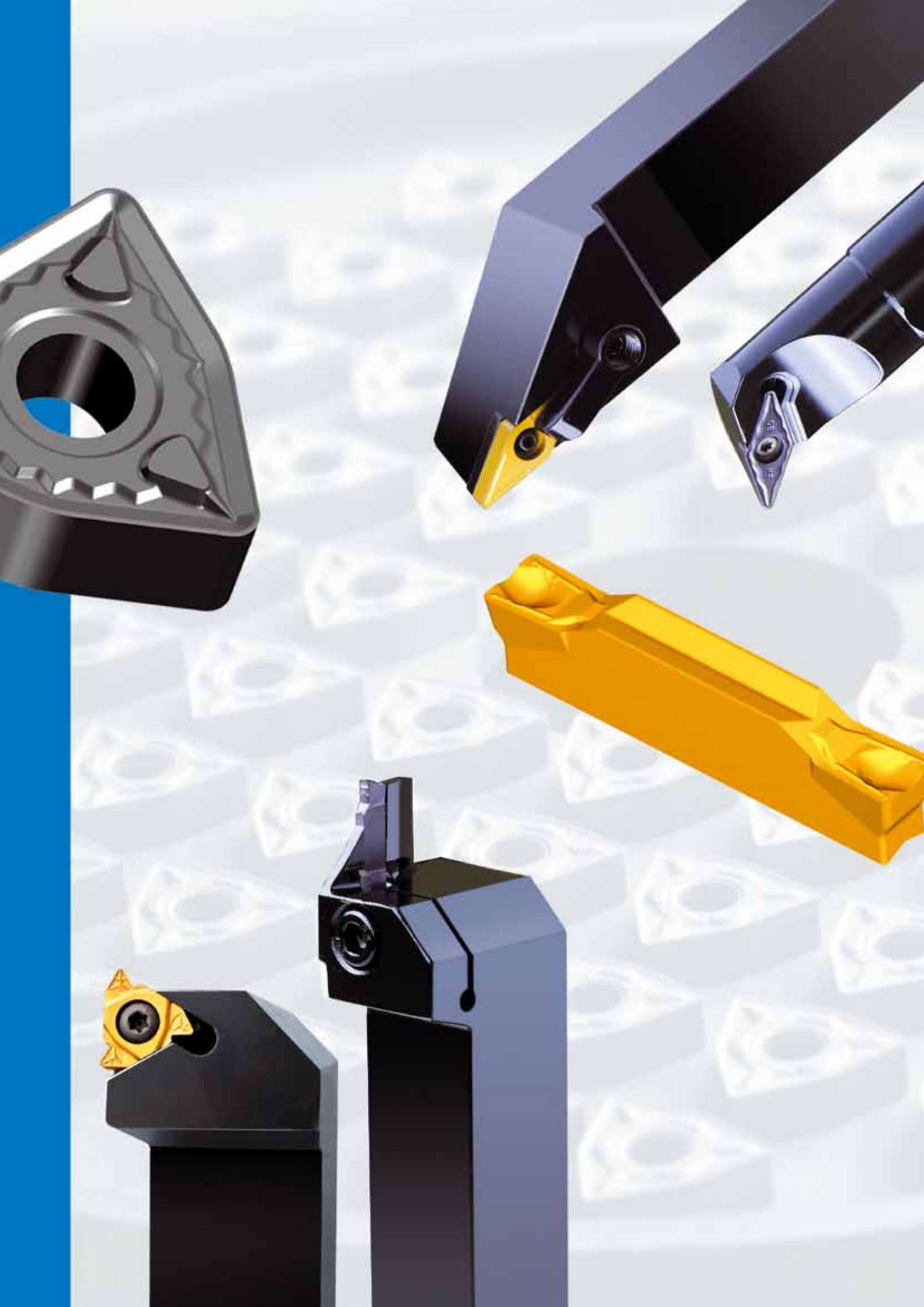


A Turning Drehen A1-A310	General Turning Allgemeine Drehbearbeitung	A 1 - A 253
	Parting and Grooving Ab- und Einstechen	A 254 - A 290
	Thread Turning Gewindedrehen	A 291 - A 323
B Milling Fräsen B1-B290	Milling Indexable Tools Fräsen - WSP· Werkzeuge	B 1 - B 187
	Milling - Solid Carbide Endmills Fräsen VHM - Schafffräser	B 188 - B 374
C Drilling Bohren C1-C147	Drilling - Solid Carbide Drills Bohren - VHM Bohrer	C 6 - C 93
	Drilling Indexable Tools Bohren - WSP· Werkzeuge	C 95 - C 105
Reaming Reiben	Reaming Reiben	C 106 - C 116
Threading Gewinde	Threading - Solid Carbide Tools Gewinde - VHM Gewindebohrer	C 118 - C 124
	Solid carbide Threading end mills Gewindefräsen - VHM Gewindefräser	C 125 - C 128
D	Tooling Systems Werkzeugsysteme	D 1 - D 38
E	General Technical Information Allgemeine Technische Informationen	E 1 - E 20
Index		01 - 03



Turning · Drehen

Turning Insert (Overview)
Turning Tools (Overview)
Recommended Grades for Turning

A4-A9
A10-A13
A14

Schneidplatten zum Drehen (Übersicht)
Halter zum Drehen (Übersicht)
Empfohlene Sorten für die Drehbearbeitung

Chip breaker Overview and Description
Grade Description
ISO indexable insert code key
Application instruction of general turning

A16-30
A31-40
A42-43
A44-A45

Spanbrecher Übersicht und Beschreibung
Sortenbeschreibung
ISO Kennzeichnung für Schneidplatten
Allgemeine Anwendungsempfehlung (Drehen)

ISO Turning Inserts
Carbide and Cermet Inserts
PCBN & PCD Inserts
Ceramic Insert

A46-A146
A46-A112
A113-A135
A136-A146

ISO Wendeschneidplatten zum Drehen
Hartmetall und Cermet WSP
PCBN & PKD Wendeschneidplatten
Keramik Wendeschneidplatten

Turning Tool Holder
External Turning Tools
Internal Turning Tools
Recommended cutting parameters

A147-A253
A147-A210
A211-A248
A249-A253

Drehwerkzeuge
Halter für **Außenbearbeitung**
Halter für **Innenbearbeitung**
Empfohlene Schnittdaten (Drehen)

Parting, Grooving Tools
Parting, Grooving Tool (Overview)
ISO Parting, Grooving insert code key
Parting, Grooving Inserts
Parting, Grooving Holder
Parting, Grooving Cutting Condition

A254-A290
A255-A259
A260
A261-A268
A269-A288
A289-A290

Ab- und Einstech-Werkzeuge
Ab- und Einstechen (Übersicht)
ISO Kennzeichnung für Stechplatten
WSP zum Ab- und Einstechen
Halter zum Ab- und Einstechen
Ab- und Einstechen Schnittdatenempfehlung

Threading Tools
Threading Tools (Overview)
ISO Threading inserts code key
Threading Inserts
ISO tools code key
Threading Cutting Conditions

A291-A316
A292-A294
A295
A296-A302
A303
A304-A305

Gewindedreh-Werkzeuge
Klemmhalter zum Gewindedrehen (Übersicht)
ISO Kennzeichnung für Gewindeplatten
Gewindedrehplatten
ISO Kennzeichnung für Gewindehalter
Gewindedrehen
Schnittdatenempfehlung
Empfohlene Schnittdaten (Gewindebearb.)

Recommend Cutting datas

A306-A316

























General Technical Info. for Turning

A317-323

Allgemeine Technische Info. zum Drehen

Carbide and Cermet Inserts - Hartmetall- und Cermet-WSP
















Finishing · Schlichten

									Edge length · Kantenlänge Page · Seite
CNMG-DF	CNMG-SF	CNMG-EF	CNEG-NF	DNMG-DF	DNMG-FM	DNMG-SF	DNMG-EF	DNEG-NF	
09,12	09,12	09,12	12	11,15	15	11,15	11,15	15	
A46	A46	A46	A47	A53	A54	A53	A54	A54	
									Edge length · Kantenlänge Page · Seite
SNMG-DF	SNMG-EF	SNMG-SF	TNMG-DF	TNMG-FM	TNMG-SF	TNMG-EF			
09,12	09,12,15	09,12,15	16,22	16	11,16,22	11,16,22			
A59	A59	A60	A68	A69	A68	A68			
									Edge length · Kantenlänge Page · Seite
VNMG-DF	VNMG-EF	VNEG-NF	VNMG-SF	WNMG-DF	WNMG-SF	WNMG-EF	WNEG-NF		
16	16	16	16	06,08	06,08	06,08	08		
A74	A74	A74	A74	A76	A77	A77	A77		

Wiper





				Edge length · Kantenlänge Page · Seite
CNMG-WG	DNMX-WG	TNMX-WG	WNMG-WG	
12,16	11,15	16	06,08	
A46	A53	A68	A76	

Medium Cutting · Mittlere Bearbeitung






					Edge length · Kantenlänge Page · Seite
CNMG-PM	CNMG-DM	CNMG-EM	CNMG-NM	CNMG	
09,12,16,19	09,12,16,19	12,16	12	12,16,19	
A47	A48	A48	A49	A51	
					Edge length · Kantenlänge Page · Seite
DNMG-PM	DNMG-DM	DNMG-EM	DNMG-NM	DNMG	
11,15	11,15	11,15	15	15,19	
A54-A55	A55	A56	A56	A58	
					Edge length · Kantenlänge Page · Seite
SNMG-PM	SNMG-DM	SNMG-EM	SNMG-NM	SNMG	
09,12,15,19	09,12,15,19	12,15	12	09,12,15,19,25	
A60	A61	A61	A62	A65	

Double Side Negative Inserts
Doppelseitige negative Platten






Medium Cutting · Mittlere Bearbeitung

			
TNMG-PM	TNMG-DM	TNMG-EM	TNMG
11,16,22	11,16,22	16,22	11,16,22,27,33
A69	A69	A70	A72

Edge length ·
Kantenlänge
Page ·
Seite







				
VNMG-PM	VNMG-DM	VNMG-EM	VNMG-NM	VNMG
16	16	16	16	16
A75	A75	A75	A75	A75

Edge length ·
Kantenlänge
Page ·
Seite

				
WNMG-PM	WNMG-DM	WNMG-EM	WNMG-NM	RNMG
06,08	06,08	06,08	08	12
A78	A78	A78	A79	A80

Edge length ·
Kantenlänge
Page ·
Seite

Medium to Rough Cutting · Mittlere bis Schruppbearbeitung

					
CNMA	DNMA	SNMA	SNGN-SNUN	TNMA	WNMA
12,16,19	11,15	09,12,15,19	09,12,15,19,25	16,22,27	06,08
A51	A57	A66	A67	A73	A79

Edge length ·
Kantenlänge
Page ·
Seite








Roughing · Schruppen

							
CNMG-DR	CNMG-ER	DNMG-DR	DNMG-ER	SNMG-DR	SNMG-ER	TNMG-DR	TNMG-ER
12,16,19	12,16,19	15	15	12,15,19	12,15,19	16,22,27	16,22
A49	A50	A56	A58	A62	A63	A70	A71


WNMG-DR
06,08
A79

Edge length ·
Kantenlänge
Page ·
Seite

Roughing · Schruppen

						
CNMM-DR	CNMM-ER	CNMM-HDR	CNMM	DNMM-DR	DNMM-ER	DNMM-HDR
12,16,19,25	25	12,16,19	12,19	15	15	15
A50	A50	A50	A52	A58	A58	A58








Edge length ·
Kantenlänge
Page ·
Seite

Turning · Drehen

Turning Inserts Overview · WSP Übersicht

Single Side Negative Inserts
Einseitige Negative Platten








Roughing · Schruppen

						
SNMM-DR	SNMM-ER	SNMM-HDR	SNMM	TNMM-DR	TNMM-HDR	TNMM
12,15,19,25	25	12,15,19,25	09,12,19,25	16,22,27	16,22,27	16,22,27
A62-A63	A63	A64	A65-66	A71	A72	A73

Edge length ·
Kantelänge
Page ·
Seite

Special Inserts
Spezielle Drehplatten









Roughing · Schruppen

						
175.32-28	175.32-22-227	175.32-24	175.32-25	KNUX	TNMX	YNMX-YNUX
19	19	19,30	19	16	11,15	18,25
A82	A82	A82	A82	A81	A83	A83



Edge length ·
Kantelänge
Page ·
Seite

Single Side Positive Inserts
Einseitige positive Wendeschneidplatten

Fine Finishing · Feinstbearbeitung









							
CCGT-SF	DCGT-SF	TCGT-SF	VCGT-SF	VBGT-SF	CPGT-SF	DPGT-SF	TPGT-SF
06,09	07,11	06,09,11	11,16	11	06,09	07,11	09,11
A84	A88	A98	A106	A108	A87	A91	A103

Edge length ·
Kantelänge
Page ·
Seite









	
TBGH-L	TPGH-L
06	09,11
A97	A103

Edge length ·
Kantelänge
Page ·
Seite

Finishing · Schlichten









							
CCMT-HF	CCMT-EF	CPGT	DCMT-HF	DCMT-EF	SCMT-HF	SCMT-EF	TCMT-HF
06,09,12	06,09,12	05	07,11	07,11	09	09	06,09,11,16
A84	A85	A84	A88	A89	A94	A94	A99

Edge length ·
Kantelänge
Page ·
Seite

							
TCMT-EF	VCGT	VCGT-HF	VCGT-NF	VBMT-HF	VBMT-EF	VBMT-53	VBET-NF
09,11,16	13	11	16	11	11,16	16	16
A100	A106	A106	A106	A108	A108	A108	A108






Edge length ·
Kantelänge
Page ·
Seite

Medium Cutting · Mittlere Bearbeitung


							
CCMT-HM	CCMT-EM	DCMT-HM	DCMT-EM	SCMT-HM	SCMT-EM	TCMT-HM	VCMT-EM
06,09,12	06,09,12	07,11	07,11	09,12	09,12	09,11,16	16
A85	A85	A89	A89	A94	A94	A101	A110

Edge length ·
Kantelänge
Page ·
Seite

Roughing · Schruppen







				
CCMT-HR	DCMT-HR	SCMT-HR	TCMT-HR	VBMT-HR
06,09,12	11	09,12	09,11,16,22	16
A86	A90	A95	A101	A109
Edge length · Kantenlänge				
Page · Seite				

Flat Inserts · WSP ohne Spanbrecher






						
CCMW	DCMW	SCMW	TCMW	VBMW	CPGW	DPMW
06,09,12	07,11	06,09,12	11,16,22	16	06	11
A86	A90	A95	A102	A109	A87	A91
Edge length · Kantenlänge						
Page · Seite						

			
SPMW	TPGA	TPGB	TPGW
09,12	09,11,16	09,27	09,11,16,22
A96	A104	A105	A105
Edge length · Kantenlänge			
Page · Seite			

Aluminium machining · Aluminiumbearbeitung

					
CCGX-LH	DCGX-LH	RCGX-LH	SCGX-LH	TCGX-LH	VCGX-LH
06,09,12	07,11	08	09,12	09,11,16	11,16,22
A86	A90	A92	A95	A101	A107
Edge length · Kantenlänge					
Page · Seite					

Special Inserts · Spezielle Wendeschneidplatten





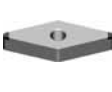

				
RCM(GT)	RCMX	SCMT	TCMT	WCMX-53
08,10,12,16,19	08,10,12,16,20,25,32	09,12	22	04,06,08
A92	A93	A95	A102	A111
Edge length · Kantenlänge				
Page · Seite				

Turning · Drehen

Turning Inserts Overview · WSP Übersicht





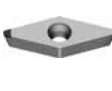
Negative Inserts
Negative WSP

PCBN & PCD




					
CNGA	DNGA	SNGA	TNGA	VNGA	WNGA
12	15	12	16	16	08 16
A118	A119	A120	A121	A122	A122

Edge length ·
Kantelänge
Page ·
Seite

Positive Inserts
Positive WSP

				
CCGW	DCGW	TCGW	VBGW	VCGW
06,09,12	07,11	11,16	16	16
A123	A124	A125	A126	A126

Edge length ·
Kantelänge
Page ·
Seite

				
CCMT	CCMW	DCMT	DCMW	TCMT
06,09,12	06,09,12	07,11	07,11	11,16
A127	A128	A129	A130	A131









Edge length ·
Kantelänge
Page ·
Seite

				
TCMW	VBMT	VBMW	VCMT	VCMW
11,16	16	16	16	16
A132	A133	A133	A134	A134






Edge length ·
Kantelänge
Page ·
Seite

Ceramic Inserts · Keramik Wendeschneidplatten

Negative Inserts
Negative WSP

							
CNGA	CNGN	CNGX	DNGA	DNGN	DNGX	SNGA	SNGX
12,16	12,16	12	15	15	15	12	12
A138	A139	A140	A140	A141	A141	A142	A142

Edge length ·
Kantelänge
Page ·
Seite







				
SNGN	TNGA	TNGN	WNGA	RNGN
09,12,15,19,25	16,22	16,22	08	09,12,15,19,25
A143	A144	A145	A146	A146

Edge length ·
Kantelänge
Page ·
Seite




Parting and grooving · Ab- und Einstechen

Little Squirrel Series · zusätzliche Wendeschneidplatten







							
ZPD-MG	ZP□D-MG	ZP□S-MG	ZT□D-MG	ZTBD-MG	ZT□S-MG	ZT□D-EG	
2.5,3,4,5,6	2.5,3	2.5,3,4,5,6	2.5,3,4,5,6	2	5,6	1-2.4	Width · Breite
A261	A262	A261	A263	A262	A263	A263	Page · Seite

						
ZT□D-EG	ZIMF-NM	ZR□D-MG	ZR□D-EG	ZIGQ-NM	ZR□D-LH	
2.4-6.5	3,4,5,6	2.5,3,4,5,6	3,4,5,6	3,4,5,6	6,8	Width · Breite
A263	A265	A264	A264	A266	A266	Page · Seite

Complementary Inserts · ergänzende Stechplatten

			
154.3	ZQMX-1E	ZSM□R/L	
1.1,1.3,1.6,1.85,2.15,3.15	3.125,4.125,5.125,6.4,7.05	1.1,1.3,1.6,1.85,2.15,2.65,5.5,15	Width · Breite
A267	A267	A268	Page · Seite

Threading Insert · Gewindeplatten

ISO metric ISO metrisch		Partial-Profile 60°·55° Teil-Profil 60°·55°		Whitworth Rohrgewinde		
						
External thread Außengewinde	Internal thread Innengewinde	External thread Außengewinde	Internal thread Innengewinde	External thread Außengewinde	Internal thread Innengewinde	
1~6	1~6	0.5~5	0.5~5	8~16	8~16	Pitch · Steigung
A296	A297	A298	A298	A299	A299	Page · Seite







UN Unified Conventional Thread Gewindeform UN 60°amerikanisch		BSPT Britain Standard Taper Pipe Thread Rohrgewinde für Dampf-, Gas-, & Wasserleitungen		NPT American Standard Amerikanisches kegeliges Rohrgewinde		
						
External Threads Außengewinde	Internal Threads Innengewinde	External Threads Außengewinde	Internal Threads Innengewinde	External Threads Außengewinde	Internal Threads Innengewinde	
8~20	8~20	11~28	11~28	8~27	8~27	Pitch · Steigung
A300	A300	A301	A301	A302	A302	Page · Seite

Illustration Shows the right hand type · Die Illustration zeigt die Rechtsausführung.

Turning · Drehen

Turning Toolholder Overview · Halter zum Drehen Übersicht

External Turning Holder · Halter zur Außenbearbeitung

P-type Clamping (lever) · P Halter (Kniehebel)

						
Angle-Winkel 75°	95°	93°	63°	75°	45°	75°
Page-Seite A158	A159	A160	A161	A162	A163	A164
						
Angle-Winkel 45°	90°	60°	90°	95°		
Page-Seite A165	A166	A167	A168	A169		

M-type Clamping (clamping finger) · M Halter (Pratze)

						
Angle-Winkel 75°	95°	93°	62°30'	75°	75°	75°
Page-Seite A170	A171	A172	A173	A174	A175	A176
						
Angle-Winkel 45°	90°	93°	90°	72°30'	93°	95°
Page-Seite A177	A178	A179	A180	A181	A182	A183
						
Angle-Winkel A184	A184					

S-type Clamping (screw) · S Halter (Schraube)

						
Angle-Winkel 90°	95°	90°	93°	62°30'	93°	90°
Page-Seite A185	A186	A187	A188	A189	A190	A191
						
Angle-Winkel 72°30'	72°30'	93°	75°	45°	75°	45°
Page-Seite A192	A193	A194	A195	A195	A196	A196



S-type Clamping (screw) · S Halter (Schraube)

							
Angle-Winkel Page-Seite	90° A197	91° A197	91° A198	60° A199	90° A200	90° A201	90° A202

C-type Clamping (clamping finger) · M Halter (Pratze)

		
Angle-Winkel Page-Seite	93° A203	63° A203

Tool holder for ceramic inserts · Halter für Keramikplatten

							
Angle-Winkel Page-Seite	95° A204	93° A204	93° A205	93° A205	75° A206	75° A206	45° A207
							
Angle-Winkel Page-Seite	45° A207	95° A208	93° A208	45° A209			

Tool holder for Internal Machining · Halter zur Innenbearbeitung

P-type Clamping (lever) · P Halter (Kniehebel)

					
Angle- Winkel 95°	62°30'	93°	75°	90°	95°
Page- Seite A216	A218	A219	A221	A222	A223

S-type Clamping (screw) · S Halter (Schraube)

						
Angle- Winkel 95°	107°30'	93°	85°	75°	90°	107°30'
Page- Seite A224	A226	A227	A228	A229	A230	A231

						
Angle- Winkel 93°	107°30'	93°	95°	107°30'	93°	93°
Page- Seite A232	A233	A234	A235	A236	A237	A238

	
Angle- Winkel 90°	95°
Page- Seite A239	A240

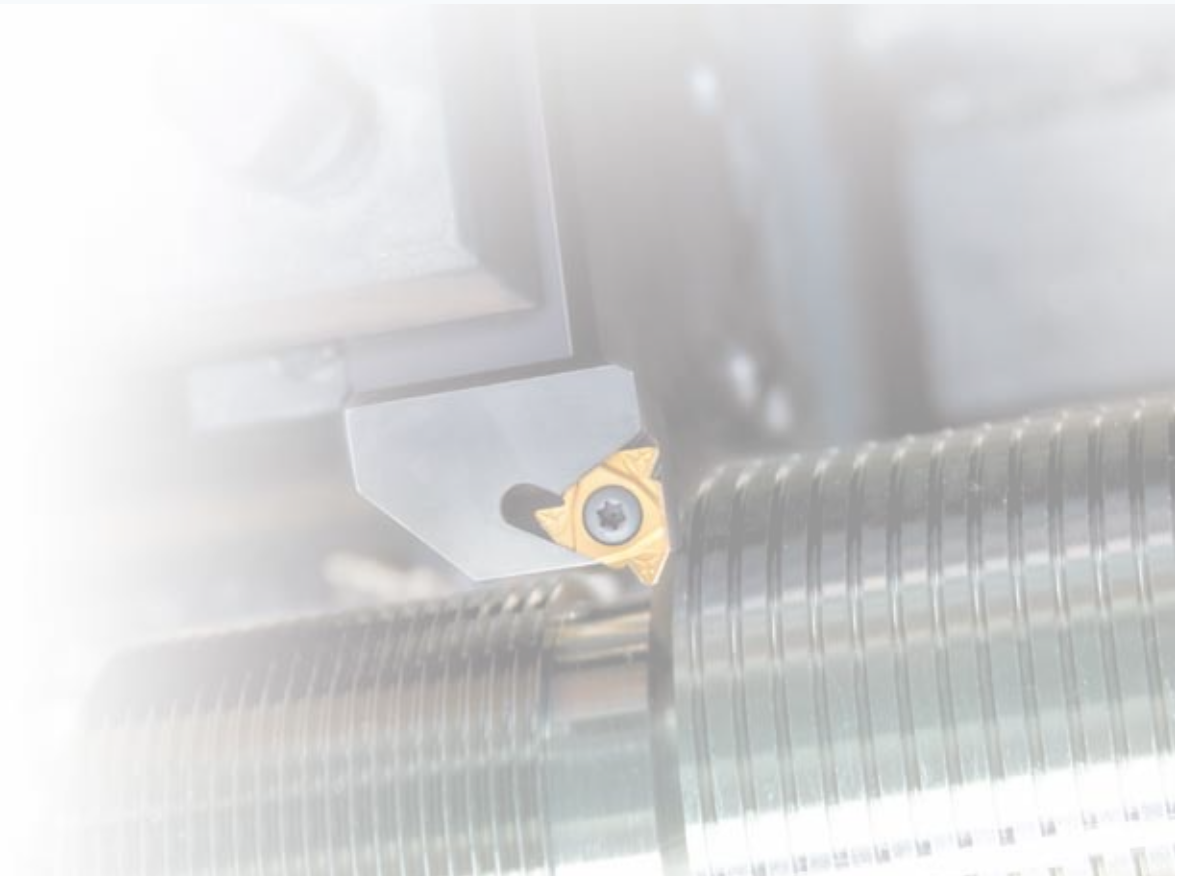
Carbide boring bars · Hartmetallbohrstangen

					
Angle- Winkel 95°	107°30'	93°	93°	107°30'	93°
Page- Seite A242	A243	A244	A245	A247	A248

Tool Holder for Parting & Grooving · Halter zum Ab- und Einstechen



Tool Holder for Threading · Halter für Gewindebearbeitung



Turning · Drehen

Recommended Grade Overview (Inserts) · Empfohlene Sorten Übersicht (WSP)

ISO		General Turning · Allgemeine Drehbearbeitung										Threading Gewinde	Parting and Grooving Ab- und Einstechen	
Code	Coating · beschichtet		Cermet unbeschichtet	Cermet beschichtet	Ceramic Keramik	cemented carbide Hartmetall	PCBN	PCD	Coated beschichtet		Coated · beschichtet	cemented carbide Hartmetall		
	CVD	PVD							PVD	PVD				
P Steel · Stahl	01													
	10	YBC151												
	20	YBC251												
	30		YBC351											
	40													
M Stainless Steel · Rostfreier Stahl	01													
	10	YBM151												
	20	YBM251												
	30	YBM351												
	40													
K Cast iron · Gusseisen	01													
	10	YBD052												
	20	YBD102												
	30	YBD152												
	40	YBD151												
N Non-ferrous materials NE Metalle	01													
	10													
	20													
	30													
	40													
S Heat-resistant steel Superlegierungen	01													
	10		YBG102											
	20		YBG202											
	30													
	40													
H super Hard Material Gehärtete Werkstoffe	01													
	10													
	20													
	30													
	40													

- P** Steel / Stahl
- M** Stainless Steel / Rostfreier Stahl
- K** Cast iron / Gusseisen

- N** Non-ferrous materials · Ne Metalle
- S** Heat-resistant steel · Warmfester Stahl
- H** Hardened material · Gehärtete Werkstoffe

General Turning Inserts · Allgemeine Drehschneidplatten

A16 - A23	ISO Turning Inserts Chip breaker Description ISO WSP Spanbrecherbeschreibung
A24-A30	ISO Turning Chip breaker application Guide ISO Spanbrecher nach Anwendungsbereichen
A31-A40	ISO Turning Grades application Guide ISO Sorten nach Anwendungsbereichen
A41-A146	ISO Turning Inserts ISO Wendeschneidplatten
A42-A43	ISO indexable inserts code key ISO Kennzeichnung für Schneidplatten
A44-A45	Metric and Britain System Comparison List Of General Turning Insert Vergleich Metrisch-Britisch WSP Code
A46-A112	Carbide, Cermet Inserts Hartmetall, Cermet WSP
A46-A83	Negative Inserts Carbide and Ceramic Negative Wendeschneidplatten Hartmetall und Keramik
A84-A112	Positive Inserts Carbide and Ceramic Positive Wendeschneidplatten Hartmetall und Keramik
A113-A134	PCBN & PCD Insert Identification Table PCBN & PKD Schneidplattenbezeichnung
A114-A115	PCBN & PCD ISO inserts code key PCBN & PKD ISO Kennzeichnung für Schneidplatten
A116-A117	PCBN & PCD Insert Specificaiton List PCBN & PKD Zuordnungsübersicht
A118-A134	Negative and Positive Inserts PCBN & PCD Negative und Positive Wendeschneidplatten PCBN & PKD
A135	PCBN Grade Trouble Shooting PCBN Sorten Problembhebung
A136-A137	Ceramic ISO inserts code key Keramik ISO Kennzeichnung für Schneidplatten
A138-A146	Ceramic Inserts Keramik Wendeschneidplatten

Chip breaker Overview · Spanbrecher Übersicht

Negative Inserts
Negative Wendeschneidplatten

NEU

P M K

ap·d.o.c. =0.05~1,5(mm)
f=0.05~0.35(mm/r)

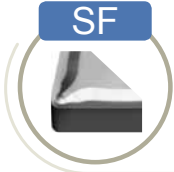


NEW

Special chip breaker in combination with cermet grades. Sharp cutting edge with excellent chip control at small depth of cut and small feed rate. Enable high surface finishing.

Spezieller Spanbrecher in Kombination mit Cermetsorten. Mit scharfer Schneide für exzellenten Spanbruch bei kleinen Schnitttiefen und Vorschüben und sehr guter Oberflächengüte.

SF



P M

ap·d.o.c. =0.3~2,5 (mm)
f=0.05~0.35(mm/r)



Chip breaker for finishing and semi-finishing of steel and stainless steel.

Spanbrecher für die Schlicht- bis mittlere Bearbeitung von Stahl und rostfreiem Stahl.

DF



M S

ap·d.o.c. =0.05~2,5(mm)
f=0.05~0.3 (mm/r)



Sharp, positive cutting edge for finishing and semi-finishing of austenitic stainless steel, soft steel, low carbon steel and heat resistant super alloy. Suitable for continuous to light interrupted cut.

Sehr scharfe und positive Schneidkante für die Schlicht- bis mittlere Bearbeitung von austenitischem, rostfreiem Stahl, weichem Baustahl und Stahl mit niedrigem Kohlenstoffgehalt und warmfesten Superlegierungen.

EF



S M

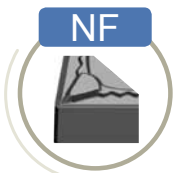
ap· d.o.c. =0.1~1,5(mm)
f=0.05~0.3(mm/r)



Ground inserts with sharp and positive cutting edge. NF with grade YBG102 is best combination for finishing of heat resistant super alloys (Ni-based, Fe-based and Co-based alloys) Vc=40-100m/min

Geschliffene Wendeschneidplatte mit einer scharfen, positiven Schneidkante. NF in Kombination mit der Sorte YBG102 ist die beste Lösung für die Schlichtbearbeitung von warmfesten Superlegierungen und exotischen Materialien (Ni-basiert, Fe-basiert, Co-basiert) Vc=40-100m/min

NF



Schlichten · Finishing

General Turning · Allgemeine Drehbearbeitung

Chip breaker Overview · Spanbrecher Übersicht

Wiper



P M K
 ap· d.o.c. =0.3~2(mm)
 f= 0.1~0.4(mm/r)



Excellent surface finishing and high feed rate due to wiper technology. For finishing and semi-finishing of steel, stainless steel or cast iron.

Exzellente Oberflächengüte und hohe Vorschübe durch Wipertechnologie. Geeignet zum Schlichten bis mittlere Bearbeitung von Stahl, rostfreiem Stahl und Guss.

Mittlere Bearbeitung · Semi-Finishing



P M
 ap· d.o.c. =1.5~5(mm)
 f= 0.15~0.5(mm/r)



Main chip breaker for medium machining with continuous or interrupted cut of steel and stainless steel.

Hauptspanbrecher für die mittlere Bearbeitung mit und ohne Schnittunterbrechung von Stahl und rostfreiem Stahl.

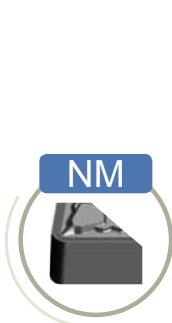


P K
 ap· d.o.c. =1.5~5(mm)
 f= 0.15~0.5(mm/r)



Unisversal chip breaker with stable cutting edge. Suitable for medium machining also with interrupted cut especially for cast iron and steel.

Universelle Spanbrecherform mit stabiler Schneidkante. Besonders geeignet für die mittlere Bearbeitung von Guss und Stahl auch mit Schnittunterbrechung.



S M
 ap· d.o.c. = 1.5~5(mm)
 f= 0.15~0.5(mm/r)



Sharp cutting edge with positive multi-rakes. Special for the semifinishing of heat resistant super alloys.

Scharfe Schneidkante mit positivem Multi-Spanwinkel. Besonders geeignet für die Bearbeitung von wärmfesten Superlegierungen.



M P S
 ap· d.o.c. =0.5~4.0(mm)
 f=0.1~0.5(mm/r)



Sharp and stable cutting edge for semifinishing of adhesive material and austenitic stainless steel. Suitable also for interrupted cut.

Spanbrecher mit scharfer, stabiler Scheidkante für die mittlere Bearbeitung von adhäsiven Materialien und austenitischem rostfreiem Stahl. Auch für Schnittunterbrechungen geeignet.

Chip breaker Overview · Spanbrecher Übersicht

Mittlere Bearbeitung · Semi-Finishing

Negative Inserts
Negative Wendeschneidplatten

Basic



P K

ap· d.o.c. = 1.5~5(mm)
f = 0.2~0.5(mm/r)



Stable flat cutting edge with standard chip breaker for semifinishing of steel and cast iron.

Stabile gerade Schneidkante mit umlaufender Spanleitstufe für die mittlere Bearbeitung von Stahl und Gusswerkstoffen.

P K

double side ap· d.o.c. = 2.0~6.5(mm)
f = 0.2~0.5(mm/r)
single side ap· d.o.c. = 3~15(mm)
f = 0.4~1.0 (mm/r)



DR



Double side type · Doppelseitige Ausführung

Positive chip breaker with strong cutting edge for light to medium rough machining of steel and cast iron.

Positiver Spanbrecher mit stabiler Schneidkantenausführung für die leichte bis mittlere Schruppbearbeitung von Stahl und Gusswerkstoffen.

Single side type · Einseitige Ausführung



DR



Positive chip breaker with strong cutting edge for light to medium rough machining of steel and cast iron.

Positiver Spanbrecher mit stabiler Schneidkantenausführung für die leichte bis mittlere Schruppbearbeitung von Stahl und Gusswerkstoffen.

M P

double side ap· d.o.c.=2.5~8(mm)
f=0.2~0.6(mm/r)

single side ap· d.o.c. =2.5~20(mm)
f = 0.2~1.2(mm/r)



NEW

ER



NEU

Double side type · Doppelseitige Ausführung

New developed chip breaker with positive geometry for low cutting force. Suitable for roughing operation of stainless steel and steel.

Neu entwickelter positiver Spanbrecher für niedrige Schnittkräfte. Besonders geeignet für die Schruppbearbeitung von rostfreiem Stahl und Stahl.

ER



Single side type · Einseitige Ausführung

New developed chip breaker with positive geometry for low cutting force. Suitable for roughing operation of stainless steel and steel.

Neu entwickelter positiver Spanbrecher für niedrige Schnittkräfte. Besonders geeignet für die Schruppbearbeitung von rostfreiem Stahl und Stahl.

Schruppen · Roughing

Chip breaker Overview · Spanbrecher Übersicht

Schruppen · Roughing

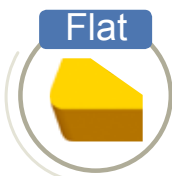


P M
 ap· d.o.c.= 5~15(mm)
 f= 0.5~1.2(mm/r)



Chip breaker with strong cutting edge and resistant to plastic deformation for single side inserts. Suitable for rough machining with high metal cutting rate for steel and stainless steel application.

Spanbrecher mit stabiler Schneidkantenausführung mit hoher Deformationsbeständigkeit für einseitige Wendeschneidplatten. Anwendung für die Schruppbearbeitung von Stahl und rostfreiem Stahl.



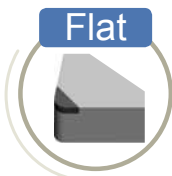
K
 ap· d.o.c.= 0.3~12(mm)
 f= 0.1~0.6(mm/r)



Flat insert without chip breaker. Stable insert with high edge strength for roughing operation in cast iron materials.

Glatte Platte ohne Spanbrecher. Mit einer stabilen Schneidkante für die Schruppbearbeitung von Gusswerkstoffen.

CBN & PCD

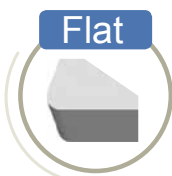


PCBN H PKD N
 ap· d.o.c.=0.05~0.5(mm)
 f=0.05~0.3(mm/r)



Special grades: for machining of hardened materials and cast iron (CBN).
 for machining of non-ferrous metals (e.g. Aluminium) and non-metal materials (PCD)
 Spezielle Sorten: Für die Bearbeitung von gehärteten Stählen, Gusswerkstoffen (CBN). Für die Bearbeitung von NE-Metallen (z.B. Aluminium) und nicht-metallischen Werkstoffen (PCD)

Ceramic Insert



K H P
 ap· d.o.c.= 0.1~3(mm)
 f= 0.05~0.4(mm/r)



Ceramic inserts for machining of hardened steel, cast iron and steel.
 Keramikwendeschneidplatten für die Bearbeitung von gehärtetem Stahl, Gusswerkstoffen und Stahl.

General Turning · Allgemeine Drehbearbeitung

General Turning Inserts · Allgemeine WSP Übersicht

Chip breaker Overview · Spanbrecher Übersicht

Positive Inserts

Positive Wendeschneidplatten

P M

ap· d.o.c. = 0.05~2.5(mm)
f= 0.03~0.25(mm/r)



Special grinded chip breaker groove for precision machining and high surface quality. This G-class inserts with a sharp cutting edge and small corner radius for fine finishing operation without vibration.

Exakt geschliffene einseitige Spanleitstufe für die Hochpräzisionsbearbeitung mit hoher Oberflächengüte. Diese G-Toleranz Platten besitzen scharfe Schneiden und kleine Eckenradien. Für die Feinstbearbeitung ohne Vibrationen.

R/L



P M K

ap· d.o.c. = 0.05~1(mm)
f= 0.05 ~0.3(mm/r)



Special chip breaker in combination with cermets grades. Sharp cutting edge with excellent chip control. For high surface finishing and precision machining.

Spezieller Spanbrecher in Kombination mit Cermetsorten. Mit scharfer Schneide für die Präzisionsbearbeitung mit hervorragendem Spanbruch und sehr guter Oberflächengüte.

SF



P M K

ap· d.o.c. = 0.1~2(mm)
f= 0.05~0.3 (mm/r)



Chip breaker for finishing and semi-finishing of steel and cast iron. Especially for internal machining.

Spanbrecher für die Schlicht- bis mittlere Bearbeitung von Stahl und Gusswerkstoffen. Besonders geeignet auch für die Innenbearbeitung.

HF



M S

ap· d.o.c. = 0.1~2(mm)
f= 0.05~0.3 (mm/r)



Sharp, positive cutting edge for finishing and semi-finishing of austenitic stainless steel, soft steel and low carbon steel. Suitable for continuous to light interrupted cut.

Sehr scharfe und positive Schneidkante für die Schlicht- bis mittlere Bearbeitung von austenitischem, rostfreiem Stahl, weichem Baustahl und Stahl mit niedrigem Kohlenstoffgehalt.

EF



NEU

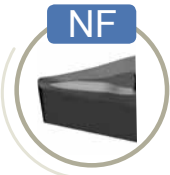
NEW

Feinstbearbeitung · Finishing

Schlichten · Finishing

Chip breaker Overview · Spanbrecher Übersicht

Schlichten · Finishing



S M
 ap· d.o.c.= 0.05~1(mm)
 f=0.05~0.2 (mm/r)



Chip breaker with sharp and positive cutting edge. NF combined with Grade YBG102 is best solution for finishing of heat resistance super alloys (Ni-based, Fe-based and Co based material).

Geschliffene Wendeschneidplatte mit einer scharfen, positiven Schneidkante. In Kombination mit der Sorte YBG102 ist dieser Spanbrecher besonders für die Schlichtbearbeitung von wärmfesten Materialien geeignet (z.B. Ni- basiert, Fe-basiert und Co-basiert).

Mittlere Bearbeitung · Semi-Finishing



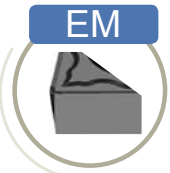
P M K
 ap·d.o.c. =1~4(mm)
 f=0.2~0.5(mm/r)



Chip breaker for medium machining of steel or cast iron. Suitable for internal and external turning.

Spanbrecher für die mittlere Bearbeitung von Stahl und Gusswerkstoffen. Einsetzbar bei der Innen- und Außenbearbeitung.

NEU



M S
 ap· d.o.c. = 1~4(mm)
 f= 0.2~0.5(mm/r)



NEW

Upgrade sharp and strong cutting edge for semifinishing of adhesive steel and austentic stainless steel.

Scharfe und stabile Schneidkante für die mittlere Bearbeitung von rostfreien adhäsiven Stählen und austenitischen Werkstoffen.

Chip breaker Overview · Spanbrecher Übersicht

Positive Insert
Positive Wendeschneidplatten

Mittlere Bearbeitung · Semi-Finishing

P K

ap· d.o.c.= 1~8(mm)
f= 0.2~0.6(mm/r)



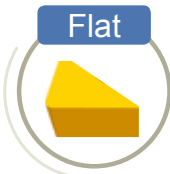
Chip breaker for round inserts. Suitable for semi precision machining and profile modelling machining of steel and cast iron.

Umlaufende Spanleitstufe für runde WSP. Für die mittlere Bearbeitung und Profildrehen von Stahl- und Gusswerkstoffen.

Schruppen · Roughing

K

ap· d.o.c.= 0.05~1(mm)
f=0.05~0.2 (mm/r)



Flat insert without chip breaker. Stable insert with high edge strength for roughing operation in cast iron materials.

Glatte Platte ohne Spanbrecher. Mit einer stabilen Schneidkante für die Schruppbearbeitung von Gusswerkstoffen.

Schruppen · Roughing

P M K

ap· d.o.c. =2~5(mm)
f=0.2~0.4(mm/r)



Chip breaker with strong cutting edge for light to medium rough machining of steel stainless steel and cast iron. Suitable for internal and external machining.

Spanbrecher mit stabiler Schneidkantenausführung für die leichte bis mittlere Schruppbearbeitung von Stahl und Gusswerkstoffen. Einsetzbar bei der Innen- und Außenbearbeitung.

P

ap· d.o.c. =3~10(mm)
f=0.3~1.2(mm/r)



Recommended chip breaker for rough machining steel materials. Single chip breaker with strong cutting edge. First choice for profile modelling machining.

Spezieller Spanbrecher mit einer verstärkten Schneidkantenausführung für die Schruppbearbeitung. Besonders geeignet für die Konturbearbeitung bei höherer Produktionssicherheit von Stahlwerkstoffen unter ungünstigen Bedingungen.

Chip breaker Overview · Spanbrecher Übersicht

Aluminium Bearbeitung · Machining

N

ap· d.o.c.=0.1~5(mm)
f=0.05~0.4(mm/r)



Special chip breaker for aluminum alloy and non ferrous metal machining G tolerance insert with large rake angle, surface polishing treatment, effectively preventing build up edge and getting high quality machining surface and long tool life.



Speziell geschliffener Spanbrecher für die Bearbeitung von Aluminium, Aluminiumlegierungen (NE-Metallen). G-Toleranz WSP mit großem Spanwinkel und polierter Oberfläche zur Vermeidung von Aufbauschneiden. Hervorragender Spanabfluss, gute Oberflächengüten und lange Standzeiten.

CBN & PKD

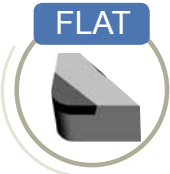
PCBN **PKD**

H **N**

ap· d.o.c.=0.05~0.5(mm)
f=0.05~0.3(mm/r)



Special inserts G tolerance with brazed CBN or PCD Tip. CBN suitable for finishing of hardened component and cast iron. PCD suitable for finishing of non ferrous metal and non-metal materials.



Spezielle G Toleranz WSP mit gelöteter CBN oder PKD Schneidecke. CBN ist besonders für die Schlichtbearbeitung von gehärtetem Stahl oder Grauguss geeignet, PKD für die Schlichtbearbeitung von NE-Metallen und nicht metallischen Werkstoffen (Glasfiber, Keramik, glasfaserverstärkte Kunststoffe).

