari depenent del tipus d'aplicació.

Les variables a considerar són diverses:

- Tipus de cap
- Tipus de plaqueta
- El material a mecanitzar
- Profunditat de tall
- Velocitats de tall i avanços, etc.



Machining recommendations Recomanacions per mecanitzat

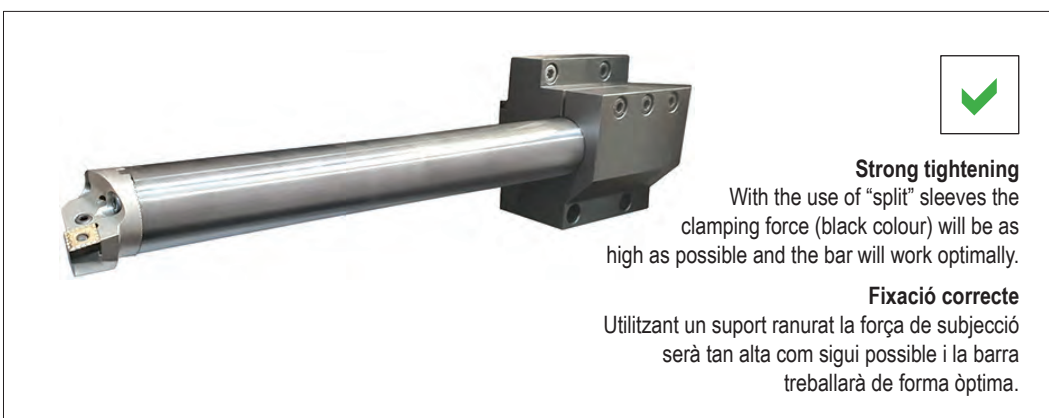
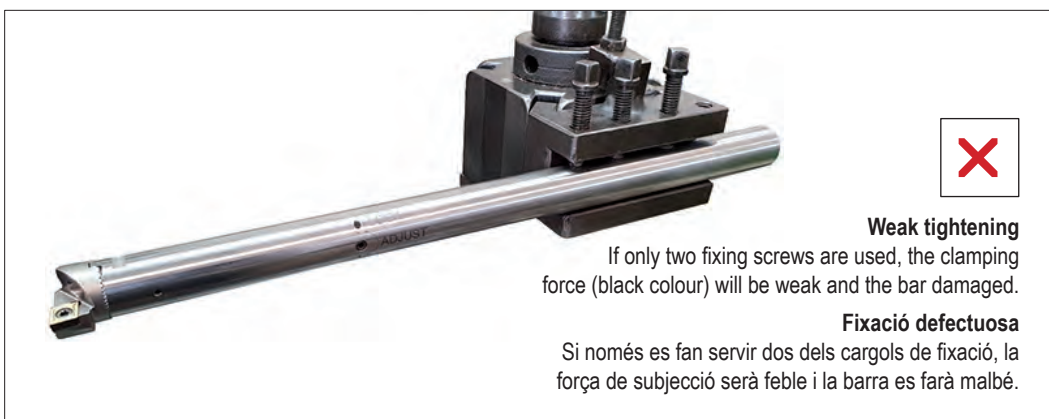
Notes for anti-vibration shank Notes per mànecs antivibratoris

Calibration procedure Procediment de calibratge



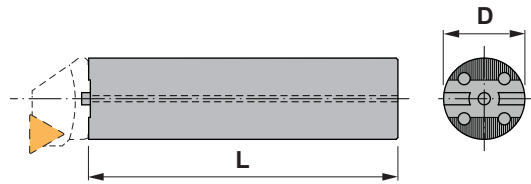
- 1 - Make sure that the LOCKING screw is loose.
 - 2 - Calibrate by turning the ADJUSTING screw by tightening or loosening.
 - A - If the frequency of the vibration produces a high sound, tighten the adjustment.
 - B - If the frequency of the vibration produces a low sound, loosen the adjustment.
 - 3 - Make sure that the LOCKING screw is tightened.
 - 4 - Try the tool and, if necessary, repeat the adjustments until you obtain satisfactory results.
- Use a **suitable sleeve** in order to have a vibration-free tool.

- 1 - Assegurar-se que el cargol de BLOQUEIG estigui fluix.
 - 2 - Calibrar girant el cargol de REGULACIÓ estrenyent-lo o afloixant-lo.
 - A - Si la freqüència de la vibració produeix un so alt, estrenyer el regulador.
 - B - Si la freqüència de la vibració produeix un so baix, afloixar el regulador.
 - 3 - Assegureu-vos que el cargol de BLOQUEIG està apretat.
 - 4 - Proveu l'eina, en cas necessari, repetir els ajustaments fins a obtenir resultats satisfactoris.
- Fer servir **un suport adequat** per tal de tenir una eina lliure de vibracions.