General Turning · Allgemeine Drehbearbeitung

Turning · Drehen

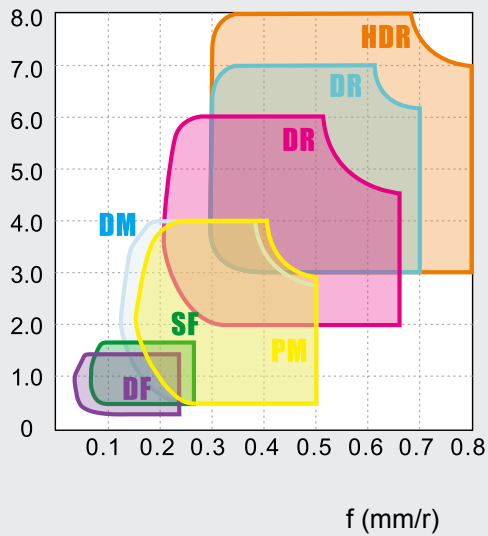
General Turning Inserts · Allgemeine WSP Übersicht

Chip breaker Cutting Condition · Spanbrecher Schnittdatenempfehlung

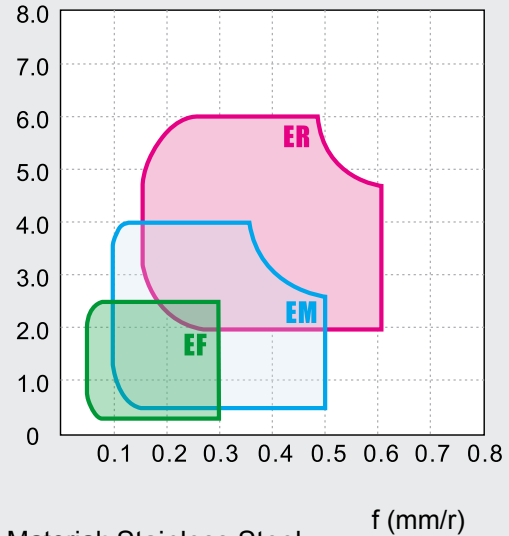
Main Chip breaker for general Turning · Hauptspanbrecher für allgemeine Drehbearbeitung

Negative Insert · Negative Wendeschneidplatten

ap · d.o.c.(mm)

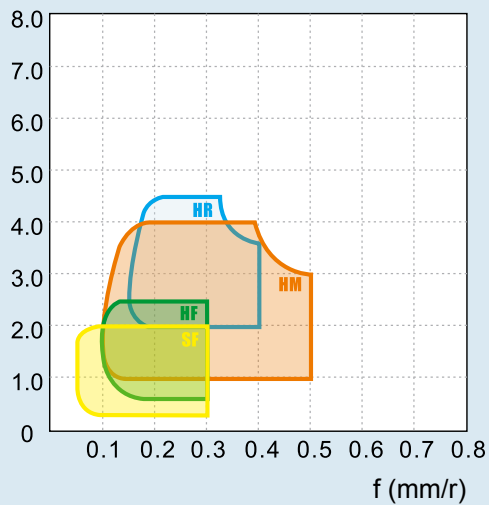


ap · d.o.c.(mm)

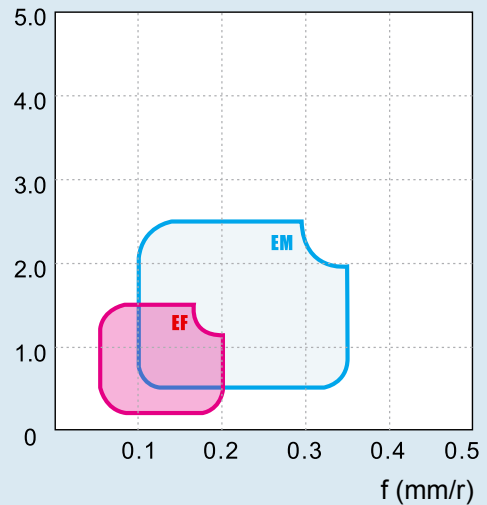


Positive Inserts · Positive Wendeschneidplatten

ap · d.o.c.(mm)



ap · d.o.c.(mm)



Chip breaker application field · Spanbrecher Anwendungsfeld

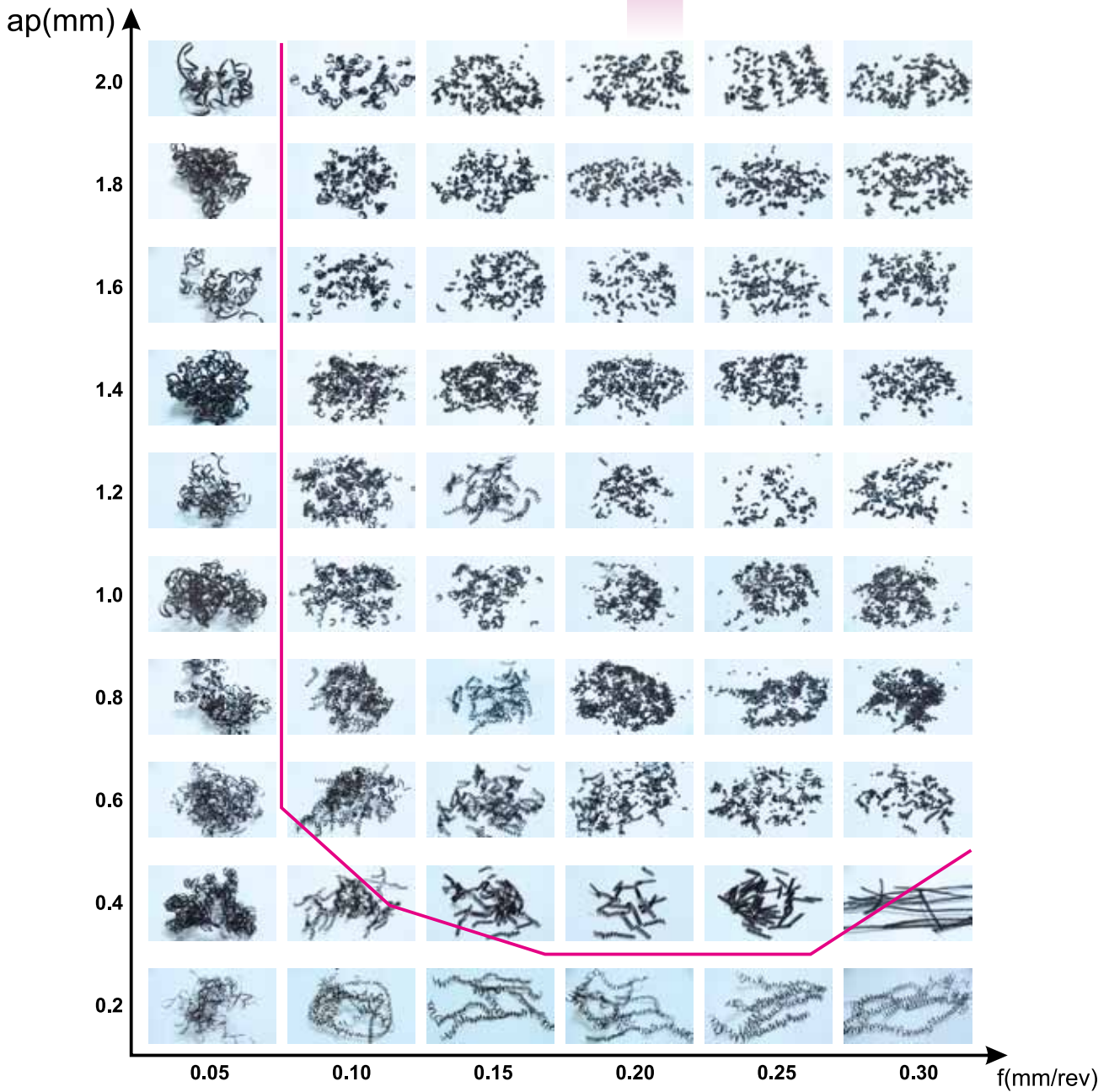
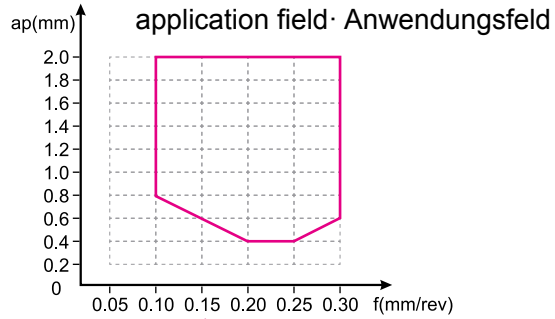
Example · Beispiel:

Insert · WSP: CNMG120408-DF

Cutter · Halter: PCLNL2525M12

Material: C 45 steel

V_C : 200(m/min)

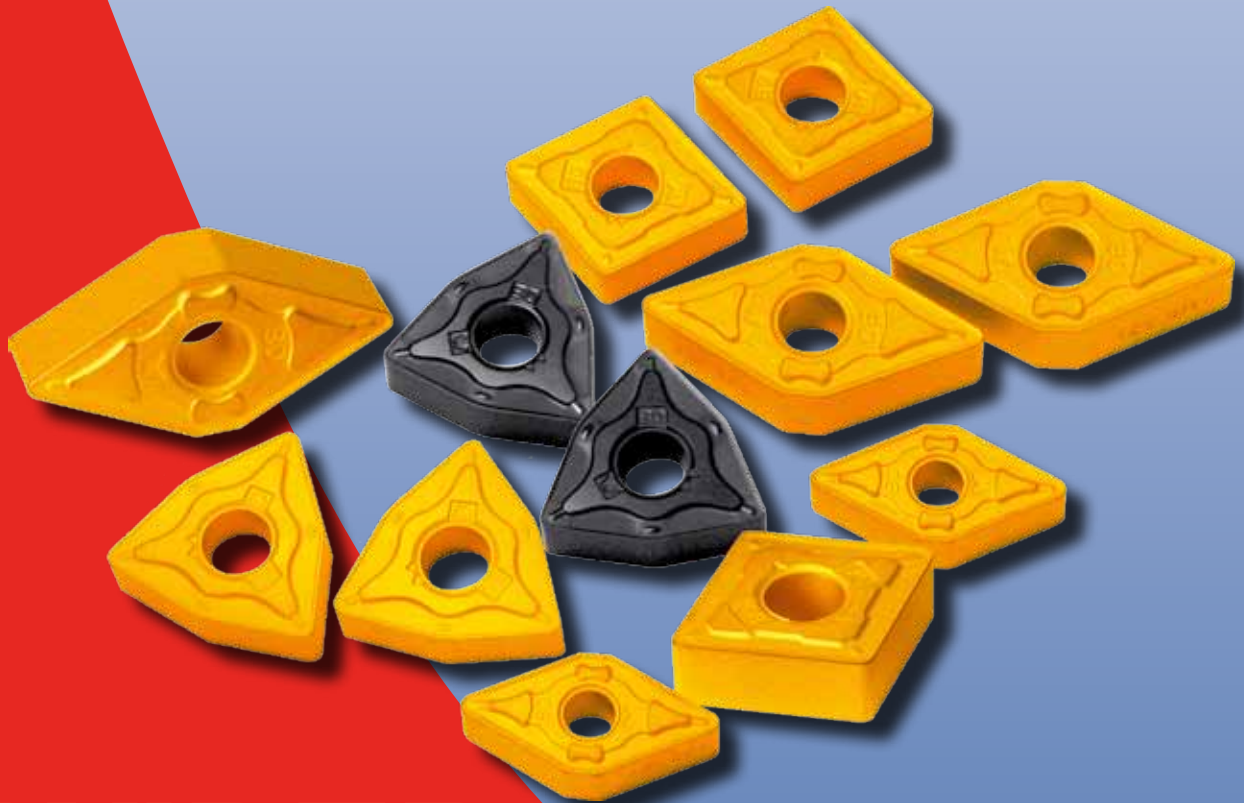


WVG



chip breaker series
WG Spanbrecher Serie

Turning Insert with **WIPER**-Technology
Drehplatten mit **WIPER**-Technologie



WIPER

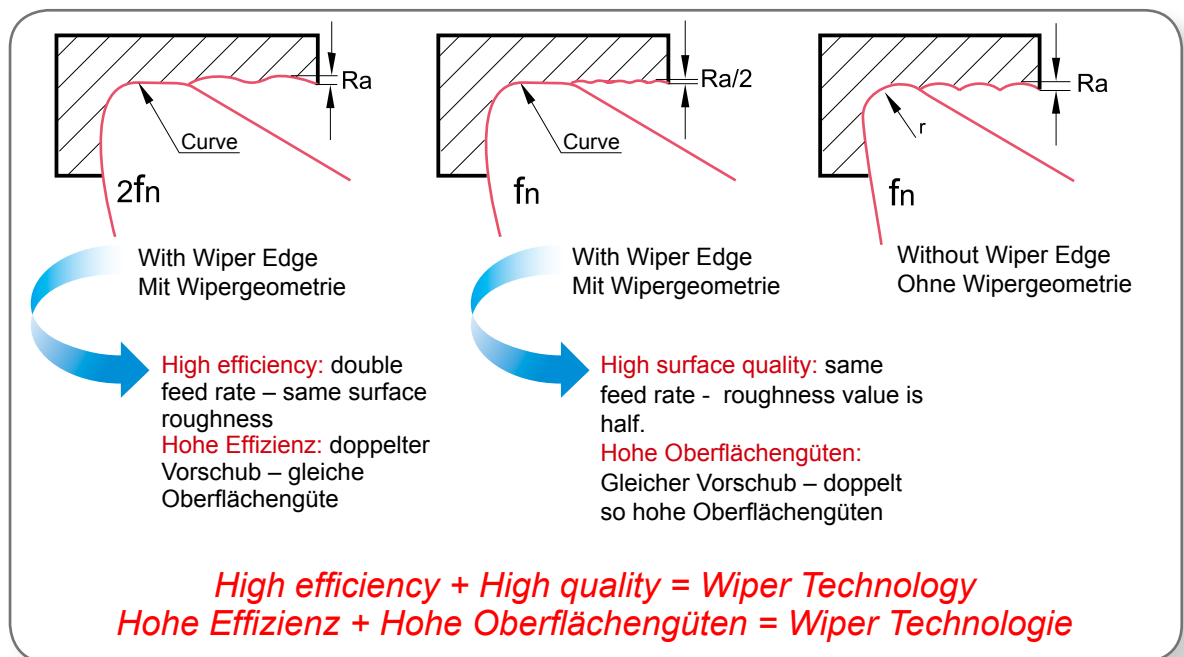


Machining a good surface finish on turned components has become a demand for semi-finishing and finishing operations. The Wiper technology has provided turning with a new means to achieve improved production performance where the key is to being able to raise the feed rate.

Bei der Schlicht- bis mittleren Bearbeitung von Drehteilen nimmt die Realisierung von hohen Oberflächengüten an Bedeutung zu. Dank der Wiper-Technologie kann diese Anforderung auch bei höheren Vorschüben realisiert werden. Ein weiterer Vorteil ist die Steigerung der Produktivität.

A Wiper insert has a special design of nose configuration. It has been developed to provide a high capability of generating a better surface finish. On the other hand, is capable of machining the same finish at a much higher feed.

Eine Wiperplatte zeichnet sich durch eine spezielle Modifikation des Eckenradius aus. Dadurch ist bei gleichem Vorschub, verglichen mit einer herkömmlichen Drehplatte, eine deutliche Verbesserung der Oberflächengüte zu erzielen. Eine weitere Möglichkeit ist die Verdoppelung des Vorschubes für eine höhere Produktivität, wobei die Oberflächengüten gleich bleiben.



Feature-Merkmale:

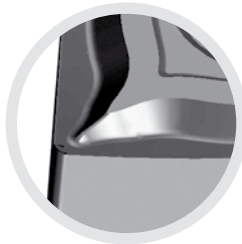
By using a Wiper inserts you can get excellent surface quality and eliminate many grinding operations. You also get better component quality and roundness compared to grinding.

Durch die Verwendung von Wendeschneidplatten mit Wipertechnologie lassen sich hohe Oberflächengüten erzielen und somit viele Schleifoperationen ersetzen. Die Werkstückqualitäten z.B. in Bezug auf Rundheit kann im Vergleich zum Schleifen ebenfalls gesteigert werden.



EF EM ER

Special chip breaker series for soft steel, stainless steel and heat resistance Superalloy
 Spezielle Spanbrechererrien besonders für die Zerspaltung von weichem Stahl, rostfreien (M) Stählen und warmfesten Superlegierungen.



-EF

Sharp positive cutting edge for finishing and semifinishing of austenitic stainless steel, soft steel and low carbon steel. Suitable for continuous to light interrupted cut.

Scharfer, positiver Spanbrecher für die Schlichtbearbeitung von rostfreien Stählen, weichem Stahl, Automatenstahl und für Stähle mit niedrigem Kohlenstoffgehalt. Für glatte bis leicht unterbrochene Schnitte.



-EM

Sharp cutting edge with stronger edge line for medium cut even in interrupted cut.

Scharfe, stabile Schneidkante für die mittlere Bearbeitung von Werkstoffen auch im unterbrochenen Schnitt.

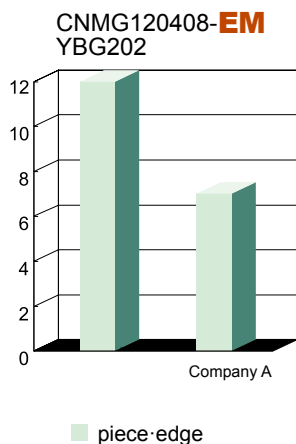


-ER

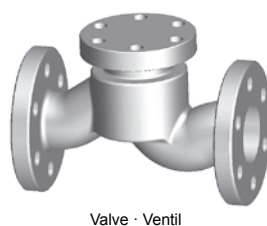
Special edge design with excellent balance between edge strength and sharpness. Suitable for roughing operation.

Speziell entwickelter Spanbrecher mit exzellenter Kantenstabilität bei gleichzeitiger Schneidenschärfe, für die Schruppbearbeitung.

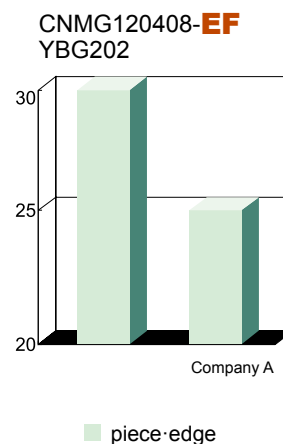
Example - Beispiel:



Parameter:	
D	135mm
V _c	150 m/min
f	0.25mm/rev
ap	2.5 mm



Example - Beispiel:

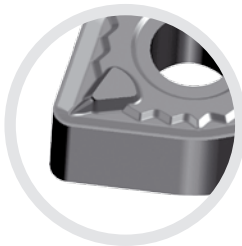
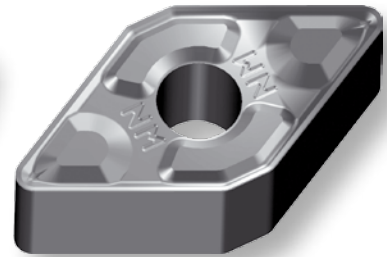
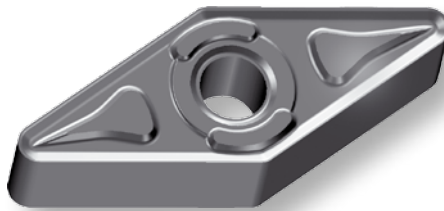
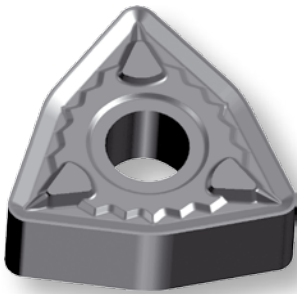


Parameter:	
D	89 mm
V _c	180 m/min
f	0.15mm/rev
ap	1.0 mm

NF NM



Special chip breaker series for machining heat resistance and super alloy material.
Neue Spanbrecherserie für die Bearbeitung von hochlegierten, warmfesten Materialien.



-NF

Ground inserts with sharp and positive cutting edge. NF combined with grade YBG102 is a good solution for the finishing of heat resistant super alloys (nickel-based such as Inconel 700,718, iron-based and cobalt-based alloys). $a_p=0.2\sim 1.0\text{mm}$, $V_c=40\sim 100\text{m/min}$.

Geschliffene Wendeschneidplatte mit einer scharfen positiven Schneidkante. NF in Kombination mit der Sorte YBG102 ist eine gute Lösung für Schlichtbearbeitungen von warmfesten Superlegierungen (Ni-basiert wie Inconel 700,718, Fe-basiert und Co-basiert) $a_p=0.2\sim 1.0\text{mm}$, $V_c=40\sim 100\text{m/min}$.



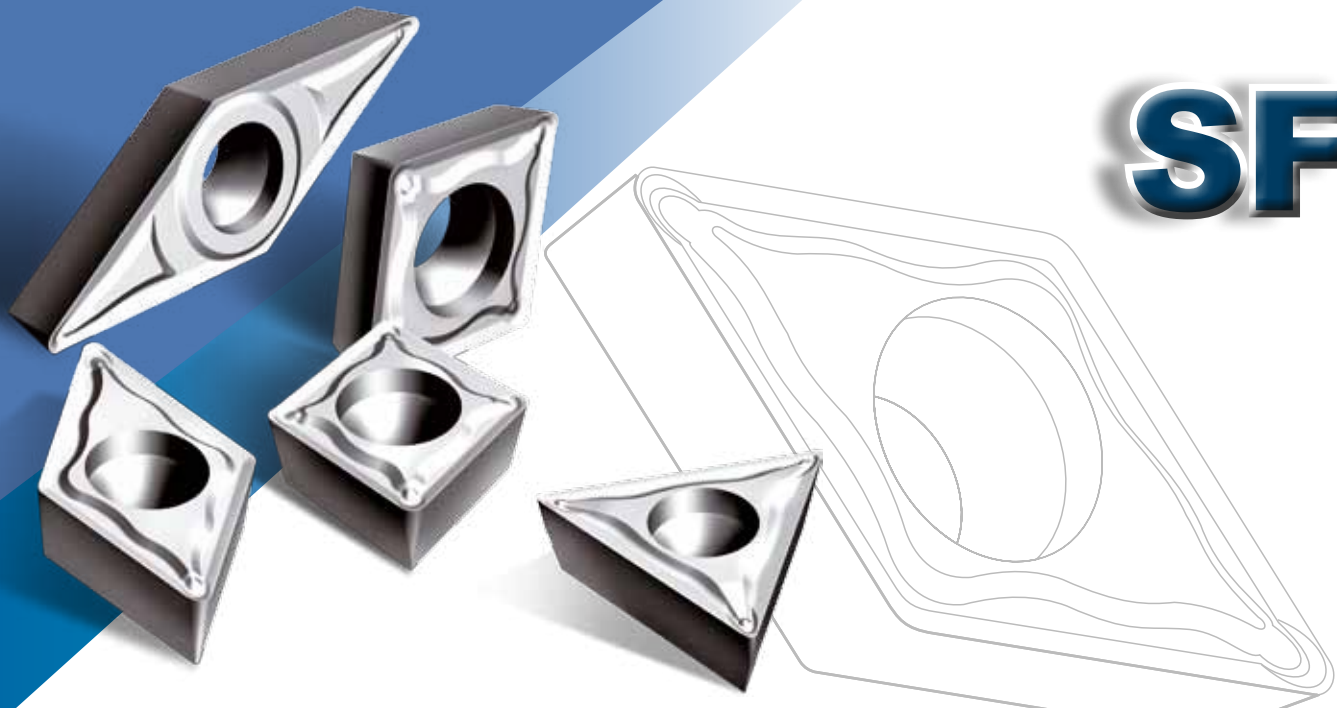
-NM

Sharp cutting edge with positive multi-rakes. Special for the semifinishing of heat resistant super alloys.

Scharfe Schneidkante mit positivem Multi-Spanwinkel. Besonders geeignet für die Bearbeitung von warmfesten Superlegierungen.



SF



Chip breaker for high precision machining
Spanbrecher für die Hochpräzisionsbearbeitung

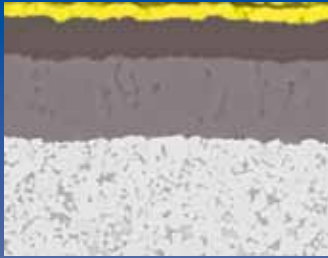
New chip breaker geometry for fine-finishing machining of steel, stainless steel and cast iron. In combination with our cermet grades a good solution for high precision production.

Neue Spanbrecher für die Feinstbearbeitung von Stahl, rostfreiem Stahl und Gusswerkstoffen. In Kombination mit unseren Cermetsorten die beste Wahl für die Hochpräzisionsbearbeitung.

1. High precision
Hohe Genauigkeit
2. Sharp cutting edge to reduce cutting force and vibration
Scharfe Schneidkante zur Reduktion von Schnittkraft und Vibrationen.
3. Excellent chip control
Ausgezeichnete Spankontrolle
4. Excellent surface quality
Ausgezeichnete Oberflächengüte

Best result in combination with our carbide anti-vibration boring bars.
Beste Ergebnisse in Kombination mit unseren Antivibrations Hartmetallbohrstangen.





YBC251 coating

Application field CVD,
turning grade of steel
Anwendungsbereich
CVD, Drehsorten für Stahl

YBC 151

CVD coated grade with good wear resistance in combination with MT-Ti(CN), thick layer AL₂O₃, TiN coating. Good for finishing of steel and dry machining.

CVD-beschichtete Premiumsorte mit ausgezeichneter Verschleißfestigkeit. Die Kombination von MT-TiCN und einer dicken AL₂O₃ TiN Auflage eignet sich zum Schlichten von Stahl und zur Trockenbearbeitung.

YBC 251

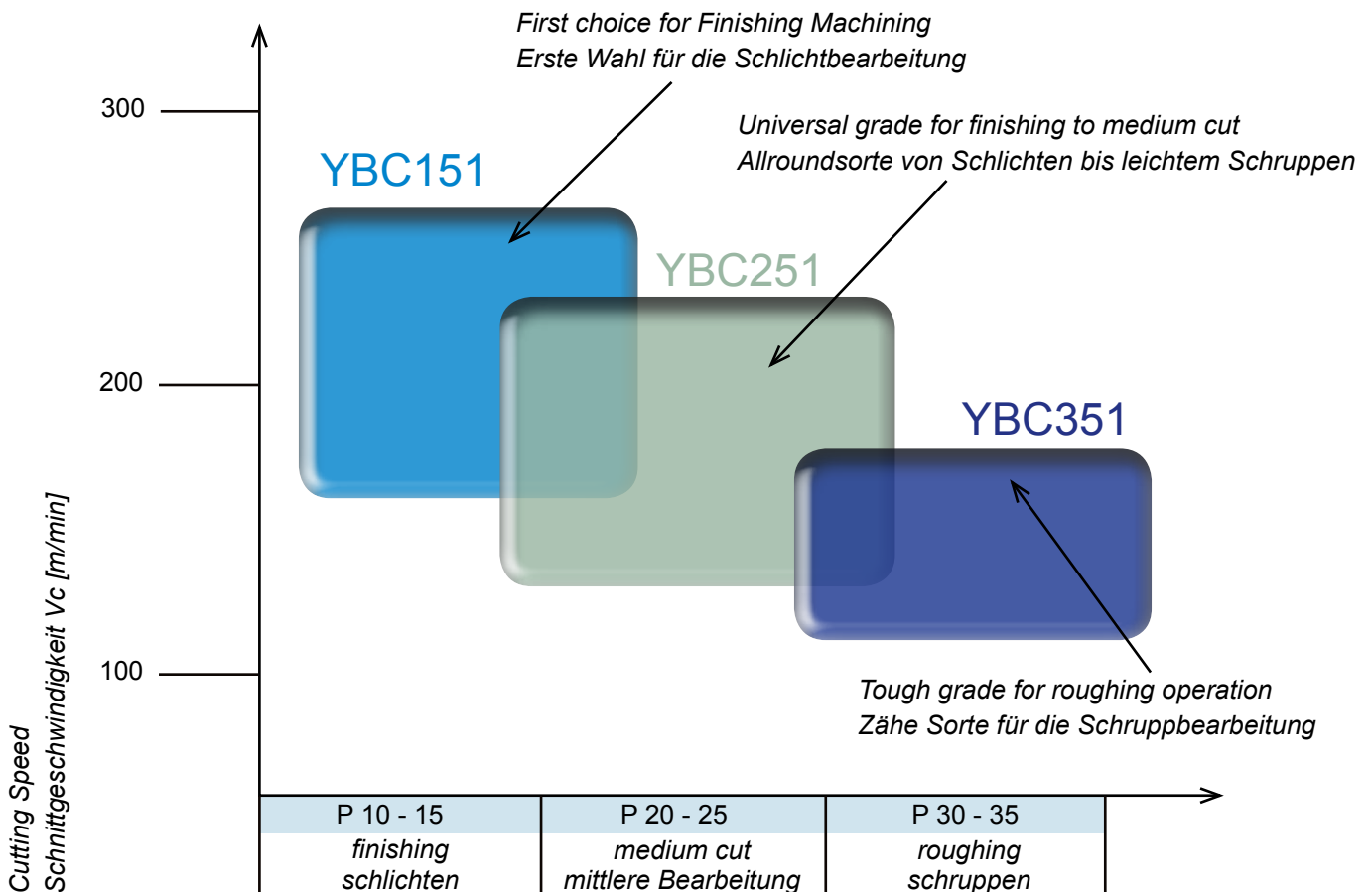
CVD premium universal grade with excellent combination of toughness and wear resistance. In combination with MT-Ti(CN), thick layer AL₂O₃, TiN coating this grade is first choice for medium to light interrupted cutting of steel.

CVD-beschichtete Hochleistungs-Allroundsorte mit guter Schneidkantensicherheit und Verschleißfestigkeit. In Verbindung mit der MT-TiCN und einer dicken AL₂O₃ TiN Beschichtung eignet sich diese Sorte für die mittlere Bearbeitung bis zu leichtem Schruppen von Stahl.

YBC 351

CVD coated premium grade with high toughness and wear resistance. In combination with MT-Ti(CN), thick layer AL₂O₃, TiN coating this grade is suitable for rough machining of steel under unstable condition.

CVD-beschichtete Premiumsorte mit hoher Zähigkeit und Verschleißfestigkeit. Die Kombination von MT-TiCN und einer dicken AL₂O₃ TiN Auflage eignet sich besonders für die leichte bis schwere Schruppbearbeitung von Stahl.



Application field CVD,
turning grade
of stainless Steel

Anwendungsbereich CVD,
Dreharten für
rostfreien Stahl

YBM 151

Substrate with special structure, in combination with TiCN, thin layer AL₂O₃, TiN coating. With resistance against diffusion wear and plastic deformation it is good for finishing and semi-finishing of stainless steel.

CVD-beschichtetes Hartmetall. Die besonders strukturierte Kombination mit TiCN und Al₂O₃, TiN Auflage hat eine ausgezeichnete Schichthftung und Widerstandsfähigkeit gegen plastische Verformung. Gut geeignet für die Schlicht- bis mittlere Bearbeitung von rostfreiem Stahl.

YBM 251

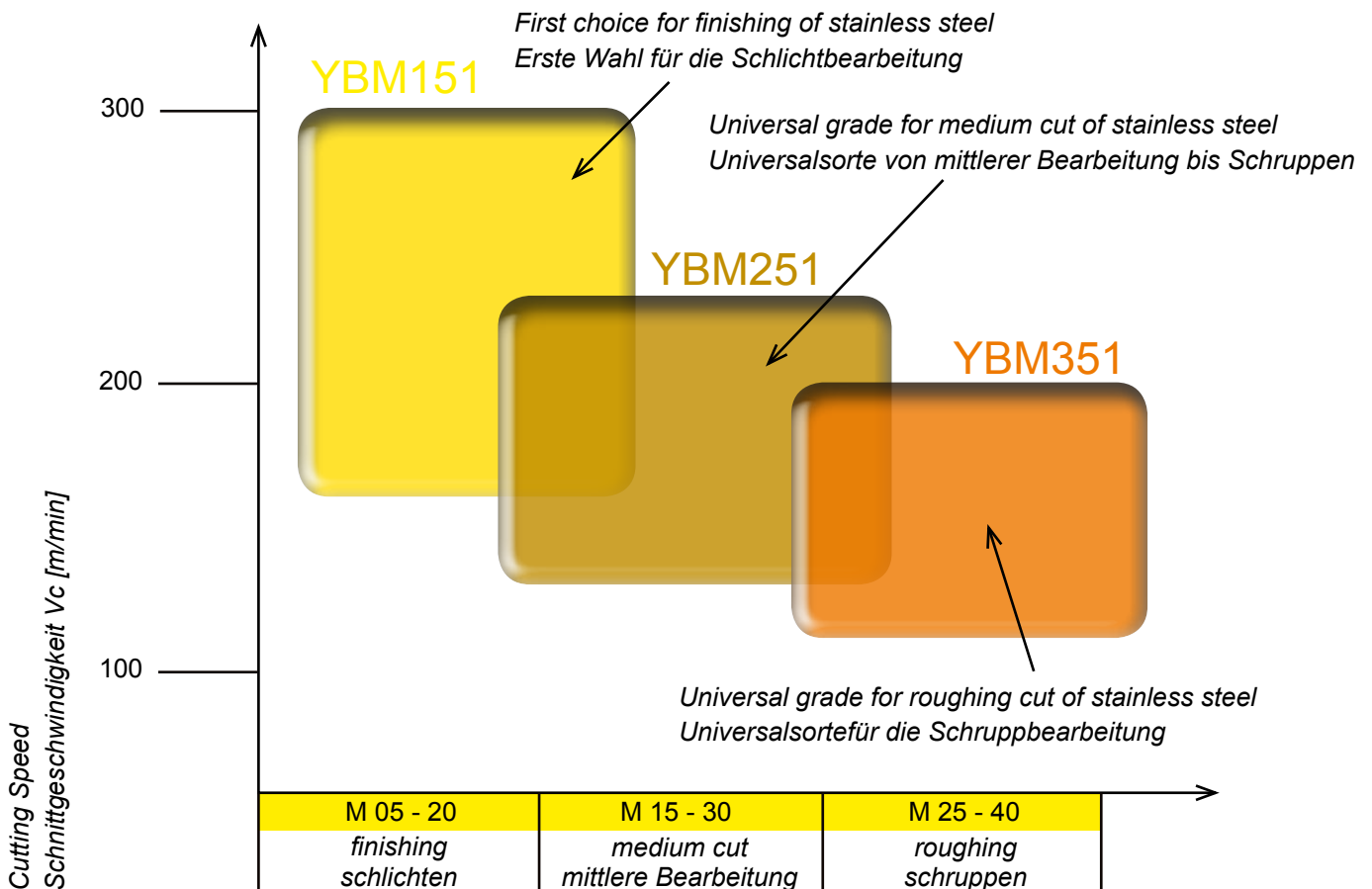
Substrate with good toughness and strength, in combination with Ti(CN), thin layer AL₂O₃, TiN coating. It is a premium grade for semi-finishing to light roughing of stainless steel at continuous and intermittent machining conditions.

Universal einsetzbares CVD-beschichtetes Hartmetall aus TiCN, Al₂O₃ und TiN mit guter Zähigkeit und Verschleißfestigkeit. Optimiert für mittlere Drehbearbeitung von rostfreiem Stahl mit und ohne Schnittunterbrechung.

YBM 351

Coated carbide grade with very good strength and impact resistance. It is suitable for rough turning of stainless steel at low to moderate cutting speed or interrupted cutting,

Beschichtete Hartmetallsorte mit ausgezeichneter Widerstandsfähigkeit und Schneidkanten-sicherheit. Ideal für schwere Schruppbearbeitung von rostfreiem Stahl und Stahl bei mittleren Schnittgeschwindigkeiten oder bei Schnittunterbrechung.



YBD

Application field CVD,
turning grade of Cast Iron
Anwendungsbereich
CVD, Drehsorten für Guss

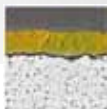
YBD 052



CVD coated grade with excellent wear resistance in combination with MT-Ti(CN), thick layer AL₂O₃. Best grade for machining of gray cast iron (GG) under high speed and dry machining.

CVD-beschichtete Premiumsorte mit ausgezeichneter Verschleißfestigkeit. Die Kombination von MT-TiCN und einer dicken AL₂O₃ Auflage eignet sich besonders zum Bearbeiten von Grauguss (GG) bei hohen Schnittgeschwindigkeiten und Trockenbearbeitung.

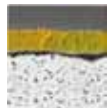
YBD 102



Modified CVD coating the hard fine grain carbide substrate. It is optimized for machining of cast iron, special nodular cast iron and hard steel at high speeds.

Modifizierte CVD Beschichtung auf einem hartem feinkörnigen Hartmetall. Es optimiert für die Bearbeitung von Guss, besonders Kugelgraphitguss und hoch vergütetem Stahl bei hohen Geschwindigkeiten.

YBD 152



Hard medium fine corn substrate in combination of TiCN, thick AL₂O₃ coating. It is suitable for machining of gray cast iron and nodular cast iron under normal cutting conditions from low to moderate cutting speeds.

Hartes mittel-feinkörniges Substrat mit TiCN, dicker AL₂O₃ Auflagen. Es ist geeignet für die Bearbeitung von Grauguss und Kugelgraphitguss mit niedrigen bis mittleren Schnittgeschwindigkeiten.

YBD 252



Tough substrate in combination with TiN, TiCN, thick AL₂O₃ coating. It is good for turning of cast irons under favorable conditions. And for milling of cast iron and alloy steel.

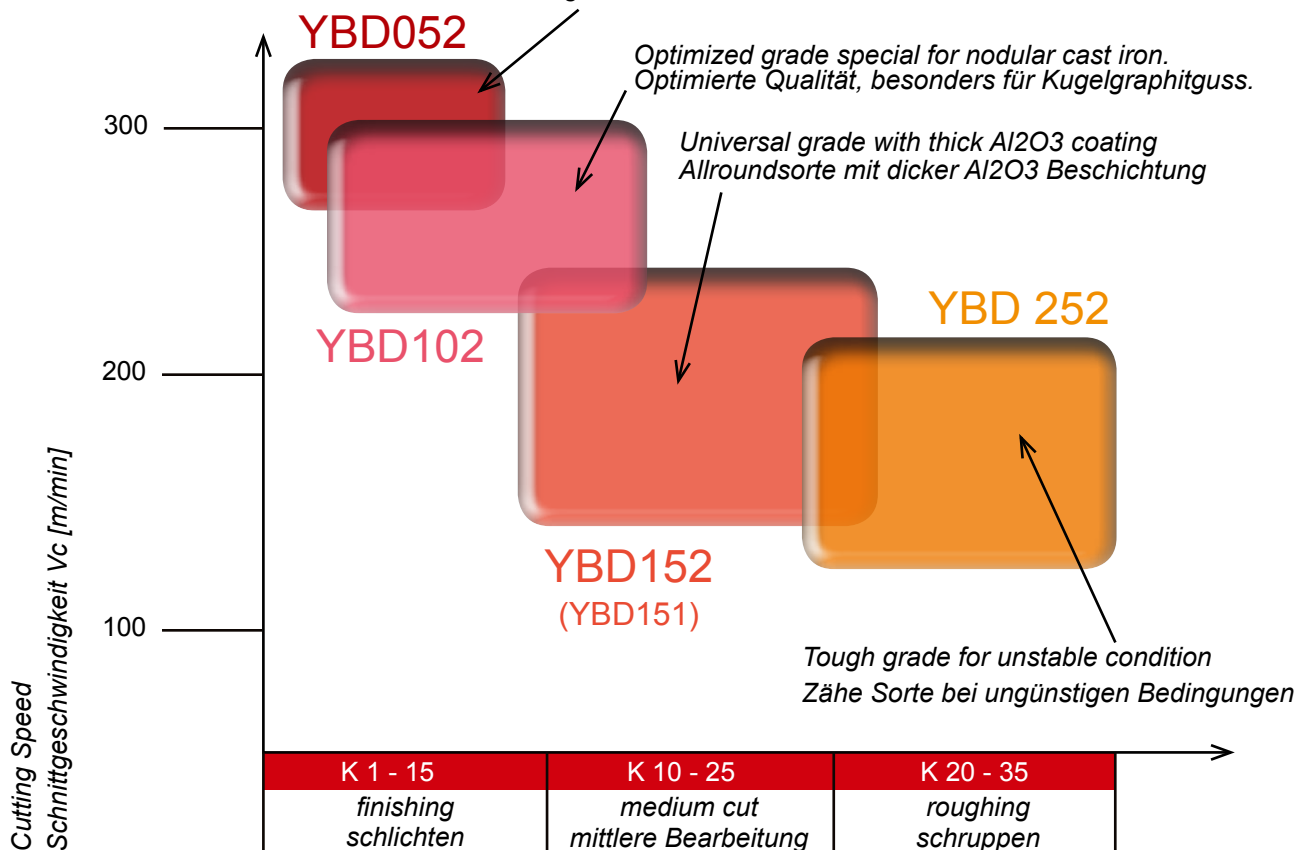
Zähes Substrat mit TiN, TiCN, dicke AL₂O₃ Auflagen. Zum Drehen von Guss bei ungünstigen Bedingungen. Zum Fräsen von Guss und legierten Stahl.

Special High Speed Finishing grade for grey cast iron material
Speziell für die Highspeed-Schlichtbearbeitung von Grauguss

Optimized grade special for nodular cast iron.
Optimierte Qualität, besonders für Kugelgraphitguss.

Universal grade with thick Al₂O₃ coating
Allroundsorte mit dicker Al₂O₃ Beschichtung

Tough grade for unstable condition
Zähe Sorte bei ungünstigen Bedingungen



Turning · Drehen



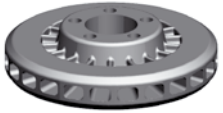
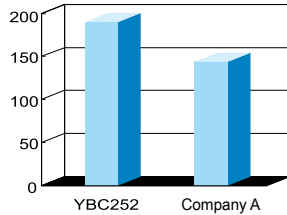
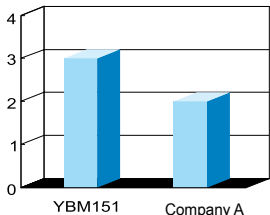
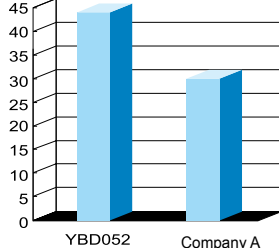
- Recommended combination of grades, chip breaker and cutting data.
Empfohlene Kombination von Sorten, Spanbrechern und Schnittdaten.

P		M		K	
grade Sorte	chip breaker Spanbrecher	grade Sorte	chip breaker Spanbrecher	grade Sorte	chip breaker Spanbrecher
YBC151 YBC152	DF	YBM151	EF EM ER	YBD052	PM
YBC251 YBC252	DM PM	YBM251	EM ER	YBD102	PM, DR
YBC251 YBC252	DR (doppelseitig)	YBM351	EM ER	YBD152	Flat, DR
YBC351	DR			YBD252	Flat
YBC351	HDR				

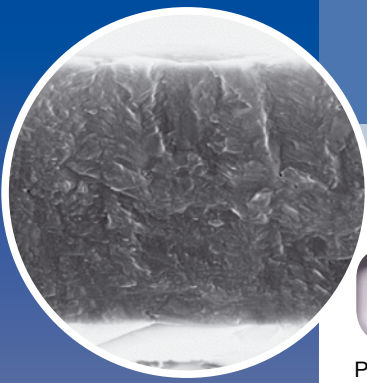
- Recommended cutting condition · Empfohlene Schnittdaten

Workpiece Material Werkstück Material	application · Anwendung	grade · Sorte	Recommended Cutting Speed m/min Schnittgeschwindigkeit m/min	
 Steel Stahl	Finishing Schlichten	YBC151	180-460	
		YBC152	220-500	
	Semi-finishing Mittlere Bearbeitung	YBC251	160-440	
		YBC252	180-480	
	Roughing	YBC351	130-380	
 Stainless Steel Rostfreier Stahl	Semi-finishing Mittlere Bearbeitung	YBM151 YBM251 YBM 351	110-280	
	 Cast Iron Gusseisen	Roughing Schruppen	YBD052 YBD102	200-500 200-480
		Semi-finishing Mittlere Bearbeitung	YBD151 YBD152	180-450 190-450
	Roughing	YBD252	150-380	

Machining example · Bearbeitungsbeispiele

Application Anwendung	Typ	WNMG060408 PM	CNMG190616-ER	TNMA220412
	Grade Sorte	YBC252	YBM151	YBD052
Workpiece Werkstück				
Workpiece Material & Hardness		45 steel HB220	Duplex Stainless Steel HB260	Grey cast iron HB280
Cutting Condition Schnitt- bedingungen	Parameters Schnittdaten	V=220m/min ap=1.5~2mm f=0.25mm/r	V=103m/min ap=1.5mm f=0.3mm/r	V _{max} =400m/min ap=1.3~2.5mm f=0.4~1.1mm/r
	Cutting Liquid Kühlmittel	Dry Cutting · Trockenbearbeitung	Dry Cutting · Trockenbearbeitung	Dry Cutting · Trockenbearbeitung
Machining result Ergebnis				
Werkstücke pro Schneide Workpiece Per Edge		YBC252 Company A	YBM151 Company A	YBD052 Company A

**COATED Cemented Carbide PVD
Beschichtetes Hartmetall PVD**



Makes it easy to machine materials which hard to be machined...

Die Lösung für die Bearbeitung von schwer zu zerspanenden Materialien...

YBG 102
N10 (N01-N10)
S10 (S01-S20)

PVD nano-TiAlN coated fine grain carbide grade. It is suitable for finishing and semi-finishing turning of high-temperature alloys, nonferrous metal (Aluminium with Si >= 12%) and finishing of stainless steel.

Nano-TiAlN PVD-beschichtete, fein körnige Hartmetallsorte. Gut geeignet zum Drehen von warmfesten Superlegierungen, NE-Metallen (Aluminium mit Si >= 12%) und zum Schlichten von rostfreiem Stahl.

YBG 202
P20 (P10-P25)
M20 (M10-M25)

PVD nano-TiAlN (2~4µm) coated fine grain carbide grade. Good performance in combination of toughness and wear resistance, suitable for turning, parting, grooving of steel, stainless steel, cast iron and high-temperature alloys in finishing and semi-finishing machining.

Nano-TiAlN (2~4µm) PVD beschichtete, feinkörnige Hartmetallsorte. Hervorragende Kombination von Zähigkeit und Verschleißfestigkeit. Zum Drehen, Ab- und Einstechen von Stahl, rostfreiem Stahl, Guss und warmfesten Superlegierungen bei leichter und mittlerer Bearbeitung.

YBG 205
P20 (P10-P30)
M20 (M10-M30)

New nano structure coating process ensures higher toughness but also hardness. This coating grade results in smooth surface finish on the insert, which reduce friction and improved chip flows. Excellent thermal and chemical resistance. This grade is suitable to machine stainless steel and high temperature alloy.

Neue Nano-Beschichtungsstruktur mit gleichzeitiger Härte und Verschleißfestigkeit bzw. Zähigkeit. Eine ultra glatte Schichtoberfläche vermindert die Reibung und garantiert einen optimierten Spanabfluß. Die exzellente thermische und chemische Widerstandsfähigkeit zeigt diese Sorte besonders bei der Bearbeitung von rostfreien Stählen und warmfesten Legierungen.

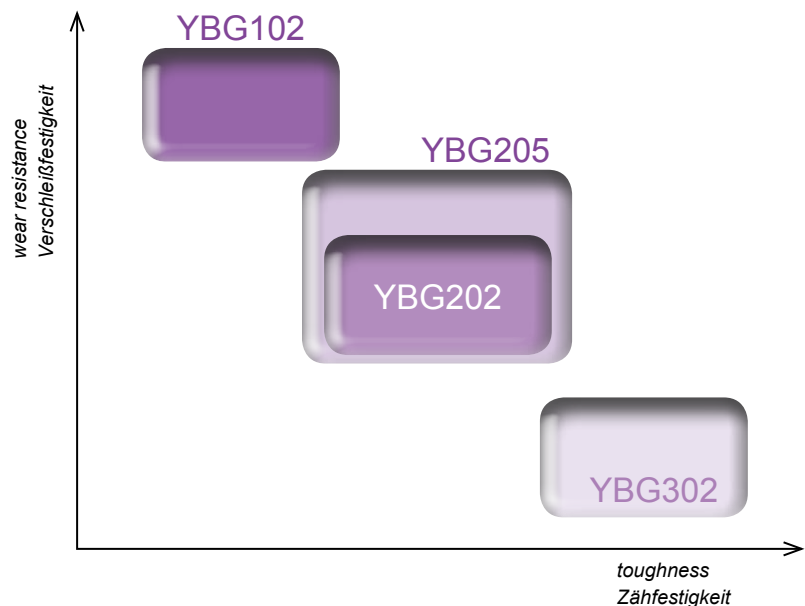
YBG 302
P30 (P20-P35)
M10 (M20-M35)

Substrate with good toughness and strength. PVD nano-TiAlN coated. It is a universal PVD grade for steel, stainless steel in turning, parting off, and grooving operation.

Universal einsetzbares PVD-beschichtetes Hartmetall mit guter Zähigkeit und Verschleißfähigkeit. Zum Drehen, Ab- und Einstechen von Stahl und rostfreiem Stahl sowie Guss.

*Special Coating process for smooth insert surface
Reduce friction - best chip evacuation
combination of wear resistance and toughness
best thermal and chemical stability*

*Spezieller Beschichtungsprozeß mit sehr glatter Oberflächenstruktur
Reduzierte Reibung - exzellenter Spanfluß
Kombination aus Verschleißfestigkeit und Zähigkeit.
Beste thermische und chemische Stabilität.*



Turning · Drehen


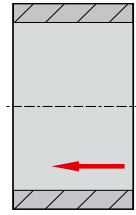

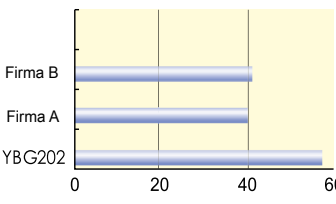
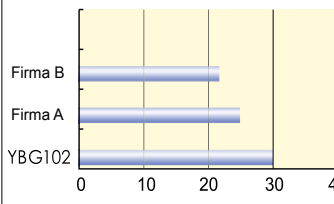
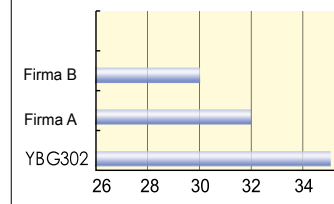
- Recommended combination of grades, chip breaker and cutting data.
Empfohlene Kombination von Sorten, Spanbrechern und Schnittdaten.

P		M		S	
grade	chip breaker	grade	chip breaker	grade	chip breaker
Sorte	Spanbrecher	Sorte	Spanbrecher	Sorte	Spanbrecher
YBG202	DM	YBG202	EF	YBG102	NF
		YBG202	EM	YBG102	NM
		YBG205	EM		

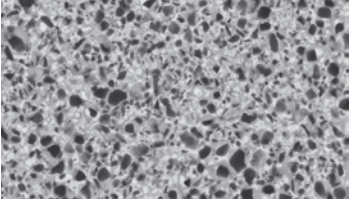
- Recommended cutting condition · Empfohlene Schnittdaten

Workpiece Material Werkstück Material	application · Anwendung	grade · Sorte	Recommended Cutting Speed m/min Schnittgeschwindigkeit m/min
P Steel Stahl	Finishing Schlichten	YBG102	180-460
	Semi-finishing Mittlere Bearbeitung	YBG202	150-380
	Roughing Schruppen	YBG302	130-360
M Stainless Steel Rostfreier Stahl	Finishing · Semi-Finishing Schlichten · Mittlere Bearbeitung	YBG202	170-300
	Roughing Schruppen	YBG302	120-250
S Heat-Resistant Steel Warmfester Stahl	Finishing Schlichten	YBG102	30-90
	Roughing	YBG202	150-380

Machining example · Bearbeitungsbeispiele

Application Anwendung	Typ Grade Sorte	CNMG120404-EF YBG 202	DNEG150404-NF YBG102	CMM160612-DR YBG302
Workpiece Werkstück				
Workpiece Material & Hardness		0Cr18Ni9 HB240	Inconel 718 HRC≥39	30Cr1Mo1V HB220-260
Cutting Condition Schnitt- bedingungen	Parameters Schnittdaten	V=200m/min ap=1mm f=0.15mm/r	Vc=80m/min ap=0.3mm f=0.15mm/r	V=100m/min ap=6mm f=0.5mm/r
	Cutting Liquid Kühlmittel	Dry Cutting · Trockenbearbeitung	Dry Cutting · Trockenbearbeitung	Dry Cutting · Trockenbearbeitung
Machining Effect Ergebnis				
Workpiece per Edge Werkstücke pro Schneide		0 20 40 60	0 10 20 30 40	26 28 30 32 34 36

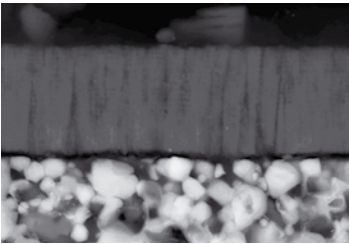
Cermet Cermet



The cermet has higher hardness and oxygen-resistant under high temperature. The further advantage of cermets is to get the excellent surface quality and tolerance under higher speed.

Die Vorteile von Cermets zeigen sich in großer Härte, Oxidationsbeständigkeit und Hochtemperaturbeständigkeit. Die weiteren Vorteile von Cermets sind exzellente Oberflächen bei hohen Schnittgeschwindigkeiten und konstanter Maßhaltigkeit.

Coated-Cermet Beschichtetes Cermet



YNG151 TiCN based cermet, with the combination of hardness, excellent toughness, excellent, resistance thermoplastic. It is suitable for super-finishing and finishing of steel, stainless steel and cast iron.

YNG151C TiCN based cermet, through special pretreatment, plus PVD Nano-TiAlN coating. Optimal combination of high wear resistance and good edge toughness, suitable for the superfishing and finishing of steel, stainless steel and cast iron for high surface finishing.


YNG 151 auf der Basis von Ti(cn)Cermet verbunden mit Härte, Zähigkeit und Widerstandsfähigkeit gegen plastische Verformung und Aufbauschneidenbildung. Geeignet zum Schlichten und Feinschlichten von Stahl, rostfreiem Stahl und Guss für eine höhere Oberflächengüte.

YNG151C TiCN Cermet. Plus PVD Nano-TiAlN Beschichtung: Optimale Kombination von sehr hoher Verschleißfestigkeit und Schneidkanten Zähigkeit. Zum Feinschlichten und Schlichten von Stahl, rostfreiem Stahl und Guss für eine hohe Oberflächengüte.

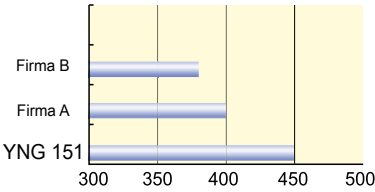
■ Recommended Cutting Conditions · Empfohlene Schnittdaten

Workpiece Material Werkstückstoff		application · Anwendung	Grade · Sorte	Recommended Cutting Speed m/min Schnittgeschwindigkeit m/min
	Steel/ Stahl	Finishing machining Schlichten	YNG151	260-550
			YNG151C	260-580
	Stainless Steel/ Rostfreier Stahl		YNG151	170-330
			YNG151C	160-350
	Cast Iron/ Gusseisen		YNG151	250-400
			YNG151C	270-420

Machining example · Bearbeitungsbeispiele



Application/ Anwendung: YNG151-CNMG120404-SF
 Workpiece material and hardness: 20CrMnTi HB180-223
 Werkstückhärte
 Machining parameters v=220m/min
 ap=0.5~1.0mm
 f=0.14mm/r

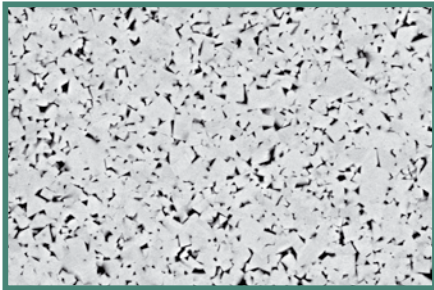


Brand	Approximate Speed (m/min)
Firma B	380
Firma A	400
YNG 151	450

good chip control and surface · gute Spankontrolle und Oberfläche

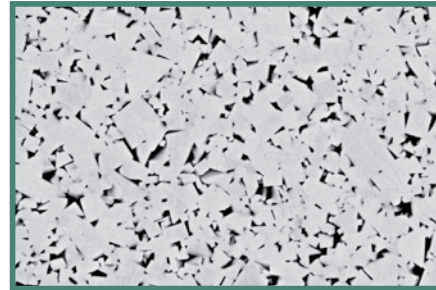
UNCOATED CARBIDE grade is widely used for non-ferrous and heat resistant material.

UNBESCHICHTETES HARTMETALL wird überwiegend für die Bearbeitung von NE-Metallen und wärmefesten Legierungen eingesetzt.



Substrate of YD101 - the combination of cemented carbide phase WC of fine grain and bonding phase Co.

YD101 ist ein unbeschichtetes Hartmetall mit feiner Körnung, einer Hardphase aus WC Carbide und eine Bindephase aus Cobald (Kombination).



Substrate of YD 201 - the combination of cemented carbide phase WC of middle grain and bonding phase Co.

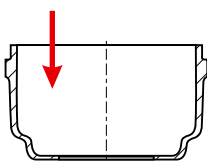
YD 201 ist ein unbeschichtetes Hartmetall mit mittlerer Korngröße, einer Hardphase aus WC Carbide und eine Bindephase aus Cobald.

■ Recommended Cutting Conditions · Empfohlene Schnittdaten

Workpiece Material Werkstückstoff	Application · Anwendung	Grade · Sorte	Recommended Cutting Speed m/min Schnittgeschwindigkeit m/min
P Steel Stahl	Finishing Schlichten	YC10	130 - 360
	Roughing Schruppen	YC40	80 - 300
K Cast Iron Gusseisen	Finishing Schlichten	YD051	100 - 170
	Semi-Finishing - Roughing Mittlere Bearbeitung -Schruppen	YD201	60 - 130
N None-ferrite materials NE Metalle	Finishing · Semi-Finishing Schlichten · Mittlere Bearbeitung	YD101	110 - ...
S Heat-Resistant Steel Wärmefester Stahl	Finishing Schlichten	YD101	20 - 50

Machining example · Bearbeitungsbeispiele

Example of Use
Bearbeitungsbeispiel



Insert: WSP: YD101-CCGX09T304-LH

Workpiece material and
hardness: Werkstückstoff
und Härte: ZL105 HB70

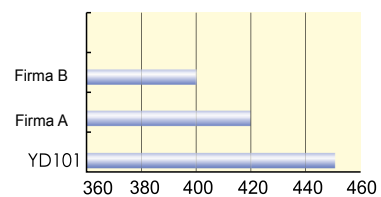
Machining parameters:

Schnittdaten:

$v=400\text{m/min}$

$a_p=1\text{mm}$

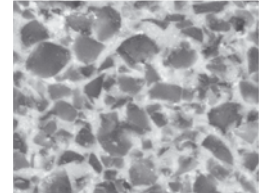
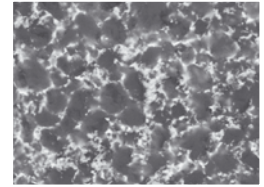
$f=0.3\text{mm/r}$



good chipcontrol and surface · gute Spankontrolle und Oberfläche

PCBN / PCD

Super-hard Cutting Material
Superharter Schneidstoff

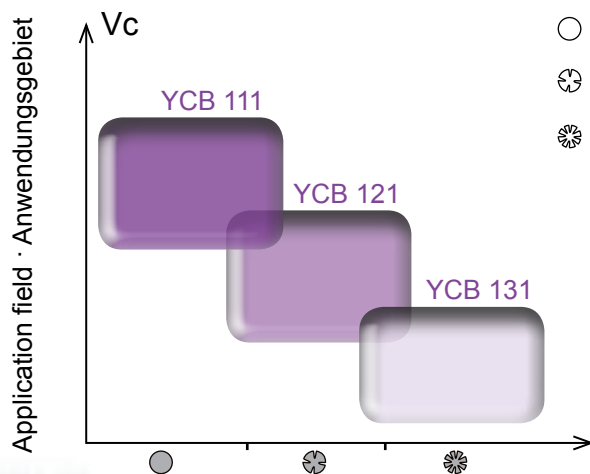


PCBN PCBN cubic boron nitride

PCBN with high hardness and good heat resistance for cutting of hardened steel (could be 1300°C), carbon steel, ball bearing steel, mould steel and high speed steel, grey cast iron, nodular graphite cast iron, chilled cast iron and Ni-based, Co-based, Cr-based and Fe-based high temperature alloy.

PCBN mit hoher Härte und Warmfestigkeit für die Bearbeitung bei hohen Temperaturen, z.B. 1300°C, bei der Bearbeitung von gehärtetem Stahl mit HRC von 50-60. Zur Bearbeitung von Stahl, Kugellagerstahl, Gussstahl, HSS, Grauguss, Kugelgraphitguss, Hartguss, Ni-, Fe-, Co-, Cr2- basis Superlegierungen.

Type · Typ	Grade Sorten	Application Anwendung	Characteristic Merkmale
Uncoated CBN Unbeschichtete CBN	YCB111	High speed continuous cutting Vollschnitt bei hoher schnittgeschwindigkeit	Best wear resistance grade and suitable for high speed continuous cutting Verschleißfeste Sorte besonders geeignet für die Hochgeschwindigkeitsbearbeitung im Vollschnitt
	YCB121	continuous and interrupted cutting (Light-Medium) Voll- und leicht unterbrochener Schnitt	Most suited for continuous and light interrupted high speed finishing due to heat resistant substrate. Durch sein bruchfestes Substrat die Universalsorte von niedriger bis hoher Schnittgeschwindigkeit mit exzellenter Standzeit.
	YCB131	Interrupted cutting (Heavy) Stark unterbrochener Schnitt	CBN with higher fracture toughness, for interrupted cutting CBN mit exzellenter Bruchzähigkeit im stark unterbrochenen Schnitt.
	YCB211	Cast iron machining, Sintered materials Gussbearbeitung, Sinterwerkstoffe	First choice for high speed finishing of grey cast iron and sintered parts Erste Wahl zum Schlichten mit hohen Schnittgeschwindigkeiten im Guss und Sinterwerkstoffe.

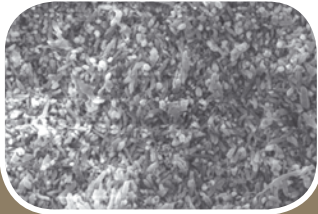


- Continuous cutting
Vollschnitt
- ⊗ Continuous and interrupted cutting
Voll- und leicht unterbrochener Schnitt
- ⊛ Interrupted cutting
Stark unterbrochener Schnitt

PCD PCD polycrystalline diamond PCD polycrystalliner Diamand

PCD with high hardness, good wear resistance, low friction coefficient and good heat conductivity, which is appropriate for cutting of non-ferrous metal (such as Cu, Al, Mg and Ti high silicon alloy etc.) and nonmetal materials (such as glass fiber, cermet and enforced plastic etc.)

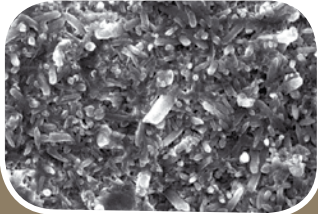
PCD mit hoher Härte guter Verschleißfähigkeit, und geringer Neigung zur Aufbauschneide, ist besonders geeignet für die Bearbeitung von NE-Metallen und (z.B. Cu, Al, Mg and Ti hochsilicium legierte Werkstoffen und Material wie Fiberglas, Cermets und verstärktes Plastik ect.



CN1000

CN1000 is Si₃N₄ ceramics grade. Optimal performance against cracking of cutting edge and thermal shocking. Suitable for finishing and semi-finishing of gray cast iron.

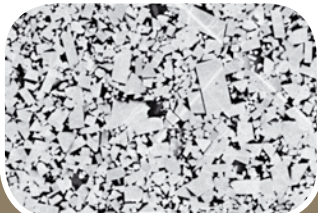
CN1000 ist eine Keramik von Si₃N₄. Optimale Eigenschaften gegen Schneidkantenbruch und dynamische Wärmebelastung. Geeignet zum Schlichten und zur mittleren Bearbeitung von Grauguss.



CN2000

CN2000 is Si₃N₄ ceramics grade with good wear-resistance and excellent toughness. Suitable for intermittent and continuous machining of grey cast iron, and Ni-based alloys.

CN2000 is Si₃N₄ Keramiksorte mit hoher Verschleißfestigkeit und ausgezeichneter Zähigkeit. Geeignet für die Bearbeitung von Grauguss mit und ohne Schnittunterbrechungen, sowie Ni-Superlegierungen.



CA1000

CA1000 is the mixed ceramics of Al₂O₃+TiCN. Good performance of wear resistance and safety cutting edge. Suitable for continuous machining of hardened steel and nodular cast iron.

CA1000 ist die Mischkeramik von Al₂O₃+TiCN. Gute Verschleißfestigkeit und Bearbeitungssicherheit oder Zähigkeit. Es ist geeignet zur Bearbeitung von Kugelgraphitguss und gehärtetem Stahl.

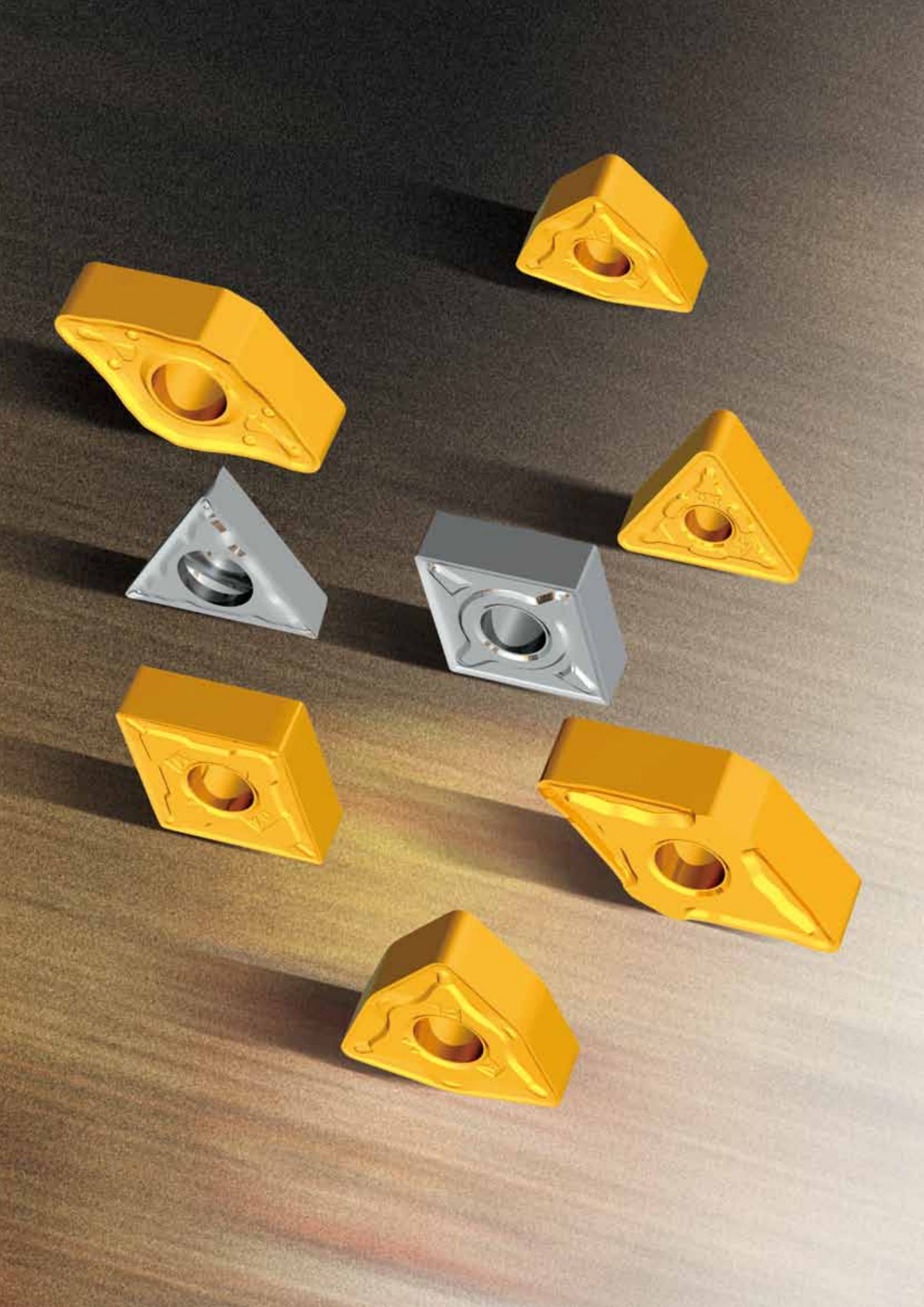


■ **Psychical properties · Physikalische Daten**

Grade Sorte	Density·Dichte (g/cm ³)	Hardness · Härte Hv(GPa)	Bending strength/ Biegebruchfestigkeit (MPa)	Fracture toughness Bruchzähigkeit (MPa · m ^{1/2})
CA1000 (Al ₂ O ₃ +TiCN)	4.2	19	≥700	4.5
CN1000 (Si ₃ N ₄)	3.25	16	≥900	7.5
CN2000 (Si ₃ N ₄)	3.25	16	≥900	8


















■ **Recommended cutting condition · Empfohlene Schnittdaten**

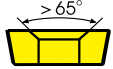

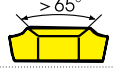

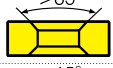

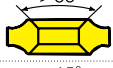
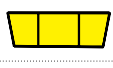
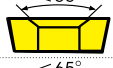
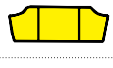

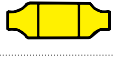


	Workpiece material Werkstückstoff	Application Anwendung	Cutting Speed Schnittgeschw. (m/min)	Feed rate Vorschub (mm/r)	Cutting depth Schnitttiefe (mm)
CA1000	Grey cast iron Malleable cast iron Grauguss	Roughing Schruppen	150-800	0.2-0.5	3.0-6.0
		Finishing Schlichten	200-1200	0.3-0.5	0.1-0.5
	Chilled cast iron Kokillenhartguss	Roughing Schruppen	30-100	0.1-0.2	0.5-1.5
		Finishing Schlichten	50-200	0.05-0.15	0.1-0.5
	Carbon steel, Alloy steel Ball bearing steel unlegierter Stahl, legierter Stahl, Kugellagerstahl	Roughing Schruppen	150-400	0.2-0.5	2.0-5.0
		Finishing Schlichten	200-800	0.05-0.20	0.1-0.5
Hardened Steel Gehärteter Stahl	Roughing Schruppen	20-100	0.1-0.2	0.5-1.5	
	Semi-finishing Mittlere Bearbeitung	40-200	0.05-0.50	0.1-0.5	
	Finishing Schlichten	300-1200	0.05-0.30	0.1-0.5	
CN1000	Grey cast iron Grauguss	Finishing Schlichten	150-1100	0.3-0.8	<5
		Finishing Schlichten	250-1200	0.15-0.4	<1
	Chilled cast iron Kokillenhartguss	Finishing Schlichten	20-250	0.2-0.8	<5
		Finishing Schlichten	60-450	0.1-0.6	<1
CN2000	Ni-based alloys, Ni-Superlegierungen	Finishing Schlichten	150-250	0.2-0.4	<5
		Finishing Schlichten	150-450	0.1-0.2	<1












Turning · Drehen

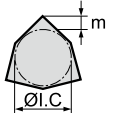
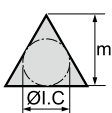

Turning Inserts Code Key · WSP ISO Kennzeichnung

Insert Shape / Schneidplattenform		
 A	 B	 C
 D	 E	 H
 K	 L	 M
 O	 P	 R
 S	 T	 T
 V	 W	Others Z
Insert Shape / Schneidplattenform		

Metric / Metrisch							
Code	Hole/Bohrung	Chipbreaker/ Spanleitstufe	Insert Section/ Plattenform	Code	Hole/Bohrung	Chipbreaker/ Spanleitstufe	Insert Section/ Plattenform
B	✓	---		N	---	---	
H	✓	Single side/ einseitig		R	---	Single side/ einseitig	
C	✓	---		F	---	Double side/ doppelseitig	
J	✓	Double side/ doppelseitig		A	✓	---	
W	✓	---		M	✓	Single side/ einseitig	
T	✓	Single side/ einseitig		G	✓	Double side/ doppelseitig	
Q	✓	---		X	---	---	Special
U	✓	Double side/ doppelseitig				---	
Insert Type / Plattentyp							



Clearance angle of main cutting edge Freiwinkel der Hauptschneide			
Code	angle / Winkel	Code	angle / Winkel
A	 3°	B	 5°
C	 7°	D	 15°
E	 20°	F	 25°
G	 30°	N	 0°
P	 11°	O	Others

Tolerances / Toleranzklasse										
										
Code	Tolerance	Incircling Tolerance ØI.C	Tolerance S	(Reference) M class precision (according to shape and size) (mm)						
A	±0.005	±0.025	±0.025	incircle	regular triangle	square	80° rhomboid	55° rhomboid	35° rhomboid	round runde
				6.35	±0.08	±0.08	±0.08	±0.11	±0.16	---
				9.525	±0.08	±0.08	±0.08	±0.11	±0.16	---
				12.7	±0.13	±0.13	±0.13	±0.15	---	---
H	±0.013	±0.013	±0.025	15.875	±0.15	±0.15	±0.15	±0.18	---	---
				19.05	±0.15	±0.15	±0.15	±0.18	---	---
E	±0.025	±0.025	±0.025	25.4	---	±0.18	---	---	---	---
				ØI.C (mm) Incircling tolerance						
J	±0.005	±0.05±0.13	±0.025	incircle	regular triangle	square	80° rhomboid	55° rhomboid	35° rhomboid	round runde
				6.35	±0.05	±0.05	±0.05	±0.05	±0.05	---
				9.525	±0.05	±0.05	±0.05	±0.05	±0.05	±0.05
				12.7	±0.08	±0.08	±0.08	±0.08	---	±0.08
M	±0.08±0.18	±0.05±0.13	±0.13	15.875	±0.10	±0.10	±0.10	±0.10	---	±0.10
				19.05	±0.10	±0.10	±0.10	±0.10	---	±0.10
N	±0.08±0.18	±0.05±0.13	±0.025	25.4	---	±0.13	---	---	---	±0.13
				ØI.C (mm) Incircling tolerance						
U	±0.13±0.38	±0.08±0.25	±0.13	incircle	regular triangle	square	80° rhomboid	55° rhomboid	35° rhomboid	round runde
				6.35	±0.05	±0.05	±0.05	±0.05	±0.05	---
				9.525	±0.05	±0.05	±0.05	±0.05	±0.05	±0.05
				12.7	±0.08	±0.08	±0.08	±0.08	---	±0.08
G	±0.025	±0.025	±0.13	15.875	±0.10	±0.10	±0.10	±0.10	---	±0.10
				19.05	±0.10	±0.10	±0.10	±0.10	---	±0.10
F	±0.005	±0.013	±0.025	25.4	---	±0.13	---	---	---	±0.13
				ØI.C (mm) Incircling tolerance						

Cutting edge length / Schneidenlänge (mm)								
Ø of IC (mm)	Insert Shape/ Plattenform							
	C	D	R	S	T	V	W	K
3.97					06			
5.0			05					
5.56					09			
6.0			06					
6.35	06	07			11	11		
8.0			08					
9.525	09	11	09	09	16	16	06	16
10.0			10					
12.0			12					
12.7	12	15	12	12	22	22	08	
15.875	16		15	15	27			
16.0		19	16					
19.05	19		19	19	33			
20.0			20					
25.0	25	25	25					
25.4			25	25				
31.75			31					
32			32					

Insert thickness / Dicke (mm)	
Code	Insert thickness (mm)
00	0.79
T0	0.99
01	1.59
T1	1.98
02	2.38
T2	2.58
03	3.18
T3	3.97
04	4.76
T4	4.96
05	5.96
T5	5.95
06	6.35
T6	6.75
07	7.94
09	9.52
T9	9.72
11	11.11
12	12.70

22 04 08 - DM (ISO)

4 3 2 (inch)

Incircle Innenkreis	
code	diameter (mm)
2	6.35
3	9.525
4	12.7
5	15.875
6	19.05
8	25.4

Thickness Dicke	
code	thickness (mm)
2	3.18
3	4.76
4	6.35
5	7.94
6	9.52

Nose radius Eckenradius	
code	Nose radius (mm)
0	0.2
1	0.4
2	0.8
3	1.2
4	1.6
5	2.0
6	2.4


Nose radius Eckenradius	
code	Radius (mm)
00	no Radius
02	0.2
04	0.4
08	0.8
12	1.2
16	1.6
20	2.0
24	2.4
32	3.2
X	Others
MO	Round Inserts Runde Platten

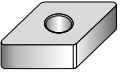
Code Chipbreakers Spanleitstufen		
DF	DM	DR


Turning · Drehen


Turning Insert Comparison List · WSP Vergleichstabelle


Metric and britain system comparison list of general turning insert/
Vergleichstabelle für allgemeine Drehwendeschneidplatten (Metrisch / Britain System)

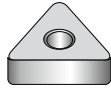
C Type Negative angle/ WSP	(ISO)	(Inch)	Chipbreaker/ Spanleitstufe
Insert shape 	090304	321	-DF -WG -SF -EF -NF -PM -DM -EM -NM -DR -ER -HDR
	090308	322	
	120404	431	
	120408	432	
	120412	433	
	120416	434	
	160608	542	
	160612	543	
	160616	544	
	190608	642	
	190612	643	
	190616	644	
	190624	646	
	250724	856	
	250732	858	
250924	866		
250932	868		


D Type Negative angle/ WSP	(ISO)	(Inch)	Chipbreaker/ Spanleitstufe
Insert shape 	110404	331	-DF -WG -SF -NF -PM -DM -EM -NM -DR -ER -HDR
	110408	332	
	110412	333	
	150404	431	
	150408	432	
	150412	433	
	150604	441	
	150608	442	
	150612	443	
	150616	444	
	190608	542	
	190612	543	

V Type Negative angle/ WSP	(ISO)	(Inch)	Chipbreaker/ Spanleitstufe
Insert shape 	160404	331	-DF -EF
	160408	332	-SF -NF
	160412	333	-PM -DM -EM -NM


R Type Negative angle/ WSP	(ISO)	(Inch)	Chipbreaker/ Spanleitstufe
Insert shape 	0903MO	32	
	1204MO	43	

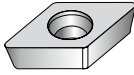
W Type Negative angle/ WSP	(ISO)	(Inch)	Chipbreaker/ Spanleitstufe	
Insert shape 	06T304	3(2.5)1	-DF	
	06T308	3(2.5)2	-WG	
	06T312	3(2.5)3	-SF	
	060404	331	-EF	
	060408	332	-NF	
	060412	333	-PM	
	080404	431	-DM	
	080408	432	-EM	
	080412	433	-NM	
				-DR


T Type Negative angle/ WSP	(ISO)	(Inch)	Chipbreaker/ Spanleitstufe
Insert shape 	113304	221	-DF -WG -SF -EF -PM -DM -EM -DR -ER -HDR
	110308	222	
	160404	331	
	160408	332	
	160412	333	
	220404	431	
	220408	432	
	220412	433	
	220416	434	
	270608	542	
	270612	543	
	270616	544	


S Type Negative angle/ WSP	(ISO)	(Inch)	Chipbreaker/ Spanleitstufe
Insert shape 	090304	321	-DF -SF -EF -PM -DM -EM -NM -DR -ER -HDR
	090308	322	
	090312	323	
	120404	431	
	120408	432	
	120412	433	
	120416	434	
	150608	542	
	150612	543	
	150616	544	
	190412	633	
	190424	636	
	190612	643	
	190616	644	
	250724	856	
	250732	858	
	250924	866	
	250932	868	


Metric and Britain system comparison list of general turning insert/
Vergleichstabelle für allgemeine Drehwendeschneidplatten (Metrisch / Britain System)

C Type Positive angle/ WSP	(ISO)	(Inch)	Chipbreaker/ Spanleitstufe
Insert shape 	060202	2(1.5)0	-SF -HF -EF -HM -EM -HR -LH
	060204	2(1.5)1	
	060208	2(1.5)2	
	09T302	3(2.5)0	
	09T304	3(2.5)1	
	09T308	3(2.5)2	
	120404	431	
	120408	432	
	120412	433	

D Type Positive angle/ WSP	(ISO)	(Inch)	Chipbreaker/ Spanleitstufe
Insert shape 	070202	2(1.5)0	-SF -HF -EF -HM -EM -HR -LH
	070204	2(1.5)1	
	070208	2(1.5)2	
	11T302	3(2.5)0	
	11T304	3(2.5)1	
	11T308	3(2.5)2	
	11T312	3(2.5)3	

T Type Positive angle/ WSP	(ISO)	(Inch)	Chipbreaker/ Spanleitstufe
Insert shape 	06T102	1.2(1.2)0	-SF -HF -EF -HM -EM -HR -LH
	06T104	1.2(1.2)1	
	06T108	1.2(1.2)2	
	090202	1.8(1.5)0	
	090204	1.8(1.5)1	
	090208	1.8(1.5)2	
	110202	2(1.5)0	
	110204	2(1.5)1	
	110208	2(1.5)2	
	110302	220	
	110304	221	
	110308	222	
	16T302	30	
	16T304	31	
	16T308	32	
	16T312	33	
	160400	330	
	220408	432	
	220412	433	
	220416	434	
	270408	532	
	270412	533	
	330612	643	
	330616	644	

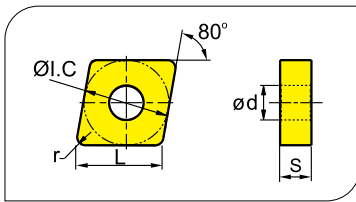
S Type Positive angle/ WSP	(ISO)	(Inch)	Chipbreaker/ Spanleitstufe
Insert shape 	060204	2(1.5)1	-HF -EF -HM -EM -HR -LH
	09T302	3(2.5)0	
	09T304	3(2.5)1	
	09T308	3(2.5)2	
	120404	431	
	120408	432	
	120412	433	
	150404	531	
	150408	532	
	150412	533	
	190408	632	
	190412	633	
	190416	634	

V Type Positive angle/ WSP	(ISO)	(Inch)	Chipbreaker/ Spanleitstufe
Insert shape 	110202	2(1.5)0	-SF -HF -NF -LH
	110204	2(1.5)1	
	110208	2(1.5)2	
	110302	220	
	110304	221	
	110308	222	
	160402	330	
	160404	331	
	160408	332	
	160412	333	

Turning · Drehen

Cemented carbide and cermet Inserts · Hartmetall und Cermet WSP

CN** Negative Insert · Negative WSP



Workpiece Material / Werkstoffe	Steel / Stahl (P)	Stainless Steel / Rostfreier Stahl (M)	Cast iron / Gusseisen (K)	Non-ferrite material / Ne Metalle (N)	Heat-resistant steel / Warmfester Stahl (S)
Symbol	Yellow circle (Ideal)	Yellow star (Normal)	Yellow star (Normal)	Yellow star (Normal)	Yellow star (Normal)
Condition	Gute Bearbeitungsbedingungen	Normale Bearbeitungsbedingungen	Normale Bearbeitungsbedingungen	Normale Bearbeitungsbedingungen	Normale Bearbeitungsbedingungen
Condition	Unfavorable Machining Condition	Unfavorable Machining Condition	Unfavorable Machining Condition	Unfavorable Machining Condition	Unfavorable Machining Condition
Condition	Unfavorable Machining Condition	Unfavorable Machining Condition	Unfavorable Machining Condition	Unfavorable Machining Condition	Unfavorable Machining Condition

Insert Shape / Schneidplattenform	Type · Typ	Dimension (mm) / Abmessung						Coated Carbide / Beschichtetes Hartmetall													Cermet unbeschichtet	Cermet Coated / beschicht. Cermet	Uncoated Carbide / unbeschicht. Hartmetall																					
		L	I.C	S	d	r	YBC151	YBC251	YBC351	YBG102	YBG202	YBG205	YBG302	YBM151	YBM251	YBM351	YBD052	YBD102	YBD151	YBD152			YBD252	YNG151	YNG151C	YC10	YC40	YD051	YD101	YD201														
DF Finishing Schlichten	CNMG090304-DF	9.7	9.525	3.18	3.81	0.4	●			○												○																						
	CNMG090308-DF	9.7	9.525	3.18	3.81	0.8	●															○																						
	CNMG120404-DF	12.9	12.7	4.76	5.16	0.4	●	●	○			○	○	○								○	●	●																				
	CNMG120408-DF	12.9	12.7	4.76	5.16	0.8	●	●	○				○	○	○							○	●																					
	CNMG120412-DF	12.9	12.7	4.76	5.16	1.2	●	○								○																												
WG Wiper	CNMG120404-WG	12.9	12.7	4.76	5.16	0.4	●	○																																				
	CNMG120408-WG	12.9	12.7	4.76	5.16	0.8	●	●		○		○					○				●																							
	CNMG120412-WG	12.9	12.7	4.76	5.16	1.2	●	●		○		○																																
	CNMG160608-WG	16.1	15.875	6.35	6.35	0.8		○																																				
	CNMG160612-WG	16.1	15.875	6.35	6.35	1.2		○																																				
SF Finishing Schlichten	CNMG090304-SF	9.7	9.525	3.18	3.81	0.4																○																						
	CNMG090308-SF	9.7	9.525	3.18	3.81	0.8																○																						
	CNMG120404-SF	12.9	12.7	4.76	5.16	0.4																○																						
	CNMG120408-SF	12.9	12.7	4.76	5.16	0.8																○																						
	CNMG120412-SF	12.9	12.7	4.76	5.16	1.2																																						
EF Finishing Schlichten	CNMG090304-EF	9.7	9.525	3.18	3.81	0.4							●	○																														
	CNMG090308-EF	9.7	9.525	3.18	3.81	0.8							●	○																														
	CNMG120404-EF	12.9	12.7	4.76	5.16	0.4		●				●	○	●	●																													
	CNMG120408-EF	12.9	12.7	4.76	5.16	0.8		○	●			●	●	○	●	●																												
	CNMG120412-EF	12.9	12.7	4.76	5.16	1.2							●	○	○	●	●																											

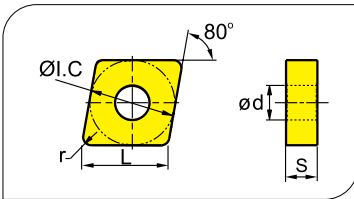
Tool holder / Klemmhalter



Page / Seite A158 A159 A170 A171 A216

● Ex Stock / ab Lager ○ On demand / auf Anfrage

CN** Negative Insert·Negative WSP



● Ideal Machining Condition / Gute Bearbeitungsbedingungen
● Normal Machining Condition / Normale Bearbeitungsbedingungen
⚡ Unfavorable Machining Condition / Ungünstige Bearbeitungsbedingungen

Workpiece Material / Werkstoffe	P	M	K	N	S
P Steel / Stahl	●●●●●●●●●●	●●●●●●●●●●	●●●●●●●●●●	●●●●●●●●●●	●●●●●●●●●●
M Stainless Steel / Rostfreier Stahl	●●●●●●●●●●	●●●●●●●●●●	●●●●●●●●●●	●●●●●●●●●●	●●●●●●●●●●
K Cast iron / Gusseisen	●●●●●●●●●●	●●●●●●●●●●	●●●●●●●●●●	●●●●●●●●●●	●●●●●●●●●●
N Non-ferrite material / Ne Metalle	●●●●●●●●●●	●●●●●●●●●●	●●●●●●●●●●	●●●●●●●●●●	●●●●●●●●●●
S Heat-resistant steel / Warmfester Stahl	●●●●●●●●●●	●●●●●●●●●●	●●●●●●●●●●	●●●●●●●●●●	●●●●●●●●●●

Insert Shape Schneid- plattenform	Type · Typ	Dimension (mm) Abmessung					Coated Carbide Beschichtetes Hartmetall												Cermet unbeschichtet	Cermet Coated beschicht. Cermet	Uncoated Carbide unbeschicht. Hartmetall										
		L	I.C	S	d	r	YBC151	YBC251	YBC351	YBG102	YBG202	YBG205	YBG302	YBM151	YBM251	YBM351	YBD052	YBD102			YBD151	YBD152	YBD252	YNG151	YNG151C	YC10	YC40	YD051	YD101	YD201	
NF 	CNEG120404-NF	12.9	12.7	4.76	5.16	0.4			●																						
	CNEG120408-NF	12.9	12.7	4.76	5.16	0.8			●																						
	CNEG120412-NF	12.9	12.7	4.76	5.16	1.2			○																						
PM 	CNMG090304-PM	9.7	9.525	3.18	3.81	0.4		●																							
	CNMG090308-PM	9.7	9.525	3.18	3.81	0.8		●																							
	CNMG120404-PM	12.9	12.7	4.76	5.16	0.4	●	●						○			●		●												
	CNMG120408-PM	12.9	12.7	4.76	5.16	0.8	●	●						○			●	●	●	●	○								○		
	CNMG120412-PM	12.9	12.7	4.76	5.16	1.2	●	●						○			●	●	●	●	●										
	CNMG120416-PM	12.9	12.7	4.76	5.16	1.6	○	●									●	●	●	●	○										
	CNMG160608-PM	16.1	15.875	6.35	6.35	0.8		●									○	○	○												
	CNMG160612-PM	16.1	15.875	6.35	6.35	1.2	○	●									○	●	○	●	○										
	CNMG160616-PM	16.1	15.875	6.35	6.35	1.6	○	●									○	○	○												
	CNMG190608-PM	19.3	19.05	6.35	7.94	0.8		●									○														
	CNMG190612-PM	19.3	19.05	6.35	7.94	1.2		●									○	○		●											
	CNMG190616-PM	19.3	19.05	6.35	7.94	1.6		●									○	○	○												

Tool holder / Klemmhalter



Page Seite: A158 A159 A170 A171 A216

Insert code key
ISO Code

A42-A43

Grade selection reference
Sortenauswahl

A14/A31-A40

chip breaker selection reference
Spanbrecherauswahl

A24-A30

Recommended cutting parameters
Empfohlene Schnittparameter

A249-A253

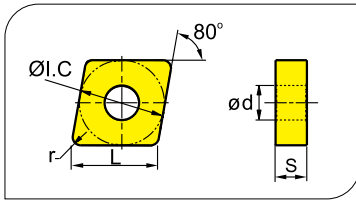
Turning · Drehen

Cemented carbide and cermet Inserts · Hartmetall und Cermet WSP

A

General Turning · Allgemeine Drehbearbeitung

CN** Negative Insert · Negative WSP



Workpiece Material / Werkstoffe	Ideal Machining Condition / Gute Bearbeitungsbedingungen			Normal Machining Condition / Normale Bearbeitungsbedingungen			Unfavorable Machining Condition / Ungünstige Bearbeitungsbedingungen		
	P	M	K	N	S				
P Steel / Stahl	●	●	●	●	●	●	●	●	●
M Stainless Steel / Rostfreier Stahl		●	●	●	●	●	●	●	●
K Cast iron / Gusseisen						●	●	●	●
N Non-ferrite material / Ne Metalle									●
S Heat-resistant steel / Warmfester Stahl						●	●		●

Insert Shape / Schneidplattenform	Type · Typ	Dimension (mm) / Abmessung					Coated Carbide / Beschichtetes Hartmetall										Cermet unbeschichtet	Cermet Coated / beschicht. Cermet	Uncoated Carbide / unbeschicht. Hartmetall										
		L	I.C	S	d	r	YBC151	YBC251	YBC351	YBG102	YBG202	YBG205	YBG302	YBM151	YBM251	YBM351			YBD052	YBD102	YBD151	YBD152	YBD252	YNG151	YNG151C	YC10	YC40	YD051	YD101
DM 	CNMG090304-DM	9.7	9.525	3.18	3.81	0.4	●	●							○							●							
	CNMG090308-DM	9.7	9.525	3.18	3.81	0.8		●							○														
	CNMG120404-DM	12.9	12.7	4.76	5.16	0.4	●	●	●		○	○	●	●								●							
	CNMG120408-DM	12.9	12.7	4.76	5.16	0.8	●	●	●		●	○	●	●					○			○						●	
	CNMG120412-DM	12.9	12.7	4.76	5.16	1.2	●	●	●					○	●				○			●							
	CNMG120416-DM	12.9	12.7	4.76	5.16	1.6		●	○						○				○										
	CNMG160608-DM	16.1	15.875	6.35	6.35	0.8	●	●	●					●					○										
	CNMG160612-DM	16.1	15.875	6.35	6.35	1.2	●	●	○					○															
	CNMG160616-DM	16.1	15.875	6.35	6.35	1.6	●	●	●					○															
	CNMG190608-DM	19.3	19.05	6.35	7.94	0.8		●						●															
	CNMG190612-DM	19.3	19.05	6.35	7.94	1.2		●	●					●															
	CNMG190616-DM	19.3	19.05	6.35	7.94	1.6		●	○					●															
EM 	CNMG120404-EM	12.9	12.7	4.76	5.16	0.4					●	●	●		●														
	CNMG120408-EM	12.9	12.7	4.76	5.16	0.8					●	●	●	●	●														
	CNMG120412-EM	12.9	12.7	4.76	5.16	1.2					●	○	●																
	CNMG160608-EM	16.1	15.875	6.35	6.35	0.8							●																
	CNMG160612-EM	16.1	15.875	6.35	6.35	1.2					●		○																
	CNMG160616-EM	16.1	15.875	6.35	6.35	1.6							○																

Tool holder / Klemmhalter



Page/Seite A158

A159

A170

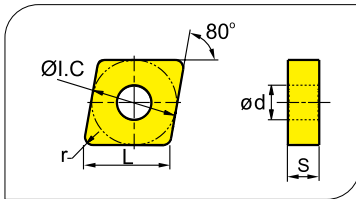
A171

A216

● Ex Stock / ab Lager ○ On demand / auf Anfrage

CN** Negative Insert-Negative WSP

● Ideal Machining Condition / Gute Bearbeitungsbedingungen
● Normal Machining Condition / Normale Bearbeitungsbedingungen
● Unfavorable Machining Condition / Ungünstige Bearbeitungsbedingungen



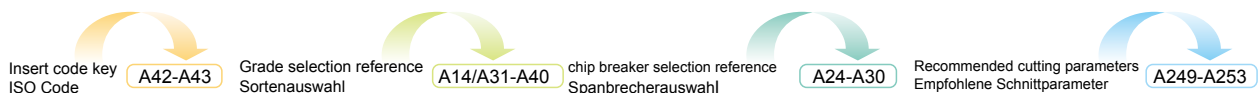
Workpiece Material / Werkstoffe	P	M	K	N	S
Steel / Stahl	●●●●●●●●●●	●●●●●●●●●●	●●●●●●●●●●	●●●●●●●●●●	●●●●●●●●●●
Stainless Steel / Rostfreier Stahl	●●●●●●●●●●	●●●●●●●●●●	●●●●●●●●●●	●●●●●●●●●●	●●●●●●●●●●
Cast iron / Gusseisen	●●●●●●●●●●	●●●●●●●●●●	●●●●●●●●●●	●●●●●●●●●●	●●●●●●●●●●
Non-ferrous material / Ne Metalle	●●●●●●●●●●	●●●●●●●●●●	●●●●●●●●●●	●●●●●●●●●●	●●●●●●●●●●
Heat-resistant steel / Warmfester Stahl	●●●●●●●●●●	●●●●●●●●●●	●●●●●●●●●●	●●●●●●●●●●	●●●●●●●●●●

Insert Shape / Schneidplattenform	Type · Typ	Dimension (mm) / Abmessung					Coated Carbide / Beschichtetes Hartmetall										Cermet unbeschichtet	Cermet Coated / beschicht. Cermet	Uncoated Carbide / unbeschicht. Hartmetall									
		L	I.C	S	d	r	YBC151	YBC251	YBC351	YBG102	YBG202	YBG205	YBG302	YBM151	YBM251	YBM351			YBD052	YBD102	YBD151	YBD152	YBD252	YNG151	YNG151C	YC10	YC40	YD051
NM Medium Cut / Mittl. Bearb.	CNMG120404-NM	12.9	12.7	4.76	5.16	0.4																						
	CNMG120408-NM	12.9	12.7	4.76	5.16	0.8				●																	○	
	CNMG120412-NM	12.9	12.7	4.76	5.16	1.2				●																		
DR Roughing / Schruppen	CNMG120408-DR	12.9	12.7	4.76	5.16	0.8	●	●	●					○		●		●										
	CNMG120412-DR	12.9	12.7	4.76	5.16	1.2	●	●	●							●	●	●										
	CNMG120416-DR	12.9	12.7	4.76	5.16	1.6	●	●	●							●		●										
	CNMG160608-DR	16.1	15.875	6.35	6.35	0.8			●								●		○									
	CNMG160612-DR	16.1	15.875	6.35	6.35	1.2	●	●	●								○		●									
	CNMG160616-DR	16.1	15.875	6.35	6.35	1.6	●	●	●								○		○									
	CNMG190608-DR	19.3	15.875	6.35	7.94	0.8			●								●		●									
	CNMG190612-DR	19.3	19.05	6.35	7.94	1.2	●	●	●								○		●									
	CNMG190616-DR	19.3	19.05	6.35	7.94	1.6	●	●	●								○		●		●							
CNMG190624-DR	19.3	19.05	6.35	7.94	2.4	●	●	●								○		○										