Characteristics:
Anti-vibration shank with internal coolant.
Max. cutting depth: 7 x Diameter



Eigenschaften:
Schwingungsgedämpfter Schaft mit Innenkühlung.
Maximale Schnittiefe: 7 x Durchmesser



Reference Bezeichnung		D	L	Thread Gewinde	
J25/300	25	25	300	1/4 GAS	1,200
J32/350	32	32	350	3/8 GAS	2,200
J40/400	40	40	400	1/2 GAS	4,000
J50/550	50	50	550	1/2 GAS	8,500
J60/650	60	60	650	3/4 GAS	14,400
J80/1000	60	80	1000	3/4 GAS	39,500
J100/1200	60	100	1200	3/4 GAS	74,000

Reference Bezeichnung			Nm
J25/300	1924	5025	2.0
J32/350	1925	5003	3.0
J40/400	1926	5004	3.5
J50/550	1928	5005	4.0
J60/650	1928	5005	4.0
J80/1000	1928	5005	4.0
J100/1200	1928	5005	4.0



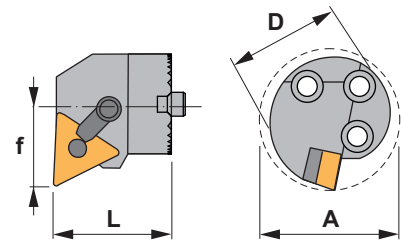
MTUN 93°-N	PCLN 95°-N	PDUN 93°-N	PWLN 95°-N
			
SCLC 95°-N	SDUC 93°-N	STFC 90°-N	SXTN 90°-N
			



Characteristics:

Internal turning and profiling boring head equipped with triangular negative double-sided insert.

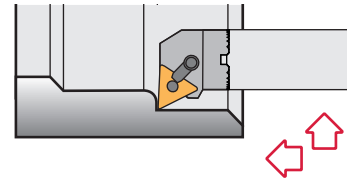
For general applications, roughing, semi-finishing and finishing.



Eigenschaften:

Bohrkopf zum Innen- und Profildrehen mit doppelseitigen dreikantigen negativen Wendeschneidplatten.

Für allgemeine Anwendungen, Schruppen, Vorschlichten und Schlichten.



MTUN 93°-N

Reference Bezeichnung	D	L	f	A	Insert size Wendeschneidplatte	kg
A32X MTUN R/L 16-N	32	30	22	40	TNM.. 1604..	0,150
A40X MTUN R/L 16-N	40	30	27	50	TNM.. 1604..	0,300
A50X MTUN R/L 16-N	50	30	35	63	TNM.. 1604..	0,650
A50X MTUN R/L 22-N	50	40	35	63	TNM.. 2204..	0,650
A60X MTUN R/L 22-N	60	40	43	80	TNM.. 2204..	0,850

Reference Bezeichnung	1	2	3	4	5	6	7	8	Nm ¹	Nm ²
A32X MTUN R/L 16-N	2613	-	5003	ITSN-322	1086	1665	-	5002	3.0	1.4
A40X MTUN R/L 16-N	2613	-	5003	ITSN-322	1086	1665	-	5002	3.0	1.4
A50X MTUN R/L 16-N	2613	-	5003	ITSN-322	1086	1665	-	5002	3.0	1.4
A50X MTUN R/L 22-N	-	2024	5005	ITSN-433	1394	-	1661	-	4.0	-
A60X MTUN R/L 22-N	-	2024	5005	ITSN-433	1394	-	1661	-	4.0	-

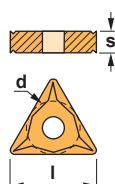
TNM..

Triangular negative inserts.
Dreikantige negative WSP. **i** A45-46

Reference / Bez.

l s d

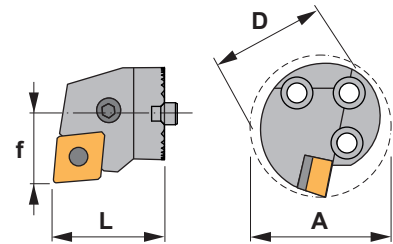
TNM.. 1604..	16,50	4,76	9,52
TNM.. 2204..	22,00	4,76	12,70



TNMA	TNMG-CC	TNMG-FC	TNMG-FMC	TNMG-KC
TNMG-MC	TNMG-MFC	TNMG-MHC	TNMG-TC	TNMX-R/L

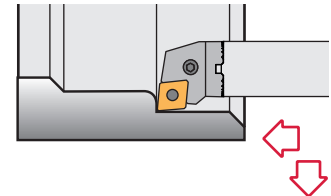
**Characteristics:**

Boring head for internal turning applications equipped with rhombic negative inserts (angle 80°). For low powered machines and small pieces choose boring bars Ref. A-SCLC (Page: A208).

**Eigenschaften:**

Bohrkopf zum Innendrehen mit rhombischen negativen Wendeschneidplatten (80° Winkel).