Tool holder / Klemmhalter



Page/Seite A158 A159 A170 A171 A216



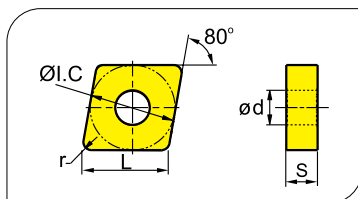
Turning · Drehen

Cemented carbide and cermet Inserts · Hartmetall und Cermet WSP

A

CN** Negative Insert · Negative WSP

● Ideal Machining Condition / Gute Bearbeitungsbedingungen
● Normal Machining Condition / Normale Bearbeitungsbedingungen
● Unfavorable Machining Condition / Ungünstige Bearbeitungsbedingungen



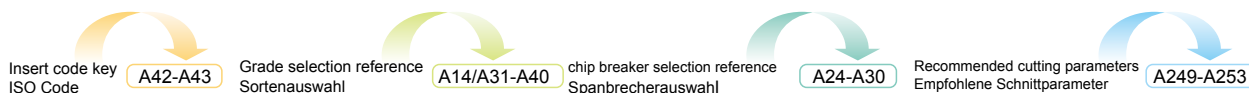
Workpiece Material / Werkstoffe	P	M	K	N	S
Steel / Stahl	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●
Stainless Steel / Rostfreier Stahl	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●
Cast iron / Gusseisen	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●
Non-ferrous material / Ne Metalle	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●
Heat-resistant steel / Warmfester Stahl	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●

Insert Shape / Schneidplattenform	Type · Typ	Dimension (mm) / Abmessung					Coated Carbide / Beschichtetes Hartmetall										Cermet unbeschichtet / Cermet beschichtet	Uncoated Carbide / unbeschicht. Hartmetall												
		L	I.C	S	d	r	YBC151	YBC251	YBC351	YBG102	YBG202	YBG205	YBG302	YBM151	YBM251	YBM351		YBD052	YBD102	YBD151	YBD152	YBD252	YNG151	YNG151C	YC10	YC40	YD051	YD101	YD201	
Flat	CNMA120404	12.9	12.7	4.76	5.16	0.4	○										●	○	○											
	CNMA120408	12.9	12.7	4.76	5.16	0.8	○										●	●	○	●							○	●		
	CNMA120412	12.9	12.7	4.76	5.16	1.2	○										●	●	○	●									●	
	CNMA120416	12.9	12.7	4.76	5.16	1.6											●	●	○	●										
	CNMA160608	16.1	15.875	6.35	6.35	0.8											○		○	○										
	CNMA160612	16.1	15.875	6.35	6.35	1.2											○	●	○	○										
	CNMA160616	16.1	15.875	6.35	6.35	1.6											●	●	○	●										
	CNMA160620	16.1	15.875	6.35	6.35	2.0													○	○										
	CNMA160630	16.1	15.875	6.35	6.35	3.0													○	○										
	CNMA190612	19.3	19.05	6.35	7.94	1.2	○										●	●	●	●							○			
CNMA190616	19.3	19.05	6.35	7.94	1.6											○	●	●	●											
Basic	CNMG120404	12.9	12.7	4.76	5.16	0.4	○	●																						
	CNMG120408	12.9	12.7	4.76	5.16	0.8	○	●		○															●	○		○		
	CNMG120412	12.9	12.7	4.76	5.16	1.2	○	●	○																				○	
	CNMG160608	16.1	15.875	6.35	6.35	0.8	○	○																						
	CNMG160612	16.1	15.875	6.35	6.35	1.2			○																					
	CNMG160616	16.1	15.875	6.35	6.35	1.6																								
	CNMG190608	19.3	19.05	6.35	7.94	0.8			○																					
	CNMG190612	19.3	19.05	6.35	7.94	1.2	○	○																						
CNMG190616	19.3	19.05	6.35	7.94	1.6			○																						

Tool holder / Klemmhalter



Page/Seite A158 A159 A170 A171 A216



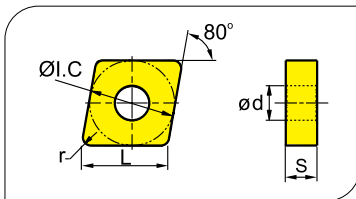
Turning · Drehen

Cemented carbide and cermet Inserts · Hartmetall und Cermet WSP

A

CN** Negative Insert · Negative WSP

● Ideal Machining Condition / Gute Bearbeitungsbedingungen ● Normal Machining Condition / Normale Bearbeitungsbedingungen ● Unfavorable Machining Condition / Ungünstige Bearbeitungsbedingungen



Workpiece Material / Werkstoffe	P	M	K	N	S
P Steel / Stahl	●	●	●		
M Stainless Steel / Rostfreier Stahl	●	●	●	●	●
K Cast iron / Gusseisen		●	●		
N Non-ferrite material / Ne Metalle				●	●
S Heat-resistant steel / Warmfester Stahl					●

Insert Shape / Schneidplattenform	Type · Typ	Dimension (mm) / Abmessung					Coated Carbide / Beschichtetes Hartmetall										Cermet unbeschichtet / YNG151	Cermet Coated / beschicht. Cermet / YNG151C	Uncoated Carbide unbeschicht. Hartmetall									
		L	I.C	S	d	r	YBC151	YBC251	YBC351	YBG102	YBG202	YBG205	YBG302	YBM151	YBM251	YBM351			YBD052	YBD102	YBD151	YBD152	YBD252	YC10	YC40	YD051	YD101	YD201
 Basic	CNMM120404	12.9	12.7	4.76	5.16	0.4	○	○																				
	CNMM120408	12.9	12.7	4.76	5.16	0.8	○	○																				
	CNMM120412	12.9	12.7	4.76	5.16	1.2																						
	CNMM190608	19.3	19.05	6.35	7.94	0.8																						
	CNMM190612	19.3	19.05	6.35	7.94	1.2																						
	CNMM190616	19.3	19.05	6.35	7.94	1.6																						
	CNMM190624	19.3	19.05	6.35	7.94	2.4																						

Tool holder / Klemmhalter

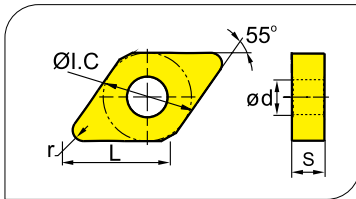


Page/Seite A158 A159 A170 A171 A216




● Ex Stock / ab Lager ○ On demand / auf Anfrage

VN** Negative Insert-Negative WSP

● Ideal Machining Condition / Gute Bearbeitungsbedingungen
⊗ Normal Machining Condition / Normale Bearbeitungsbedingungen
⊗ Unfavorable Machining Condition / Ungünstige Bearbeitungsbedingungen



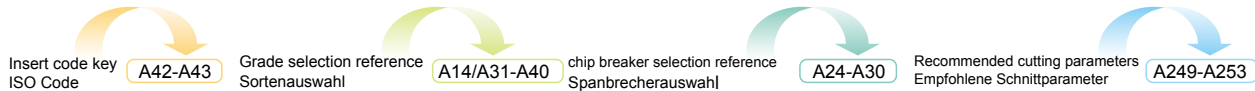
Workpiece Material / Werkstoffe	P	M	K	N	S
Steel / Stahl	●	●	●	●	●
Stainless Steel / Rostfreier Stahl	●	●	●	●	●
Cast iron / Gusseisen	●	●	●	●	●
Non-ferrous material / Ne Metalle	●	●	●	●	●
Heat-resistant steel / Warmfester Stahl	●	●	●	●	●

Insert Shape / Schneidplattenform	Type · Typ	Dimension (mm) / Abmessung					Coated Carbide / Beschichtetes Hartmetall												Cermet unbeschichtet	Cermet Coated / beschicht. Cermet	Uncoated Carbide / unbeschicht. Hartmetall							
		L	I.C	S	d	r	YBC151	YBC251	YBC351	YBG102	YBG202	YBG205	YBG302	YBM151	YBM251	YBM351	YBD052	YBD102			YBD151	YBD152	YBD252	YNG151	YNG151C	YC10	YC40	YD051
 Finishing Schlichten	DNMG110404-DF	11.6	9.525	4.76	3.81	0.4	○	●		●												●						
	DNMG110408-DF	11.6	9.525	4.76	3.81	0.8	●	●						○	○													
	DNMG110412-DF	11.6	9.525	4.76	3.81	1.2	○	○																				
	DNMG150404-DF	15.5	12.7	4.76	5.16	0.4	●	○												○		○						
	DNMG150408-DF	15.5	12.7	4.76	5.16	0.8	●	○																				
	DNMG150412-DF	15.5	12.7	4.76	5.16	1.2	○																					
	DNMG150604-DF	15.5	12.7	6.35	5.16	0.4	●	●			○		○	●								●						
	DNMG150608-DF	15.5	12.7	6.35	5.16	0.8	●	●					○															
	DNMG150612-DF	15.5	12.7	6.35	5.16	1.2	●																					
 Wiper	DNMX110404-WG	11.6	9.525	4.76	3.81	0.4	●																					
	DNMX110408-WG	11.6	9.525	4.76	3.81	0.8	○	○		○			○															
	DNMX150408-WG	15.5	12.7	4.76	5.16	0.8	●	○																				
	DNMX150412-WG	15.5	12.7	4.76	5.16	1.2																						
	DNMX150608-WG	15.5	12.7	6.35	5.16	0.8	●	●			○		○															
 Finishing Schlichten	DNMG110404-SF	11.6	9.525	4.76	3.81	0.4																	●					
	DNMG150404-SF	15.5	12.7	4.76	5.16	0.4																	●					
	DNMG150408-SF	15.5	12.7	4.76	5.16	0.8																	●					
	DNMG150604-SF	15.5	12.7	6.35	5.16	0.4																	●					
	DNMG150608-SF	15.5	12.7	6.35	5.16	0.8																	●					

Tool holder / Klemmhalter



Page/Seite A160 A161 A172 A173 A218 A219



Turning · Drehen

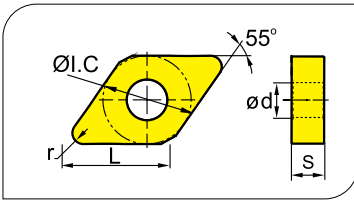
Cemented carbide and cermet Inserts · Hartmetall und Cermet WSP

A

General Turning · Allgemeine Drehbearbeitung

DN** Negative Insert-Negative WSP

● Ideal Machining Condition / Gute Bearbeitungsbedingungen ● Normal Machining Condition / Normale Bearbeitungsbedingungen ● Unfavorable Machining Condition / Ungünstige Bearbeitungsbedingungen



Workpiece Material / Werkstoffe	Steel / Stahl	Stainless Steel / Rostfreier Stahl	Cast iron / Gusseisen	Non-ferrite material / Ne Metalle	Heat-resistant steel / Warmfester Stahl
P	●	●	●	●	●
M	●	●	●	●	●
K	●	●	●	●	●
N				●	
S		●	●		●

Insert Shape Schneid- plattenform	Type · Typ	Dimension (mm) Abmessung					Coated Carbide Beschichtetes Hartmetall										Cermet unbeschichtet	Cermet Coated beschicht. Cermet	Uncoated Carbide unbeschicht. Hartmetall											
		L	I.C	S	d	r	YBC151	YBC251	YBC351	YBG102	YBG202	YBG205	YBG302	YBM151	YBM251	YBM351			YBD052	YBD102	YBD151	YBD152	YBD252	YNG151	YNG151C	YC10	YC40	YD051	YD101	YD201
Finishing Schlichten	DNMG110404-EF	11.6	9.525	4.76	3.81	0.4					●	○		●																
	DNMG110408-EF	11.6	9.525	4.76	3.81	0.8					●	○		●																
	DNMG110412-EF	11.6	9.525	4.76	3.81	1.2						○																		
	DNMG150404-EF	15.5	12.7	4.76	5.16	0.4					●	○																		
	DNMG150408-EF	15.5	12.7	4.76	5.16	0.8					●	○																		
	DNMG150412-EF	15.5	12.7	4.76	5.16	1.2						○																		
	DNMG150604-EF	15.5	12.7	6.35	5.16	0.4		●		●	●		●	●																
	DNMG150608-EF	15.5	12.7	6.35	5.16	0.8		●		●	●		●	●																
	DNMG150612-EF	15.5	12.7	6.35	5.16	1.2					●																			
finishing Schlichten	DNEG150404-NF	15.5	12.7	4.76	5.16	0.4																								
	DNEG150408-NF	15.5	12.7	4.76	5.16	0.8																								
	DNEG150604-NF	15.5	12.7	6.35	5.16	0.4				●																		○		
	DNEG150608-NF	15.5	12.7	6.35	5.16	0.8				●																		○		
finishing Schlichten	DNMG150604R-FM	15.5	12.7	6.35	5.16	0.4	○	●			●		○																	
	DNMG150608R-FM	15.5	12.7	6.35	5.16	0.8	○	●			●		○																	
	DNMG150604L-FM	15.5	12.7	6.35	5.16	0.4	○	●			●		○																	
	DNMG150608L-FM	15.5	12.7	6.35	5.16	0.8	○	●			●		○																	
Medium Cut/ Mittl. Bearb.	DNMG110404-PM	11.6	9.525	4.76	3.81	0.4	●	●	○								●													
	DNMG110408-PM	11.6	9.525	4.76	3.81	0.8	●	●	○					●	●															
	DNMG110412-PM	11.6	9.525	4.76	3.81	1.2	●	●						●	●															
	DNMG150404-PM	15.5	12.7	4.76	5.16	0.4	○	●										○	●											
	DNMG150408-PM	15.5	12.7	4.76	5.16	0.8	○	●										○	●	●										

Tool holder / Klemmhalter



Page/Seite A160

A161

A172

A173

A218

A219

● Ex Stock / ab Lager ○ On demand / auf Anfrage

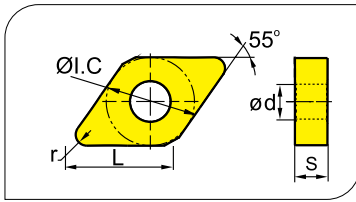
Turning · Drehen

Cemented carbide and cermet Inserts · Hartmetall und Cermet WSP



A

DN** Negative Insert-Negative WSP

● Ideal Machining Condition / Gute Bearbeitungsbedingungen
 ⊗ Normal Machining Condition / Normale Bearbeitungsbedingungen
 ⊙ Unfavorable Machining Condition / Ungünstige Bearbeitungsbedingungen



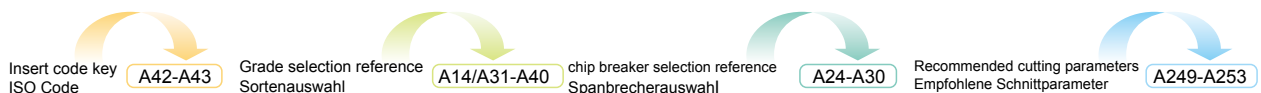
Workpiece Material / Werkstoffe	P	M	K	N	S
Steel / Stahl	●	●	●	●	●
Stainless Steel / Rostfreier Stahl	●	●	●	●	●
Cast iron / Gusseisen	●	●	●	●	●
Non-ferrous material / Ne Metalle	●	●	●	●	●
Heat-resistant steel / Warmfester Stahl	●	●	●	●	●

Insert Shape / Schneidplattenform	Type · Typ	Dimension (mm) / Abmessung					Coated Carbide / Beschichtetes Hartmetall										Cermet unbeschichtet	Cermet Coated / Beschicht. Cermet	Uncoated Carbide / unbeschicht. Hartmetall										
		L	I.C	S	d	r	YBC151	YBC251	YBC351	YBG102	YBG202	YBG205	YBG302	YBM151	YBM251	YBM351			YBD052	YBD102	YBD151	YBD152	YBD252	YNG151	YNG151C	YC10	YC40	YD051	YD101
 Medium Cut / Mittl. Bearb.	DNMG150412-PM	15.5	12.7	4.76	5.16	1.2	●																						
	DNMG150416-PM	15.5	12.7	4.76	5.16	1.6	○																						
	DNMG150604-PM	15.5	12.7	6.35	5.16	0.4	●	●	○						○	●	●		○										
	DNMG150608-PM	15.5	12.7	6.35	5.16	0.8	●	●	●						○	●	●		●										
	DNMG150612-PM	15.5	12.7	6.35	5.16	1.2	●	●	●						●	○	●		●										
	DNMG150616-PM	15.5	12.7	6.35	5.16	1.6	●										●												
 Medium Cut / Mittl. Bearb.	DNMG110404-DM	11.6	9.525	4.76	3.81	0.4	●	●	○						●						●								
	DNMG110408-DM	11.6	9.525	4.76	3.81	0.8	●	●	●						○														
	DNMG110412-DM	11.6	9.525	4.76	3.81	1.2			○																				
	DNMG150404-DM	15.5	12.7	4.76	5.16	0.4	●	●														○							
	DNMG150408-DM	15.5	12.7	4.76	5.16	0.8	●	●							○							●						○	
	DNMG150412-DM	15.5	12.7	4.76	5.16	1.2	○	○							○														
	DNMG150416-DM	15.5	12.7	4.76	5.16	1.6																							
	DNMG150604-DM	15.5	12.7	6.35	5.16	0.4	●	●	○			○	●	●								○							
	DNMG150608-DM	15.5	12.7	6.35	5.16	0.8	●	●	●			○	○	●								●							
	DNMG150612-DM	15.5	12.7	6.35	5.16	1.2	●	●	○						○														
DNMG150616-DM	15.5	12.7	6.35	5.16	1.6			●	●																				

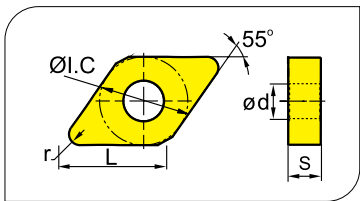
Tool holder / Klemmhalter



Page/Seite A160 A161 A172 A173 A218 A219



DN** Negative Insert · Negative WSP



● Ideal Machining Condition / Gute Bearbeitungsbedingungen
● Normal Machining Condition / Normale Bearbeitungsbedingungen
● Unfavorable Machining Condition / Ungünstige Bearbeitungsbedingungen

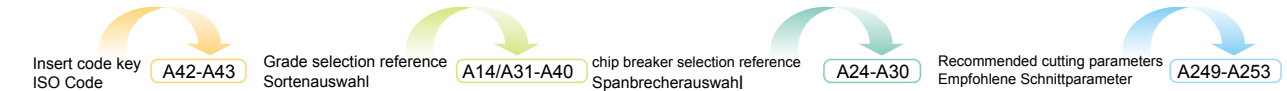
Workpiece Material / Werkstoffe	P	M	K	N	S
P Steel / Stahl	●	●	●	●	●
M Stainless Steel / Rostfreier Stahl	●	●	●	●	●
K Cast iron / Gusseisen	●	●	●	●	●
N Non-ferrite material / Ne Metalle	●	●	●	●	●
S Heat-resistant steel / Warmfester Stahl	●	●	●	●	●

Insert Shape Schneid- plattenform	Type · Typ	Dimension (mm) Abmessung					Coated Carbide Beschichtetes Hartmetall										Cermet unbeschichtet	Cermet Coated beschicht. Cermet	Uncoated Carbide unbeschicht. Hartmetall										
		L	I.C	S	d	r	YBC151	YBC251	YBC351	YBG102	YBG202	YBG205	YBG302	YBM151	YBM251	YBM351			YBD052	YBD102	YBD151	YBD152	YBD252	YNG151	YNG151C	YC10	YC40	YD051	YD101
Flat 	DNMA110416	11.6	9.525	4.76	3.81	1.6																							
	DNMA110424	11.6	9.525	4.76	3.81	2.4																							
	DNMA150404	15.5	12.7	4.76	5.16	0.4																							
	DNMA150408	15.5	12.7	4.76	5.16	0.8																							
	DNMA150604	15.5	12.7	6.35	5.16	0.4																							
	DNMA150608	15.5	12.7	6.35	5.16	0.8																							
	DNMA150612	15.5	12.7	6.35	5.16	1.2																							
	DNMA150616	15.5	12.7	6.35	5.16	1.6																							

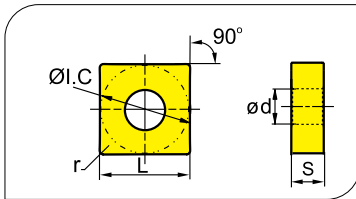
Tool holder / Klemmhalter





Page/Seite A160 A161 A172 A173 A218 A219



SN** Negative Insert Negative WSP

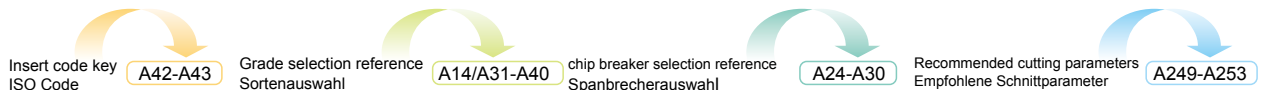


Workpiece Material Werkstoff	P Steel / Stahl	M Stainless Steel / Rostfreier Stahl	K Cast iron / Gusseseisen	N Non-ferrite material / Ne Metalle	S Heat-resistant steel / Warmfester Stahl	Ideal Machining Condition Gute Bearbeitungsbedingungen		Normal Machining Condition Normale Bearbeitungsbedingungen		Unfavorable Machining Condition Ungünstige Bearbeitungsbedingungen	
						●	●	●	●	●	●
P	●	●	●	●	●	●	●	●	●	●	●
M	●	●	●	●	●	●	●	●	●	●	●
K	●	●	●	●	●	●	●	●	●	●	●
N	●	●	●	●	●	●	●	●	●	●	●
S	●	●	●	●	●	●	●	●	●	●	●

Insert Shape Schneidplattenform	Type · Typ	Dimension (mm) Abmessung					Coated Carbide Beschichtetes Hartmetall										Cermet unbeschichtet	Cermet Coated beschicht. Cermet	Uncoated Carbide unbeschicht. Hartmetall										
		L	I.C	S	d	r	YBC151	YBC251	YBC351	YBG102	YBG202	YBG205	YBG302	YBM151	YBM251	YBM351			YBD052	YBD102	YBD151	YBD152	YBD252	YNG151	YNG151C	YC10	YC40	YD051	YD101
DF  Finishing Schichten	SNMG090304-DF	9.525	9.525	3.18	3.81	0.4																							
	SNMG090308-DF	9.525	9.525	3.18	3.81	0.8																							
	SNMG120404-DF	12.7	12.7	4.76	5.16	0.4																							
	SNMG120408-DF	12.7	12.7	4.76	5.16	0.8	●	●																					
	SNMG120412-DF	12.7	12.7	4.76	5.16	1.2	●	●																					
EF  Finishing Schichten	SNMG090304-EF	9.525	9.525	3.18	3.81	0.4			●	○																			
	SNMG090308-EF	9.525	9.525	3.18	3.81	0.8			●	○																			
	SNMG090312-EF	9.525	9.525	3.18	3.81	1.2					○																		
	SNMG120404-EF	12.7	12.7	4.76	5.16	0.4					○	●																	
	SNMG120408-EF	12.7	12.7	4.76	5.16	0.8					●	○																	
	SNMG120412-EF	12.7	12.7	4.76	5.16	1.2					●	○	●																
	SNMG150608-EF	15.875	15.875	6.35	6.35	0.8					○	○																	
SNMG150612-EF	15.875	15.875	6.35	6.35	1.2							○																	

Tool holder / Klemmhalter

PSBNR/L Kr:75°  Page/Seite A162	PSDNN Kr:45°  A163	PSKNR/L Kr:75°  A164	PSSNR/L Kr:45°  A165	MSBNR/L Kr:75°  A174	MSRNR/L Kr:75°  A175	MSKNR/L Kr:75°  A176
MSDNN Kr:45°  Page/Seite A177	PSKNR/L Kr:75°  A221					

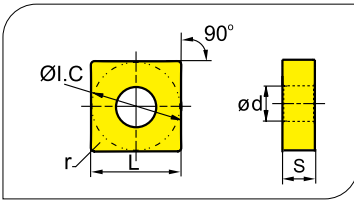


Turning · Drehen

Cemented carbide and cermet Inserts · Hartmetall und Cermet WSP

SN** Negative Insert · Negative WSP

● Ideal Machining Condition / Gute Bearbeitungsbedingungen
☉ Normal Machining Condition / Normale Bearbeitungsbedingungen
☼ Unfavorable Machining Condition / Ungünstige Bearbeitungsbedingungen



Workpiece Material / Werkstoffe	P	M	K	N	S
Steel / Stahl	●	●	●	●	●
Stainless Steel / Rostfreier Stahl	●	●	●	●	●
Cast iron / Gusseisen	●	●	●	●	●
Non-ferrite material / Ne Metalle	●	●	●	●	●
Heat-resistant steel / Warmfester Stahl	●	●	●	●	●

Insert Shape / Schneidplattenform	Type · Typ	Dimension (mm) / Abmessung					Coated Carbide / Beschichtetes Hartmetall												Cermet unbeschichtet	Cermet Coated / beschicht. Cerm.	Uncoated Carbide / unbeschicht. Hartmetall										
		L	I.C.	S	d	r	YBC151	YBC251	YBC351	YBG102	YBG202	YBG205	YBG302	YBM151	YBM251	YBM351	YBD052	YBD102			YBD151	YBD152	YBD252	YNG151	YNG151C	YC10	YC40	YD051	YD101	YD201	
SF Finishing / Schlichten	SNMG090304-SF	9.525	9.525	3.18	3.81	0.4																									
	SNMG090308-SF	9.525	9.525	3.18	3.81	0.8																									
	SNMG120404-SF	12.7	12.7	4.76	5.16	0.4																									
	SNMG120408-SF	12.7	12.7	4.76	5.16	0.8																									
	SNMG120412-SF	12.7	12.7	4.76	5.16	1.2																									
	SNMG150608-SF	15.875	15.875	6.35	6.35	0.8																									
PM Medium Cut / Mittl. Bearb.	SNMG090304-PM	9.525	9.525	3.18	3.81	0.4	●																								
	SNMG090308-PM	9.525	9.525	3.18	3.81	0.8	○	●	●								●			●											
	SNMG090312-PM	9.525	9.525	3.18	3.81	1.2	○	○																							
	SNMG120404-PM	12.7	12.7	4.76	5.16	0.4	●	●											○		○										
	SNMG120408-PM	12.7	12.7	4.76	5.16	0.8	○	●	●									●	●	●											
	SNMG120412-PM	12.7	12.7	4.76	5.16	1.2	●	●	●									○	○	●											
	SNMG120416-PM	12.7	12.7	4.76	5.16	1.6	○	○										●	●	●											
	SNMG150608-PM	15.875	15.875	6.35	6.35	0.8																									
	SNMG150612-PM	15.875	15.875	6.35	6.35	1.2		●	○									○	●		○										
	SNMG190612-PM	19.05	19.05	6.35	7.94	1.2		○										○		○											
SNMG190616-PM	19.05	19.05	6.35	7.94	1.6		○																								

Tool holder / Klemmhalter

PSBNR/L Kr:75° Page/Seite A162	PSDNN Kr:45° A163	PSKNR/L Kr:75° A164	PSSNR/L Kr:45° A165	MSBNR/L Kr:75° A174	MSRNR/L Kr:75° A175	MSKNR/L Kr:75° A176
MSDNN Kr:45° Page/Seite A177	PSKNR/L Kr:75° A221					

● Ex Stock / ab Lager ○ On demand / auf Anfrage

General Turning · Allgemeine Drehbearbeitung

A

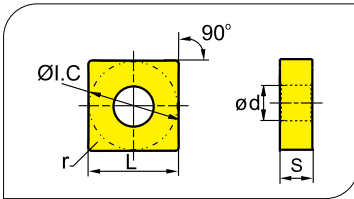
Turning · Drehen

A




General Turning · Allgemeine Drehbearbeitung

SN** Negative Insert-Negative WSP

● Ideal Machining Condition / Gute Bearbeitungsbedingungen
 ● Normal Machining Condition / Normale Bearbeitungsbedingungen
 ● Unfavorable Machining Condition / Ungünstige Bearbeitungsbedingungen



Workpiece Material / Werkstoffe	P	M	K	N	S
Steel / Stahl	●	●	●	●	●
Stainless Steel / Rostfreier Stahl	●	●	●	●	●
Cast iron / Gusseisen	●	●	●	●	●
Non-ferrous material / Ne Metalle	●	●	●	●	●
Heat-resistant steel / Warmfester Stahl	●	●	●	●	●

Insert Shape / Schneidplattenform	Type · Typ	Dimension (mm) / Abmessung					Coated Carbide / Beschichtetes Hartmetall										Cerm. unbeschichtet	Cerm. Coated beschicht. Cerm.	Uncoated Carbide / unbeschicht. Hartmetall									
		L	I.C	S	d	r	YBC151	YBC251	YBC351	YBG102	YBG202	YBG205	YBG302	YBM151	YBM251	YBM351			YBD052	YBD102	YBD151	YBD162	YBD252	YNG151	YNG151C	YC10	YC40	YD051
 Medium Cut / Mittl. Bearb.	SNMG120408-NM	12.7	12.7	4.76	5.16	0.8			●																			
	SNMG120412-NM	12.7	12.7	4.76	5.16	1.2																						
 Roughing / Schruppen	SNMG120408-DR	12.7	12.7	4.76	5.16	0.8	●	●	●								●		●									
	SNMG120412-DR	12.7	12.7	4.76	5.16	1.2	●	●	●								●		●	○								
	SNMG120416-DR	12.7	12.7	4.76	5.16	1.6	○	●	○								●		●									
	SNMG150608-DR	15.875	15.875	6.35	6.35	0.8		○												○								
	SNMG150612-DR	15.875	15.875	6.35	6.35	1.2	●	●	●								●		●									
	SNMG150616-DR	15.875	15.875	6.35	6.35	1.6		●	●								●		○									
	SNMG150624-DR	15.875	15.875	6.35	6.35	2.4		○																				
	SNMG190612-DR	19.05	19.05	6.35	7.94	1.2	○	●	●											●								
	SNMG190616-DR	19.05	19.05	6.35	7.94	1.6	●	●	●									○		●								
SNMG190624-DR	19.05	19.05	6.35	7.94	2.4	○	●	●																				
 Roughing / Schruppen	SNMM120408-DR	12.7	12.7	4.76	5.16	0.8																						
	SNMM120412-DR	12.7	12.7	4.76	5.16	1.2																						
	SNMM120416-DR	12.7	12.7	4.76	5.16	1.6																						
	SNMM150608-DR	15.875	15.875	6.35	6.35	0.8																						
	SNMM150612-DR	15.875	15.875	6.35	6.35	1.2			○																			
	SNMM150616-DR	15.875	15.875	6.35	6.35	1.6			●																			
SNMM190608-DR	19.05	19.05	6.35	7.94	0.8			○																				

Tool holder / Klemmhalter



Page/Seite A162 A163 A164 A165 A174 A175 A176



Page/Seite A177 A221

● Ex Stock / ab Lager ○ On demand / auf Anfrage

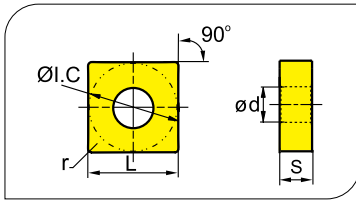
Turning · Drehen

Cemented carbide and cermet Inserts · Hartmetall und Cermet WSP


A

SN** Negative Insert-Negative WSP

● Ideal Machining Condition / Gute Bearbeitungsbedingungen
 ● Normal Machining Condition / Normale Bearbeitungsbedingungen
 ● Unfavorable Machining Condition / Ungünstige Bearbeitungsbedingungen



Workpiece Material / Werkstoffe	P	M	K	N	S
Steel / Stahl	●	●	●	●	●
Stainless Steel / Rostfreier Stahl	●	●	●	●	●
Cast iron / Gusseisen	●	●	●	●	●
Non-ferrite material / Ne Metalle	●	●	●	●	●
Heat-resistant steel / Warmfester Stahl	●	●	●	●	●

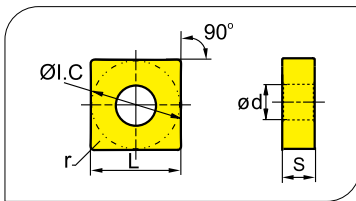
Insert Shape / Schneidplattenform	Type · Typ	Dimension (mm) / Abmessung					Coated Carbide / Beschichtetes Hartmetall										Cermet unbeschichtet	Cermet Coated / beschicht. Cermet	Uncoated Carbide / unbeschicht. Hartmetall									
		L	I.C	S	d	r	YBC151	YBC251	YBC351	YBG102	YBG202	YBG205	YBG302	YBM151	YBM251	YBM351			YBD052	YBD102	YBD151	YBD152	YBD252	YNG151	YNG151C	YC10	YC40	YD051
	SNMM120408-HDR	12.7	12.7	4.76	5.16	0.8	○	●	●																			
	SNMM120412-HDR	12.7	12.7	4.76	5.16	1.2	●	●	●					●														
	SNMM120416-HDR	12.7	12.7	4.76	5.16	1.6			○																			
	SNMM150608-HDR	15.875	15.875	6.35	6.35	0.8		●	○																			
	SNMM150612-HDR	15.875	15.875	6.35	6.35	1.2	●	●	●																			
	SNMM150616-HDR	15.875	15.875	6.35	6.35	1.6		●	○																			
	SNMM150624-HDR	15.875	15.875	6.35	6.35	2.4																						
	SNMM190608-HDR	19.05	19.05	6.35	7.94	0.8																						
	SNMM190612-HDR	19.05	19.05	6.35	7.94	1.2		●																				
	SNMM190616-HDR	19.05	19.05	6.35	7.94	1.6	●	●	○																			
	SNMM190624-HDR	19.05	19.05	6.35	7.94	2.4		○																				
	SNMM250724-HDR	25.4	25.4	7.94	9.12	2.4		○	●																			
	SNMM250924-HDR	25.4	25.4	9.525	9.12	2.4		○																				

Tool holder / Klemmhalter

PSBNR/L Kr:75° 	PSDNN Kr:45° 	PSKNR/L Kr:75° 	PSSNR/L Kr:45° 	MSBNR/L Kr:75° 	MSRNR/L Kr:75° 	MSKNR/L Kr:75° 
Page/Seite A162	A163	A164	A165	A174	A175	A176
MSDNN Kr:45° 	PSKNR/L Kr:75° 					
Page/Seite A177	A221					

● Ex Stock / ab Lager ○ On demand / auf Anfrage

SN** Negative Insert-Negative WSP



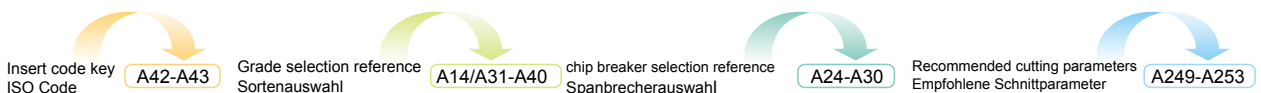
● Ideal Machining Condition / Gute Bearbeitungsbedingungen
⊙ Normal Machining Condition / Normale Bearbeitungsbedingungen
⊗ Unfavorable Machining Condition / Ungünstige Bearbeitungsbedingungen

Workpiece Material / Werkstoffe	Machining Conditions									
	P	M	K	N	S	1	2	3	4	5
P Steel / Stahl	●	●	●	●	●	●	●	●	●	●
M Stainless Steel / Rostfreier Stahl	●	●	●	●	●	●	●	●	●	●
K Cast iron / Gusseisen	●	●	●	●	●	●	●	●	●	●
N Non-ferrous material / Ne Metalle	●	●	●	●	●	●	●	●	●	●
S Heat-resistant steel / Warmfester Stahl	●	●	●	●	●	●	●	●	●	●

Insert Shape / Schneidplattenform	Type · Typ	Dimension (mm) / Abmessung					Coated Carbide / Beschichtetes Hartmetall										Cermet unbeschichtet	Cermet Coated / beschicht. Cermet	Uncoated Carbide / unbeschicht. Hartmetall										
		L	I.C	S	d	r	YBC151	YBC251	YBC351	YBG102	YBG202	YBG205	YBG302	YBM151	YBM251	YBM351			YBD052	YBD102	YBD151	YBD152	YBD252	YNG151	YNG151C	YC10	YC40	YD051	YD101
Basic 	SNMG090304	9.525	9.525	3.18	3.81	0.4	○	○																					
	SNMG090308	9.525	9.525	3.18	3.81	0.8	○	○																					
	SNMG120404	12.7	12.7	4.76	5.16	0.4	○																						
	SNMG120408	12.7	12.7	4.76	5.16	0.8	○	●																	○				
	SNMG120412	12.7	12.7	4.76	5.16	1.2	○	○	○																				
	SNMG120416	12.7	12.7	4.76	5.16	1.6		○																					
	SNMG150608	15.875	15.875	6.35	6.35	0.8																							
	SNMG150612	15.875	15.875	6.35	6.35	1.2	○	○																					
	SNMG190612	19.05	19.05	6.35	7.94	1.2		○																					
	SNMG190616	19.05	19.05	6.35	7.94	1.6		○																					
	SNMG250724	25.4	25.4	7.94	9.12	2.4			●																				
SNMG250924	25.4	25.4	9.525	9.12	2.4			●																					
Basic 	SNMM090304	9.525	9.525	3.18	3.81	0.4																							
	SNMM090308	9.525	9.525	3.18	3.81	0.8																							
	SNMM120408	12.7	12.7	4.76	5.16	0.8		○																					
	SNMM120412	12.7	12.7	4.76	5.16	1.2																							
	SNMM120416	12.7	12.7	4.76	5.16	1.6																							

Tool holder / Klemmhalter

Page/Seite A162	A163	A164	A165	A174	A175	A176
Page/Seite A177	A221					

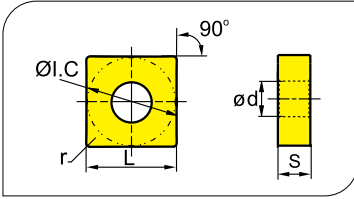


Turning · Drehen

Cemented carbide and cermet Inserts · Hartmetall und Cermet WSP

SN** Negative Insert-Negative WSP

● Ideal Machining Condition / Gute Bearbeitungsbedingungen
⊗ Normal Machining Condition / Normale Bearbeitungsbedingungen
⊗ Unfavorable Machining Condition / Ungünstige Bearbeitungsbedingungen



Workpiece Material / Werkstoffe	P	M	K	N	S
Steel / Stahl	●	●	●	●	●
Stainless Steel / Rostfreier Stahl	●	●	●	●	●
Cast iron / Gusseisen	●	●	●	●	●
Non-ferrous material / Ne Metalle	●	●	●	●	●
Heat-resistant steel / Warmfester Stahl	●	●	●	●	●

Insert Shape / Schneidplattenform	Type · Typ	Dimension (mm) / Abmessung					Coated Carbide / Beschichtetes Hartmetall										Cermet unbeschichtet	Cermet Coated / beschicht. Cermet	Uncoated Carbide / unbeschicht. Hartmetall									
		L	I.C	S	d	r	YBC151	YBC251	YBC351	YBG102	YBG202	YBG205	YBG302	YBM151	YBM251	YBM351			YBD052	YBD102	YBD151	YBD152	YBD252	YNG151	YNG151C	YC10	YC40	YD051
	SNMM190608	19.05	19.05	6.35	7.94	0.8																						
	SNMM190612	19.05	19.05	6.35	7.94	1.2	○	●	○																			
	SNMM190616	19.05	19.05	6.35	7.94	1.6			○																			
	SNMM250724	25.4	25.4	7.94	9.12	2.4			○	○									○									
	SNMM250924	25.4	25.4	9.525	9.12	2.4			○	●																		
	SNMA090304	9.525	9.525	3.18	3.81	0.4																						
	SNMA090308	9.525	9.525	3.18	3.81	0.8												○										
	SNMA120404	12.7	12.7	4.76	5.16	0.4												○		○								
	SNMA120408	12.7	12.7	4.76	5.16	0.8	○											●	●	○	●	○					●	
	SNMA120416	12.7	12.7	4.76	5.16	1.6												●	●	○	●							
	SNMA150608	15.875	15.875	6.35	6.35	0.8	○													○								
	SNMA150612	15.875	15.875	6.35	6.35	1.2														○	●							
	SNMA190612	19.05	19.05	6.35	7.94	1.2												○	●	○	●							
	SNMA190616	19.05	19.05	6.35	7.94	1.6												○	○	○	●							

Tool holder / Klemmhalter



Page/Seite A162

A163

A164

A165

A174

A175

A176



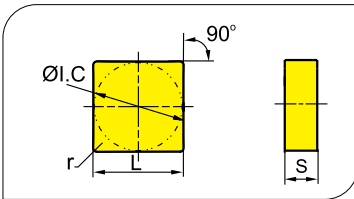
Page/Seite A177

A221

● Ex Stock / ab Lager ○ On demand / auf Anfrage

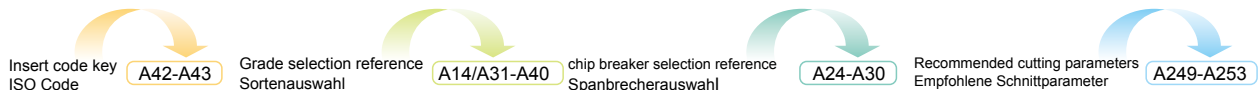
SN** Negative Insert-Negative WSP

● Ideal Machining Condition / Gute Bearbeitungsbedingungen
 ● Normal Machining Condition / Normale Bearbeitungsbedingungen
 ● Unfavorable Machining Condition / Ungünstige Bearbeitungsbedingungen



Workpiece Material / Werkstoffe	P	M	K	N	S	YBC151	YBC251	YBC351	YBG102	YBG202	YBG205	YBG302	YBM151	YBM251	YBM351	YBD052	YBD102	YBD151	YBD152	YBD252	YNG151	YNG151C	YC10	YC40	YD051	YD101	YD201
P Steel / Stahl	●	●	●	●	●																	●	●	●	●	●	●
M Stainless Steel / Rostfreier Stahl		●	●	●	●																	●	●				
K Cast iron / Gusseisen																											●
N Non-ferrite material / Ne Metalle																											●
S Heat-resistant steel / Warmfester Stahl																											●

Insert Shape Schneidplattenform	Type · Typ	Dimension (mm) Abmessung					Coated Carbide Beschichtetes Hartmetall															Cermet unbeschichtet	Cermet Coated beschicht. Cermet	Uncoated Carbide unbeschicht. Hartmetall				
		L	I.C	S	d	r	YBC151	YBC251	YBC351	YBG102	YBG202	YBG205	YBG302	YBM151	YBM251	YBM351	YBD052	YBD102	YBD151	YBD152	YBD252			YNG151	YNG151C	YC10	YC40	YD051
Flat 	SNGN090308	9.525	9.525	3.18	-	0.8																						
	SNGN120408	12.7	12.7	4.76	-	0.8																						
	SNGN150408	15.875	15.875	4.76	-	0.8																						
	SNGN190412	19.05	19.05	4.76	-	1.2																						
	SNUN090304	9.525	9.525	3.18	-	0.4	○	○											○									
	SNUN090308	9.525	9.525	3.18	-	0.8																						
	SNUN120408	12.7	12.7	4.76	-	0.8													○	○					●			
	SNUN120412	12.7	12.7	4.76	-	1.2	○	●	○										○	○					○		○	
	SNUN150408	15.875	15.875	4.76	-	0.8																						
	SNUN150412	15.875	15.875	4.76	-	1.2																						
	SNUN190408	19.05	19.05	4.76	-	0.8																						
	SNUN190412	19.05	19.05	4.76	-	1.2																						
	SNUN190424	19.05	19.05	4.76	-	2.4																						
	SNUN250724	25.4	25.4	7.94	-	2.4																						
	SNUN250924	25.4	25.4	9.525	-	2.4																						



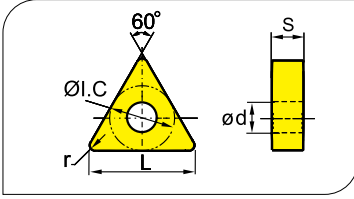
Turning · Drehen

Cemented carbide and cermet Inserts · Hartmetall und Cermet WSP

A

TN** Negative Insert·Negative WSP

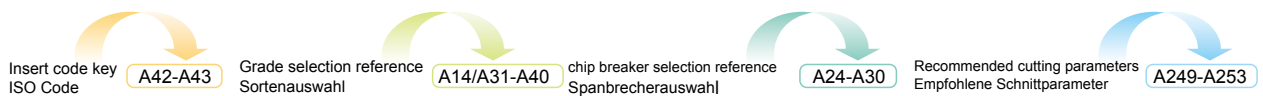
● Ideal Machining Condition / Gute Bearbeitungsbedingungen
● Normal Machining Condition / Normale Bearbeitungsbedingungen
● Unfavorable Machining Condition / Ungünstige Bearbeitungsbedingungen



Workpiece Material / Werkstoff	Machining Conditions															
	P	M	K	N	S	1	2	3	4	5	6	7	8	9	10	11
P Steel / Stahl	●	●	●	●	●											
M Stainless Steel / Rostfreier Stahl		●	●	●	●	●	●	●	●	●						
K Cast iron / Gusseisen			●	●	●	●	●	●	●	●						
N Non-ferrous material / Ne Metalle																
S Heat-resistant steel / Warmfester Stahl						●	●	●	●	●						

Insert Shape Schneidplattentform	Type · Typ	Dimension (mm) Abmessung					Coated Carbide Beschichtetes Hartmetall											Cermet unbeschichtet	Cermet Coated beschicht. Cermet	Uncoated Carbide unbeschicht. Hartmetall									
		L	I.C	S	d	r	YBC151	YBC251	YBC351	YBG102	YBG202	YBG205	YBG302	YBM151	YBM251	YBM351	YBD052			YBD102	YBD151	YBD152	YBD252	YNG151	YNG151C	YC10	YC40	YD051	YD101
FM Finishing Schlichten	TNMG160404R-FM	16.5	9.525	4.76	3.81	0.4	●	●	●	●	●	●	●																
	TNMG160408R-FM	16.5	9.525	4.76	3.81	0.8	●	●	●	●	●	●	●																
	TNMG160404L-FM	16.5	9.525	4.76	3.81	0.4	●	●	●	●	●	●	●																
	TNMG160408L-FM	16.5	9.525	4.76	3.81	0.8	●	●	●	●	●	●	●																
PM Medium Cut/ Mittl. Bearb.	TNMG110304-PM	11	6.35	3.18	2.26	0.4	●	●	●	●	●	●	●																
	TNMG110308-PM	11	6.35	3.18	2.26	0.8	●	●	●	●	●	●	●																
	TNMG160404-PM	16.5	9.525	4.76	3.81	0.4	●	●	●	●	●	●	●		○	●	●	●	●										
	TNMG160408-PM	16.5	9.525	4.76	3.81	0.8	●	●	●	●	●	●	●		○	●	●	●	●										
	TNMG160412-PM	16.5	9.525	4.76	3.81	1.2	○	●	●	●	●	●	●		○	●	●	○	●	○									
	TNMG220408-PM	22	12.7	4.76	5.16	0.8	●	●	●	●	●	●	●		○	○	●	●	●										
	TNMG220412-PM	22	12.7	4.76	5.16	1.2	○	●	●	●	●	●	●		○	○	●	○	●	○									
TNMG220416-PM	22	12.7	4.76	5.16	1.6	●	○	○	○	○	○	○					○	○	○										
DM Medium Cut/ Mittlere Bear	TNMG110308-DM	11	6.35	3.18	2.26	0.8	●	●	●	●	●	●	●																
	TNMG160404-DM	16.5	9.525	4.76	3.81	0.4	●	●	●	●	●	●	●									●							
	TNMG160408-DM	16.5	9.525	4.76	3.81	0.8	●	●	●	●	●	●	●		●	●	●	●				●							
	TNMG160412-DM	16.5	9.525	4.76	3.81	1.2	●	●	●	●	●	●	●		○														
	TNMG220404-DM	22	12.7	4.76	5.16	0.4	●	○	○	○	○	○	○		○														
	TNMG220408-DM	22	12.7	4.76	5.16	0.8	●	●	●	●	●	●	●		○							○							
	TNMG220412-DM	22	12.7	4.76	5.16	1.2	●	●	●	●	●	●	●		○					○									
	TNMG220416-DM	22	12.7	4.76	5.16	1.6	●	○	○	○	○	○	○		○							○							