Für Niederleistungsmaschinen und kleine Werkstücke, wählen Sie Bohrstangen A-SCLC (Seite: A208).



PCLN 95°-N



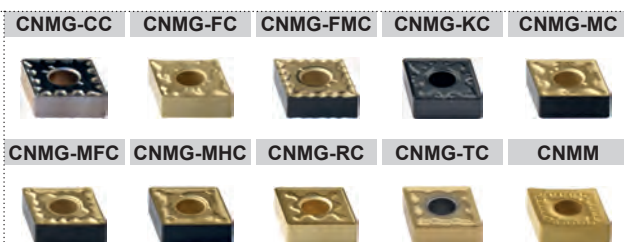
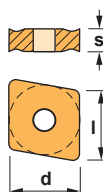
Reference Bezeichnung	D	L	f	A	Insert size Wendeschneidplatte	Kg
A25X PCLN R/L 12-N	25	30	17	32	CN.. 1204..	0,050
A32X PCLN R/L 12-N	32	30	22	40	CN.. 1204..	0,150
A40X PCLN R/L 12-N	40	30	27	50	CN.. 1204..	0,300
A50X PCLN R/L 12-N	50	30	35	63	CN.. 1204..	0,600
A60X PCLN R/L 12-N	60	40	43	80	CN.. 1204..	0,800
A50X PCLN R/L 16-N	50	40	35	63	CN.. 1606..	0,600
A60X PCLN R/L 16-N	60	40	43	80	CN.. 1606..	0,800

Reference Bezeichnung							Nm
A25X PCLN R/L 12-N	8212	1626	5025	-	-	-	2.0
A32X PCLN R/L 12-N	8312	1648	5003	3612	4112	0012	3.0
A40X PCLN R/L 12-N	8012	1608	5003	3612	4112	0012	3.0
A50X PCLN R/L 12-N	8012	1608	5003	3612	4112	0012	3.0
A60X PCLN R/L 12-N	8012	1608	5003	3612	4112	0012	3.0
A50X PCLN R/L 16-N	8016	1618	5003	3616	4115	0015	3.0
A60X PCLN R/L 16-N	8016	1618	5003	3616	4115	0015	3.0

CN..

80° rhombic negative inserts.
80° rhombische negative WSP. A32-34

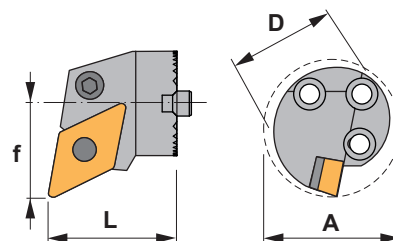
Reference / Bez.	l	s	d
CN.. 1204..	12,90	4,76	12,70
CN.. 1606..	16,10	6,35	15,88





Characteristics:

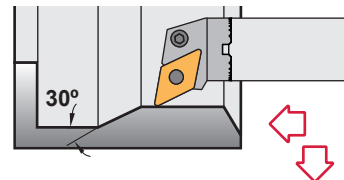
Boring head for internal turning and profiling applications equipped with rhombic negative inserts (angle 55°). For low powered machines and small pieces choose boring bars Ref. A-SDUC (Page: A218).



Eigenschaften:

Bohrkopf zum Innen- und Profildrehen mit rhombischen negativen Wendeschneidplatten (55° Winkel).

Für Niederleistungsmaschinen und kleine Werkstücke, wählen Sie Bohrstangen A-SDUC (Seite: A218).



PDUN 93°-N

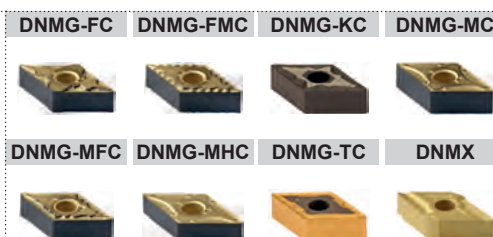
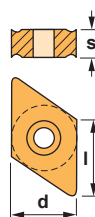
Reference Bezeichnung	D	L	f	A	Insert size Wendeschneidplatte	Kg
A32X PDUN R/L 15-N	32	35	22	40	DN.. 1506..	0,150
A40X PDUN R/L 15-N	40	30	27	50	DN.. 1506..	0,300
A50X PDUN R/L 15-N	50	40	35	63	DN.. 1506..	0,600
A60X PDUN R/L 15-N	60	40	43	80	DN.. 1506..	0,800

Reference Bezeichnung									Nm
A32X PDUN R/L 15-N	8415	1648	5003	3715	4112	0012	3725	4135	3.0
A40X PDUN R/L 15-N	8415	1638	5003	3715	4112	0012	3725	4135	3.0
A50X PDUN R/L 15-N	8415	1638	5003	3715	4112	0012	3725	4135	3.0
A60X PDUN R/L 15-N	8415	1638	5003	3715	4112	0012	3725	4135	3.0

For DNM.. 1504.. inserts
Für Wendeschneidplatten DNM.. 1504..