Tool holder / Klemmhalter

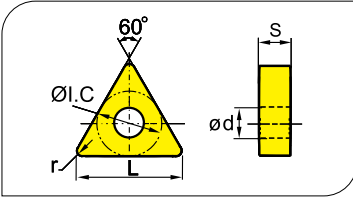


Turning · Drehen

Cemented carbide and cermet Inserts · Hartmetall und Cermet WSP

TN** Negative Insert · Negative WSP

● Ideal Machining Condition / Gute Bearbeitungsbedingungen
 ● Normal Machining Condition / Normale Bearbeitungsbedingungen
 ● Unfavorable Machining Condition / Ungünstige Bearbeitungsbedingungen



Workpiece Material / Werkstoffe	P	M	K	N	S
Steel / Stahl	●	●	●	●	●
Stainless Steel / Rostfreier Stahl		●	●	●	●
Cast iron / Gusseisen			●	●	●
Non-ferrous material / Ne Metalle				●	●
Heat-resistant steel / Warmfester Stahl					●

Insert Shape / Schneidplattenform	Type · Typ	Dimension (mm) / Abmessung					Coated Carbide / Beschichtetes Hartmetall												Cermet unbeschichtet	Cermet Coated / beschicht. Cermet	Uncoated Carbide / unbeschicht. Hartmetall								
		L	I.C	S	d	r	YBC151	YBC251	YBC351	YBG102	YBG202	YBG205	YBG302	YBM151	YBM251	YBM351	YBD052	YBD102			YBD151	YBD152	YBD252	YNG151	YNG151C	YC10	YC40	YD051	YD101
EM Medium Cut / Mittl. Bearb.	TNMG160404-EM	16.5	9.525	4.76	3.81	0.4				●	●																		
	TNMG160408-EM	16.5	9.525	4.76	3.81	0.8				●	●			●															
	TNMG160412-EM	16.5	9.525	4.76	3.81	1.2				●	○																		
	TNMG220408-EM	22	12.7	4.76	5.16	0.8				●	●			●															
	TNMG220412-EM	22	12.7	4.76	5.16	1.2				●	●			●															
	TNMG220416-EM	22	12.7	4.76	5.16	1.6				●	●			●															
DR Roughing / Schruppen	TNMG160408-DR	16.5	9.525	4.76	3.81	0.8		●									●		●										
	TNMG160412-DR	16.5	9.525	4.76	3.81	1.2	●	●	●								●		●										
	TNMG220408-DR	22	12.7	4.76	5.16	0.8		●									○		○										
	TNMG220412-DR	22	12.7	4.76	5.16	1.2	○	●	●											●									
	TNMG220416-DR	22	12.7	4.76	5.16	1.6	●	●	○									○		●									
	TNMG270608-DR	27.5	15.875	6.35	6.35	0.8			○																				
	TNMG270612-DR	27.5	15.875	6.35	6.35	1.2			○																				
	TNMG270616-DR	27.5	15.875	6.35	6.35	1.6	○																						

Tool holder / Klemmhalter



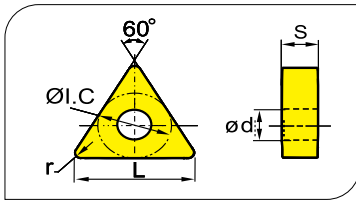
Page/Seite A166 A167 A168 A178 A179 A180 A222

● Ex Stock / ab Lager ○ On demand / auf Anfrage

Turning · Drehen

Cemented carbide and cermet Inserts · Hartmetall und Cermet WSP

TN** Negative Insert-Negative WSP

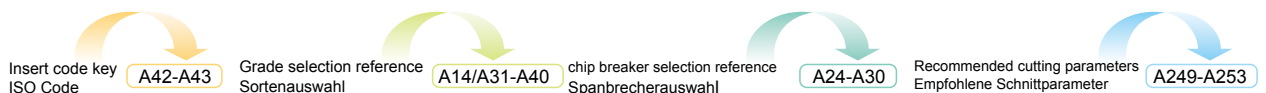


Workpiece Material / Werkstoffe	Ideal Machining Condition / Gute Bearbeitungsbedingungen			Normal Machining Condition / Normale Bearbeitungsbedingungen			Unfavorable Machining Condition / Ungünstige Bearbeitungsbedingungen		
	P	M	K	P	M	K	P	M	K
P Steel / Stahl	●	●	●	●	●	●	●	●	●
M Stainless Steel / Rostfreier Stahl		●	●	●	●	●	●	●	●
K Cast iron / Gusseisen				●	●	●	●	●	●
N Non-ferrite material / Ne Metalle									
S Heat-resistant steel / Warmfester Stahl				●	●	●			

Insert Shape / Schneidplattenform	Type · Typ	Dimension (mm) / Abmessung					Coated Carbide / Beschichtetes Hartmetall										Cermet unbeschichtet	Cermet Coated / Beschicht. Cermet	Uncoated Carbide / unbeschicht. Hartmetall									
		L	I.C	S	d	r	YBC151	YBC251	YBC351	YBG102	YBG202	YBG205	YBG302	YBM151	YBM251	YBM351			YBD052	YBD102	YBD151	YBD152	YBD252	YNG151	YNG151C	YC10	YC40	YD051
DR Roughing / Schruppen	TNMM160408-DR	16.5	9.525	4.76	3.81	0.8	●	●	●																			
	TNMM160412-DR	16.5	9.525	4.76	3.81	1.2		●																				
	TNMM220408-DR	22	12.7	4.76	5.16	0.8		●	●																			
	TNMM220412-DR	22	12.7	4.76	5.16	1.2		●	●																			
	TNMM220416-DR	22	12.7	4.76	5.16	1.6		○	●																			
	TNMM270612-DR	27.5	15.875	4.76	5.16	1.2																						
TNMM270616-DR	27.5	15.875	4.76	5.16	1.6																							
ER Roughing / Schruppen	TNMG160408-ER	16.5	9.525	4.76	3.81	0.8								○														
	TNMG160412-ER	16.5	9.525	4.76	3.81	1.2								○														
	TNMG220408-ER	22	12.7	4.76	5.16	0.8								○														
	TNMG220412-ER	22	12.7	4.76	5.16	1.2								●														

Tool holder / Klemmhalter

PTFNR/L Kr:90° 	PTTNR/L Kr:60° 	PTGNR/L Kr:90° 	MTGNR/L Kr:90° 	MTJNR/L Kr:93° 	MTFNR/L Kr:90° 	PTFNR/L Kr:90°
Page/Seite A166	A167	A168	A178	A179	A180	A222

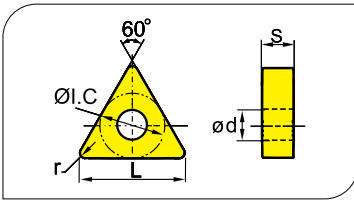


Turning · Drehen

Cemented carbide and cermet Inserts · Hartmetall und Cermet WSP

TN** Negative Insert · Negative WSP

● Ideal Machining Condition / Gute Bearbeitungsbedingungen ◐ Normal Machining Condition / Normale Bearbeitungsbedingungen ◑ Unfavorable Machining Condition / Ungünstige Bearbeitungsbedingungen



Workpiece Material / Werkstoffe	P Steel / Stahl	M Stainless Steel / Rostfreier Stahl	K Cast iron / Gusseisen	N Non-ferrous material / Ne Metalle	S Heat-resistant steel / Warmfester Stahl
Steel / Stahl	●	●	●	●	●
Stainless Steel / Rostfreier Stahl	●	●	●	●	●
Cast iron / Gusseisen	●	●	●	●	●
Non-ferrous material / Ne Metalle	●	●	●	●	●
Heat-resistant steel / Warmfester Stahl	●	●	●	●	●

Insert Shape / Schneidplattenform	Type · Typ	Dimension (mm) / Abmessung					Coated Carbide / Beschichtetes Hartmetall										Cermet unbeschichtet	Cermet Coated / Beschicht. Cermet	Uncoated Carbide / unbeschicht. Hartmetall									
		L	I.C	S	d	r	YBC151	YBC251	YBC351	YBG102	YBG202	YBG205	YBG302	YBM151	YBM251	YBM351			YBD052	YBD102	YBD151	YBD152	YBD252	YNG151	YNG151C	YC10	YC40	YD051
HDR Heavy Turning / Schwer Zerspannung	TNMM160408-HDR	16.5	9.525	4.76	3.81	0.8																						
	TNMM160412-HDR	16.5	9.525	4.76	3.81	1.2																						
	TNMM220408-HDR	22	12.7	4.76	5.16	0.8																						
	TNMM220412-HDR	22	12.7	4.76	5.16	1.2																						
	TNMM220416-HDR	22	12.7	4.76	5.16	1.6		○																				
	TNMM270612-HDR	27.5	15.875	6.35	6.35	1.2																						
	TNMM270616-HDR	27.5	15.875	6.35	6.35	1.6			○																			
TNMM270624-HDR	27.5	15.875	6.35	6.35	2.4			○																				
Basic 	TNMG110308	11	6.35	3.18	2.26	0.8																						
	TNMG160404	16.5	9.525	4.76	3.81	0.4		○										○										
	TNMG160408	16.5	9.525	4.76	3.81	0.8	○	●	○																○			
	TNMG160412	16.5	9.525	4.76	3.81	1.2	○	○																				
	TNMG220404	22	12.7	4.76	5.16	0.4			○																			
	TNMG220408	22	12.7	4.76	5.16	0.8	○	●	○											○								
	TNMG220412	22	12.7	4.76	5.16	1.2	○	○	○											○								
	TNMG220416	22	12.7	4.76	5.16	1.6			○																			
	TNMG270612	27.5	15.875	6.35	6.35	1.2																						
	TNMG270616	27.5	15.875	6.35	6.35	1.6																						
	TNMG330916	33	19.05	9.525	7.94	1.6																						
	TNMG330924	33	19.05	9.525	7.94	2.4																						

Tool holder / Klemmhalter



Page/Seite A166

A167

A168

A178

A179

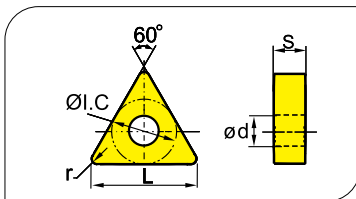
A180

A222

● Ex Stock / ab Lager ○ On demand / auf Anfrage

TN** Negative Insert-Negative WSP

● Ideal Machining Condition / Gute Bearbeitungsbedingungen
 ⊗ Normal Machining Condition / Normale Bearbeitungsbedingungen
 ⊗ Unfavorable Machining Condition / Ungünstige Bearbeitungsbedingungen

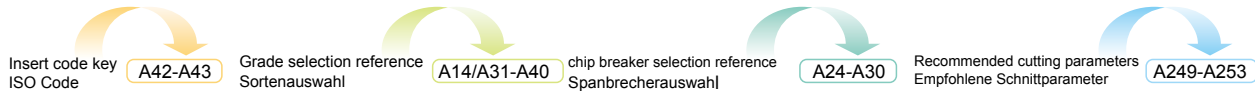


Workpiece Material / Werkstoffe	P	M	K	N	S
Steel / Stahl	●	●	●	●	●
Stainless Steel / Rostfreier Stahl	●	●	●	●	●
Cast iron / Gusseisen	●	●	●	●	●
Non-ferrous material / Ne Metalle	●	●	●	●	●
Heat-resistant steel / Warmfester Stahl	●	●	●	●	●

Insert Shape / Schneidplattenform	Type · Typ	Dimension (mm) / Abmessung					Coated Carbide / Beschichtetes Hartmetall										Cermet unbeschichtet	Cermet Coated beschicht. Cermet	Uncoated Carbide unbeschicht. Hartmetall											
		L	I.C	S	d	r	YBC151	YBC251	YBC351	YBG102	YBG202	YBG205	YBG302	YBM151	YBM251	YBM351			YBD052	YBD102	YBD151	YBD152	YBD252	YNG151	YNG151C	YC10	YC40	YD051	YD101	YD201
Basic 	TNMM160404	16.5	9.525	4.76	3.81	0.4	○	●																						
	TNMM160408	16.5	9.525	4.76	3.81	0.8	○	○																						
	TNMM160412	16.5	9.525	4.76	3.81	1.2	●	●																						
	TNMM220408	22	12.7	4.76	5.16	0.8	●	●																						
	TNMM220412	22	12.7	4.76	5.16	1.2	●	○																						
	TNMM220416	22	12.7	4.76	5.16	1.6		○																						
	TNMM270616	27.5	15.875	6.35	6.35	1.6	○	●																						
Flat 	TNMA160404	16.5	9.525	4.76	3.81	0.4											○	○	●	●										
	TNMA160408	16.5	9.525	4.76	3.81	0.8											●	●	●	●										
	TNMA160412	16.5	9.525	4.76	3.81	1.2											●	●	○	●										
	TNMA160416	16.5	9.525	4.76	3.81	1.6											●	○	○											
	TNMA220404	22	12.7	4.76	5.16	0.4											○	○												
	TNMA220408	22	12.7	4.76	5.16	0.8											●	●	○	●							○	○		
	TNMA270616	27.5	15.875	6.35	6.35	1.6																								

Tool holder / Klemmhalter

PTFNR/L Kr:90° 	PTTNR/L Kr:60° 	PTGNR/L Kr:90° 	MTGNR/L Kr:90° 	MTJNR/L Kr:93° 	MTFNR/L Kr:90° 	PTFNR/L Kr:90°
Page/Seite A166	A167	A168	A178	A179	A180	A222

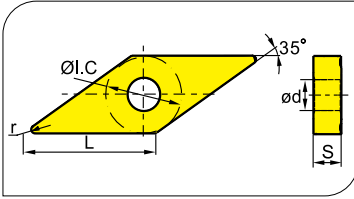


Turning · Drehen

Cemented carbide and cermet Inserts · Hartmetall und Cermet WSP

VN** Negative Insert · Negative WSP

● Ideal Machining Condition / Gute Bearbeitungsbedingungen
 ☼ Normal Machining Condition / Normale Bearbeitungsbedingungen
 ☼ Unfavorable Machining Condition / Ungünstige Bearbeitungsbedingungen



Workpiece Material / Werkstoffe	P	M	K	N	S
Steel / Stahl	☼	☼	☼	☼	☼
Stainless Steel / Rostfreier Stahl	☼	☼	☼	☼	☼
Cast iron / Gusseisen	☼	☼	☼	☼	☼
Non-ferrite material / Ne Metalle	☼	☼	☼	☼	☼
Heat-resistant steel / Warmfester Stahl	☼	☼	☼	☼	☼

Insert Shape Schneidplattenform	Type · Typ	Dimension (mm) Abmessung					Coated Carbide Beschichtetes Hartmetall										Cermet unbeschichtet	Cermet Coated beschicht. Cermet	Uncoated Carbide unbeschicht. Hartmetall															
		L	I.C.	S	d	r	YBC151	YBC251	YBC351	YBG102	YBG202	YBG205	YBG302	YBM151	YBM251	YBM351			YBD052	YBD102	YBD151	YBD152	YBD252	YNG151	YNG151C	YC10	YC40	YD051	YD101	YD201				
DF Finishing Schlichten	VNMG160404-DF	16.6	9.525	4.76	3.81	0.4	●	●						●																				
	VNMG160408-DF	16.6	9.525	4.76	3.81	0.8	●	●						●	●																			
EF Finishing Schlichten	VNMG160404-EF	16.6	9.525	4.76	3.81	0.4						●	●	●																				
	VNMG160408-EF	16.6	9.525	4.76	3.81	0.8								●	●																			
	VNMG160412-EF	16.6	9.525	4.76	3.81	1.2							○																					
NF Finishing Schlichten	VNEG160404-NF	16.6	9.525	4.76	3.81	0.4								●																		○		
	VNEG160408-NF	16.6	9.525	4.76	3.81	0.8									●																		○	
SF Finishing Schlichten	VNMG160404-SF	16.6	9.525	4.76	3.81	0.4																												
	VNMG160408-SF	16.6	9.525	4.76	3.81	0.8																												

Tool holder / Klemmhalter

MVNN

Kr:72°30'



MVJNR/L

Kr:93°



Page/Seite A181

A182

● Ex Stock / ab Lager ○ On demand / auf Anfrage

A

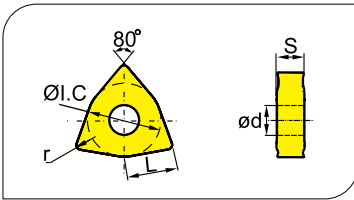
Turning · Drehen

Cemented carbide and cermet Inserts · Hartmetall und Cermet WSP



A

WN** Negative Insert · Negative WSP

● Ideal Machining Condition / Gute Bearbeitungsbedingungen
 ● Normal Machining Condition / Normale Bearbeitungsbedingungen
 ● Unfavorable Machining Condition / Ungünstige Bearbeitungsbedingungen



Workpiece Material / Werkstoffe	Steel / Stahl (P)	Stainless Steel / Rostfreier Stahl (M)	Cast iron / Gusseisen (K)	Non-ferrous material / Ne Metalle (N)	Heat-resistant steel / Warmfester Stahl (S)
Steel / Stahl (P)	●	●	●	●	●
Stainless Steel / Rostfreier Stahl (M)	●	●	●	●	●
Cast iron / Gusseisen (K)	●	●	●	●	●
Non-ferrous material / Ne Metalle (N)	●	●	●	●	●
Heat-resistant steel / Warmfester Stahl (S)	●	●	●	●	●

Insert Shape / Schneidplattenform	Type · Typ	Dimension (mm) / Abmessung					Coated Carbide / Beschichtetes Hartmetall										Cermet unbeschichtet	Cermet Coated beschicht. Cermet	Uncoated Carbide / unbeschicht. Hartmetall										
		L	I.C	S	d	r	YBC151	YBC251	YBC351	YBG102	YBG202	YBG205	YBG302	YBM151	YBM251	YBM351			YBD052	YBD102	YBD151	YBD152	YBD252	YNG151	YNG151C	YC10	YC40	YD051	YD101
 Finishing / Schlichten	WNMG06T304-DF	6.5	9.525	3.97	3.81	0.4																							
	WNMG06T308-DF	6.5	9.525	3.97	3.81	0.8																							
	WNMG06T312-DF	6.5	9.525	3.97	3.81	1.2																							
	WNMG060404-DF	6.5	9.525	4.76	3.81	0.4	●	●					●	○															
	WNMG060408-DF	6.5	9.525	4.76	3.81	0.8	●	●				○	●	○															
	WNMG060412-DF	6.5	9.525	4.76	3.81	1.2	●																						
	WNMG080404-DF	8.7	12.7	4.76	5.16	0.4	●	●				○	●																
	WNMG080408-DF	8.7	12.7	4.76	5.16	0.8	●	●		○		○	●	○															
	WNMG080412-DF	8.7	12.7	4.76	5.16	1.2	●	●																					
 Wiper	WNMG060404-WG	6.5	9.525	4.76	3.81	0.4	○																						
	WNMG060408-WG	6.5	9.525	4.76	3.81	0.8	○																						
	WNMG060412-WG	6.5	9.525	4.76	3.81	1.2																							
	WNMG080404-WG	8.7	12.7	4.76	5.16	0.4	○																						
	WNMG080408-WG	8.7	12.7	4.76	5.16	0.8	●	●		●		●																	
	WNMG080412-WG	8.7	12.7	4.76	5.16	1.2	●	●																					

Tool holder / Klemmhalter



Page/Seite A169

A183

A223

● Ex Stock / ab Lager ○ On demand / auf Anfrage

General Turning · Allgemeine Drehbearbeitung

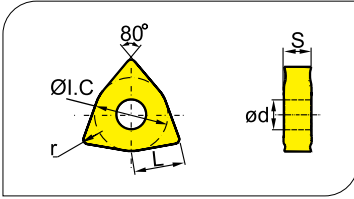
Turning · Drehen

Cemented carbide and cermet Inserts · Hartmetall und Cermet WSP




A

WN** Negative Insert · Negative WSP

● Ideal Machining Condition / Gute Bearbeitungsbedingungen
 ● Normal Machining Condition / Normale Bearbeitungsbedingungen
 ● Unfavorable Machining Condition / Ungünstige Bearbeitungsbedingungen



Workpiece Material / Werkstoffe	P	M	K	N	S
Steel / Stahl	●	●	●	●	●
Stainless Steel / Rostfreier Stahl		●	●	●	●
Cast iron / Gusseisen			●	●	●
Non-ferrous material / Ne Metalle				●	●
Heat-resistant steel / Warmfester Stahl					●

Insert Shape / Schneidplattenform	Type · Typ	Dimension (mm) / Abmessung					Coated Carbide / Beschichtetes Hartmetall										Cermet unbeschichtet	Cermet Coated / beschicht. Cermet	Uncoated Carbide / unbeschicht. Hartmetall									
		L	I.C	S	d	r	YBC151	YBC251	YBC351	YBG102	YBG202	YBG205	YBG302	YBM151	YBM251	YBM351			YBD052	YBD102	YBD151	YBD152	YBD252	YNG151	YNG151C	YC10	YC40	YD051
 Medium Cut / Mittl. Bearb.	WNMG060408-PM	6.5	9.525	4.76	3.81	0.8	●	●									●	●	●									
	WNMG060412-PM	6.5	9.525	4.76	3.81	1.2	●	●									●	●	●									
	WNMG080404-PM	8.7	12.7	4.76	5.16	0.4	●	●	○								●	●	●									
	WNMG080408-PM	8.7	12.7	4.76	5.16	0.8	●	●	●								●	●	●									
	WNMG080412-PM	8.7	12.7	4.76	5.16	1.2	●	●	●								●	●	●									
	WNMG080416-PM	8.7	12.7	4.76	5.16	1.6		●	○								○	○	●									
 Medium Cut / Mittl. Bearb.	WNMG06T304-DM	6.5	9.525	3.97	3.81	0.4																						
	WNMG06T308-DM	6.5	9.525	3.97	3.81	0.8																						
	WNMG06T312-DM	6.5	9.525	3.97	3.81	1.2																						
	WNMG060408-DM	6.5	9.525	4.76	3.81	0.8	●	●	○				●	●	○													
	WNMG060412-DM	6.5	9.525	4.76	3.81	1.2	●	●	○				●	●	○													
	WNMG080404-DM	8.7	12.7	4.76	5.16	0.4	●	●	●					●	○													
	WNMG080408-DM	8.7	12.7	4.76	5.16	0.8	●	●	●				○	●	○													
	WNMG080412-DM	8.7	12.7	4.76	5.16	1.2	●	●	●				○	●	○													
 Medium Cut / Mittl. Bearb.	WNMG06T304-EM	6.5	9.525	3.97	3.81	0.4																						
	WNMG06T308-EM	6.5	9.525	3.97	3.81	0.8																						
	WNMG06T312-EM	6.5	9.525	3.97	3.81	1.2																						
	WNMG060404-EM	6.5	9.525	4.76	3.81	0.4					●				○													
	WNMG060408-EM	6.5	9.525	4.76	3.81	0.8					●				●													
	WNMG080404-EM	8.7	12.7	4.76	5.16	0.4					●	●		●	●													
	WNMG080408-EM	8.7	12.7	4.76	5.16	0.8					●	●		●	●	●												
	WNMG080412-EM	8.7	12.7	4.76	5.16	1.2					●	○																

Tool holder / Klemmhalter



Page/Seite A169

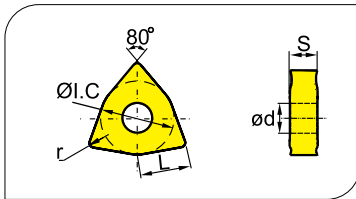
A183

A223




● Ex Stock / ab Lager ○ On demand / auf Anfrage

WN** Negative Insert · Negative WSP

● Ideal Machining Condition / Gute Bearbeitungsbedingungen
● Normal Machining Condition / Normale Bearbeitungsbedingungen
● Unfavorable Machining Condition / Ungünstige Bearbeitungsbedingungen



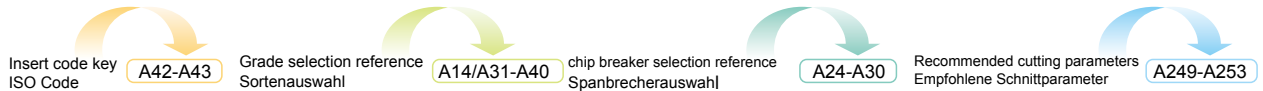
Workpiece Material / Werkstoffe	P	M	K	N	S
Steel / Stahl	●●●●●●●●●●	●●●●●●●●●●	●●●●●●●●●●	●●●●●●●●●●	●●●●●●●●●●
Stainless Steel / Rostfreier Stahl	●●●●●●●●●●	●●●●●●●●●●	●●●●●●●●●●	●●●●●●●●●●	●●●●●●●●●●
Cast iron / Gusseisen	●●●●●●●●●●	●●●●●●●●●●	●●●●●●●●●●	●●●●●●●●●●	●●●●●●●●●●
Non-ferrite material / Ne Metalle	●●●●●●●●●●	●●●●●●●●●●	●●●●●●●●●●	●●●●●●●●●●	●●●●●●●●●●
Heat-resistant steel / Warmfester Stahl	●●●●●●●●●●	●●●●●●●●●●	●●●●●●●●●●	●●●●●●●●●●	●●●●●●●●●●

Insert Shape / Schneidplattenform	Type · Typ	Dimension (mm) / Abmessung					Coated Carbide / Beschichtetes Hartmetall										Cermet unbeschichtet	Cermet Coated / Beschicht. Cermet	Uncoated Carbide / unbeschicht. Hartmetall										
		L	I.C	S	d	r	YBC151	YBC251	YBC351	YBG102	YBG202	YBG205	YBG302	YBM151	YBM251	YBM351			YBD052	YBD102	YBD151	YBD152	YBD252	YNG151	YNG151C	YC10	YC40	YD051	YD101
NM  Medium Cut / Mittl. Bearb.	WNMG080408-NM	8.7	12.7	4.76	5.16	0.8				●	○																		
	WNMG080412-NM	8.7	12.7	4.76	5.16	1.2				●	○																		
DR  Roughing / Schruppen	WNMG060408-DR	6.5	9.525	4.76	3.81	0.8	●	●	○								●		●										
	WNMG060412-DR	6.5	9.525	4.76	3.81	1.2	●	●	○								●		●										
	WNMG080408-DR	8.7	12.7	4.76	5.16	0.8	●	●	●								●		●										
	WNMG080412-DR	8.7	12.7	4.76	5.16	1.2	●	●	●								●		●										
	WNMG080416-DR	8.7	12.7	4.76	5.16	1.6	●	●									●		○										
Flat 	WNMA06T308	6.5	9.525	3.97	3.81	0.8																							
	WNMA060404	6.5	9.525	4.76	3.81	0.4																							
	WNMA060408	6.5	9.525	4.76	3.81	0.8							●				●		●										
	WNMA060412	6.5	9.525	4.76	3.81	1.2																							
	WNMA080404	8.7	12.7	4.76	5.16	0.4								○			○												
	WNMA080408	8.7	12.7	4.76	5.16	0.8								●			●		●										
	WNMA080412	8.7	12.7	4.76	5.16	1.2								●			●		●										
	WNMA080416	8.7	12.7	4.76	5.16	1.6								○			○		○										

Tool holder / Klemmhalter



Page/Seite A169 A183 A223



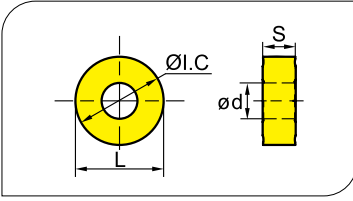
Turning · Drehen

Cemented carbide and cermet Inserts · Hartmetall und Cermet WSP


A

RN** Negative Insert-Negative WSP

● Ideal Machining Condition / Gute Bearbeitungsbedingungen
☼ Normal Machining Condition / Normale Bearbeitungsbedingungen
☼ Unfavorable Machining Condition / Ungünstige Bearbeitungsbedingungen



Workpiece Material / Werkstoffe	Steel / Stahl	Stainless Steel / Rostfreier Stahl	Cast iron / Gusseisen	Non-ferrite material / Ne Metalle	Heat-resistant steel / Warmfester Stahl
P	●●●●●●●●●●●●●●●●	●●●●●●●●●●●●●●●●	●●●●●●●●●●●●●●●●	●●●●●●●●●●●●●●●●	●●●●●●●●●●●●●●●●
M	●●●●●●●●●●●●●●●●	●●●●●●●●●●●●●●●●	●●●●●●●●●●●●●●●●	●●●●●●●●●●●●●●●●	●●●●●●●●●●●●●●●●
K	●●●●●●●●●●●●●●●●	●●●●●●●●●●●●●●●●	●●●●●●●●●●●●●●●●	●●●●●●●●●●●●●●●●	●●●●●●●●●●●●●●●●
N	●●●●●●●●●●●●●●●●	●●●●●●●●●●●●●●●●	●●●●●●●●●●●●●●●●	●●●●●●●●●●●●●●●●	●●●●●●●●●●●●●●●●
S	●●●●●●●●●●●●●●●●	●●●●●●●●●●●●●●●●	●●●●●●●●●●●●●●●●	●●●●●●●●●●●●●●●●	●●●●●●●●●●●●●●●●

Insert Shape / Schneidplattenform	Type · Typ	Dimension (mm) / Abmessung					Coated Carbide / Beschichtetes Hartmetall													Cermet unbeschichtet	Cermet Coated / beschicht. Cermet	Uncoated Carbide / unbeschicht. Hartmetall							
		L	I.C	S	d	r	YBC151	YBC251	YBC351	YBG102	YBG202	YBG205	YBG302	YBM151	YBM251	YBM351	YBD052	YBD102	YBD151	YBD152	YBD252	YNG151	YNG151C	YC10	YC40	YD051	YD101	YD201	
Basic 	RNMG120400	12.7	12.7	4.76	5.16		●	●																					

Tool holder / Klemmhalter



Page/Seite A184

A184

General Turning · Allgemeine Drehbearbeitung

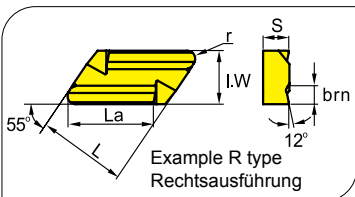
● Ex Stock / ab Lager ○ On demand / auf Anfrage

Turning · Drehen

Cemented carbide and cermet Inserts · Hartmetall und Cermet WSP

A

KN** Negative insert/ Negative Inserts



● Ideal Machining Condition / Gute Bearbeitungsbedingungen
 ⊗ Normal Machining Condition / Normale Bearbeitungsbedingungen
 ⊗ Unfavorable Machining Condition / Ungünstige Bearbeitungsbedingungen

Workpiece Material / Werkstoffe	P	M	K	N	S
Steel / Stahl	●	●	●	●	●
Stainless Steel / Rostfreier Stahl	●	●	●	●	●
Cast iron / Gusseisen	●	●	●	●	●
Non-ferrite material / Ne Metalle	●	●	●	●	●
Heat-resistant steel / Warmfester Stahl	●	●	●	●	●

Insert Shape / Schneidplattenform	Type · Typ	Dimension (mm) / Abmessung							Coated Carbide / Beschichtetes Hartmetall										Cermet unbeschichtet	Cermet Coating beschicht. Cermet	Uncoated Carbide unbeschicht. Hartmetall								
		La	L	I.W	S	brn	r	YBC151	YBC251	YBC351	YBG102	YBG202	YBG205	YBG302	YBM151	YBM251	YBM351	YBD052			YBD102	YBD151	YBD152	YBD252	YNG151	YNG151C	YC10	YC40	YD051
KNUX Finishing / Schlichten	KNUX160405L11	16	16.15	9.525	4.76	2.2	0.5	●	●	●						●	●									●			●
	KNUX160410L11	16	16.15	9.525	4.76	2.2	1.0	●	●						●											●			
	KNUX160405L12	16	16.15	9.525	4.76	2.2	0.5	●	●						●											○			
	KNUX160410L12	16	16.15	9.525	4.76	2.2	1.0	●	●						●											○			○
	KNUX160405R11	16	16.15	9.525	4.76	2.2	0.5	●	●	●					●	●										●			●
	KNUX160410R11	16	16.15	9.525	4.76	2.2	1.0	●	●						●											●			
	KNUX160405R12	16	16.15	9.525	4.76	2.2	0.5	●	●						●														
	KNUX160410R12	16	16.15	9.525	4.76	2.2	0.5	●	●						●														

Tool holder / Klemmhalter



Page/Seite A203

A203

Insert code key ISO Code

A42-A43

Grade selection reference Sortenauswahl

A14/A31-A40

chip breaker selection reference Spanbrecherauswahl

A24-A30

Recommended cutting parameters Empfohlene Schnittparameter

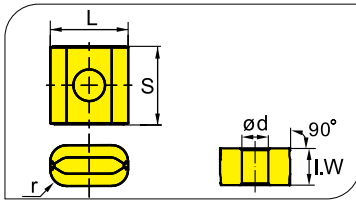
A249-A253

Turning · Drehen

Cemented carbide and cermet Inserts · Hartmetall und Cermet WSP

Railway Wheel Machining/ Radsatz Bearbeitung

● Ideal Machining Condition / Gute Bearbeitungsbedingungen
 ◐ Normal Machining Condition / Normale Bearbeitungsbedingungen
 ☼ Unfavorable Machining Condition / Ungünstige Bearbeitungsbedingungen



Workpiece Material / Werkstoffe	P	M	K	N	S
Steel / Stahl	●	◐	◐	◐	◐
Stainless Steel / Rostfreier Stahl	◐	◐	◐	◐	◐
Cast iron / Gusseisen	◐	◐	◐	◐	◐
Non-ferrite material / Ne Metalle	◐	◐	◐	◐	◐
Heat-resistant steel / Warmfester Stahl	◐	◐	◐	◐	◐

Insert Shape Schneid- plattenform	Type · Typ	Dimension (mm) Abmessung					Coated Carbide Beschichtetes Hartmetall												Cermet unbeschichtet	Cermet Coated beschicht. Cermet	Uncoated Carbide unbeschicht. Hartmetall							
		L	I.C	S	d	r	YBC151	YBC251	YBC351	YBG102	YBG202	YBG205	YBG302	YBM151	YBM251	YBM351	YBD052	YBD102			YBD151	YBD152	YBD252	YNG151	YNG151C	YC10	YC40	YD051
	175.32-191940-22	19.05	10	19.05	6.35	4.0	●																					
	175.32-191940-227	19.05	10	19.05	7.2	4.0	●																					
	175.32-191940-24	19.05	10	19.05	6.35	4.0	○ ●																					
	175.32-301940-24	30	10	19.05	6.35	4.0	○ ●																					
	175.32-191940-25	19.05	10	19.05	6.35	4.0	●																					
	175.32-191940-28	19.05	10	19.05	6.35	4.0	●																					
	175.32-30194031	30	10	19.05	6.35	4.0	●																					
	175.32-191940-28	19.05	10	19.05	6.35	4.0	●																					
	175.32-30194031	30	10	19.05	6.35	4.0	●																					

● Ex Stock / ab Lager ○ On demand / auf Anfrage

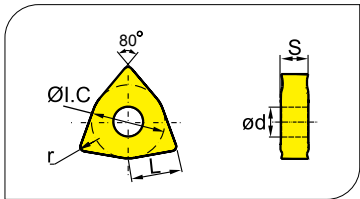
Turning · Drehen

Cemented carbide and cermet Inserts · Hartmetall und Cermet WSP

A

TN** Negative Insert/ Negative WSP

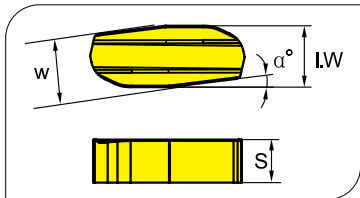
● Ideal Machining Condition / Gute Bearbeitungsbedingungen
● Normal Machining Condition / Normale Bearbeitungsbedingungen
● Unfavorable Machining Condition / Ungünstige Bearbeitungsbedingungen



Workpiece Material / Werkstoffe	Machining Conditions																											
	P	M	K	N	S	YBC151	YBC251	YBC351	YBG102	YBG202	YBG205	YBG302	YBM151	YBM251	YBM351	YBD052	YBD102	YBD151	YBD152	YBD252	YNG151	YNG151C	YC10	YC40	YD051	YD101	YD201	
P Steel / Stahl	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
M Stainless Steel / Rostfreier Stahl		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
K Cast iron / Gusseisen																												
N Non-ferrite material / Ne Metalle																												
S Heat-resistant steel / Warmfester Stahl																												

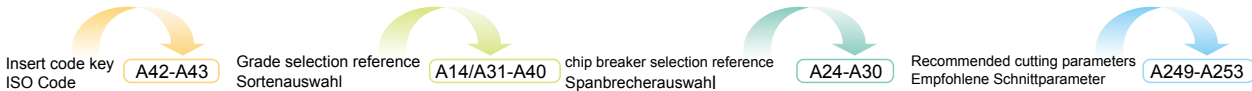
Insert Shape / Schneidplattenform	Type · Typ	Dimension (mm) / Abmessung					Coated Carbide / Beschichtetes Hartmetall																	Cermet unbeschichtet	Cermet Coated / Beschichtet, Cermet	Uncoated Carbide unbeschicht. Hartmetall				
		L	I.C	S	d	r	YBC151	YBC251	YBC351	YBG102	YBG202	YBG205	YBG302	YBM151	YBM251	YBM351	YBD052	YBD102	YBD151	YBD152	YBD252	YNG151	YNG151C			YC10	YC40	YD051	YD101	YD201
	TNMX1106-2	11.3	15.875	6.35	6.35	1.6	○	●																						
	TNMX1509-2	15.9	22.225	9.52	7.94	1.6																					○		○	
	TNMX15T916-2	15.9	22.225	9.72	7.94	1.6																								

● Ideal Machining Condition / Gute Bearbeitungsbedingungen
● Normal Machining Condition / Normale Bearbeitungsbedingungen
● Unfavorable Machining Condition / Ungünstige Bearbeitungsbedingungen



Workpiece Material / Werkstoffe	Machining Conditions																											
	P	M	K	N	S	YBC151	YBC251	YBC351	YBG102	YBG202	YBG205	YBG302	YBM151	YBM251	YBM351	YBD052	YBD102	YBD151	YBD152	YBD252	YNG151	YNG151C	YC10	YC40	YD051	YD101	YD201	
P Steel / Stahl	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
M Stainless Steel / Rostfreier Stahl		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
K Cast iron / Gusseisen																												
N Non-ferrite material / Ne Metalle																												
S Heat-resistant steel / Warmfester Stahl																												

Insert Shape / Schneidplattenform	Type · Typ	Dimension (mm) / Abmessung					Coated Carbide / Beschichtetes Hartmetall																	Cermet	Coated Beschicht.	Uncoated Carbide unbeschicht. Hartmetall				
		L	I.C	S	d	r	YBC151	YBC251	YBC351	YBG102	YBG202	YBG205	YBG302	YBM151	YBM251	YBM351	YBD052	YBD102	YBD151	YBD152	YBD252	YNG151	YNG151C			YC10	YC40	YD051	YD101	YD201
	YNMX1812L	18	22	12	20°																									
	YNMX2518173L	25	25	18	7°																									
	YNMX1812150L	18	18	12	15°																									



General Turning · Allgemeine Drehbearbeitung

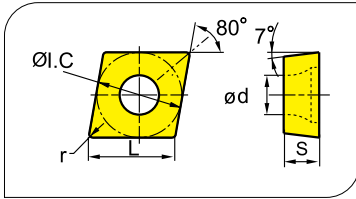
Turning · Drehen

Cemented carbide and cermet Inserts · Hartmetall und Cermet WSP

A

CC** Positive Insert/ Positive WSP

● Ideal Machining Condition / Gute Bearbeitungsbedingungen
 ● Normal Machining Condition / Normale Bearbeitungsbedingungen
 ● Unfavorable Machining Condition / Ungünstige Bearbeitungsbedingungen



Workpiece Material / Werkstoffe	Ideal Machining Condition			Normal Machining Condition			Unfavorable Machining Condition		
	●	●	●	●	●	●	●	●	●
P Steel / Stahl	●	●	●	●	●	●	●	●	●
M Stainless Steel / Rostfreier Stahl		●	●	●	●	●	●	●	●
K Cast iron / Gusseisen				●	●	●	●	●	●
N Non-ferrous material / Ne Metalle			●						●
S Heat-resistant steel / Warmfester Stahl			●						●

Insert Shape / Schneidplattenform	Type · Typ	Dimension (mm) / Abmessung					Coated Carbide / Beschichtetes Hartmetall										Cermet unbeschichtet	Cermet Coated / beschicht. Cermet	Uncoated Carbide / unbeschicht. Hartmetall									
		L	I.C	S	d	r	YBC151	YBC251	YBC351	YBG102	YBG202	YBG205	YBG302	YBM151	YBM251	YBM351			YBD052	YBD102	YBD151	YBD152	YBD252	YNG151	YNG151C	YC10	YC40	YD051
SF Finishing Schlichten	CCGT060202-SF	6.4	6.35	2.38	2.8	0.2																●	●					
	CCGT060204-SF	6.4	6.35	2.38	2.8	0.4																●	●					
	CCGT09T304-SF	9.7	9.525	3.97	4.4	0.4																●	●					
HF Finishing Schlichten	CCMT060202-HF	6.4	6.35	2.38	2.8	0.2	●	●		●												●						○
	CCMT060204-HF	6.4	6.35	2.38	2.8	0.4	●	●	●	●			○									●						
	CCMT060208-HF	6.4	6.35	2.38	2.8	0.8	○	●														●	●					
	CCMT09T302-HF	9.7	9.525	3.97	4.4	0.2		●		●												●	●					
	CCMT09T304-HF	9.7	9.525	3.97	4.4	0.4	●	●	●	●		●					●	●	●	●	●	●	●					○
	CCMT09T308-HF	9.7	9.525	3.97	4.4	0.8	●	●	○			●							○	●	●	○						○
	CCMT120404-HF	12.9	12.7	4.76	5.56	0.4	●	●					○							●		●						
CCMT120408-HF	12.9	12.7	4.76	5.56	0.8	○	○														●							
	CPGT050204	5.6	5.56	2.38	2.8	0.4																						

Tool holder / Klemmhalter



Page/Seite A185 A186 A224 A239 A240

● Ex Stock / ab Lager ○ On demand / auf Anfrage

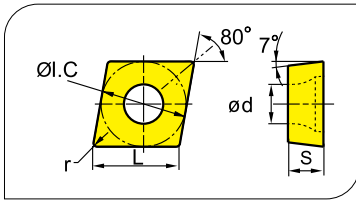
Turning · Drehen

Cemented carbide and cermet Inserts · Hartmetall und Cermet WSP




A

CC** Positive Insert/ Positive WSP

● Ideal Machining Condition / Gute Bearbeitungsbedingungen
 ● Normal Machining Condition / Normale Bearbeitungsbedingungen
 ● Unfavorable Machining Condition / Ungünstige Bearbeitungsbedingungen



Workpiece Material / Werkstoffe	Machining Conditions												
	P	M	K	N	S	1	2	3	4	5	6	7	8
P Steel / Stahl	●	●	●	●	●	●	●	●	●	●	●	●	●
M Stainless Steel / Rostfreier Stahl	●	●	●	●	●	●	●	●	●	●	●	●	●
K Cast iron / Gusseisen	●	●	●	●	●	●	●	●	●	●	●	●	●
N Non-ferrite material / Ne Metalle	●	●	●	●	●	●	●	●	●	●	●	●	●
S Heat-resistant steel / Warmfester Stahl	●	●	●	●	●	●	●	●	●	●	●	●	●

Insert Shape / Schneidplattenform	Type · Typ	Dimension (mm) / Abmessung					Coated Carbide / Beschichtetes Hartmetall												Cermet unbeschichtet	Cermet Coated / Beschicht. Cermet	Uncoated Carbide / unbeschicht. Hartmetall										
		L	I.C	S	d	r	YBC151	YBC251	YBC351	YBG102	YBG202	YBG205	YBG302	YBM151	YBM251	YBM351	YBD052	YBD102			YBD151	YBD152	YBD252	YNG151	YNG151C	YC10	YC40	YD051	YD101	YD201	
EF  Finishing / Schlachten	CCMT060202-EF	6.4	6.35	2.38	2.8	0.2						●																			
	CCMT060204-EF	6.4	6.35	2.38	2.8	0.4					○	●																			
	CCMT09T302-EF	9.7	9.525	3.97	4.4	0.2						●																			
	CCMT09T304-EF	9.7	9.525	3.97	4.4	0.4					○	●																			
	CCMT09T308-EF	9.7	9.525	3.97	4.4	0.8						●																			
	CCMT120404-EF	12.9	12.7	4.76	5.56	0.4						●																			
	CCMT120408-EF	12.9	12.7	4.76	5.56	0.8						●																			
HM  Medium Cut / Mittl. Bearb.	CCMT060204-HM	6.4	6.35	2.38	2.8	0.4	●	●	●	●			○	●			●	○	●												
	CCMT060208-HM	6.4	6.35	2.38	2.8	0.8	●	●	●	●				○	●	○		●	●												
	CCMT09T304-HM	9.7	9.525	3.97	4.4	0.4	●	●	●	●				○	●	○		●	●												
	CCMT09T308-HM	9.7	9.525	3.97	4.4	0.8	●	●	●	●				○	●	○		●	●												
	CCMT120404-HM	12.9	12.7	4.76	5.56	0.4	●	●	●	●				○	●	○		●	●												
	CCMT120408-HM	12.9	12.7	4.76	5.56	0.8	●	●	●	●				○	●	○		●	●												
	CCMT120412-HM	12.9	12.7	4.76	5.56	1.2						●								○											
EM  Medium Cut / Mittl. Bearb.	CCMT060204-EM	6.4	6.35	2.38	2.8	0.4																									
	CCMT060208-EM	6.4	6.35	2.38	2.8	0.8																									
	CCMT09T304-EM	9.7	9.525	3.97	4.4	0.4																									
	CCMT09T308-EM	9.7	9.525	3.97	4.4	0.8																									
	CCMT120404-EM	12.9	12.7	4.76	5.56	0.4																									
	CCMT120408-EM	12.9	12.7	4.76	5.56	0.8																									
	CCMT120412-EM	12.9	12.7	4.76	5.56	1.2																									

Tool holder / Klemmhalter

SCACR/L
Kr:90°



SCLCR/L
Kr:95°



SCLCR/L
Kr:95°



SCFCR
Kr:90°



SCLCR
Kr:95°



Page/Seite A185

A186

A224

A239

A240

Insert code key / ISO Code

A42-A43

Grade selection reference / Sortenauswahl

A14/A31-A40

chip breaker selection reference / Spanbrecherauswahl

A24-A30

Recommended cutting parameters / Empfohlene Schnittparameter

A249-A253

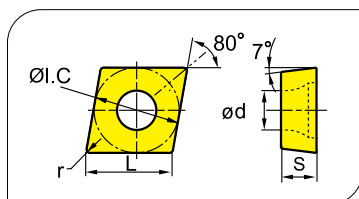
Turning · Drehen

Cemented carbide and cermet Inserts · Hartmetall und Cermet WSP




A

CC** Positive Insert/ Positive WSP

● Ideal Machining Condition / Gute Bearbeitungsbedingungen
 ☉ Normal Machining Condition / Normale Bearbeitungsbedingungen
 ☼ Unfavorable Machining Condition / Ungünstige Bearbeitungsbedingungen



Workpiece Material / Werkstoff	P	M	K	N	S
	Steel / Stahl	Stainless Steel / Rostfreier Stahl	Cast iron / Gusseisen	Non-ferrous material / Ne Metalle	Heat-resistant steel / Warmfester Stahl

Insert Shape / Schneidplattenform	Type · Typ	Dimension (mm) / Abmessung					Coated Carbide / Beschichtetes Hartmetall											Cermet unbeschichtet	Cermet Coated / Beschicht. Cermet	Uncoated Carbide / unbeschicht. Hartmetall									
		L	I.C	S	d	r	YBC151	YBC251	YBC351	YBG102	YBG202	YBG205	YBG302	YBM151	YBM251	YBM351	YBD052	YBD102	YBD151	YBD152	YBD252	YNG151	YNG151C	YC10	YC40	YD051	YD101	YD201	
HR  Roughing / Schruppen	CCMT060204-HR	6.4	6.35	2.38	2.8	0.4	●	○	○																			○	
	CCMT060208-HR	6.4	6.35	2.38	2.8	0.8	○	●	○											○									
	CCMT09T304-HR	9.7	9.525	3.97	4.4	0.4	●	●	●																				
	CCMT09T308-HR	9.7	9.525	3.97	4.4	0.8	●	●	●				●	●		●	●	○	●									●	
	CCMT120408-HR	12.9	12.7	4.76	5.56	0.8	●	●	●				●	●		●	●	●	●		○							●	
CCMT120412-HR	12.9	12.7	4.76	5.56	1.2	○	●	○				○	○			○	●	○											
LH  Aluminium Machining/ Aluminium- bearbeitung	CCGX060202-LH	6.4	6.35	2.38	2.8	0.2				●																	●		
	CCGX060204-LH	6.4	6.35	2.38	2.8	0.4				●																	●		
	CCGX060208-LH	6.4	6.35	2.38	2.8	0.8																					●		
	CCGX09T302-LH	9.7	9.525	3.97	4.4	0.2				●																		●	
	CCGX09T304-LH	9.7	9.525	3.97	4.4	0.4				●																		●	
	CCGX09T308-LH	9.7	9.525	3.97	4.4	0.8				●																		●	
	CCGX120402-LH	12.9	12.7	4.76	5.56	0.2				●																		●	
	CCGX120404-LH	12.9	12.7	4.76	5.56	0.4				●																		●	
	CCGX120408-LH	12.9	12.7	4.76	5.56	0.8				●	○																	●	
CCGX120412-LH	12.9	12.7	4.76	5.56	1.2				●																		●		
Basic 	CCMW060204	6.4	6.35	2.38	2.8	0.4	○																			○	●		
	CCMW09T304	9.7	9.525	3.97	4.4	0.4	○											○									●	○	
	CCMW09T308	9.7	9.525	3.97	4.4	0.8	○											○									●		
	CCMW120404	12.9	12.7	4.76	5.56	0.4	○											○									●		
	CCMW120408	12.9	12.7	4.76	5.56	0.8	○																				○		

Tool holder / Klemmhalter

SCACR/L

Kr:90°



SCLCR/L

Kr:95°



SCLCR/L

Kr:95°



SCFCR

Kr:90°



SCLCR

Kr:95°



Page/Seite A185

A186

A224

A239

A240

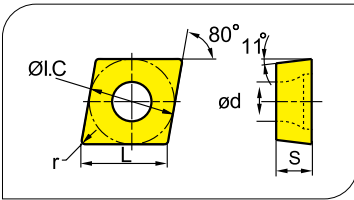
● Ex Stock / ab Lager ○ On demand / auf Anfrage

Turning · Drehen



Cemented carbide and cermet Inserts · Hartmetall und Cermet WSP

CP** Positive Insert/ Positive WSP

● Ideal Machining Condition / Gute Bearbeitungsbedingungen
 ● Normal Machining Condition / Normale Bearbeitungsbedingungen
 ● Unfavorable Machining Condition / Ungünstige Bearbeitungsbedingungen



Workpiece Material / Werkstoffe	P	M	K	N	S
Steel / Stahl	●	●	●	●	●
Stainless Steel / Rostfreier Stahl	●	●	●	●	●
Cast iron / Gusseisen	●	●	●	●	●
Non-ferrite material / Ne Metalle	●	●	●	●	●
Heat-resistant steel / Warmfester Stahl	●	●	●	●	●

Insert Shape / Schneidplattenform	Type · Typ	Dimension (mm) / Abmessung					Coated Carbide / Beschichtetes Hartmetall										Cermet unbeschichtet	Cermet Coated / beschicht. Cermet	Uncoated Carbide / unbeschicht. Hartmetall										
		L	I.C	S	d	r	YBC151	YBC251	YBC351	YBG102	YBG202	YBG205	YBG302	YBM151	YBM251	YBM351			YBD052	YBD102	YBD151	YBD152	YBD252	YNG151	YNG151C	YC10	YC40	YD051	YD101
SF  Finishing Schlichten	CPGT060202-SF	6.4	6.35	2.38	2.8	0.2																	●	●					
	CPGT060204-SF	6.4	6.35	2.38	2.8	0.4																	●	●					
	CPGT09T304-SF	9.7	9.525	3.97	4.4	0.4																	●	●					
Flat 	CPGW060204	6.4	6.35	2.38	2.8	0.4																				●			

Tool holder / Klemmhalter



Insert code key / ISO Code: **A42-A43**

Grade selection reference / Sortenauswahl: **A14/A31-A40**

chip breaker selection reference / Spanbrecherauswahl: **A24-A30**

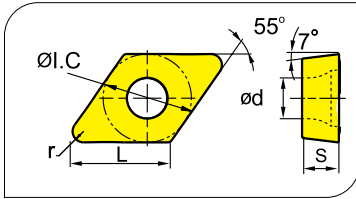
Recommended cutting parameters / Empfohlene Schnittparameter: **A249-A253**

Turning · Drehen

Cemented carbide and cermet Inserts · Hartmetall und Cermet WSP

DC** Positive Insert/ Positive WSP

● Ideal Machining Condition / Gute Bearbeitungsbedingungen
 ● Normal Machining Condition / Normale Bearbeitungsbedingungen
 ● Unfavorable Machining Condition / Ungünstige Bearbeitungsbedingungen



Workpiece Material / Werkstoffe	P	M	K	N	S
Steel / Stahl	●	●	●	●	●
Stainless Steel / Rostfreier Stahl	●	●	●	●	●
Cast iron / Gusseisen	●	●	●	●	●
Non-ferrous material / Ne Metalle	●	●	●	●	●
Heat-resistant steel / Warmfester Stahl	●	●	●	●	●

Insert Shape / Schneidplattenform	Type · Typ	Dimension (mm) / Abmessung					Coated Carbide / Beschichtetes Hartmetall										Cermet unbeschichtet	Cermet Coated / beschicht. Cermet	Uncoated Carbide / unbeschicht. Hartmetall									
		L	I.C	S	d	r	YBC151	YBC251	YBC351	YBG102	YBG202	YBG205	YBG302	YBM151	YBM251	YBM351			YBD052	YBD102	YBD151	YBD152	YBD252	YNG151	YNG151C	YC10	YC40	YD051
	DCGT070202-SF	7.8	6.35	2.38	2.8	0.2																●	●					
	DCGT070204-SF	7.8	6.35	2.38	2.8	0.4																●	●					
	DCGT070208-SF	7.8	6.35	2.38	2.8	0.8																○	●					
	DCGT11T302-SF	11.6	9.525	3.97	4.4	0.2																○	●					
	DCGT11T304-SF	11.6	9.525	3.97	4.4	0.4																●	●					
	DCGT11T308-SF	11.6	9.525	3.97	4.4	0.8																●	●					
	DCMT070202-HF	7.8	6.35	2.38	2.8	0.2	●	●		●											●	○						
	DCMT070204-HF	7.8	6.35	2.38	2.8	0.4	●	●	●	●			●								●	○						
	DCMT070208-HF	7.8	6.35	2.38	2.8	0.8	○	○													●	○						
	DCMT11T302-HF	11.6	9.525	3.97	4.4	0.2		●		●											●	●					●	
	DCMT11T304-HF	11.6	9.525	3.97	4.4	0.4	●	●	○	●			○	●				○	○		●	●					●	
	DCMT11T308-HF	11.6	9.525	3.97	4.4	0.8	●	●										●			●	●						

Tool holder / Klemmhalter



Page/Seit A187 A188 A189 A226 A227 A228

● Ex Stock / ab Lager ○ On demand / auf Anfrage

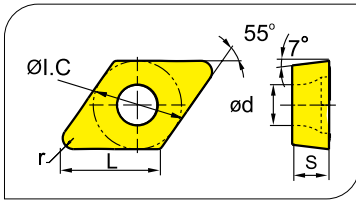
Turning · Drehen

Cemented carbide and cermet Inserts · Hartmetall und Cermet WSP

A

General Turning · Allgemeine Drehbearbeitung

DC** Positive Insert/ Positive WSP



● Ideal Machining Condition / Gute Bearbeitungsbedingungen
 ● Normal Machining Condition / Normale Bearbeitungsbedingungen
 ● Unfavorable Machining Condition / Ungünstige Bearbeitungsbedingungen

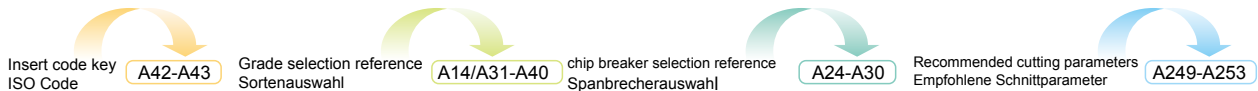
Workpiece Material / Werkstoffe	P	M	K	N	S
P Steel / Stahl	●	●	●	●	●
M Stainless Steel / Rostfreier Stahl	●	●	●	●	●
K Cast iron / Gusseisen	●	●	●	●	●
N Non-ferrous material / Ne Metalle	●	●	●	●	●
S Heat-resistant steel / Warmfester Stahl	●	●	●	●	●

Insert Shape / Schneidplattenform	Type · Typ	Dimension (mm) / Abmessung					Coated Carbide / Beschichtetes Hartmetall										Cermet unbeschichtet	Cermet Coated / beschicht. Cermet	Uncoated Carbide / unbeschicht. Hartmetall										
		L	I.C	S	d	r	YBC151	YBC251	YBC351	YBG102	YBG202	YBG205	YBG302	YBM151	YBM251	YBM351			YBD052	YBD102	YBD151	YBD152	YBD252	YNG151	YNG151C	YC10	YC40	YD051	YD101
EF Finishing Schlichten	DCMT070202-EF	7.8	6.35	2.38	2.8	0.2						●																	
	DCMT070204-EF	7.8	6.35	2.38	2.8	0.4					○	●																	
	DCMT11T302-EF	11.6	9.525	3.97	4.4	0.2						●																	
	DCMT11T304-EF	11.6	9.525	3.97	4.4	0.4						○	●																
	DCMT11T308-EF	11.6	9.525	3.97	4.4	0.8							●																
HM Medium Cut / Mittl. Bearb.	DCMT070204-HM	7.8	6.35	2.38	2.8	0.4	●	●	●	●			●	○		●	●												○
	DCMT070208-HM	7.8	6.35	2.38	2.8	0.8	●	●	●	○			●			●	●												○
	DCMT11T304-HM	11.6	9.525	3.97	4.4	0.4	●	●	●	●			●	●	○	●	●												○
	DCMT11T308-HM	11.6	9.525	3.97	4.4	0.8	●	●	●	●			●	●	○	●	●												○
	DCMT11T312-HM	11.6	9.525	3.97	4.4	1.2	○	●	○						○		○												
EM Medium Cut / Mittl. Bearb.	DCMT070204-EM	7.8	6.35	2.38	2.8	0.4					○	●																	
	DCMT070208-EM	7.8	6.35	2.38	2.8	0.8						○																	
	DCMT11T304-EM	11.6	9.525	3.97	4.4	0.4						○	●	○	○														
	DCMT11T308-EM	11.6	9.525	3.97	4.4	0.8						○	●																

Tool holder / Klemmhalter



Page/Seite A187 A188 A189 A226 A227 A228

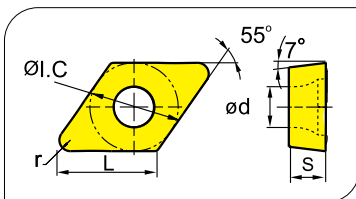


Turning · Drehen

Cemented carbide and cermet Inserts · Hartmetall und Cermet WSP

DC** Positive Insert/ Positive WSP

● Ideal Machining Condition / Gute Bearbeitungsbedingungen
 ● Normal Machining Condition / Normale Bearbeitungsbedingungen
 ● Unfavorable Machining Condition / Ungünstige Bearbeitungsbedingungen



P Steel / Stahl	●●●●●●●●●●●●●●●●
M Stainless Steel / Rostfreier Stahl	●●●●●●●●●●●●●●●●
K Cast iron / Gusseisen	●●●●●●●●●●●●●●●●
N Non-ferrite material / Ne Metalle	●●●●●●●●●●●●●●●●
S Heat-resistant steel / Warmfester Stahl	●●●●●●●●●●●●●●●●

Insert Shape Schneid-plattenform	Type · Typ	Dimension (mm) Abmessung					Coated Carbide Beschichtetes Hartmetall										Cermet unbeschichtet	Cermet Coated beschicht. Cermet	Uncoated Carbide unbeschicht. Hartmetall									
		L	I.C	S	d	r	YBC151	YBC251	YBC351	YBG102	YBG202	YBG205	YBG302	YBM151	YBM251	YBM351			YBD052	YBD102	YBD151	YBD152	YBD252	YNG151	YNG151C	YC10	YC40	YD051
	DCMT11T304-HR	11.6	9.525	3.97	4.4	0.4	●	●	○					●				●		○								
	DCMT11T308-HR	11.6	9.525	3.97	4.4	0.8	○	●	●					○	●	○	●	●	○									○
	DCMT11T312-HR	11.6	9.525	3.97	4.4	1.2	○								○			○	○									
	DCGX070202-LH	7.8	6.35	2.38	2.8	0.2				●	●															●		
	DCGX070204-LH	7.8	6.35	2.38	2.8	0.4				●	●															●		
	DCGX11T302-LH	11.6	9.525	3.97	4.4	0.2				●	●															●		
	DCGX11T304-LH	11.6	9.525	3.97	4.4	0.4				●	●															●		
	DCGX11T308-LH	11.6	9.525	3.97	4.4	0.8				●	●															●		
	DCMW070204	7.8	6.35	2.38	2.8	0.4																						
	DCMW11T304	11.6	9.525	3.97	4.4	0.4	○										●	○			○					○		
	DCMW11T308	11.6	9.525	3.97	4.4	0.8	○									●	○	○								○		

Tool holder / Klemmhalter



Page/Seite A187 A188 A189 A226 A227 A228

● Ex Stock / ab Lager ○ On demand / auf Anfrage

A

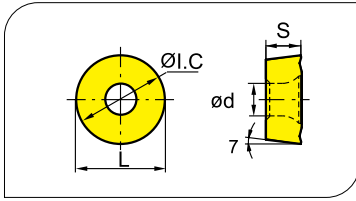
General Turning · Allgemeine Drehbearbeitung

Turning · Drehen

Cemented carbide and cermet Inserts · Hartmetall und Cermet WSP

RC** Positive Insert/ Positive WSP

● Ideal Machining Condition / Gute Bearbeitungsbedingungen
 ● Normal Machining Condition / Normale Bearbeitungsbedingungen
 ● Unfavorable Machining Condition / Ungünstige Bearbeitungsbedingungen

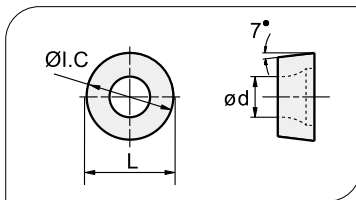


Workpiece Material / Werkstoffe	P Steel / Stahl	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
M Stainless Steel / Rostfreier Stahl		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
K Cast iron / Gusseisen																			
N Non-ferrite material / Ne Metalle																			
S Heat-resistant steel / Warmfester Stahl																			

Insert Shape / Schneidplattenform	Type · Typ	Dimension (mm) / Abmessung					Coated Carbide / Beschichtetes Hartmetall										Cermet unbeschichtet	Cermet Coated / beschicht. Cermet	Uncoated Carbide / unbeschicht. Hartmetall									
		L	I.C	S	d	r	YBC151	YBC251	YBC351	YBG102	YBG202	YBG205	YBG302	YBM151	YBM251	YBM351			YBD052	YBD102	YBD151	YBD152	YBD252	YNG151	YNG151C	YC10	YC40	YD051
 Medium cut. / Mittl. Bearb.	RCGT1204MO	12	12	4.76	4.4	∖																						
	RCGT190600	19.05	19.05	6.35	6.55	∖																						
	RCMT0803MO	8.0	8.0	3.18	3.36	∖		●										●										
	RCMT10T3MO	10	10	3.97	3.6	∖		●																				
	RCMT1204MO	12	12	4.76	4.4	∖		●	●					●				●			●							
	RCMT1606MO	16	16	6.35	5.5	∖		●	●	●						●			●									
	RCMT2006MO	20	20	6.35	6.5	∖		●																				
	RCMT2507MO	25	25	7.94	7.7	∖		●																				

RC** positive insert

● Ideal Machining Condition / Gute Bearbeitungsbedingungen
 ● Normal Machining Condition / Normale Bearbeitungsbedingungen
 ● Unfavorable Machining Condition / Ungünstige Bearbeitungsbedingungen



Workpiece Material / Werkstoffe	P Steel / Stahl	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
M Stainless Steel / Rostfreier Stahl		●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
K Cast iron / Gusseisen																			
N Non-ferrite material / Ne Metalle																			
S Heat-resistant steel / Warmfester Stahl																			

Insert Shape / Schneidplattenform	Type · Typ	Dimension (mm) / Abmessung					Coated Carbide / Beschichtetes Hartmetall										Cermet	Coated Beschicht.	Uncoated Carbide / unbeschicht. Hartmetall									
		L	I.C	S	d	r	YBC151	YBC251	YBC351	YBG102	YBG202	YBG205	YBG302	YBM151	YBM251	YBM351			YBD052	YBD102	YBD151	YBD152	YBD252	YNG151	YNG151C	YC10	YC40	YD051
 Aluminium Machining / Aluminiumbearbeitung	RCGX0803MO-LH	8.0	8.0	3.18	3.36	∖																						●

Tool holder / Klemmhalter



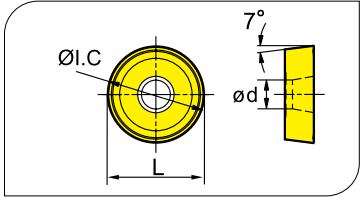
Page/Seite A201 A202

● Ex Stock / ab Lager ○ On demand / auf Anfrage

Turning - Drehen


Cemented carbide and cermet Inserts - Hartmetall und Cermet WSP

RC** Positive Insert/ Positive WSP



● Ideal Machining Condition (Gute Bearbeitungsbedingungen)
 ● Normal Machining Condition (Normale Bearbeitungsbedingungen)
 ● Unfavorable Machining Condition (Ungünstige Bearbeitungsbedingungen)

Workpiece Material / Werkstoffe	P	M	K	N	S
P Steel / Stahl	●	●	●		
M Stainless Steel / Rostfreier Stahl		●	●		
K Cast iron / Gusseisen			●		
N Non-ferrite material / Ne Metalle				●	
S Heat-resistant steel / Warmfester Stahl					●

Insert Shape Schneid- plattenform	Type · Typ	Dimension (mm) Abmessung					Coated Carbide Beschichtetes Hartmetall										Cermet unbeschichtet	Cermet Coated beschicht. Cem.	Uncoated Carbide unbeschicht. Hartmetall												
		L	I.C	S	d	r	YBC151	YBC251	YBC351	YBG102	YBG202	YBG205	YBG302	YBM151	YBM251	YBM351			YBD052	YBD102	YBD151	YBD152	YBD252	YNG151	YNG151C	YC10	YC40	YD051	YD101	YD201	
 Light roughing Leicht Schruppen	RCMX0803MO	8.0	8.0	3.18	3.36	\	○	●	○																						
	RCMX1003MO	10	10	3.18	3.6	\	●	●	●																						
	RCMX1204MO	12	12	4.76	4.4	\	●	●	●																	○					
	RCMX1606MO	16	16	6.35	5.5	\	●	●	●										○							○					
	RCMX2006MO	20	20	6.35	6.5	\	●	●	●					●							●						○	○			
	RCMX2507MO	25	25	7.94	7.2	\	○	●	●																						
	RCMX3209MO	32	32	9.52	9.5	\	○	●	●											○											
	RCMX3209MO-PV	32	32	9.52	9.5	\	●																								

Tool holder / Klemmhalter



Page/Seite A202

General Turning - Allgemeine Drehbearbeitung

Insert code key
ISO Code

A42-A43

Grade selection reference
Sortenauswahl

A14/A31-A40

chip breaker selection reference
Spanbrecherauswahl

A24-A30

Recommended cutting parameters
Empfohlene Schnittparameter

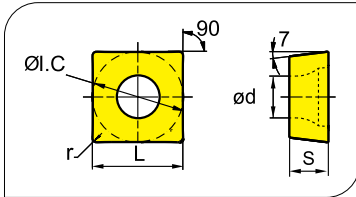
A249-A253

Turning · Drehen

Cemented carbide and cermet Inserts · Hartmetall und Cermet WSP

CC** Positive Insert/ Positive WSP

● Ideal Machining Condition / Gute Bearbeitungsbedingungen
 ● Normal Machining Condition / Normale Bearbeitungsbedingungen
 ● Unfavorable Machining Condition / Ungünstige Bearbeitungsbedingungen



Workpiece Material / Werkstoffe	Steel / Stahl	Stainless Steel / Rostfreier Stahl	Cast iron / Gusseisen	Non-ferrite material / Ne Metalle	Heat-resistant steel / Warmfester Stahl
P	● ● ● ● ● ● ● ● ● ●	● ● ● ● ● ● ● ● ● ●	● ● ● ● ● ● ● ● ● ●	● ● ● ● ● ● ● ● ● ●	● ● ● ● ● ● ● ● ● ●
M		● ● ● ● ● ● ● ● ● ●	● ● ● ● ● ● ● ● ● ●		● ● ● ● ● ● ● ● ● ●
K			● ● ● ● ● ● ● ● ● ●		● ● ● ● ● ● ● ● ● ●
N				● ● ● ● ● ● ● ● ● ●	
S					● ● ● ● ● ● ● ● ● ●

Insert Shape / Schneidplattenform	Type · Typ	Dimension (mm) / Abmessung					Coated Carbide / Beschichtetes Hartmetall												Cermet unbeschichtet	Cermet Coated beschicht. Cermet	Uncoated Carbide unbeschicht. Hartmetall													
		L	I.C.	S	d	r	YBC151	YBC251	YBC351	YBG102	YBG202	YBG205	YBG302	YBM151	YBM251	YBM351	YBD052	YBD102			YBD151	YBD152	YBD252	YNG151	YNG151C	YC10	YC40	YD051	YD101	YD201				
HF Finishing Schlichten	SCMT09T302-HF	9.525	9.525	3.97	4.4	0.2	●	●																										
	SCMT09T304-HF	9.525	9.525	3.97	4.4	0.4	●	●		●																								
	SCMT09T308-HF	9.525	9.525	3.97	4.4	0.8	●	●		●		●																						
EF Finishing Schlichten	SCMT09T302-EF	9.525	9.525	3.97	4.4	0.2						○																						
	SCMT09T304-EF	9.525	9.525	3.97	4.4	0.4						●																						
	SCMT09T308-EF	9.525	9.525	3.97	4.4	0.8						●																						
HM Medium Cut/ Mittl. Bearb.	SCMT09T304-HM	9.525	9.525	3.97	4.4	0.4	●	●	●						●			●														○		
	SCMT09T308-HM	9.525	9.525	3.97	4.4	0.8	●	●	●		●		○	●				●														●		
	SCMT120404-HM	12.7	12.7	4.76	5.56	0.4	●	●											●															
	SCMT120408-HM	12.7	12.7	4.76	5.56	0.8	●	●	●		○				●				●														●	
	SCMT120412-HM	12.7	12.7	4.76	5.56	1.2	○	●																										
EM Finishing Schlichten	SCMT09T304-EM	9.525	9.525	3.97	4.4	0.4									●																			
	SCMT09T308-EM	9.525	9.525	3.97	4.4	0.8									●																			
	SCMT120404-EM	12.7	12.7	4.76	5.56	0.4									●																			
	SCMT120408-EM	12.7	12.7	4.76	5.56	0.8									●																			
	SCMT120412-EM	12.7	12.7	4.76	5.56	1.2										○																		

Tool holder / Klemmhalter



Page/Seite A195

A195

A196

A196

A229

● Ex Stock / ab Lager ○ On demand / auf Anfrage

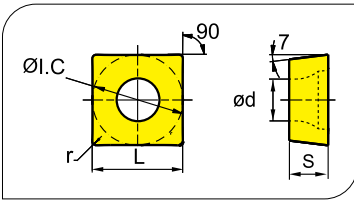
Turning · Drehen

Cemented carbide and cermet Inserts · Hartmetall und Cermet WSP

A

SC** Positive Insert/ Positive WSP

● Ideal Machining Condition / Gute Bearbeitungsbedingungen
● Normal Machining Condition / Normale Bearbeitungsbedingungen
● Unfavorable Machining Condition / Ungünstige Bearbeitungsbedingungen



Workpiece Material / Werkstoffe	P Steel / Stahl	M Stainless Steel / Rostfreier Stahl	K Cast iron / Gusseisen	N Non-ferrous material / Ne Metalle	S Heat-resistant steel / Warmfester Stahl
P Steel / Stahl	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●
M Stainless Steel / Rostfreier Stahl	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●
K Cast iron / Gusseisen	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●
N Non-ferrous material / Ne Metalle	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●
S Heat-resistant steel / Warmfester Stahl	●●●●●	●●●●●	●●●●●	●●●●●	●●●●●

insert shape Schneidplattenform	Type · Typ	Dimension (mm) Abmessung					Coated Carbide Beschichtete Hartmetall										Cermet unbeschichtet	Cermet Coating beschicht. Cermet	carbide Hartmetall																		
		L	I.C	S	d	r	YBC151	YBC251	YBC351	YBG102	YBG202	YBG205	YBG302	YBM151	YBM251	YBM351			YBD052	YBD102	YBD151	YBD152	YBD252	YNG151	YNG151C	YC10	YC40	YD051	YD101	YD201							
LH Aluminium Machining/ Aluminium- bearbeitung	SCGX09T302-LH	9.525	9.525	3.97	4.4	0.2																															
	SCGX09T304-LH	9.525	9.525	3.97	4.4	0.4																															
	SCGX09T308-LH	9.525	9.525	3.97	4.4	0.8																															
	SCGX120404-LH	12.7	12.7	4.76	5.56	0.4																															
	SCGX120408-LH	12.7	12.7	4.76	5.56	0.8																															
HR Roughing/ Schruppen	SCMT09T304-HR	9.525	9.525	3.97	4.4	0.4		○																													
	SCMT09T308-HR	9.525	9.525	3.97	4.4	0.8	○	●										●		●																	
	SCMT09T312-HR	9.525	9.525	3.97	4.4	1.2	○	○																													
	SCMT120404-HR	12.7	12.7	4.76	5.56	0.4	●	●																													
	SCMT120408-HR	12.7	12.7	4.76	5.56	0.8	○	●	●											○	●																
Basic	SCMT09T304	9.525	9.525	3.97	4.4	0.4	○	○																													
	SCMT120404	12.7	12.7	4.76	5.56	0.4	○	○	○																												
	SCMT120408	12.7	12.7	4.76	5.56	0.8																															
Flat	SCMW060204	6.35	6.35	2.38	2.8	0.4														○																●	
	SCMW09T304	9.525	9.525	3.97	4.4	0.4																					○					○					
	SCMW09T308	9.525	9.525	3.97	4.4	0.8															○																
	SCMW120408	12.7	12.7	4.76	5.56	0.8															○																○

Tool holder / Klemmhalter



Page/Seite A195 A195 A196 A196 A229

Insert code key
ISO Code

A42-A43

Grade selection reference
Sortenauswahl

A14/A31-A40

chip breaker selection reference
Spanbrecherauswahl

A24-A30

Recommended cutting parameters
Empfohlene Schnittparameter

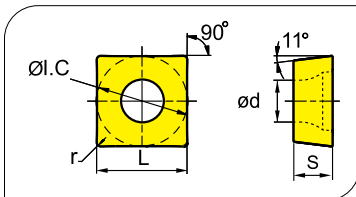
A249-A253

Turning · Drehen

Cemented carbide and cermet Inserts · Hartmetall und Cermet WSP

SP** Positive Insert/ Positive WSP

● Ideal Machining Condition / Gute Bearbeitungsbedingungen
 ● Normal Machining Condition / Normale Bearbeitungsbedingungen
 ● Unfavorable Machining Condition / Ungünstige Bearbeitungsbedingungen



Workpiece Material / Werkstoffe	Steel / Stahl	Stainless Steel / Rostfreier Stahl	Cast iron / Gusseisen	Non-ferrite material / Ne Metalle	Heat-resistant steel / Warmfester Stahl
P	● ● ● ● ●	● ● ● ● ●			
M		● ● ● ● ● ● ● ●			
K			● ● ● ● ● ● ● ●		
N				● ● ● ● ● ● ● ●	
S					● ● ● ● ● ● ● ●

Insert Shape / Schneidplattenform	Type · Typ	Dimension (mm) / Abmessung					Coated Carbide / Beschichtetes Hartmetall										Cermet unbeschichtet	Cermet Coated / beschicht. Cermet	Uncoated Carbide / unbeschicht. Hartmetall										
		L	I.C	S	d	r	YBC151	YBC251	YBC351	YBG102	YBG202	YBG205	YBG302	YBM151	YBM251	YBM351	YBD052	YBD102	YBD151	YBD152	YBD252	YNG151	YNG151C	YC10	YC40	YD051	YD101	YD201	
Flat	SPMW09T304	9.525	9.525	3.97	4.4	0.4																							
	SPMW09T308	9.525	9.525	3.97	4.4	0.8																							
	SPMW120408	12.7	12.7	4.76	5.56	0.8													○										

● Ex Stock / ab Lager ○ On demand / auf Anfrage

General Turning · Allgemeine Drehbearbeitung

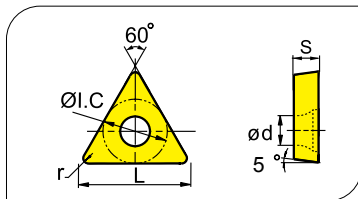
Turning · Drehen

Cemented carbide and cermet Inserts · Hartmetall und Cermet WSP

A

TB** Positive Insert/ Positive WSP

● Ideal Machining Condition / Gute Bearbeitungsbedingungen
 ☼ Normal Machining Condition / Normale Bearbeitungsbedingungen
 ☼ Unfavorable Machining Condition / Ungünstige Bearbeitungsbedingungen



Workpiece Material / Werkstoffe	P	M	K	N	S
Steel / Stahl	☼ ☼ ☼	☼ ☼ ☼ ☼ ☼ ☼ ☼	☼ ☼ ☼ ☼ ☼ ☼ ☼ ☼	☼ ☼ ☼ ☼ ☼ ☼ ☼ ☼	☼ ☼ ☼ ☼ ☼ ☼ ☼ ☼
Stainless Steel / Rostfreier Stahl	☼	☼ ☼ ☼ ☼ ☼ ☼ ☼ ☼	☼ ☼ ☼ ☼ ☼ ☼ ☼ ☼	☼ ☼ ☼ ☼ ☼ ☼ ☼ ☼	☼ ☼ ☼ ☼ ☼ ☼ ☼ ☼
Cast iron / Gusseisen	☼	☼ ☼ ☼ ☼ ☼ ☼ ☼ ☼	☼ ☼ ☼ ☼ ☼ ☼ ☼ ☼	☼ ☼ ☼ ☼ ☼ ☼ ☼ ☼	☼ ☼ ☼ ☼ ☼ ☼ ☼ ☼
Non-ferite material / Ne Metalle	☼	☼ ☼ ☼ ☼ ☼ ☼ ☼ ☼	☼ ☼ ☼ ☼ ☼ ☼ ☼ ☼	☼ ☼ ☼ ☼ ☼ ☼ ☼ ☼	☼ ☼ ☼ ☼ ☼ ☼ ☼ ☼
Heat-resistant steel / Warmfester Stahl	☼	☼ ☼ ☼ ☼ ☼ ☼ ☼ ☼	☼ ☼ ☼ ☼ ☼ ☼ ☼ ☼	☼ ☼ ☼ ☼ ☼ ☼ ☼ ☼	☼ ☼ ☼ ☼ ☼ ☼ ☼ ☼

Insert Shape Schneidplattenform	Type · Typ	Dimension (mm) Abmessung					Coated Carbide Beschichtetes Hartmetall										Cermet unbeschichtet	Cermet Coated beschicht. Cermet	Uncoated Carbide unbeschicht. Hartmetall									
		L	I.C	S	d	r	YBC151	YBC251	YBC351	YBG102	YBG202	YBG205	YBG302	YBM151	YBM251	YBM351			YBD052	YBD102	YBD151	YBD152	YBD252	YNG151	YNG151C	YC10	YC40	YD051
	TBGH060102L	6.4	3.97	1.59	2.2	0.2																						
	TBGH060104L	6.4	3.97	1.59	2.2	0.4																						

Insert code key
ISO Code **A42-A43**

Grade selection reference
Sortenauswahl **A14/A31-A40**

chip breaker selection reference
Spanbrecherauswahl **A24-A30**

Recommended cutting parameters
Empfohlene Schnittparameter **A249-A253**

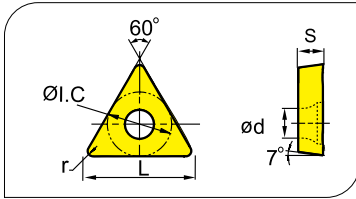
Turning · Drehen

Cemented carbide and cermet Inserts · Hartmetall und Cermet WSP


A

TC** Positive Insert/ Positive WSP

● Ideal Machining Condition / Gute Bearbeitungsbedingungen
 ● Normal Machining Condition / Normale Bearbeitungsbedingungen
 ● Unfavorable Machining Condition / Ungünstige Bearbeitungsbedingungen



Workpiece Material / Werkstoffe	P	M	K	N	S
Steel / Stahl	●	●	●	●	●
Stainless Steel / Rostfreier Stahl	●	●	●	●	●
Cast iron / Gusseisen	●	●	●	●	●
Non-ferrous material / Nf Metalle	●	●	●	●	●
Heat-resistant steel / Warmfester Stahl	●	●	●	●	●

Insert Shape / Schneidplattenform	Type · Typ	Dimension (mm) / Abmessung					Coated Carbide / Beschichtetes Hartmetall										Cermet unbeschichtet	Cermet Coated / beschicht. Cermet	Uncoated Carbide / unbeschicht. Hartmetall										
		L	I.C	S	d	r	YBC151	YBC251	YBC351	YBG102	YBG202	YBG205	YBG302	YBM151	YBM251	YBM351			YBD052	YBD102	YBD151	YBD152	YBD252	YNG151	YNG151C	YC10	YC40	YD051	YD101
 Finishing / Schlichten	TCGT06T102-SF	6.4	3.97	1.98	2.2	0.2																○	●						
	TCGT06T104-SF	6.4	3.97	1.98	2.2	0.4																							
	TCGT090202-SF	9.6	5.56	2.38	2.5	0.2																●	●						
	TCGT090204-SF	9.6	5.56	2.38	2.5	0.4																●	●						
	TCGT090208-SF	9.6	5.56	2.38	2.5	0.8																	●	●					
	TCGT110302-SF	11	6.35	3.18	2.8	0.2																		●					
	TCGT110304-SF	11	6.35	3.18	2.8	0.4																	●	●					
	TCGT110308-SF	11	6.35	3.18	2.8	0.8																	●	●					

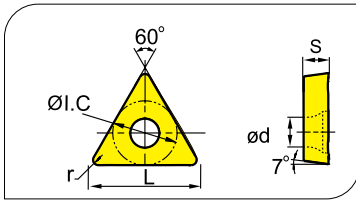
Tool holder / Klemmhalter



Page/Seite A197 A197 A198 A199 A230

● Ex Stock / ab Lager ○ On demand / auf Anfrage

TC** Positive Insert/ Positive WSP



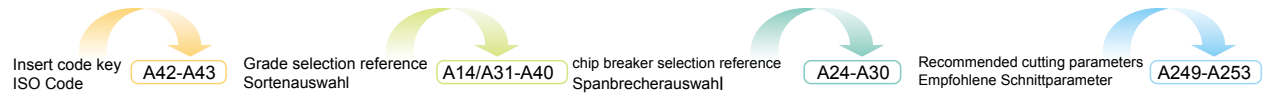
Workpiece Material / Werkstoffe	Ideal Machining Condition / Gute Bearbeitungsbedingungen			Normal Machining Condition / Normale Bearbeitungsbedingungen			Unfavorable Machining Condition / Ungünstige Bearbeitungsbedingungen		
	P	M	K	N	S				
P Steel / Stahl	●	●	●	●	●	●	●	●	●
M Stainless Steel / Rostfreier Stahl	●	●	●	●	●	●	●	●	●
K Cast iron / Gusseisen	●	●	●	●	●	●	●	●	●
N Non-ferrite material / Ne Metalle	●	●	●	●	●	●	●	●	●
S Heat-resistant steel / Warmfester Stahl	●	●	●	●	●	●	●	●	●

Insert Shape / Schneidplattenform	Type · Typ	Dimension (mm) / Abmessung					Coated Carbide / Beschichtetes Hartmetall										Cermet unbeschichtet	Cermet Coated / Beschicht. Cermet	Uncoated Carbide unbeschicht. Hartmetall										
		L	I.C	S	d	r	YBC151	YBC251	YBC351	YBG102	YBG202	YBG205	YBG302	YBM151	YBM251	YBM351			YBD052	YBD102	YBD151	YBD152	YBD252	YNG151	YNG151C	YC10	YC40	YD051	YD101
HF Finishing Schlichten	TCMT06T104-HF	6.4	3.97	1.98	2.2	0.4																							
	TCMT06T108-HF	6.4	3.97	1.98	2.2	0.8																							
	TCMT090202-HF	9.6	5.56	2.38	2.5	0.2		●														●							
	TCMT090204-HF	9.6	5.56	2.38	2.5	0.4		●						●									●						
	TCMT090208-HF	9.6	5.56	2.38	2.5	0.8		○	●														●						
	TCMT110202-HF	11	6.35	2.38	2.8	0.2			●		●																		
	TCMT110204-HF	11	6.35	2.38	2.8	0.4		●	●	○													●	●					
	TCMT110208-HF	11	6.35	2.38	2.8	0.8		●		○													●						
	TCMT16T302-HF	16.5	9.525	3.97	4.4	0.2																							
	TCMT16T304-HF	16.5	9.525	3.97	4.4	0.4		●	●		●		○										●						
	TCMT16T308-HF	16.5	9.525	3.97	4.4	0.8		●	●														●						

Tool holder / Klemmhalter



Page/Seite A197 A197 A198 A199 A230

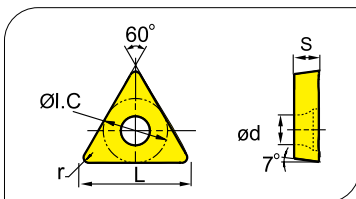


Turning · Drehen

Cemented carbide and cermet Inserts · Hartmetall und Cermet WSP

TC** Positive Insert/ Positive WSP

- Ideal Machining Condition / Gute Bearbeitungsbedingungen
- Normal Machining Condition / Normale Bearbeitungsbedingungen
- Unfavorable Machining Condition / Ungünstige Bearbeitungsbedingungen



Workpiece Material / Werkstoffe	Ideal Machining Condition / Gute Bearbeitungsbedingungen						Normal Machining Condition / Normale Bearbeitungsbedingungen						Unfavorable Machining Condition / Ungünstige Bearbeitungsbedingungen					
	Steel / Stahl	Stainless Steel / Rostfreier Stahl	Cast iron / Gusseisen	Non-ferrous material / Ne Metalle	Heat-resistant steel / Warmfester Stahl	Other	Steel / Stahl	Stainless Steel / Rostfreier Stahl	Cast iron / Gusseisen	Non-ferrous material / Ne Metalle	Heat-resistant steel / Warmfester Stahl	Other	Steel / Stahl	Stainless Steel / Rostfreier Stahl	Cast iron / Gusseisen	Non-ferrous material / Ne Metalle	Heat-resistant steel / Warmfester Stahl	Other
P	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	
M		●	●	●	●	●	●	●	●	●	●	●						
K			●	●	●	●	●	●	●	●	●	●						
N				●						●						●	●	
S				●		●	●	●		●								

Insert Shape / Schneidplattenform	Type · Typ	Dimension (mm) / Abmessung					Coated Carbide / Beschichtetes Hartmetall											Cermet unbeschichtet	Cermet Coated / beschicht. Cermet	Uncoated Carbide / unbeschicht. Hartmetall									
		L	I.C	S	d	r	YBC151	YBC251	YBC351	YBG102	YBG202	YBG205	YBG302	YBM151	YBM251	YBM351	YBD052			YBD102	YBD151	YBD152	YBD252	YNG151	YNG151C	YC10	YC40	YD051	YD101
EF Finishing / Schlichten	TCMT090202-EF	9.6	5.56	2.38	2.5	0.2						○																	
	TCMT090204-EF	9.6	5.56	2.38	2.5	0.4						○																	
	TCMT110202-EF	11	6.35	2.38	2.8	0.2						○																	
	TCMT110204-EF	11	6.35	2.38	2.8	0.4						●																	
	TCMT110208-EF	11	6.35	2.38	2.8	0.8						●																	
	TCMT16T304-EF	16.5	9.525	3.97	4.4	0.4						●																	
TCMT16T308-EF	16.5	9.525	3.97	4.4	0.8						●																		
EM Medium Cut / Mittl. Bearb.	TCMT090204-EM	9.6	5.56	2.38	2.8	0.4						○																	
	TCMT090208-EM	9.6	5.56	2.38	2.8	0.8						○																	
	TCMT110204-EM	11	6.35	2.38	2.8	0.4						○																	
	TCMT110208-EM	11	6.35	2.38	2.8	0.8						○																	
	TCMT110212-EM	11	6.35	2.38	2.8	1.2																							
	TCMT16T304-EM	16.5	9.525	3.97	4.4	0.4						●																	
	TCMT16T308-EM	16.5	9.525	3.97	4.4	0.8						●																	
	TCMT16T312-EM	16.5	9.525	3.97	4.4	1.2						○																	

Tool holder / Klemmhalter



Page/Seite A197 A197 A198 A199 A230

● Ex Stock / ab Lager ○ On demand / auf Anfrage

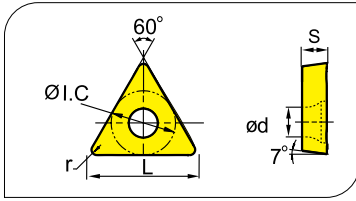
Turning · Drehen

Cemented carbide and cermet Inserts · Hartmetall und Cermet WSP

A

General Turning · Allgemeine Drehbearbeitung

TC** Positive Insert/ Positive WSP



● Ideal Machining Condition / Gute Bearbeitungsbedingungen
✶ Normal Machining Condition / Normale Bearbeitungsbedingungen
✶ Unfavorable Machining Condition / Ungünstige Bearbeitungsbedingungen

Workpiece Material / Werkstoffe	Machining Conditions															
	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P	P
P Steel / Stahl	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
M Stainless Steel / Rostfreier Stahl	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
K Cast iron / Gusseisen	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
N Non-ferrous material / Ne Metalle	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●
S Heat-resistant steel / Warmfester Stahl	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●

Insert Shape / Schneidplattenform	Type · Typ	Dimension (mm) / Abmessung					Coated Carbide / Beschichtetes Hartmetall										Cermet unbeschichtet	Cermet Coated / Beschicht. Cermet	Uncoated Carbide / unbeschicht. Hartmetall										
		L	I.C	S	d	r	YBC151	YBC251	YBC351	YBG102	YBG202	YBG205	YBG302	YBM151	YBM251	YBM351			YBD052	YBD102	YBD151	YBD152	YBD252	YNG151	YNG151C	YC10	YC40	YD051	YD101
Basic	TCMT220408	22	12.7	4.76	5.5	0.8	●											○											
Flat	TCMW110204	11	6.35	2.38	2.8	0.4	○												○										
	TCMW16T304	16.5	9.525	3.97	4.4	0.4	○												○			○							
	TCMW16T308	16.5	9.525	3.97	4.4	0.8	○													○		●							
	TCMW16T312	16.5	9.525	3.97	4.4	1.2	○													○									
	TCMW220408	22	12.7	4.76	5.5	0.8														○									○

Tool holder / Klemmhalter



Page/Seite A197

A197

A198

A199

A230

● Ex Stock / ab Lager ○ On demand / auf Anfrage

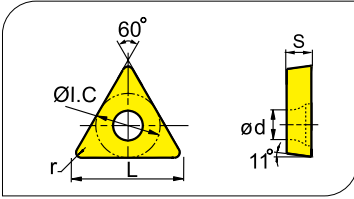
Turning · Drehen

Cemented carbide and cermet Inserts · Hartmetall und Cermet WSP



A

TP** Positive Insert/ Positive WSP

● Ideal Machining Condition / Gute Bearbeitungsbedingungen
 ⊙ Normal Machining Condition / Normale Bearbeitungsbedingungen
 ⊛ Unfavorable Machining Condition / Ungünstige Bearbeitungsbedingungen