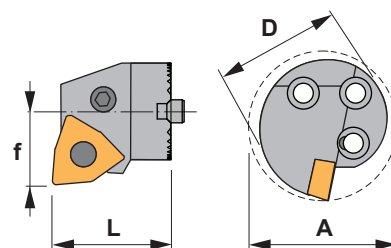
DN.. 55° rhombic negative inserts. 55° rhombische negative Wendeschneidplatten. A36-37

Reference / Bez.	l	s	d
DN.. 1504..	15,50	4,76	12,70
DN.. 1506..	15,50	6,35	12,70

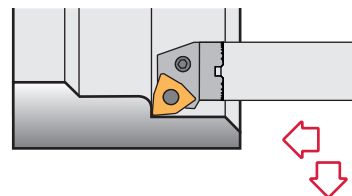


**Characteristics:**

Boring head for internal turning applications equipped with trigon negative inserts (angle 80°). For general applications, roughing, semi-finishing and finishing.

**Eigenschaften:**

Bohrkopf zum Innendrehen mit negativen Trigon Wendeschneidplatten (80° Winkel). Für allgemeine Anwendungen, Schrappen, Vorschlichten und Schlichten.



PWLN 95°-N

Reference Bezeichnung	D	L	f	A	Insert size Wendeschneidplatte	Kg
A32X PWLN R/L 08-N	32	30	22	40	WNM.. 0804..	0,150
A40X PWLN R/L 08-N	40	30	27	50	WNM.. 0804..	0,300
A50X PWLN R/L 08-N	50	40	35	63	WNM.. 0804..	0,600
A60X PWLN R/L 08-N	60	40	43	80	WNM.. 0804..	0,800

Reference Bezeichnung							Nm
A32X PWLN R/L 08-N	8012	1608	5003	3008	4112	0012	3.0
A40X PWLN R/L 08-N	8012	1608	5003	3008	4112	0012	3.0
A50X PWLN R/L 08-N	8012	1608	5003	3008	4112	0012	3.0
A60X PWLN R/L 08-N	8012	1608	5003	3008	4112	0012	3.0

WNMG

80° trigon negative inserts. A50-51
80° trigon negative Wendeschneidplatten.

Reference / Bez.

l

s

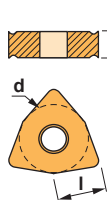
d

WNMG 0804..

8,14

4,76

12,70



WNMG-FC



WNMG-FMC



WNMG-KC



WNMG-MFC



WNMG-MC



WNMG-MHC



WNMG-TC

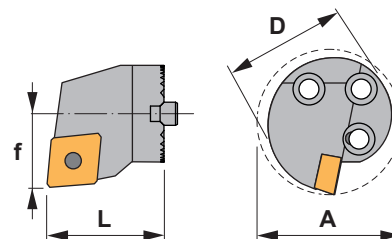




Characteristics:

Multipurpose boring head equipped with rhombic positive insert (angle 80°).

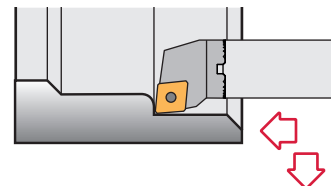
For boring bars with negative inserts see Ref. A-PCLN (Page: A189).



Eigenschaften:

Multifunktions-Bohrkopf mit rhombischen positiven Wendeschneidplatten (80° Winkel).

Für Bohrstangen mit negativen Wendeschneidplatten, siehe A-PCLN (Seite: A189).



SCLC 95°-N

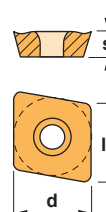


Reference Bezeichnung	D	L	f	A	Insert size Wendeschneidplatte	Kg
A25X SCLC R/L 09-N	25	25	17	32	CC.. 09T3..	0,070
A32X SCLC R/L 12-N	32	30	22	40	CC.. 1204..	0,150
A40X SCLC R/L 12-N	40	30	27	50	CC.. 1204..	0,250
A50X SCLC R/L 12-N	50	40	35	63	CC.. 1204..	0,650
A60X SCLC R/L 12-N	60	40	43	80	CC.. 1204..	0,850

Reference Bezeichnung					Nm
A25X SCLC R/L 09-N	1440	5515	-	-	3.0
A32X SCLC R/L 12-N	1540	5517	3614	1760	3.0
A40X SCLC R/L 12-N	1540	5517	3614	1760	3.0
A50X SCLC R/L 12-N	1540	5517	3614	1760	3.0
A60X SCLC R/L 12-N	1540	5517	3614	1760	3.0

CC.. 80° rhombic positive inserts with 7° clearance. A30-31
80° rhombische positive Wendeschneidplatten mit 7° Freiwinkel.

Reference / Bez.	l	s	d
CC.. 09T3..	9,65	3,97	9,52
CC.. 1204..	12,90	4,76	12,70



CCGT-AL



CCGT-AP



CCMT



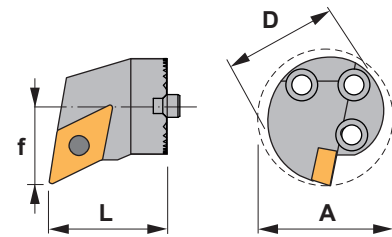
CCMW



**Characteristics:**

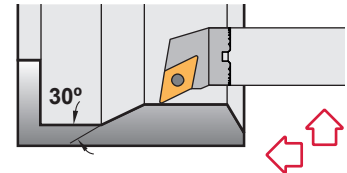
Multipurpose profiling boring head equipped with rhombic positive insert (angle 55°).

For boring bars with negative inserts see Ref. A-PDUN (Page: A191).

**Eigenschaften:**

Multifunktions-Bohrkopf zum Profildrehen mit rhombischen positiven Wendeschneidplatten (55° Winkel).

Für Bohrstangen mit negativen Wendeschneidplatten siehe A-PDUN (Seite: A191).



SDUC 93°-N

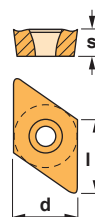


Reference Bezeichnung	D	L	f	A	Insert size Wendeschneidplatte	Kg
A25X SDUC R/L 11-N	25	25	17	32	DC.. 11T3..	0,070
A32X SDUC R/L 11-N	32	30	22	40	DC.. 11T3..	0,150
A40X SDUC R/L 11-N	40	30	27	50	DC.. 11T3..	0,250
A50X SDUC R/L 11-N	50	40	35	63	DC.. 11T3..	0,650
A60X SDUC R/L 11-N	60	40	43	80	DC.. 11T3..	0,850

Reference Bezeichnung					Nm
A25X SDUC R/L 11-N	1240	5515	-	-	3.0
A32X SDUC R/L 11-N	1335	5516	3714	1750	3.0
A40X SDUC R/L 11-N	1335	5516	3714	1750	3.0
A50X SDUC R/L 11-N	1335	5516	3714	1750	3.0
A60X SDUC R/L 11-N	1335	5516	3714	1750	3.0

DC.. 55° rhombic positive inserts with 7° clearance. A35
55° rhombische positive Wendeschneidplatten mit 7° Freiwinkel.

Reference / Bez.	l	s	d
DC.. 11T3..	11,60	3,97	9,52



DCGT-AL



DCGT-AP



DCMT



DCMW

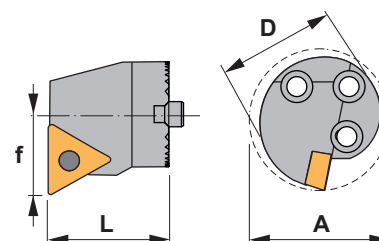




Characteristics:

Multipurpose boring head equipped with triangular positive insert.

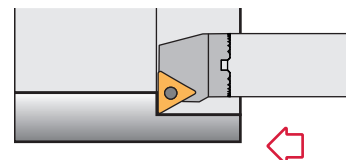
For general applications, roughing, semi-finishing and finishing.



Eigenschaften:

Multifunktions-Bohrkopf mit dreikantigen positiven Wendeschneidplatten.

Für allgemeine Anwendungen, Schruppen, Vorschlichten und Schlichten.



STFC 90°-N



Reference Bezeichnung	D	L	f	A	Insert size Wendeschneidplatte	Kg
A25X STFC R/L 16-N	25	25	17	32	TC.. 16T3..	0,070
A32X STFC R/L 16-N	32	30	22	40	TC.. 16T3..	0,150
A40X STFC R/L 16-N	40	30	27	50	TC.. 16T3..	0,250
A50X STFC R/L 16-N	50	40	35	63	TC.. 16T3..	0,650
A60X STFC R/L 16-N	60	40	43	80	TC.. 16T3..	0,850

Reference Bezeichnung					Nm
A25X STFC R/L 16-N	1240	5515	-	-	3.0
A32X STFC R/L 16-N	1335	5516	3414	1750	3.0
A40X STFC R/L 16-N	1335	5516	3414	1750	3.0
A50X STFC R/L 16-N	1335	5516	3414	1750	3.0
A60X STFC R/L 16-N	1335	5516	3414	1750	3.0

TC..

Triangular positive inserts with 7° clearance. A44
Dreikantige positive Wendeschneidplatten mit 7° Freiwinkel.

Reference / Bez.

l

s

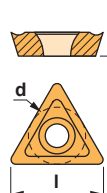
d

TC.. 16T3..