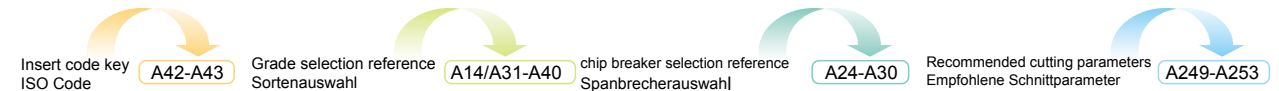
Workpiece Material / Werkstoffe	P	M	K	N	S
Steel / Stahl	●	●	●	●	●
Stainless Steel / Rostfreier Stahl	●	●	●	●	●
Cast iron / Gusseisen	●	●	●	●	●
Non-ferrous material / Ne Metalle	●	●	●	●	●
Heat-resistant steel / Warmfester Stahl	●	●	●	●	●

Insert Shape / Schneidplattenform	Type · Typ	Dimension (mm) / Abmessung					Coated Carbide / Beschichtetes Hartmetall										Cermet unbeschichtet	Cermet Coated / beschicht. Cermet	Uncoated Carbide / unbeschicht. Hartmetall									
		L	I.C	S	d	r	YBC151	YBC251	YBC351	YBG102	YBG202	YBG205	YBG302	YBM151	YBM251	YBM351			YBD052	YBD102	YBD151	YBD152	YBD252	YNG151	YNG151C	YC10	YC40	YD051
 Finishing / Schlichten	TPGT090202-SF	9.6	5.56	2.38	2.5	0.2																○	●					
	TPGT090204-SF	9.6	5.56	2.38	2.5	0.4																●	●					
	TPGT090208-SF	9.6	5.56	2.38	2.5	0.8																○	●					
	TPGT110302-SF	11	6.35	3.18	2.8	0.2																●	●					
	TPGT110304-SF	11	6.35	3.18	2.8	0.4																●	●					
	TPGT110308-SF	11	6.35	3.18	2.8	0.8																○	●					
 Super Finishing / Super Schlichten	TPGH090202L	9.6	5.56	2.38	2.5	0.2															○							
	TPGH090204L	9.6	5.56	2.38	2.5	0.4															○							
	TPGH110302L	11	6.35	3.18	2.8	0.2															○							
	TPGH110304L	11	6.35	3.18	2.8	0.4															○							

Tool holder / Klemmhalter



Page/Seite A238

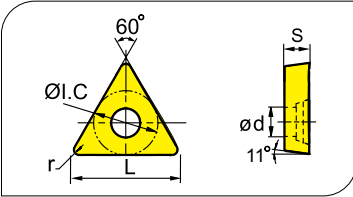


General Turning · Allgemeine Drehbearbeitung

Turning · Drehen

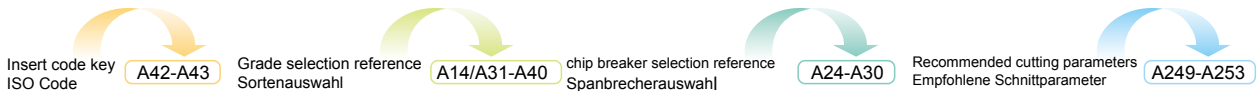
Cemented carbide and cermet Inserts · Hartmetall und Cermet WSP

TP** Positive Insert/ Positive WSP



Workpiece Material / Werkstoffe	Ideal Machining Condition / Gute Bearbeitungsbedingungen	Normal Machining Condition / Normale Bearbeitungsbedingungen	Unfavorable Machining Condition / Ungünstige Bearbeitungsbedingungen
P Steel / Stahl	●	☼	☼
M Stainless Steel / Rostfreier Stahl		●	☼
K Cast iron / Gusseisen			●
N Non-ferrous material / Ne Metalle			●
S Heat-resistant steel / Warmfester Stahl		●	●

Insert Shape Schneid- plattenform	Type · Typ	Dimension (mm) Abmessung					Coated Carbide Beschichtetes Hartmetall											Cermet unbeschichtet	Cermet Coated beschicht. Cermet	Uncoated Carbide unbeschicht. Hartmetall								
		L	I.C	S	d	r	YBC151	YBC251	YBC351	YBG102	YBG202	YBG205	YBG302	YBM151	YBM251	YBM351	YBD052			YBD102	YBD151	YBD152	YBD252	YNG151	YNG151C	YC10	YC40	YD051
 Flat	TPGB090204	9.6	5.56	2.38	2.5	0.4																						
	TPGB090208	9.6	5.56	2.38	2.5	0.8																						
	TPGB270416	27.5	15.875	4.76	5.16	1.6																						
 Flat	TPGW090204	9.6	5.56	2.38	2.5	0.4																						
	TPGW090208	9.6	5.56	2.38	2.5	0.8																						
	TPGW110304	11	6.35	3.18	2.8	0.4																					○	
	TPGW110308	11	6.35	3.18	2.9	0.8																						
	TPGW160308	16.5	9.525	3.18	4.4	0.8																					○	○
	TPGW16T302	16.5	9.525	3.97	4.4	0.2																						
	TPGW220408	22	12.7	4.76	5.5	0.8																						

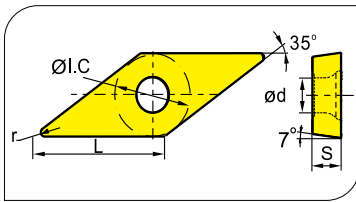


Turning · Drehen

Cemented carbide and cermet Inserts · Hartmetall und Cermet WSP

VC** Positive Insert/ Positive WSP

● Ideal Machining Condition / Gute Bearbeitungsbedingungen
 ● Normal Machining Condition / Normale Bearbeitungsbedingungen
 ● Unfavorable Machining Condition / Ungünstige Bearbeitungsbedingungen



Workpiece Material / Werkstoffe	P	M	K	N	S
Steel / Stahl	●	●	●	●	●
Stainless Steel / Rostfreier Stahl	●	●	●	●	●
Cast iron / Gusseisen	●	●	●	●	●
Non-ferrite material / Ne Metalle	●	●	●	●	●
Heat-resistant steel / Warmfester Stahl	●	●	●	●	●

Insert Shape / Schneidplattenform	Type · Typ	Dimension (mm) / Abmessung					Coated Carbide / Beschichtetes Hartmetall												Cermet unbeschichtet	Cermet Coated / beschicht. Cermet	Uncoated Carbide / unbeschicht. Hartmetall							
		L	I.C	S	d	r	YBC151	YBC251	YBC351	YBG102	YBG202	YBG205	YBG302	YBM151	YBM251	YBM351	YBD052	YBD102			YBD151	YBD152	YBD252	YNG151	YNG151C	YC10	YC40	YD051
SF Finishing Schlichten	VCGT110302-SF	11	6.35	3.18	2.8	0.2																●	●					
	VCGT110304-SF	11	6.35	3.18	2.8	0.4																●	●					
	VCGT160404-SF	16.5	9.525	4.8	4.4	0.4																	○					
HF Finishing Schlichten	VCGT110304-HF	11	6.35	3.18	2.8	0.4	●																					
	VCGT130304	13.8	7.94	3.3	3.4	0.4	●																					
NF Finishing Schlichten	VCGT160408-NF	16.5	9.525	4.76	4.4	0.8																						

Tool holder / Klemmhalter



Page/Seite A231

A232

A193

A194

● Ex Stock / ab Lager ○ On demand / auf Anfrage

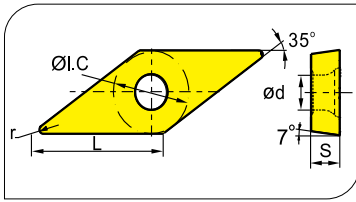
Turning · Drehen

Cemented carbide and cermet Inserts · Hartmetall und Cermet WSP

A


General Turning · Allgemeine Drehbearbeitung

VC** Positive Insert/ Positive WSP



● Ideal Machining Condition / Gute Bearbeitungsbedingungen
⊗ Normal Machining Condition / Normale Bearbeitungsbedingungen
⊗ Unfavorable Machining Condition / Ungünstige Bearbeitungsbedingungen

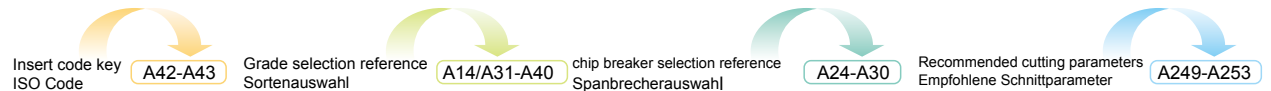
Workpiece Material / Werkstoffe	P	M	K	N	S
Steel / Stahl	●	●	●	●	●
Stainless Steel / Rostfreier Stahl	●	●	●	●	●
Cast iron / Gusseisen	●	●	●	●	●
Non-ferrous material / Ne Metalle	●	●	●	●	●
Heat-resistant steel / Warmfester Stahl	●	●	●	●	●

Insert Shape / Schneidplattenform	Type · Typ	Dimension (mm) / Abmessung					Coated Carbide / Beschichtetes Hartmetall										Cermet unbeschichtet	Cermet Coated / beschicht. Cermet	Uncoated Carbide / unbeschicht. Hartmetall									
		L	I.C	S	d	r	YBC151	YBC251	YBC351	YBG102	YBG202	YBG205	YBG302	YBM151	YBM251	YBM351			YBD052	YBD102	YBD151	YBD152	YBD252	YNG151	YNG151C	YC10	YC40	YD051
LH  Aluminium Machining / Aluminiumbearbeitung	VCGX110202-LH	11	6.35	2.38	2.8	0.2																						
	VCGX110204-LH	11	6.35	2.38	2.8	0.4				●																	●	
	VCGX110301-LH	11	6.35	3.18	2.8	0.1				○																		○
	VCGX110302-LH	11	6.35	3.18	2.8	0.2				●	●																●	
	VCGX110304-LH	11	6.35	3.18	2.8	0.4				●	●																●	
	VCGX110308-LH	11	6.35	3.18	2.8	0.8																						
	VCGX160402-LH	16.6	9.525	4.76	4.4	0.2				●	●																●	
	VCGX160404-LH	16.6	9.525	4.76	4.4	0.4				●	●																●	
	VCGX160408-LH	16.6	9.525	4.76	4.4	0.8				●	●																●	
	VCGX160412-LH	16.6	9.525	4.76	4.4	1.2					○																●	○
VCGX220530-LH	22	12.7	5.56	5.5	3.0					○																●	○	

Tool holder / Klemmhalter



Page/Seite A231 A232 A193 A194

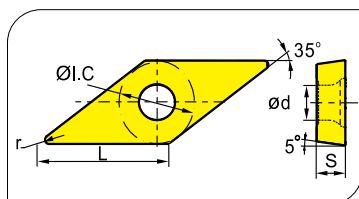


Turning · Drehen

Cemented carbide and cermet inserts · Hartmetall und Cermet WSP

VB** Positive Insert/ Positive WSP

● Ideal Machining Condition / Gute Bearbeitungsbedingungen ● Normal Machining Condition / Normale Bearbeitungsbedingungen ● Unfavorable Machining Condition / Ungünstige Bearbeitungsbedingungen



Workpiece Material / Werkstoffe	Steel / Stahl	Stainless Steel / Rostfreier Stahl	Cast iron / Gusseisen	Non-ferrite material / Ne Metalle	Heat-resistant steel / Warmfester Stahl
P	●●●●●●●●●●	●●●●●●●●	●●●●●●●●●●	●●●●●●●●●●	●●●●●●●●●●
M	●●●●●●●●●●	●●●●●●●●●●	●●●●●●●●●●	●●●●●●●●●●	●●●●●●●●●●
K	●●●●●●●●●●	●●●●●●●●●●	●●●●●●●●●●	●●●●●●●●●●	●●●●●●●●●●
N	●●●●●●●●●●	●●●●●●●●●●	●●●●●●●●●●	●●●●●●●●●●	●●●●●●●●●●
S	●●●●●●●●●●	●●●●●●●●●●	●●●●●●●●●●	●●●●●●●●●●	●●●●●●●●●●

Insert Shape Schneidplattenform	Type · Typ	Dimension (mm) Abmessung					Coated Carbide Beschichtetes Hartmetall										Cermet unbeschichtet	Cermet Coated beschicht. Cermet.	Uncoated Carbide unbeschicht. Hartmetall								
		L	I.C	S	d	r	YBC151	YBC251	YBC351	YBG102	YBG202	YBG205	YBG302	YBM151	YBM251	YBM351	YBD052	YBD102	YBD151	YBD152	YBD252	YNG151	YNG151C	YC10	YC40	YD051	YD101
SF 	VBGT110302-SF	11	6.35	3.18	2.8	0.2																	●				
	VBGT110304-SF	11	6.35	3.18	2.8	0.4																	●				
Finishing Schlichten																											
EF 	VBMT110302-EF	11	6.35	3.18	2.8	0.2					●																
	VBMT110304-EF	11	6.35	3.18	2.8	0.4					●																
Finishing Schlichten	VBMT110308-EF	11	6.35	3.18	2.8	0.8					○																
	VBMT160404-EF	16.5	9.525	4.76	4.4	0.4					●																
	VBMT160408-EF	16.5	9.525	4.76	4.4	0.8					●																
53 	VBMT160404-53	16.6	9.525	4.76	4.4	0.4	●	●	○	●											●	○					
	VBMT160408-53	16.6	9.525	4.76	4.4	0.4	●	●	○	●											●	○					
Finishing Schlichten																											
HF 	VBMT110202-HF	11	6.35	2.38	2.8	0.2	●	○	●												●						
	VBMT110204-HF	11	6.35	2.38	2.8	0.4	●		●	●			●								●						
Finishing Schlichten	VBMT110208-HF	11	6.35	2.38	2.8	0.8	●	●	●	●												○					
NF 	VBET160404-NF	16.5	9.525	4.76	4.4	0.4			●																		
	VBET160408-NF	16.5	9.525	4.76	4.4	0.8			●																		
Finishing Schlichten																											

Tool holder / Klemmhalter



Page/Seite A190 A191 A192 A233 A234

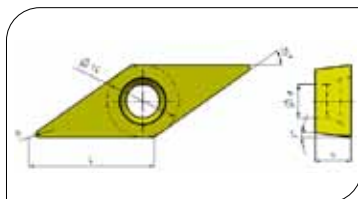
● Ex Stock / ab Lager ○ On demand / auf Anfrage

Turning · Drehen


Cemented carbide and cermet inserts · Hartmetall und Cermet WSP

VC** Positive Insert/ Positive WSP

● Ideal Machining Condition / Gute Bearbeitungsbedingungen
 ● Normal Machining Condition / Normale Bearbeitungsbedingungen
 ● Unfavorable Machining Condition / Ungünstige Bearbeitungsbedingungen



Workpiece Material Werkstoffe	Steel / Stahl		Stainless Steel / Rostfreier Stahl		Cast iron / Gusseisen		Non-ferrite material / Ne Metalle		Heat-resistant steel / Warmfester Stahl	
	P	M	K	N	S	●	●	●	●	●
P	●	●	●	●	●	●	●	●	●	●
M		●	●	●	●	●	●	●	●	●
K					●	●	●	●	●	●
N				●						
S					●	●				●

Insert Shape Schneid- plattenform	Type · Typ	Dimension (mm) Abmessung					Coated Carbide Beschichtetes Hartmetall												Cermet unbeschichtet	Cermet Coated beschicht. Cermet	Uncoated Carbide unbeschicht. Hartmetall								
		L	I.C	S	d	r	YBC151	YBC251	YBC351	YBG102	YBG202	YBG205	YBG302	YBM151	YBM251	YBM351	YBD052	YBD102	YBD151	YBD152	YBD252	YNG151	YNG151C	YC10	YC40	YD051	YD101	YD201	
EM 	VCMT160404-EM	16	9.525	4.76	4.4	0.4																							
	VCMT160408-EM	16	9.525	4.76	4.4	0.8					●																		
Finishing Schlichten																													

● Ex Stock / ab Lager ○ On demand / auf Anfrage

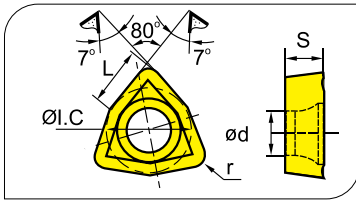
Turning · Drehen

Cemented carbide and cermet Inserts · Hartmetall und Cermet WSP

A

WC** Positive Insert/ Positive WSP

● Ideal Machining Condition / Gute Bearbeitungsbedingungen
 ⊗ Normal Machining Condition / Normale Bearbeitungsbedingungen
 ⊗ Unfavorable Machining Condition / Ungünstige Bearbeitungsbedingungen



Workpiece Material / Werkstoffe	P	M	K	N	S
P Steel / Stahl	●	●	●	●	●
M Stainless Steel / Rostfreier Stahl	●	●	●	●	●
K Cast iron / Gusseisen	●	●	●	●	●
N Non-ferite material / Ne Metalle	●	●	●	●	●
S Heat-resistant steel / Warmfester Stahl	●	●	●	●	●

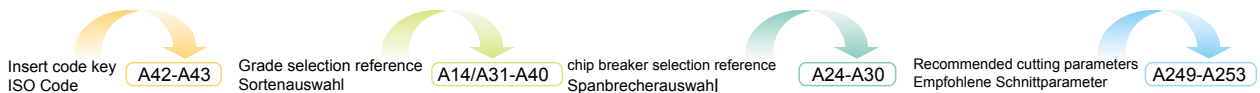
insert shape Schneidplattenform	Type · Typ	Dimension (mm) Abmessung					Coated Carbide Beschichtete Hartmetall										Cermet unbeschichtet	Cermet Coated beschicht. Cermet	carbide Hartmetall									
		L	I.C	S	d	r	YBC151	YBC251	YBC351	YBG102	YBG202	YBG205	YBG302	YBM151	YBM251	YBM351			YBD052	YBD102	YBD151	YBD152	YBD252	YNG151	YNG151C	YC10	YC40	YD051
	WCMX040208R-53	4.3	6.35	2.38	3.1	0.8																						
	WCMX06T308R-53	6.5	9.525	3.97	3.7	0.8																						
	WCMX080412R-53	8.7	12.7	4.76	4.3	1.2																						

Tool holder / Klemmhalter



Page/Seite A200















General Turning · Allgemeine Drehbearbeitung

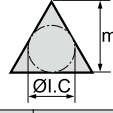





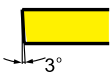
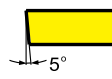
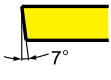
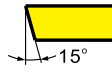

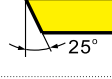
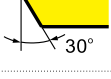
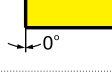

Turning · Drehen






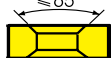
PCBN & PCD Inserts Code Key · PCBN & PCD ISO Kennzeichnung WSP

Insert shape / Schneidplattenform		
 A	 B	 C
 D	 E	 H
 K	 L	 M
 P	 S	 T
 V	 W	Others Z

Tolerance / Toleranzklasse							
							
Code	Tolerance Toleranzklasse	Tolerance ØI.C	Thickness S Dicke	Code	Tolerance	Tolerance ØI.C	Thickness S Dicke
A	±0.005	±0.025	±0.025	J	±0.005	±0.05-±0.13	±0.025
F	±0.005	±0.013	±0.025	K	±0.013	±0.05-±0.13	±0.025
C	±0.013	±0.025	±0.025	L	±0.025	±0.05-±0.13	±0.025
H	±0.013	±0.013	±0.025	M	±0.08-±0.18	±0.05-±0.13	±0.13
E	±0.025	±0.025	±0.025	N	±0.08-±0.18	±0.05-±0.13	±0.025
G	±0.025	±0.025	±0.13	U	±0.13-±0.38	±0.08-±0.25	±0.13

C N G A

Clearance angle of main cutting edge Freiwinkel der Hauptschneide			
Code	Angle / Winkel	Code	Angle / Winkel
A	 3°	B	 5°
C	 7°	D	 15°
E	 20°	F	 25°
G	 30°	N	 0°
P	 11°	O	Others

Insert type / Plattentyp		
Code	Hole	Insert Section
N	---	
B	✓	
C	✓	
A	✓	
W	✓	
Q	✓	
X	---	Special

Cutting edge length / Schneidenlänge (mm)		Insert Shape/ Plattenform					
Ø.I.C (mm)	C	D	S	T	V	W	
3.97				06			
5.0				09			
5.56							
6.0							
6.35	06	07		11	11		
8.0							
9.525	09	11	09	16	16	06	
10.0							
12.0							
12.7	12	15	12	22	22	08	
15.875	16		15	27			
16.0		19					
19.05	19		19	33			
20.0							
25.0	25	25					
25.4			25				
31.75							
32							

Insert thickness / Dicke (mm)			
Code	Insert Thickness / Dicke	Code	Insert Thickness / Dicke
02	2.38	06	6.35
T2	2.58	T6	6.75
03	3.18	07	7.94
T3	3.97	09	9.52
04	4.76	T9	9.72
T4	4.96	11	11.11
05	5.56	12	12.70
T5	5.95		

Nose radius Eckenradius	
Code	Radius (mm)
00	-
02	0.2
04	0.4
08	0.8
12	1.2
16	1.6
20	2.0
24	2.4
32	3.2
X	Others Andere
Mo	Round Insert Runde Platten

12 04 08 T 3 1 -2 W

Profile of cutting edges Schneidkantenausführung		
Code	Cutting Edge Schneidkante	Shape Form Plattenform
F	Sharp edges Scharfe Kante	
E	Honing Verrundung	
T	Chamfering Fase	
S	Chamfering Fase + Honing Verrundung	


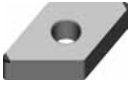





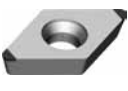



Angle of Chamfer Winkel der Fase	
Code	Angle
0	5°
1	10°
2	15°
3	20°
4	25°
5	30°

Width of Chamfer Breite der Fase	
Code	Width
0	0.1
1	0.15
2	0.2
3	0.25
4	0.3
5	0.35
6	0.4
7	0.45








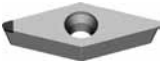

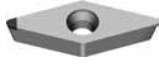
Number of cutting edges Anzahl der Schneidkanten		
Code	Number of edges Anzahl der Schneidkanten	Diagram
1	1	
2	2	
3	3	
4	4	

Wiper edge Wiperfase
W

PCBN

	Insert Shape Schneidplattenform	Type · Typ	Grade · Sorte				
			YCB111	YCB121	YCB131	YCB211	
Negative Inserts · WSP	 A118	CNGA120404-2	●	●	●	○	
		CNGA120408-2	●	●	●	●	
		CNGA120412-2	●	●	●	●	
		CNGA120408-2W	●	●			
		CNGA120412-2W	●	●			
	 A119	DNGA150604-2	●	●		○	
		DNGA150608-2	●	●	○	●	
		DNGA150612-2	●	●	○	○	
	 A120	SNGA120408-2	○	●	●	○	
		SNGA120412-2	○	●	●	○	
	 A121	TNGA160404-3	●	●			
		TNGA160408-3	●	●	●	●	
		TNGA160412-3	●	●	●	●	
	 A122	VNGA160404-2	●	○			
		VNGA160408-2	●	○			
	 A122	WNGA160404-3		●			
		WNGA160408-3		●			
	Positive Inserts · WSP	 A123	CCGW060204-1	●	●		
			CCGW060208-1	●	●		
			CCGW09T304-2	●	●	○	●
CCGW09T308-2			●	●	○	●	
CCGW120404-2			○	●	○	●	
CCGW120408-2			○	●	○	●	
 A124		DCGW070202-1	○	○			
		DCGW070204-1	●	●			
		DCGW070208-1	●	●			
		DCGW11T304-2	●	●	○	●	
		DCGW11T308-2	●	●	○	●	
 A125		TCGW110204-1	●	●	○		
		TCGW110208-1	●	●	○		
		TCGW16T304-3	●	●	○	○	
		TCGW16T308-3	●	●	○	○	
 A126		VBGW160404-2	●	●		●	
		VBGW160408-2	●	●		●	
 A126		VCGW160404-2	●	●		●	
		VCGW160408-2	●	●		●	

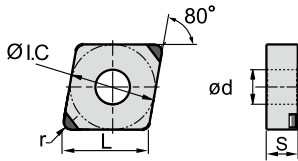
PCD

Insert Shape Schneidplattenform	Type · Typ	Grade · Sorte
		YCD421
 A127	CCMT060202	•
	CCMT060204	•
	CCMT09T304	•
	CCMT09T308	•
	CCMT120404	•
	CCMT120408	•
 A128	CCMW060202	•
	CCMW060204	•
	CCMW09T304	•
	CCMW09T308	•
	CCMW120404	•
	CCMW120408	•
 A129	DCMT070202	•
	DCMT070204	•
	DCMT11T302	•
	DCMT11T304	•
	DCMT11T308	•
 A130	DCMW070202	•
	DCMW070204	•
	DCMW070208	•
	DCMW11T302	•
	DCMW11T304	•
	DCMW11T308	•
 A131	TCMT110204	•
	TCMT16T304	•
	TCMT16T308	•
 A132	TCMW110208	•
	TCMW160304	•
	TCMW160308	•
 A133	VBMT160404	•
	VBMT160408	•
 A133	VBMW160404	•
	VBMW160408	•
 A134	VCMT160404	•
	VCMT160408	•
 A134	VCMW160404	•
	VCMW160408	•

Turning · Drehen

PCBN & PCG Inserts · PCBN & PCG WSP

CN**



● Continuous cutting
Vollschnitt

● Continuous and interrupted cutting
Voll- und leicht unterbrochener Schnitt

● Interrupted cutting
Stark unterbrochener Schnitt

Workpiece Material Werkstoffe	H	Hardened material / Gehärtete Werkstoff	●	●	●				
	K	Cast iron / Gusseisen						●	
	N	Non-ferrite material / Nichte Metalle							

Insert Shape Schneid- plattenform	Type · Typ	Dimension (mm) Abmessung					CBN			
		L	I.C	S	d	r	YCB111	YCB121	YCB131	YCB211
	CNGA120404-2	12.9	12.7	4.76	5.16	0.4	●	●	●	○
	CNGA120408-2	12.9	12.7	4.76	5.16	0.8	●	●	●	●
	CNGA120412-2	12.9	12.7	4.76	5.16	1.2	●	●	●	●
	CNGA120408-2W	12.9	12.7	4.76	5.16	0.8	●	●		
	CNGA120412-2W	12.9	12.7	4.76	5.16	1.2	●	●		

Tool Holder · Klemmhalter

PCLNR/L

Kr:95°



MCLNR/L

Kr:95°



PCLNR/L

Kr:95°



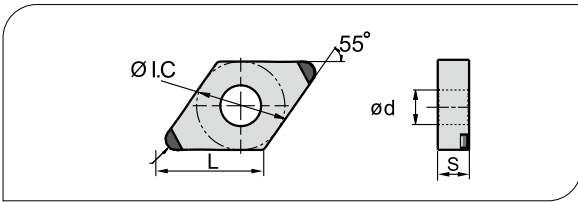
Page -Seite A159

A171

A216

● Ex Stock / ab Lager ○ On demand / auf Anfrage

DN**



- Continuous cutting
Vollschnitt
- ⊗ Continuous and interrupted cutting
Voll- und leicht unterbrochener Schnitt
- ⊙ Interrupted cutting
Stark unterbrochener Schnitt

Workpiece Material Werkstoffe	H	Hardened material / Gehärtete Werkstoff	●	⊗	⊙					
	K	Cast iron / Guss Eisen							●	
	N	Non-ferrous material / Nichte Metalle								

Insert Shape Schneid- plattenform	Type · Typ	Dimension (mm) Abmessung					CBN			
		L	I.C	S	d	r	YCB111	YCB121	YCB131	YCB211
	DNGA150604-2	15.5	12.7	6.35	5.16	0.4	●	●	●	○
	DNGA150608-2	15.5	12.7	6.35	5.16	0.8	●	●	○	●
	DNGA150612-2	15.5	12.7	6.35	5.16	1.2	●	●	○	○

General Turning · Allgemeine Drehbearbeitung

Tool Holder · Klemmhalter



Page · Seite A160

A161

A172

A173

A218

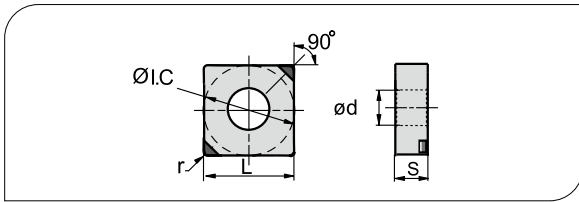
A219

● Ex Stock / ab Lager ○ On demand / auf Anfrage

Turning · Drehen

PCBN & PCG Inserts · PCBN & PCG WSP

SN**



● Continuous cutting
Vollschnitt

⊗ Continuous and interrupted cutting
Voll- und leicht unterbrochener Schnitt

⊙ Interrupted cutting
Stark unterbrochener Schnitt

Workpiece Material Werkstoffe	H	Hardened material / Gehärtete Werkstoff	○	⊗	⊙				
	K	Cast iron / Gusseisen						●	
	N	Non-ferrous material / Nichte Metalle							

Insert Shape Schneid- plattenform	Type · Typ	Dimension (mm) Abmessung					CBN			
		L	I.C	S	d	r	YCB111	YCB121	YCB131	YCB211
	SNGA120408-2	12.7	12.7	4.76	5.16	0.8	○	●	○	○
	SNGA120412-2	12.7	12.7	4.76	5.16	1.2	○	●	○	○

Tool Holder · Klemmhalter



PSBNR/L
Kr:75°



PSDNN
Kr:45°



PSKNR/L
Kr:75°



PSSNR/L
Kr:45°



MSBNR/L
Kr:75°



MSRR/L
Kr:75°



MSKNR/L
Kr:75°

Page · Seite A162

A163

A164

A165

A162

A175

A176



MSDNN
Kr:45°



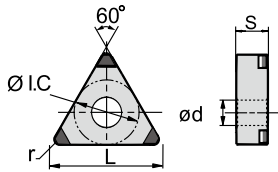
PSKNR/L
Kr:75°

Page · Seite A177

A221

● Ex Stock / ab Lager ○ On demand / auf Anfrage

TN**



● Continuous cutting
Vollschnitt

⊗ Continuous and interrupted cutting
Voll- und leicht unterbrochener Schnitt

⊙ Interrupted cutting
Stark unterbrochener Schnitt

Workpiece Material Werkstoffe	H	Hardened material / Gehärtete Werkstoff	●	⊗	⊙					
	K	Cast iron / Gusseisen							●	
	N	Non-ferrous material / Nichte Metalle								

Insert Shape Schneid- plattenform	Type · Typ	Dimension (mm) Abmessung					CBN			
		L	I.C	S	d	r	YCB111	YCB121	YCB131	YCB211
	TNGA160404-3	16.5	9.525	4.76	3.81	0.4	●	●		
	TNGA160408-3	16.5	9.525	4.76	3.81	0.8	●	●	●	●
	TNGA160412-3	16.5	9.525	4.76	3.81	1.2	●	●	●	●

Tool Holder · Klemmhalter



Page · Seite A166

A167

A168

A178

A179

A180

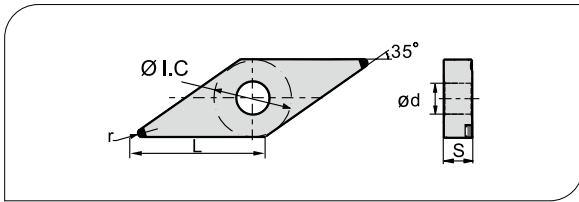
A222

● Ex Stock / ab Lager ○ On demand / auf Anfrage

Turning · Drehen

PCBN & PCG Inserts · PCBN & PCG WSP

VN**



- Continuous cutting
Vollschnitt
- ⊗ Continuous and interrupted cutting
Voll- und leicht unterbrochener Schnitt
- ⊙ Interrupted cutting
Stark unterbrochener Schnitt

Workpiece Material Werkstoffe	Workpiece Material / Gehärtete Werkstoff				Workpiece Material / Gusseisen				Workpiece Material / Ne Metalle			
	H	K	N		H	K	N		H	K	N	
	●	○	○	○	○	○	○	○	○	○	○	○

Insert Shape Schneidplattenform	Type · Typ	Dimension (mm) Abmessung					CBN			
		L	I.C	S	d	r	YCB111	YCB121	YCB131	YCB211
	VNGA160404-2	16.6	9.525	4.76	3.81	0.4	●	○		
	VNGA160408-2	16.6	9.525	4.76	3.81	0.8	●	○		

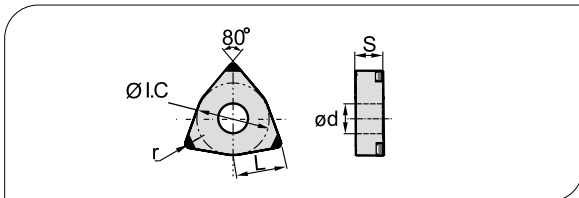
Tool Holder · Klemmhalter



Page · Seite A181

A182

WN**



- Continuous cutting
Vollschnitt
- ⊗ Continuous and interrupted cutting
Voll- und leicht unterbrochener Schnitt
- ⊙ Interrupted cutting
Stark unterbrochener Schnitt

Workpiece Material Werkstoffe	Workpiece Material / Gehärtete Werkstoff				Workpiece Material / Gusseisen				Workpiece Material / Ne Metalle			
	H	K	N		H	K	N		H	K	N	
	○	○	○	○	○	○	○	○	○	○	○	○

Insert Shape Schneidplattenform	Type · Typ	Dimension (mm) Abmessung					CBN			
		L	I.C	S	d	r	YCB111	YCB121	YCB131	YCB211
	WNGA080408-3	8.69	12.7	4.76	5.16	0.8		●		
	WNGA160404-3	8.69	12.7	4.76	5.16	0.4		●		
	WNGA160408-3	8.69	12.7	4.76	5.16	0.8		●		

Tool Holder · Klemmhalter



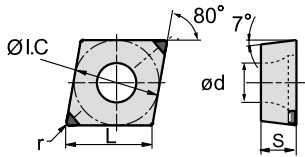
Page · Seite A169

A183

A223

● Ex Stock / ab Lager ○ On demand / auf Anfrage

CC**



- Continuous cutting
Vollschnitt
- ⊗ Continuous and interrupted cutting
Voll- und leicht unterbrochener Schnitt
- ⊙ Interrupted cutting
Stark unterbrochener Schnitt

Workpiece Material Werkstoffe	Workpiece Material / Werkstoffe			
	H Hardened material / Gehärtete Werkstoff	●	⊗	⊙
K Cast iron / Gusseisen				●
N Non-ferrite material / Ne Metalle				

Insert Shape Schneid- plattenform	Type · Typ	Dimension (mm) Abmessung					CBN			
		L	I.C	S	d	r	YCB111	YCB121	YCB131	YCB211
	CCGW060204-1	6.4	6.35	2.38	2.8	0.4	●	●		
	CCGW060208-1	6.4	6.35	2.38	2.8	0.8	●	●		
	CCGW09T304-2	9.7	9.525	3.97	4.4	0.4	●	●	○	●
	CCGW09T308-2	9.7	9.525	3.97	4.4	0.8	●	●	○	●
	CCGW120404-2	12.9	12.7	4.76	5.5	0.4	○	●	○	●
	CCGW120408-2	12.9	12.7	4.76	5.5	0.8	○	●	○	●

Tool Holder · Klemmhalter



Page · Seite A185

A186

A224

A239

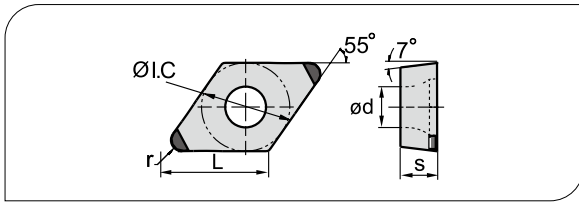
A240

● Ex Stock / ab Lager ○ On demand / auf Anfrage

Turning · Drehen

PCBN & PCG Inserts · PCBN & PCG WSP

DC**



- Continuous cutting
Vollschnitt
- ⊗ Continuous and interrupted cutting
Voll- und leicht unterbrochener Schnitt
- ⊗ Interrupted cutting
Stark unterbrochener Schnitt

Workpiece Material Werkstoffe	H Hardened material / Gehärtete Werkstoff	●	⊗	⊗					
	K Cast iron / Gusseisen							●	
	N Non-ferrous material / Nichtmetalle								

Insert Shape Schneid- plattenform	Type · Typ	Dimension (mm) Abmessung					CBN			
		L	I.C	S	d	r	YCB111	YCB121	YCB131	YCB211
	DCGW070204-1	7.8	6.35	2.38	2.8	0.4	●	●		
	DCGW070208-1	7.8	6.35	2.38	2.8	0.8	●	●		
	DCGW11T304-2	11.6	9.525	3.97	4.4	0.4	●	●	○	●
	DCGW11T308-2	11.6	9.525	3.97	4.4	0.8	●	●	○	●

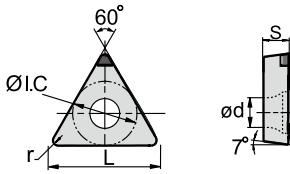
Tool Holder · Klemmhalter



Page -Seite A187 A188 A189 A226 A227 A228

● Ex Stock / ab Lager ○ On demand / auf Anfrage

TC**



● Continuous cutting
Vollschnitt

⊗ Continuous and interrupted cutting
Voll- und leicht unterbrochener Schnitt

⊗ Interrupted cutting
Stark unterbrochener Schnitt

Workpiece Material Werkstoffe	H	Hardened material / Gehärtete Werkstoff	●	⊗	⊗					
	K	Cast iron / Gussseisen							●	
	N	Non-ferrite material / Nichte Metalle								

Insert Shape Schneid- plattenform	Type · Typ	Dimension (mm) Abmessung					CBN			
		L	I.C	S	d	r	YCB111	YCB121	YCB131	YCB211
	TCGW110204-1	9.6	5.56	2.38	2.5	0.4	●	●	○	
	TCGW110208-1	9.6	5.56	2.38	2.5	0.8	●	●	○	
	TCGW16T304-3	16.5	9.525	3.97	4.4	0.4	●	●	○	○
	TCGW16T308-3	16.5	9.525	3.97	4.4	0.8	●	●	○	○

Tool Holder · Klemmhalter

STACR/L
Kr:90°



STFCR/L
Kr:91°



STGCR/L
Kr:91°



STTCR/L
Kr:60°



STFCR/L
Kr:90°



Page · Seite A197

A197

A198

A199

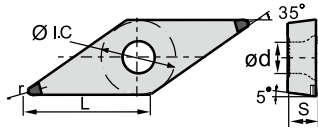
A230

● Ex Stock / ab Lager ○ On demand / auf Anfrage

Turning · Drehen

PCBN & PCG Inserts · PCBN & PCG WSP

VB**



- Continuous cutting / Vollschnitt
- Continuous and interrupted cutting / Voll- und leicht unterbrochener Schnitt
- ☼ Interrupted cutting / Stark unterbrochener Schnitt

Workpiece Material / Werkstoffe	H								
	Hardened material / Gehärtete Werkstoff								
K	Cast iron / Gusseisen					●			
N	Non-ferrite material / Ne Metalle								

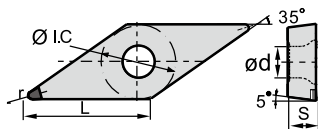
Insert Shape / Schneidplattenform	Type · Typ	Dimension (mm) / Abmessung					CBN			
		L	I.C.	S	d	r	YCB111	YCB121	YCB131	YCB211
	VBGW160404-2	16.6	9.525	4.76	4.4	0.4	●	●		●
	VBGW160408-2	16.6	9.525	4.76	4.4	0.8	●	●		●

Tool Holder · Klemmhalter



Page · Seite A190 A191 A192 A233 A234

VC**



- Continuous cutting / Vollschnitt
- Continuous and interrupted cutting / Voll- und leicht unterbrochener Schnitt
- ☼ Interrupted cutting / Stark unterbrochener Schnitt

Workpiece Material / Werkstoffe	H								
	Hardened material / Gehärtete Werkstoff								
K	Cast iron / Gusseisen					●			
N	Non-ferrite material / Ne Metalle								

Insert Shape / Schneidplattenform	Type · Typ	Dimension (mm) / Abmessung					CBN			
		L	I.C.	S	d	r	YCB111	YCB121	YCB131	YCB211
	VCGW160404-2	16.6	9.525	4.76	4.4	0.4	●	●		●
	VCGW160408-2	16.6	9.525	4.76	4.4	0.8	●	●		●

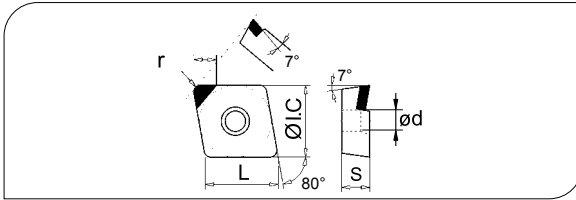
Tool Holder · Klemmhalter



Page · Seite A231 A232 A193 A194

● Ex Stock / ab Lager ○ On demand / auf Anfrage

CC**



- Continuous cutting
Vollschnitt
- ⊗ Continuous and interrupted cutting
Voll- und leicht unterbrochener Schnitt
- ⊗ Interrupted cutting
Stark unterbrochener Schnitt

Workpiece Material Werkstoffe	H Hardened material / Gehärtete Werkstoff									
	K Cast iron / Gusseisen									
	N Non-ferrite material / Ne Metalle	○								

Insert Shape Schneid- plattenform	Type · Typ	Dimension (mm) Abmessung					PCD				
		L	I.C	S	d	r	YCD421				
	CCMT060202	6.4	6.35	2.38	2.8	0.2	○				
	CCMT060204	6.4	6.35	2.38	2.8	0.4	○				
	CCMT09T304	9.7	9.525	3.97	4.4	0.4	○				
	CCMT09T308	9.7	9.525	3.97	4.4	0.8	○				
	CCMT120404	12.9	12.7	4.76	5.56	0.4	○				
	CCMT120408	12.9	12.7	4.76	5.56	0.8	○				

Applicable tools



Page A185

A186

A224

A239

A240

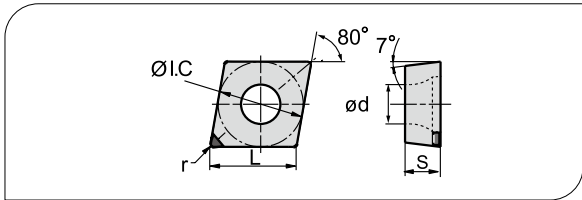
● Ex Stock / ab Lager ○ On demand / auf Anfrage

Turning · Drehen

PCBN & PCG Inserts · PCBN & PCG WSP

A

CC**



Continuous cutting
Vollschnitt

Continuous and interrupted cutting
Voll- und leicht unterbrochener Schnitt

Interrupted cutting
Stark unterbrochener Schnitt

Workpiece Material Werkstoffe	H Hardened material / Gehärtete Werkstoff									
	K Cast iron / Gusseisen									
	N Non-ferrous material / Nichtmetalle	<input checked="" type="checkbox"/>								

Insert Shape Schneid- plattenform	Type · Typ	Dimension (mm) Abmessung					PCD			
		L	I.C	S	d	r	YCD421			
	CCMW060202	6.4	6.35	2.38	2.8	0.2	<input checked="" type="checkbox"/>			
	CCMW060204	6.4	6.35	2.38	2.8	0.4	<input checked="" type="checkbox"/>			
	CCMW09T304	9.7	9.525	3.97	4.4	0.4	<input checked="" type="checkbox"/>			
	CCMW09T308	9.7	9.525	3.97	4.4	0.8	<input checked="" type="checkbox"/>			
	CCMW120404	12.9	12.7	4.76	5.56	0.4	<input checked="" type="checkbox"/>			
	CCMW120408	12.9	12.7	4.76	5.56	0.8	<input checked="" type="checkbox"/>			

Applicable tools

SCACR/L
Kr:90°



Page A185

SCLCR/L
Kr:95°



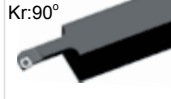
A186

SCLCR/L
Kr:95°



A224

SCFCR
Kr:90°



A239

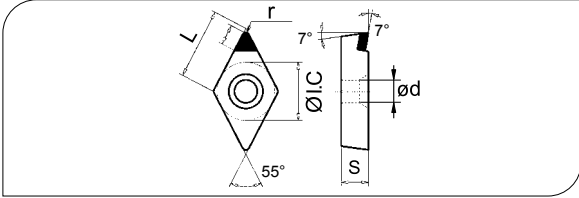
SCLCR
Kr:95°



A240

Ex Stock / ab Lager On demand / auf Anfrage

DC**



- Continuous cutting
Vollschnitt
- ⊙ Continuous and interrupted cutting
Voll- und leicht unterbrochener Schnitt
- ⊙ Interrupted cutting
Stark unterbrochener Schnitt

Workpiece Material Werkstoffe	H	Hardened material / Gehärtete Werkstoff								
	K	Cast iron / Gusseisen								
	N	Non-ferrous material / Nichtmetalle					●			

Insert Shape Schneid- plattenform	Type · Typ	Dimension (mm) Abmessung					PCD				
		L	I.C	S	d	r	YCD421				
	DCMT070202	7.8	6.35	2.38	2.8	0.2	○				
	DCMT070204	7.8	6.35	2.38	2.8	0.4	○				
	DCMT11T302	11.6	9.525	3.97	4.4	0.2	○				
	DCMT11T304	11.6	9.525	3.97	4.4	0.4	○				
	DCMT11T308	11.6	9.525	3.97	4.4	0.8	○				

Applicable tools



Page A187



A188



A189



A226



A227



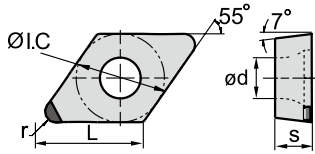
A228

● Ex Stock / ab Lager ○ On demand / auf Anfrage

Turning · Drehen

PCBN & PCG Inserts · PCBN & PCG WSP

DC**



- Continuous cutting / Vollschnitt
- Continuous and interrupted cutting / Voll- und leicht unterbrochener Schnitt
- ⚙ Intermittent cutting / Stark unterbrochener Schnitt

Workpiece Material / Werkstoffe	H	Hardened material / Gehärtete Werkstoff							
	K	Cast iron / Gusseisen							
	N	Non-ferrous material / Ne Metalle	●						

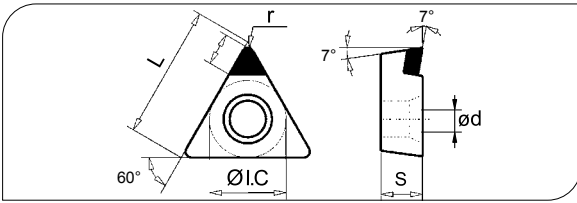
Insert Shape / Schneidplattenform	Type · Typ	Dimension (mm) / Abmessung					PCD			
		L	I.C.	S	d	r	YCD421			
	DCMW070202	7.8	6.35	2.38	2.8	0.2	●			
	DCMW070204	7.8	6.35	2.38	2.8	0.4	●			
	DCMW070208	7.8	6.35	2.38	2.8	0.8	●			
	DCMW11T302	11.6	9.525	3.97	4.4	0.2	●			
	DCMW11T304	11.6	9.525	3.97	4.4	0.4	●			
	DCMW11T308	11.6	9.525	3.97	4.4	0.8	●			