16,50

3,97

9,52



TCGT-AL

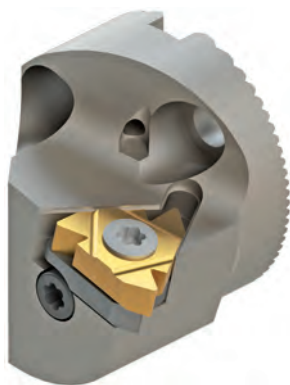


TCMT

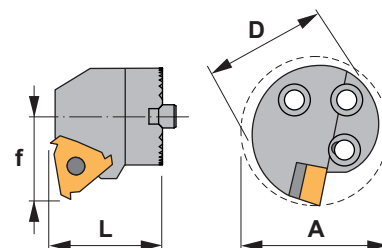


TCMW

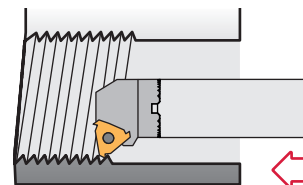


**Characteristics:**

Boring head for internal threading
equipped with triangular negative
insert.

**Eigenschaften:**

Multifunktions-Bohrkopf zum
Gewindedrehen mit dreikantigen
negativen Wendeschneidplatten.



STXN 90°-N



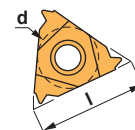
Reference Bezeichnung	D	L	f	A	Insert size Wendeschneidplatte	Kg
A25X STXN R/L 16-N	25	25	16,30	32	16 NR/L..	0,070
A32X STXN R/L 16-N	32	30	19,60	40	16 NR/L..	0,150
A32X STXN R/L 22-N	32	32	21,50	40	22 NR/L..	0,150
A40X STXN R/L 22-N	40	32	25,80	50	22 NR/L..	0,250
A50X STXN R/L 22-N	50	40	31,40	63	22 NR/L..	0,650
A60X STXN R/L 22-N	60	40	36,40	80	22 NR/L..	0,850

Reference Bezeichnung								Nm
A25X STXN R/L 16-N	SA3	5510	YE3	YI3	SY3			2.0
A32X STXN R/L 16-N	SA3	5510	YE3	YI3	SY3			2.0
A32X STXN R/L 22-N	SA4	5520	YE4	YI4	SY4			4.0
A40X STXN R/L 22-N	SA4	5520	YE4	YI4	SY4			4.0
A50X STXN R/L 22-N	SA4	5520	YE4	YI4	SY4			4.0
A60X STXN R/L 22-N	SA4	5520	YE4	YI4	SY4			4.0

N R/L

Triangular negative inserts for internal threading.
Dreikantige negative WSP zum Innen-Gewindedrehen. C04, C06-07, C09-10

Reference / Bez.	l	d
16 NR/L..	16,00	9,52
22 NR/L..	22,00	12,70

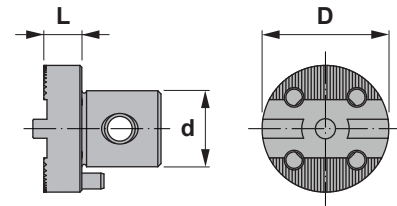
**N R/L****N R/L TD**



Characteristics:

Adaptor for anti-vibration shank with internal coolant.

To adapt the new boring heads to the old model of anti-vibration shanks.



Eigenschaften:

Adapter für schwingungsgedämpfte Schäfte mit Innenkühlung.

Um die neue Bohrköpfe an das alte Modell der schwingungsgedämpften Schäfte zu montieren.

J..-A..  

Reference Bezeichnung	D	L	d	
J25-A25	25	12	15	0,060
J32-A32	32	12	20	0,100
J40-A40	40	12	24	0,180
J50-A50	54	16	28	0,350
J60-A60	60	16	28	0,460

Reference Bezeichnung			Nm
J25-A25	1924	5025	2.0
J32-A32	1925	5003	3.0
J40-A40	1926	5004	3.5
J50-A50	1928	5005	4.0
J60-A60	1928	5005	4.0



MTUN 93°-N	PCLN 95°-N	PDUN 93°-N	PWLN 95°-N
			
SCLC 95°-N	SDUC 93°-N	STFC 90°-N	STXN 90°-N
			

**Nominal cutting speed and feed values for boring bars**

Material	P	HB	Condition	Cutting speed m/min.						Specific cutting force Kc 0,4
				PM25	PM40	NC25	TN15	TN20	TN30	
				0.3-0.6-1.2		0.1-0.3	0.1-0.4-0.8	0.1-0.4-0.8	0.2-0.5-1.2	
Unalloyed steel		125 150 200	C=0.15% C=0.35% C=0.60%	150 115 80 145 105 70 115 90 65		350 280 270 230 240 190	480 345 250 440 315 230 385 275 200	440 300 205 400 275 190 350 240 165	330 230 110 300 210 150 260 185 130	1900 2100 2250
Low alloyed steel		180 275 300 350	Annealed Hardened Hardened Hardened	90 70 45 65 45 30 60 40 25 50 35 20		300 260 220 140 230 180 220 140	380 265 195 260 180 130 240 165 120 210 145 105	320 220 170 215 150 115 200 135 105 170 120 90	200 140 100 140 100 70 125 90 60 110 75 55	2100 2600 2700 2850
High alloyed steel		200 325	Annealed Hardened	80 60 45 40 25 20		200 160 200 160	350 230 170 170 110	280 185 135 120 80 60	175 115 80 85 55 40	2600 3900
Stainless steel		200	Martensitic / ferritic	110 95 75		270 130	295 240 190	275 210 165	225 180 145	2300
Steel castings		180 200 225	Unalloyed Low alloyed High alloyed	60 50 35 50 45 30 40 30 20		300 260 230 180 220 140	260 185 145 230 160 120 190 130 95	230 160 120 190 125 85 170 115 80	135 105 75 120 90 60 95 70 55	2000 2500 2700

Material	M	HB	Condition	Cutting speed m/min.							Specific cutting force Kc 0,4	
				PM25	NC25	TN15	TN20	TN30	TN35	TS15		TS20
				0.1-0.3	0.1-0.3	0.1-0.4-0.8		0.2-0.4-0.6	0.2-0.4-0.6	0.1-0.3		
Stainless steel annealed		180	Austenitic Ni > 8%, Cr 12-25% austenitic/ ferritic, austenitic/ ferritic, low S		240 200 160 130 160 130	180 150 120 180 150 120 180 150 120		190 160 130 190 160 100 140 110	190 160 130 190 160 130 160 130 100	240 200 160 130 160 130	120 180 130 220 120 180	2450

Material	K	HB	Condition	Cutting speed m/min.						Specific cutting force Kc 0,4
				KM15	NC25	TN15	TN20	TK15	ZR10	
				0.2-0.5-1.0	0.2-0.5	0.2-0.5-1.0		0.2-0.5-1.0	0.2-0.5-1.0	
Hardened steel		350 250	Hardened steel Manganese steel 12%	27 16 10 65 40 16		175 145 100 120 85 50		180 150 110 120 90 60		4500 3600
Malleable cast iron		130 230	Ferritic Pearlitic	105 75 45 80 60 30		225 150 90 155 95 55		250 180 100 160 100 60		1100 1100
Cast iron		180 260	Low tensile strength High tensile strength	135 95 60 95 65 40	300 200 250 180	165 110 70 120 90 55		180 120 80 140 105 60		1100 1500
Nodular SG iron		160 250	Ferritic Pearlitic	115 80 45 80 50 30	250 180 180 120			220 180 100 150 100 50		1100 1800
Chilled cast iron		400		17 11				17 11		3000

Material	N	HB	Condition	Cutting speed m/min.						Specific cutting force Kc 0,4
				KM15	TK15	NC25	TN15	TN20	ZR10	
				0.2-0.5-1.0	0.2-0.5-1.0	0.2-0.5	0.2-0.5-1.0		0.2-0.5-1.0	
Aluminium alloys		60 100	Non heat treatable Heat treatable	1750 1280 800 510 370 250					1750 1280 800 510 370 250	500 800
Aluminium alloys (cast)		75 90	Non heat treatable Heat treatable	460 285 175 300 180 110					460 285 175 300 180 110	750 900
Bronze-brass alloys		110 90 100	Lead alloys, Pb>1% Brass and bronze Inc. electrolytic copper	610 430 295 310 250 195 225 160 115					610 430 295 310 250 195 225 160 115	700 750 1750
Other materials			Hard plastics Fibre Hard rubber	380 240 190 120 225 160					380 240 190 120 225 160	

Material	S	HB	Condition	Cutting speed m/min.						Specific cutting force Kc 0,4
				KM15	NC25	TN15	TS15	TS20	ZR10	
				0.2-0.5-1.0	0.2-0.5	0.2-0.5-1.0			0.2-0.5-1.0	
Heat-resistant alloys			Fe-base Nickel or cobalt base Nickel or cobalt base Nickel or cobalt base					80 120 60 100 35 90 30 50		
Titanium alloys			Titanium					70 120		

Nennschnittgeschwindigkeit und Vorschub-Werte für Bohrstan- gen

Materialien	P	HB	Beschaffenheit	Schnittgeschwindigkeit m/min.						Spezifische Schnittkraft Kc 0,4
				PM25	PM40	NC25	TN15	TN20	TN30	
				0.3-0.6-1.2		0.1-0.3	0.1-0.4-0.8	0.1-0.4-0.8	0.2-0.5-1.2	
Unlegierter Stahl		125 150 200	C=0.15% C=0.35% C=0.60%	150 115 80 145 105 70 115 90 65		350 280 270 230 240 190	480 345 250 440 315 230 385 275 200	440 300 205 400 275 190 350 240 165	330 230 110 300 210 150 260 185 130	1900 2100 2250
Niedriglegierter Stahl		180 275 300 350	Geglüht Vergütet Vergütet Vergütet	90 70 45 65 45 30 60 40 25 50 35 20		300 260 220 140 230 180 220 140	380 265 195 260 180 130 240 165 120 210 145 105	320 220 170 215 150 115 200 135 105 170 120 90	200 140 100 140 100 70 125 90 60 110 75 55	2100 2600 2700 2850
Hochlegierter Stahl		200 325	Geglüht Vergütet	80 60 45 40 25 20		200 160 200 160	350 230 170 170 110	280 185 135 120 80 60	175 115 80 85 55 40	2600 3900
Rostfreier Stahl		200	Martensitisch/ Ferritisch	110 95 75		270 130	295 240 190	275 210 165	225 180 145	2300
Stahlguß		180 200 225	Unlegiert Niedriglegiert Hochlegiert	60 50 35 50 45 30 40 30 20		300 260 230 180 220 140	260 185 145 230 160 120 190 130 95	230 160 120 190 125 85 170 115 80	135 105 75 120 90 60 95 70 55	2000 2500 2700

Materialien	M	HB	Beschaffenheit	Schnittgeschwindigkeit m/min.							Spezifische Schnittkraft Kc 0,4	
				PM25	NC25	TN15	TN20	TN30	TN35	TS15		TS20
				0.1-0.3	0.1-0.3	0.1-0.4-0.8		0.2-0.4-0.6	0.2-0.4-0.6	0.1-0.3		
Rostfreier Stahl, geglüht		180	Austenitisch Ni > 8%, Cr 12-25% Austenitisch/ Ferritisch, Austenitisch/ Ferritisch, niedriger S-Anteil		240 200 160 130 160 130	180 150 120 180 150 120 180 150 120		190 160 130 190 160 100 140 110	190 160 130 190 160 130 160 130 100	240 200 160 130 160 130	120 180 130 220 120 180	2450

Materialien	K	HB	Beschaffenheit	Schnittgeschwindigkeit m/min.						Spezifische Schnittkraft Kc 0,4
				KM15	NC25	TN15	TN20	TK15	ZR10	
				0.2-0.5-1.0	0.2-0.5	0.2-0.5-1.0		0.2-0.5-1.0	0.2-0.5-1.0	
Gehärteter Stahl		350 250	Vergüteter Stahl Mangan-Stahl 12%	27 16 10 65 40 16		175 145 100 120 85 50		180 150 110 120 90 60		4500 3600
Temperguß		130 230	Ferritisch Perlitisch	105 75 45 80 60 30		225 150 90 155 95 55		250 180 100 160 100 60		1100 1100
Guß		180 260	Niedrige Zugfestigkeit Hohe Zugfestigkeit	135 95 60 95 65 40	300 200 250 180	165 110 70 120 90 55		180 120 80 140 105 60		1100 1500
SG-Kugelgraphitguß		160 250	Ferritisch Perlitisch	115 80 45 80 50 30	250 180 180 120			220 180 100 150 100 50		1100 1800
Kaltverfestigender Guß		400		17 11				17 11		3000

Materialien	N	HB	Beschaffenheit	Schnittgeschwindigkeit m/min.						Spezifische Schnittkraft Kc 0,4
				KM15	TK15	NC25	TN15	TN20	ZR10	
				0.2-0.5-1.0	0.2-0.5-1.0	0.2-0.5	0.2-0.5-1.0		0.2-0.5-1.0	
Aluminium-Legierungen		60 100	Nicht warmbehandelbar Warmbehandelbar	1750 1280 800 510 370 250					1750 1280 800 510 370 250	500 800
Gegossene Aluminium-Legierungen		75 90	Nicht warmbehandelbar Warmbehandelbar	460 285 175 300 180 110					460 285 175 300 180 110	750 900
Bronze- und Messinglegierungen		110 90 100	Bleilegierungen, Pb>1% Messing, Bronze Elektrolytkupfer	610 430 295 310 250 195 225 160 115					610 430 295 310 250 195 225 160 115	700 750 1750
Andere Materialien			Hartkunststoff Faser Hartgummi	380 240 190 120 225 160					380 240 190 120 225 160	

Materialien	S	HB	Beschaffenheit	Schnittgeschwindigkeit m/min.					Spezifische Schnittkraft Kc 0,4
				KM15	NC25	TN15	TS15	TS20	
				0.2-0.5-1.0	0.2-0.5	0.2-0.5-1.0			
Wärmefeste Legierungen			Fe-Basis Nickel- und Kobalthaltig Nickel- und Kobalthaltig Nickel- und Kobalthaltig					80 120 60 100 35 90 30 50	
Titan-Legierungen			Titan					70 120	