Applicable tools

SDACR/L Kr:90°	SDJCR/L Kr:93°	SDNCN Kr:62°30'	SDQCR/L Kr:107°30'	SDUCR/L Kr:93°	SDZCR/L Kr:85°
Page A187	A188	A189	A226	A227	A228

● Ex Stock / ab Lager ○ On demand / auf Anfrage

TC**



● Continuous cutting
Vollschnitt

⊗ Continuous and interrupted cutting
Voll- und leicht unterbrochener Schnitt

☼ Interrupted cutting
Stark unterbrochener Schnitt

Workpiece Material Werkstoffe	H	Hardened material / Gehärtete Werkstoff						
	K	Cast iron / Gusseisen						
	N	Non-ferrous material / Nichte Metalle	●					

Insert Shape Schneid- plattenform	Type · Typ	Dimension (mm) Abmessung					PCD		
		L	I.C.	S	d	r	YCD421		
	TCMT110204	11	6.35	2.38	2.8	0.4	○		
	TCMT16T304	16.5	9.525	3.97	4.4	0.4	○		
	TCMT16T308	16.5	9.525	3.97	4.4	0.8	○		

Applicable tools



STACR/L
Kr:90°

Page A197



STFGR/L
Kr:91°

A197



STGCR/L
Kr:91°

A198



STTCR/L
Kr:60°

A199



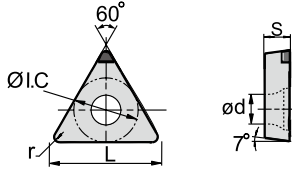
STFGR/L
Kr:90°

A230

Turning · Drehen

PCBN & PCG Inserts · PCBN & PCG WSP

TC**



- Continuous cutting
Vollschnitt
- Continuous and interrupted cutting
Voll- und leicht unterbrochener Schnitt
- Interrupted cutting
Stark unterbrochener Schnitt

Workpiece Material Werkstoffe	H	Hardened material / Gehärtete Werkstoff							
	K	Cast iron / Gusseisen							
	N	Non-ferrous material / Nichte Metalle	●						

Insert Shape Schneid- plattenform	Type · Typ	Dimension (mm) Abmessung					PCD				
		L	I.C	S	d	r	YCD421				
	TCMW110208	11	6.35	2.38	2.8	0.8	●				
	TCMW16T304	16.5	9.525	3.97	4.4	0.4	●				
	TCMW16T308	16.5	9.525	3.97	4.4	0.8	●				

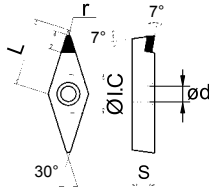
Applicable tools



Page A197 A197 A198 A199 A230

● Ex Stock / ab Lager ○ On demand / auf Anfrage

VB**



- Continuous cutting
Vollschnitt
- Continuous and interrupted cutting
Voll- und leicht unterbrochener Schnitt
- Interrupted cutting
Stark unterbrochener Schnitt

Workpiece Material Werkstoffe	H	Hardened material / Gehärtete Werkstoff						
	K	Cast iron / Gusseisen						
	N	Non-ferrous material / Nichte Metalle	●					

Insert Shape Schneid- plattenform	Type · Typ	Dimension (mm) Abmessung					PCD		
		L	I.C	S	d	r	YCD421		
	VBMT160404	16.6	9.525	4.76	4.4	0.4	○		
	VBMT160408	16.6	9.525	4.76	4.4	0.8	○		

Applicable tools

SVJBR/L
Kr:93°



Page A190

SVABR/L
Kr:90°



A191

SVVBN
Kr:72°30'



A192

SVQBR/L
Kr:107°30'



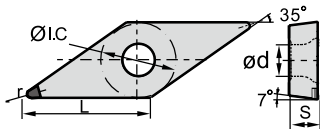
A233

SVUBR/L
Kr:93°



A234

VB**



- Continuous cutting
Vollschnitt
- Continuous and interrupted cutting
Voll- und leicht unterbrochener Schnitt
- Interrupted cutting
Stark unterbrochener Schnitt

Workpiece Material Werkstoffe	H	Hardened material / Gehärtete Werkstoff						
	K	Cast iron / Gusseisen						
	N	Non-ferrous material / Nichte Metalle	●					

Insert shape Schneid- plattenform	Type · Typ	Dimension (mm) Abmessung					PCD		
		L	I.C	S	d	r	YCD421		
	VBMW160404	16.6	9.525	4.76	4.4	0.4	●		
	VBMW160408	16.6	9.525	4.76	4.4	0.8	●		

Applicable tools

SVJBR/L
Kr:93°



Page A190

SVABR/L
Kr:90°



A191

SVVBN
Kr:72°30'



A192

SVQBR/L
Kr:107°30'



A233

SVUBR/L
Kr:93°



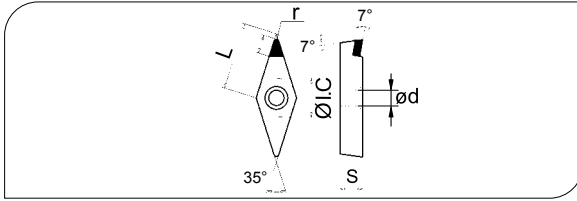
A234

● Ex Stock / ab Lager ○ On demand / auf Anfrage

Turning · Drehen

PCBN & PCG Inserts · PCBN & PCG WSP

VC**



- Continuous cutting / Vollschnitt
- Continuous and interrupted cutting / Voll- und leicht unterbrochener Schnitt
- ☀ Interrupted cutting / Stark unterbrochener Schnitt

Insert Shape Schneid- plattenform	Type · Typ	Dimension (mm) Abmessung					PCD				
		L	I.C	S	d	r	YCD421				
	VCMT160404	16.6	9.525	4.76	4.4	0.4	●				
	VCMT160408	16.6	9.525	4.76	4.4	0.8	●				

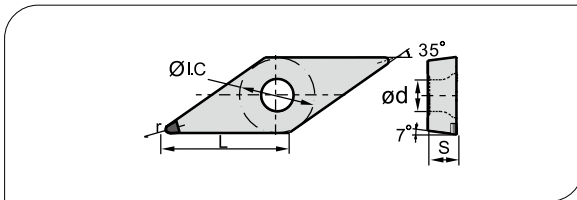
Workpiece Material Werkstoffe							
H Hardened material / Gehärtete Werkstoff							
K Cast iron / Gusseisen							
N Non-ferrous material / Ne Metalle	●						

Applicable tools



Page A190 A191 A192 A233 A234

VC**



- Continuous cutting / Vollschnitt
- Continuous and interrupted cutting / Voll- und leicht unterbrochener Schnitt
- ☀ Interrupted cutting / Stark unterbrochener Schnitt

Insert Shape Schneid- plattenform	Type · Typ	Dimension (mm) Abmessung					PCD				
		L	I.C	S	d	r	YCD421				
	VCMW160404	16.6	9.525	4.76	4.4	0.4	●				
	VCMW160408	16.6	9.525	4.76	4.4	0.8	●				

Workpiece Material Werkstoffe							
H Hardened material / Gehärtete Werkstoff							
K Cast iron / Gusseisen							
N Non-ferrous material / Ne Metalle	●						

Applicable tools



Page A190 A191 A192 A233 A234

● Ex Stock / ab Lager ○ On demand / auf Anfrage

Troubleshooting - PCBN Cutting Materials

Problembehandlung - PCBN Schneidstoffe

For investigation please send us used inserts. If breakage is problem please use inserts only 80-90% of expected tool life because broken inserts almost have no information.

Für eine genaue Untersuchung schicken Sie uns bitte die gebrauchten WSP zu. Sollte Bruch das Problem sein, setzen Sie die Platte nur 80-90% der eigentlichen Standzeit ein, denn eine gebrochene Platte enthält keine Informationen mehr.

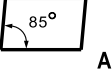
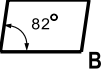
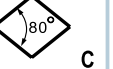
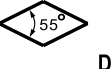
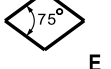
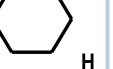
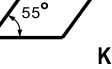

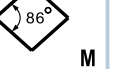
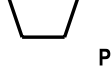

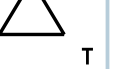

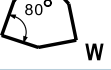
Wear phenomenon	Solution	
	Geometry	Cutting condition
Flank wear	Sharp cutting edge to reduce cutting force - smaller negative lend - change to positiv inserts	Reduce cutting speed - increase feed rate to minimise contact time
Notch wear	Bigger nose radius	Use method of altering feed rate
Crater wear/ Breakage due to crater wear	Crater wear · Breakage due to crater wear	Reduce cutting speed - increase feed rate to minimise contact time and increase distance between cutting edge and crater
Chipping due to rough condition or vibration	Bigger negative lend; angle and · or honing	Increase feed rate to reduce number of hits
Fraking	Sharp cutting edge to reduce cutting force - smaller negative lend - change to positiv inserts	Increase feed rate to reduce cutting time
Thermal crack	Sharp cutting edge to reduce cutting force - smaller negative lend - change to positiv inserts	Reduce cutting speed, feed rate and depth of cut. Use dry machining.
Chipping	Bigger negative lend	Increase cutting speed to reduce cutting force

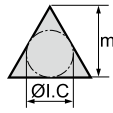

Verschleißbild	Gegenmaßnahmen	
	Geometrie	Schnittbedingungen
Freiflächenverschleiß	Schärfere Schneidkante für weniger Schnittkraft - kleinere Negativfase - positive Platten verwenden	Schnittgeschwindigkeit reduzieren - Vorschubes erhöhen um Eingriffszeit zu reduzieren
Kerbverschleiß	Größerer Radius	“Methode des variierenden Vorschub`s” verwenden
Kolkverschleiß/ Kolkbruch		- Schnittgeschwindigkeit reduzieren - Vorschubes erhöhen um Kontaktzeit zu verringern und den Abstand zwischen Schneidkante und Kolk tasche zu vergrößern.
Ausbrüche durch Schlagwirkung oder Vibrationen	Größere Negativfase Winkel und · oder gehonte Fase	- Vorschub erhöhen, um die Anzahl der Schläge zu reduzieren
Schalenförmige Ausplatzungen	Schärfere Schneidkante für weniger Schnittkraft - kleinere Negativfase - positive Platten verwenden	- Vorschub erhöhen, um Eingriffszeit zu reduzieren
Thermische Risse · Bruch	Schärfere Schneidkante für weniger Schnittkraft - kleinere Negativfase - positive Platten verwenden	Schnittgeschwindigkeit, Vorschub und Schnitttiefe reduzieren. Trockenbearbeitung
Ausbrüche	Größere Negativfase	Schnittgeschwindigkeit erhöhen um Schnittkraft zu reduzieren

● Ex Stock / ab Lager ○ On demand / auf Anfrage

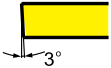




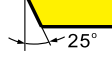
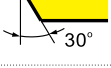
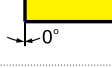

Turning · Drehen

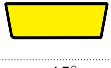
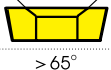

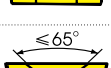
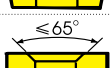
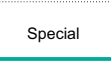
Ceramic Inserts Code Key · ISO Kennzeichnung für Keramikschnidplatten

Insert Shape / Schneidplattenform		
 A	 B	 C
 D	 E	 H
 K	 L	 M
 P	 S	 T
 V	 W	Others Z

Tolerance / Toleranzklasse							
							
Code	Tolerance	Incircle Tolerance ØI.C	Thickness S	Code	Tolerance	Tolerance ØI.C	Thickness S
A	±0.005	±0.025	±0.025	J	±0.005	±0.05-±0.13	±0.025
F	±0.005	±0.013	±0.025	K	±0.013	±0.05-±0.13	±0.025
C	±0.013	±0.025	±0.025	L	±0.025	±0.05-±0.13	±0.025
H	±0.013	±0.013	±0.025	M	±0.08-±0.18	±0.05-±0.13	±0.13
E	±0.025	±0.025	±0.025	N	±0.08-±0.18	±0.05-±0.13	±0.025
G	±0.025	±0.025	±0.13	U	±0.13-±0.38	±0.08-±0.25	±0.13

T N G A

Clearance angle of main cutting edge Freiwinkel der Hauptschneide			
code	angle / Winkel	code	angle / Winkel
A	 3°	B	 5°
C	 7°	D	 15°
E	 20°	F	 25°
G	 30°	N	 0°
P	 11°	O	Others

Insert type / Plattentyp		
Code	hole	Insert Section
N	No	
B	Yes	 > 65°
C	Yes	 > 65°
A	Yes	
W	Yes	 ≤ 65°
Q	Yes	 ≤ 65°
X	---	Special

Cutting edge length / Schneidenlänge (mm)						
Diameter of incircle (mm)	insert shape					
	C	D	S	T	V	W
3.97				06		
5.0				09		
5.56						
6.0						
6.35	06	07		11	11	
8.0						
9.525	09	11	09	16	16	06
10.0						
12.0						
12.7	12	15	12	22	22	08
15.875	16		15	27		
16.0		19				
19.05	19		19	33		
20.0						
25.0	25	25				
25.4			25			
31.75						
32						

Insert thickness / Dicke (mm)			
<p>the thickness means the distance, which between the highest part of cutting edge and insert bottom</p>			
code	Insert thickness	code	Insert thickness
02	2.38	06	6.35
T2	2.58	T6	6.75
03	3.18	07	7.94
T3	3.97	09	9.52
04	4.76	T9	9.72
T4	4.96	11	11.11
05	5.56	12	12.70
T5	5.95		

Nose radius Eckenradius	
code	Radius (mm)
00	no Radius
02	0.2
04	0.4
08	0.8
12	1.2
16	1.6
20	2.0
24	2.4
32	3.2
X	Others
Insert diameter Mo (metric)	Runde insert

12 04 08 T 020 20

Profile of cutting edges Schneidkantenausführung		
code		diagram
E	Honing Verrundung	
T	Chamfering Fase	
S	Chamfering Fase + Honing Verrundung	
F	Sharp edges Scharfe Kante	

width of chamfer Breite der Fase			
010	0.10	040	0.40
015	0.15	045	0.45
020	0.20	050	0.50
025	0.25	100	1.00
030	0.30	200	2.00
035	0.35		




angle of chamfer Winkel der Fase	
05	5°
10	10°
15	15°
20	20°
25	25°
30	30°

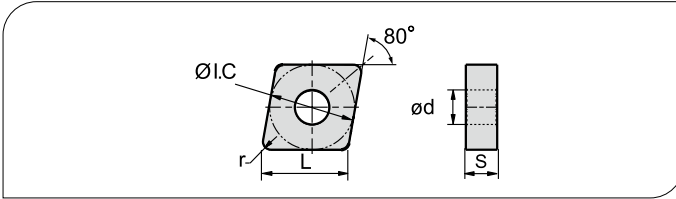
Turning · Drehen






Ceramic Inserts · Keramik WSP


A

General Turning · Allgemeine Drehbearbeitung

-  Unfavorable Machining Condition
Ungünstige Bearbeitungsbedingungen
-  Ideal Machining Condition
Gute Bearbeitungsbedingungen
-  Normal Machining Condition
Normale Bearbeitungsbedingungen



Workpiece Material Werkstoffe	P Steel / Stahl				
	K Cast iron / Gusseisen				




Insert Shape Schneid- plattenform	Type · Typ	Dimension (mm) Abmessung					Grade · Sorte		
		L	I.C	S	d	r	CA1000	CN1000	CN2000
	CNGA120404T02020	12.9	12.7	4.76	5.16	0.4		●	
	CNGA120408T02020	12.9	12.7	4.76	5.16	0.8		●	
	CNGA120412T02020	12.9	12.7	4.76	5.16	1.2		●	
	CNGA120412T03020	12.9	12.7	4.76	5.16	1.2		○	
	CNGA160608T02020	16.1	15.875	6.35	6.35	0.8		○	
	CNGA160612T02020	16.1	15.875	6.35	6.35	1.2		●	
	CNGA160616T02020	16.1	15.875	6.35	6.35	1.6		●	

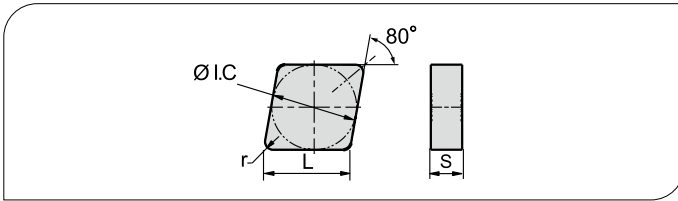
Tool Holder · Klemmhalter









Page · Seite A158 A159 A170 A171 A216

● Ex Stock / ab Lager ○ On demand / auf Anfrage

-  Unfavorable Machining Condition
Ungünstige Bearbeitungsbedingungen
-  Ideal Machining Condition
Gute Bearbeitungsbedingungen
-  Normal Machining Condition
Normale Bearbeitungsbedingungen



Workpiece Material Werkstoffe	P Steel / Stahl				
	K Cast iron / Gusseisen				

Insert Shape Schneid- plattenform	Type · Typ	Dimension (mm) Abmessung					Grade · Sorte		
		L	I.C	S	d	r	CA1000	CN1000	CN2000
	CNGN120404T02020	12.9	12.7	4.76	-	0.4	○	○	○
	CNGN120408T02020	12.9	12.7	4.76	-	0.8	●	●	●
	CNGN120412T02020	12.9	12.7	4.76	-	1.2	●	○	○
	CNGN120708T02020	12.9	12.7	7.94	-	0.8	○	○	●
	CNGN120712T02020	12.9	12.7	7.94	-	1.2	●	○	○
	CNGN120716T02020	12.9	12.7	7.94	-	1.6	○	○	○
	CNGN160408T02020	16.1	15.875	4.76	-	0.8	○		
	CNGN160412T02020	16.1	15.875	4.76	-	1.2	○	○	○
	CNGN160416T02020	16.1	15.875	4.76	-	1.6	○	○	○
	CNGN160612T02020	16.1	15.875	6.35	-	1.2	○	○	
	CNGN160616T02020	16.1	15.875	6.35	-	1.6	○	○	○

Tool Holder · Klemmhalter



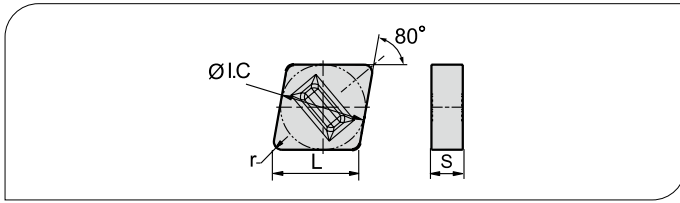
Page · Seite A204

● Ex Stock / ab Lager ○ On demand / auf Anfrage

Turning · Drehen

Ceramic Inserts · Keramik WSP

- Unfavorable Machining Condition
Ungünstige Bearbeitungsbedingungen
- Ideal Machining Condition
Gute Bearbeitungsbedingungen
- Normal Machining Condition
Normale Bearbeitungsbedingungen



Workpiece Material Werkstoffe	P Steel / Stahl				
	K Cast iron / Gusseisen				

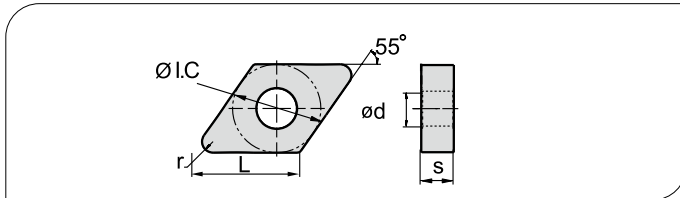
Insert Shape Schneid- plattenform	Type · Typ	Dimension (mm) Abmessung					Grade · Sorte		
		L	I.C	S	d	r	CA1000	CN1000	CN2000
	CNGX120712T02020	12.9	12.7	7.94	-	1.2		●	
	CNGX120716T02020	12.9	12.7	7.94	-	1.6		●	

Tool Holder · Klemmhalter



Page · Seite A208

- Unfavorable Machining Condition
Ungünstige Bearbeitungsbedingungen
- Ideal Machining Condition
Gute Bearbeitungsbedingungen
- Normal Machining Condition
Normale Bearbeitungsbedingungen



Workpiece Material Werkstoffe	P Steel / Stahl				
	K Cast iron / Gusseisen				

Insert Shape Schneid- plattenform	Type · Typ	Dimension (mm) Abmessung					Grade · Sorte		
		L	I.C	S	d	r	CA1000	CN1000	CN2000
	DNGA150604T02020	15.5	12.7	6.35	5.16	0.4		●	
	DNGA150608T02020	15.5	12.7	6.35	5.16	0.8		●	
	DNGA150612T02020	15.5	12.7	6.35	5.16	1.2		○	
	DNGA150616T02020	15.5	12.7	6.35	5.16	1.6		○	

Tool Holder · Klemmhalter



Page · Seite A160

A161

A172

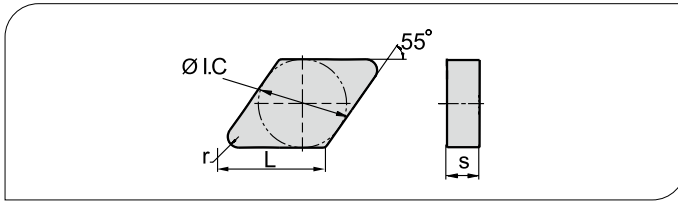
A173

A218

A219

- Ex Stock / ab Lager
- On demand / auf Anfrage

- Unfavorable Machining Condition
Ungünstige Bearbeitungsbedingungen
- Ideal Machining Condition
Gute Bearbeitungsbedingungen
- Normal Machining Condition
Normale Bearbeitungsbedingungen



Workpiece Material Werkstoffe	P Steel / Stahl				
	K Cast iron / Gusseisen				

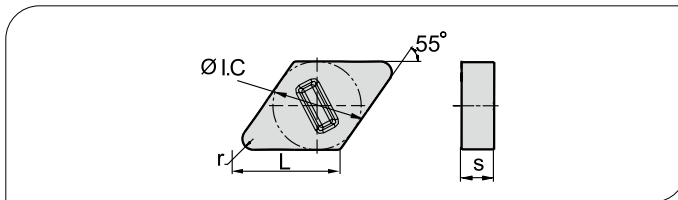
Insert Shape Schneid- plattenform	Type · Typ	Dimension (mm) Abmessung					Grade · Sorte		
		L	I.C	S	d	r	CA1000	CN1000	CNZ000
	DNGN150408T02020	15.5	12.7	4.76	-	0.8			
	DNGN150412T02020	15.5	12.7	4.76	-	1.2			
	DNGN150704T02020	15.5	12.7	7.94	-	0.4			
	DNGN150708T02020	15.5	12.7	7.94	-	0.8			
	DNGN150712T02020	15.5	12.7	7.94	-	1.2			
	DNGN150716T02020	15.5	12.7	7.94	-	1.6			

Tool Holder · Klemmhalter



Page · Seite A205

- Unfavorable Machining Condition
Ungünstige Bearbeitungsbedingungen
- Ideal Machining Condition
Gute Bearbeitungsbedingungen
- Normal Machining Condition
Normale Bearbeitungsbedingungen



Workpiece Material Werkstoffe	P Steel / Stahl				
	K Cast iron / Gusseisen				

Insert Shape Schneid- plattenform	Type · Typ	Dimension (mm) Abmessung					Grade · Sorte		
		L	I.C	S	d	r	CA1000	CN1000	CNZ000
	DNGX150712T02020	15.5	12.7	7.94	-	1.2			
	DNGX150716T02020	15.5	12.7	7.94	-	1.6			

Tool Holder · Klemmhalter



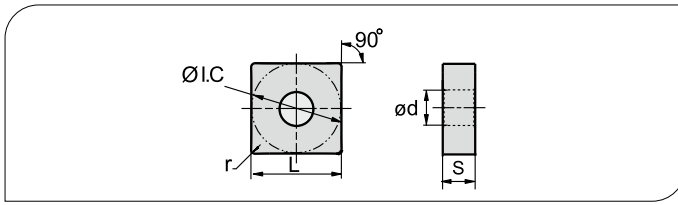
Page · Seite A208

● Ex Stock / ab Lager ○ On demand / auf Anfrage

Turning · Drehen

Ceramic Inserts · Keramik WSP

- Unfavorable Machining Condition
Ungünstige Bearbeitungsbedingungen
- Ideal Machining Condition
Gute Bearbeitungsbedingungen
- Normal Machining Condition
Normale Bearbeitungsbedingungen



Workpiece Material Werkstoffe	P Steel / Stahl				
	K Cast iron / Gusseisen				

Insert Shape Schneid- plattenform	Type · Typ	Dimension (mm) Abmessung					Grade · Sorte		
		L	I.C	S	d	r	CA1000	CN1000	CN2000
	SNGA120404T02020	12.7	12.7	4.76	5.16	0.4		○	
	SNGA120408T02020	12.7	12.7	4.76	5.16	0.8		●	
	SNGA120412T02020	12.7	12.7	4.76	5.16	1.2		●	
	SNGA120412T03020	12.7	12.7	4.76	5.16	1.2		○	
	SNGA120416T02020	12.7	12.7	4.76	5.16	1.6		○	
	SNGA120416T03020	12.7	12.7	4.76	5.16	1.6		○	

Tool Holder · Klemmhalter

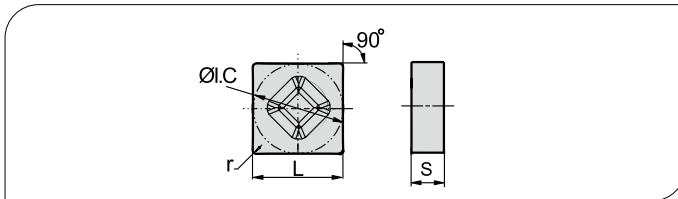


Page · Seite A162 A163 A164 A165 A174 A175 A176



Page · Seite A177 A221

- Unfavorable Machining Condition
Ungünstige Bearbeitungsbedingungen
- Ideal Machining Condition
Gute Bearbeitungsbedingungen
- Normal Machining Condition
Normale Bearbeitungsbedingungen



Workpiece Material Werkstoffe	P Steel / Stahl				
	K Cast iron / Gusseisen				




Insert Shape Schneid- plattenform	Type · Typ	Dimension (mm) Abmessung					Grade · Sorte		
		L	I.C	S	d	r	CA1000	CN1000	CN2000
	SNGX120708T02020	12.7	12.7	7.94	-	0.8		○	
	SNGX120712T02020	12.7	12.7	7.94	-	1.2		○	
	SNGX120716T02020	12.7	12.7	7.94	-	1.6		●	

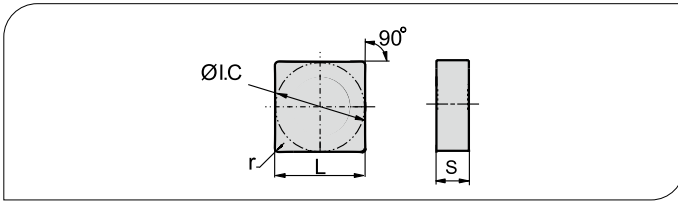
Tool Holder · Klemmhalter








Page · Seite A209

● Ex Stock / ab Lager ○ On demand / auf Anfrage

-  Unfavorable Machining Condition
Ungünstige Bearbeitungsbedingungen
-  Ideal Machining Condition
Gute Bearbeitungsbedingungen
-  Normal Machining Condition
Normale Bearbeitungsbedingungen



Workpiece Material Werkstoffe	P Steel / Stahl				
	K Cast iron / Gusseisen				

Insert Shape Schneid- plattenform	Type · Typ	Dimension (mm) Abmessung					Grade · Sorte		
		L	I.C	S	d	r	CA1000	CN1000	CN2000
	SNGN090308T01020	9.525	9.525	3.18	-	0.8	○		
	SNGN090312T01020	9.525	9.525	3.18	-	1.2	○		
	SNGN120404T02020	12.7	12.7	4.76	-	0.4	○		
	SNGN120408T02020	12.7	12.7	4.76	-	0.8	●	●	○
	SNGN120412T02020	12.7	12.7	4.76	-	1.2	●	●	●
	SNGN120412T03020	12.7	12.7	4.76	-	1.2		○	
	SNGN120416T02020	12.7	12.7	4.76	-	1.6	○	○	○
	SNGN120704T02020	12.7	12.7	7.94	-	0.4	●		
	SNGN120708T02020	12.7	12.7	7.94	-	0.8	○	○	●
	SNGN120712T02020	12.7	12.7	7.94	-	1.2	●	●	○
	SNGN120716T02020	12.7	12.7	7.94	-	1.6	●		●
	SNGN150708T02020	15.875	15.875	7.94	-	0.8	○		
	SNGN150712T02020	15.875	15.875	7.94	-	1.2	●	○	○
	SNGN150716T02020	15.875	15.875	7.94	-	1.6	●	○	○
	SNGN190708T03020	19.05	19.05	7.94	-	0.8	○		
	SNGN190712T03020	19.05	19.05	7.94	-	1.2	○		
	SNGN190716T03020	19.05	19.05	7.94	-	1.6	○		
	SNGN190724T03020	19.05	19.05	7.94	-	2.4	○		
	SNGN191024T04020	19.05	19.05	10.05	-	2.4	○		
	SNGN251024T10015	25.4	25.4	10.05	-	2.4	○		

Tool Holder · Klemmhalter






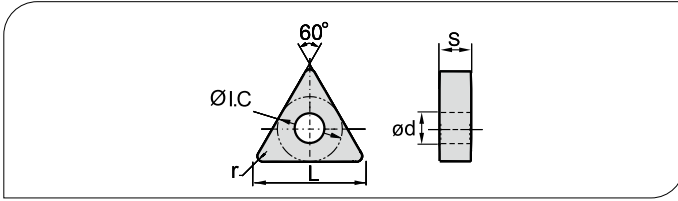
Turning · Drehen






Ceramic Inserts · Keramik WSP


A

General Turning · Allgemeine Drehbearbeitung

-  Unfavorable Machining Condition
Ungünstige Bearbeitungsbedingungen
-  Ideal Machining Condition
Gute Bearbeitungsbedingungen
-  Normal Machining Condition
Normale Bearbeitungsbedingungen



Workpiece Material Werkstoffe	P Steel / Stahl				
	K Cast iron / Gusseisen				

Insert Shape Schneid- plattenform	Type · Typ	Dimension (mm) Abmessung					Grade · Sorte		
		L	I.C	S	d	r	CA1000	CN1000	CN2000
	TNGA160404T01020	16.50	9.525	4.76	3.86	0.4		●	
	TNGA160408T02020	16.50	9.525	4.76	3.86	0.8		●	
	TNGA160412T02020	16.50	9.525	4.76	3.86	1.2		●	
	TNGA220408T02020	22.00	12.7	4.76	5.16	0.8		○	
	TNGA220412T02020	22.00	12.7	4.76	5.16	1.2		○	
	TNGA220416T02020	22.00	12.7	4.76	5.16	1.6		○	
	TNGA220416T03020	22.00	12.7	4.76	5.16	1.6		○	

Tool Holder · Klemmhalter



Page · Seite A166

A167

A168

A178

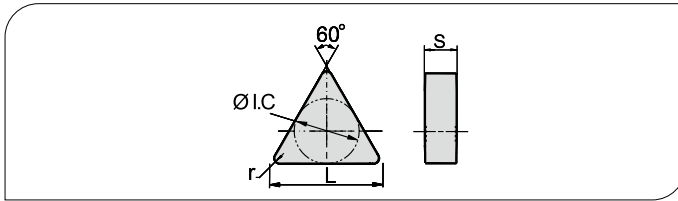
A179

A180

A222

● Ex Stock / ab Lager ○ On demand / auf Anfrage

- Unfavorable Machining Condition
Ungünstige Bearbeitungsbedingungen
- Ideal Machining Condition
Gute Bearbeitungsbedingungen
- Normal Machining Condition
Normale Bearbeitungsbedingungen



Workpiece Material Werkstoffe	P Steel / Stahl				
	K Cast iron / Gusseisen				

Insert Shape Schneid- plattenform	Type · Typ	Dimension (mm) Abmessung					Grade · Sorte		
		L	I.C	S	d	r	CA1000	CN1000	CN2000
	TNGN160404T02020	16.50	9.525	4.76	-	0.4			
	TNGN160408T02020	16.50	9.525	4.76	-	0.8			
	TNGN160412T02020	16.50	9.525	4.76	-	1.2			
	TNGN160708T02020	16.50	9.525	7.94	-	0.8			
	TNGN160712T02020	16.50	9.525	7.94	-	1.2			
	TNGN160716T02020	16.50	9.525	7.94	-	1.6			
	TNGN220408T02020	22.00	12.7	4.76	-	0.8			
	TNGN220412T02020	22.00	12.7	4.76	-	1.2			
	TNGN220416T02020	22.00	12.7	4.76	-	1.6			
	TNGN220712T02020	22.00	12.7	7.94	-	1.2			
	TNGN220716T02020	22.00	12.7	7.94	-	1.6			

Tool Holder · Klemmhalter

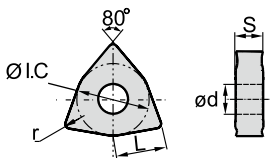



Page · Seite A204

Turning · Drehen

Ceramic Inserts · Keramik WSP

- Unfavorable Machining Condition
Ungünstige Bearbeitungsbedingungen
- Ideal Machining Condition
Gute Bearbeitungsbedingungen
- Normal Machining Condition
Normale Bearbeitungsbedingungen

	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="writing-mode: vertical-rl; transform: rotate(180deg); font-size: 8px;">Workpiece Material Werkstoffe</td> <td style="background-color: #e6f2ff;"> P Steel / Stahl </td> <td style="text-align: center;">●</td> <td></td> <td></td> <td></td> </tr> <tr> <td style="background-color: #ffe6e6;"> K Cast iron / Gusseisen </td> <td style="text-align: center;">●</td> <td style="text-align: center;">●</td> <td style="text-align: center;">●</td> <td style="text-align: center;">●</td> <td style="text-align: center;">●</td> </tr> </table>	Workpiece Material Werkstoffe	P Steel / Stahl	●				K Cast iron / Gusseisen	●	●	●	●	●
Workpiece Material Werkstoffe	P Steel / Stahl	●											
K Cast iron / Gusseisen	●	●	●	●	●								

Insert Shape Schneid- plattenform	Type · Typ	Dimension (mm) Abmessung					Grade · Sorte		
		L	I.C	S	d	r	CA1000	CN1000	CN2000
	WNGA080408T02020	8.69	12.7	4.76	5.16	0.8		●	
	WNGA080412T02020	8.69	12.7	4.76	5.16	1.2		●	
	WNGA080416T02020	8.69	12.7	4.76	5.16	1.6		●	

Tool Holder · Klemmhalter

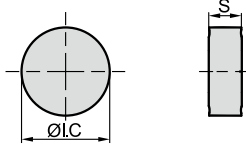



Page · Seite A169

A183

A223

- Unfavorable Machining Condition
Ungünstige Bearbeitungsbedingungen
- Ideal Machining Condition
Gute Bearbeitungsbedingungen
- Normal Machining Condition
Normale Bearbeitungsbedingungen

	<table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td style="writing-mode: vertical-rl; transform: rotate(180deg); font-size: 8px;">Workpiece Material Werkstoffe</td> <td style="background-color: #e6f2ff;"> P Steel / Stahl </td> <td style="text-align: center;">●</td> <td></td> <td></td> <td></td> </tr> <tr> <td style="background-color: #ffe6e6;"> K Cast iron / Gusseisen </td> <td style="text-align: center;">●</td> <td style="text-align: center;">●</td> <td style="text-align: center;">●</td> <td style="text-align: center;">●</td> <td style="text-align: center;">●</td> </tr> </table>	Workpiece Material Werkstoffe	P Steel / Stahl	●				K Cast iron / Gusseisen	●	●	●	●	●
Workpiece Material Werkstoffe	P Steel / Stahl	●											
K Cast iron / Gusseisen	●	●	●	●	●								

Insert Shape Schneid- plattenform	Type · Typ	Dimension (mm) Abmessung					Grade · Sorte		
		L	I.C	S	d	r	CA1000	CN1000	CN2000
	RNGN090400T02020	---	9.53	4.76	---	---	○		
	RNGN120400T02020	---	12.7	4.76	---	---	○	○	●
	RNGN120700T02020	---	12.7	7.94	---	---	●	○	●
	RNGN150700T02020	---	15.875	7.94	---	---	●	○	
	RNGN190700T03020	---	19.05	7.94	---	---	○	○	○
	RNGN251000T05020	---	25.40	10.05	---	---	○	○	

Tool Holder · Klemmhalter



Page · Seite A207



Turning · Drehen

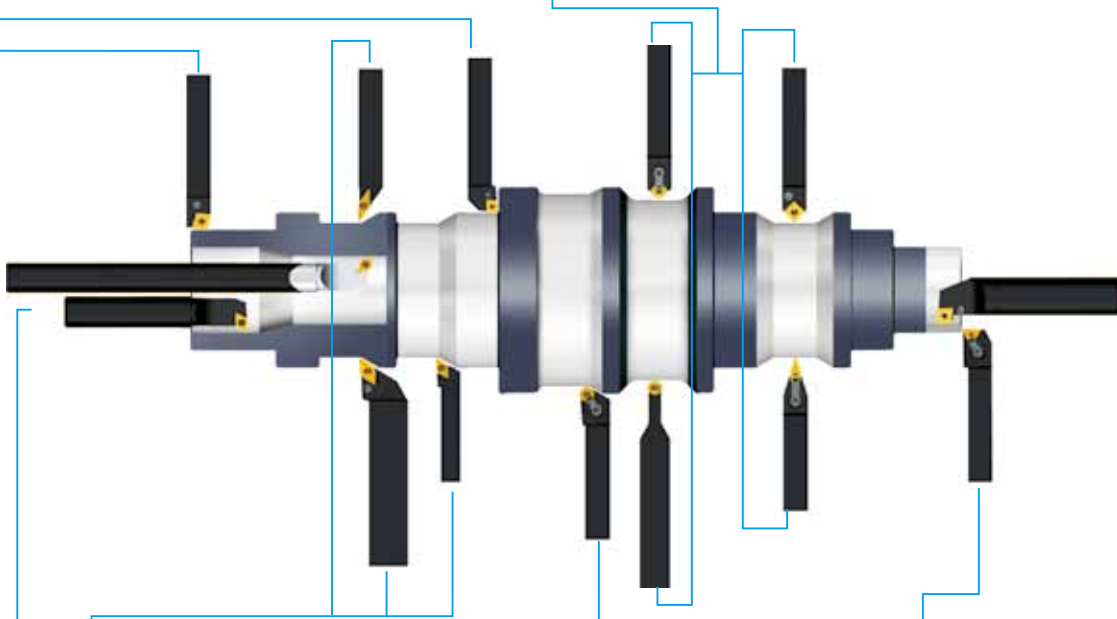
Application of turning tools · Anwendung von Drehwerkzeugen

● External and internal turning · Außen- und Innenbearbeitung

External Turning · Außenbearbeitung	Type · Typ					
	PCBNR/ L**	PSBNR/ L**	PSSN *	PTGNR/ L**	PTTNR/ L**	MCBNR/ L**
	MSBNR/ L**	MSRNR/ L**	MTGNR/ L**	MTJNR/ L**	SCACR/ L**	SSBCR/ L**
	SSSCR/ L**	STACR/ L**	STGCR/ L**	STTCR/ L**	SWACR/ L**	

External facing & turning · Außen- & Planbearbeitung	Type · Typ	
	PCLNR/ L**	PWLNR/ L**
	MCLNR/ L**	MWLNr/ L**
	SCLCR/ L**	

Profiling · Profilbearbeitung	Type · Typ			
	PDNNR/ L**	PSDNN**	MDPNN**	MSDNN**
	MVVNN**	MRDNN**	SDNCN**	SVVBN**
	SVVCN**	SSDCN**	SRDCN**	CKNNR/ L**



Profiling · Profilbearbeit.	Type · Typ		
	PDJNR/ L**	MDJNR/ L**	MVJNR/ L**
	SDACR/ L**	SDJCR/ L**	SVABR/ L**
	SVJBR/ L**	SVJCR/ L**	CKJNR/ L**

Profiling · Profilbearbeit.	Type · Typ
	MRGNR/ L**
	SRGCR/ L**

Facing · Planbearbeitung	Type · Typ
	PSKNR/ L**
	PTFNR/ L**
	MSKNR/ L**
	MTFNR/ L**
	SSKCR/ L**
	STFCR/ L**

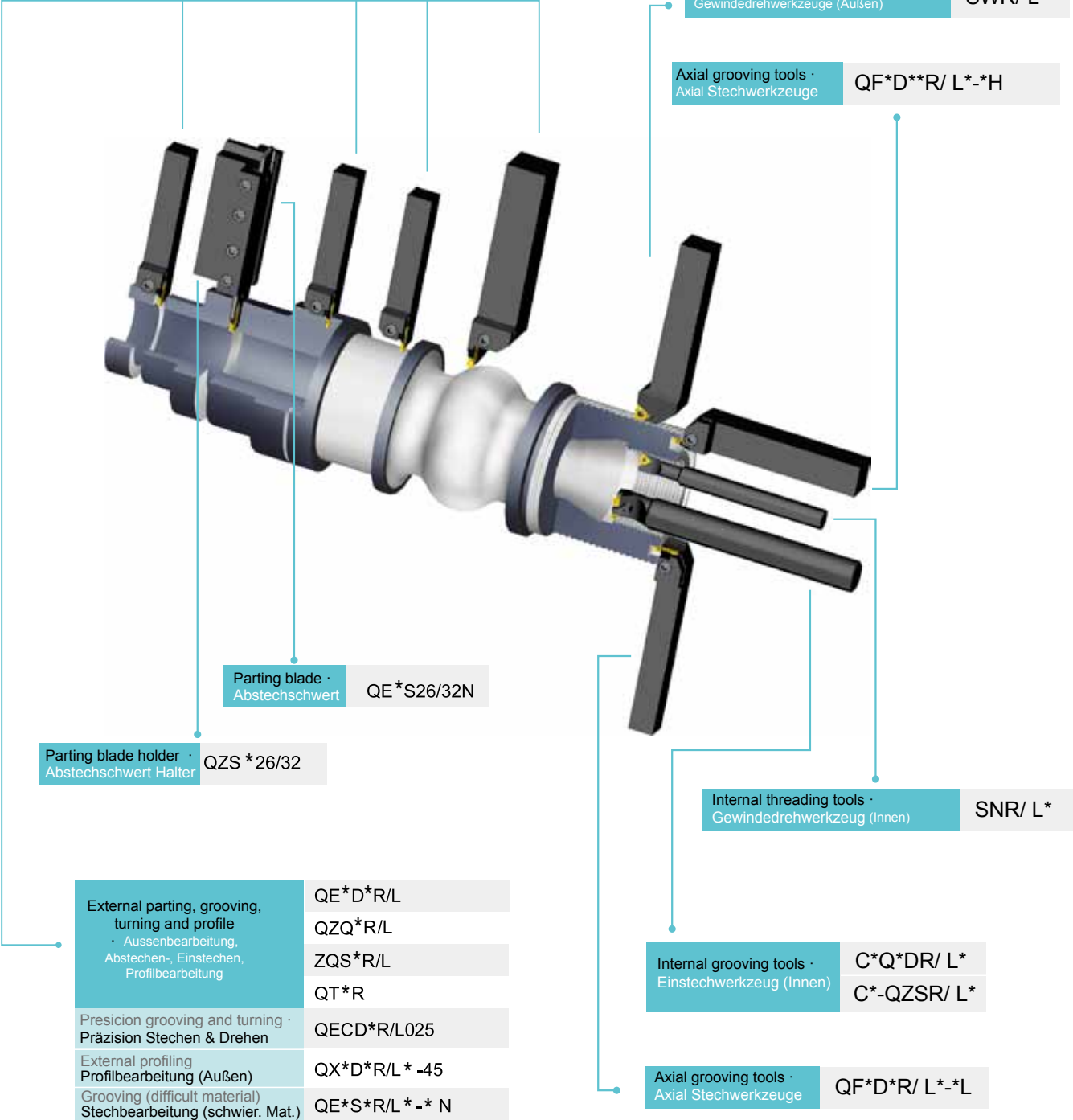
Toolholders for internal turning (Steel toolholder) · Klemmhalter Innenbearbeitung (Stahlhaustführung)						
	S*-PSKNR/ L*	S*-PCLNR/ L*	S*-PDSNR/ L*	S*-PDUNR/ L*	S*-SDQCR/ L*	S*-SDZCR/ L*
	S*-PTFNR/ L*	S*-PWLNR/ L*		S*-SDUCR/ L*	S*-SDQPR/ L*	
	S*-SCFCR*	S*-SCLCR/ L*		S*-SDUNR/ L*	S*-SVQBR/ L*	
	S*-SSKCR/ L*	S*-SCLPR/ L*		S*-SDUPR/ L*	S*-SVQCR/ L*	
	S*-STFCR/ L*			S*-SVUBR/ L*		
	S*-STUPR/ L*			S*-SVUCR/ L*		

Toolholders for internal turning (Cemented carbide) · Klemmhalter Innenbearbeitung (Hartmetall)				
	C*-STUPR/ L*	C*-SCLPR/ L*	C*-SDUPR/ L*	C*-SDQPR/ L*
		C*-SVUCR/ L*	C*-SVQCR/ L*	

Turning · Drehen

Application of turning tools · Anwendung von Drehwerkzeugen

● Parting, Grooving and Threading Tools · Abstech-, Einstech-, und Gewindewerkzeug



A

General Turning · Allgemeine Drehbearbeitung

Application of turning tools · Anwendung von Drehwerkzeugen

Turning · Drehen

External Turning Tools · Drehwerkzeuge zur Außenbearbeitung

Turning tools overview · Drehwerkzeuge Übersicht **A152-A155**

Turning tools code key · ISO Kennzeichnung **A156-A157**

**Detailed table of external turning tools
Drehwerkzeuge zur Außenbearbeitung** **A158-A210**

Turning toolholders by P type clamping · Drehwerkzeuge / P Klemmung A158-A169






Turning toolholders by M type clamping · Drehwerkzeuge / M Klemmung A170-A184

Turning toolholders by S type clamping · Drehwerkzeuge / S Klemmung A185-A202

Turning toolholders by C type clamping · Drehwerkzeuge / C Klemmung A203






















**Detailed table of external turning tools (Ceramic)
Drehwerkzeuge zur Außenbearbeitung für Kermik WSP** **A204-A210**

External turning tools Overview · Drehwerkzeugen zur Außenbearbeitung Übersicht

Clamping system Klemmsystem	Tool Type Werkzeug Typ	Approach angle Einstellwinkel	Turning Application · Anwendung						Workpiece · Werkstück		Page · Seite
			External turning Außenbearbeit.	Facing Planbearbeit.	Ext., turning & facing · Außen, & Planbearbeit.	Profiling Profilbearbeit.	Profiling Profilbearbeit.	Profiling Profilbearbeit..	Stable Stabil	Unstable Instabil	
											
P	 PCBNR/ L	75	✓						✓		A158
	 PCLNR/ L	95			✓				✓		A159
	 PDJNR/ L	93					✓		✓	✓	A160
	 PDNNR/ L	63						✓	✓		A161
	 PSBNR/ L	75	✓						✓		A162
	 PSDNN	45						✓	✓		A163
	 PSKNR/ L	75		✓					✓		A164
	 PSSNR/ L	45	✓						✓		A165
	 PTFNR/ L	90		✓					✓	✓	A166
	 PTTNR/ L	60	✓						✓		A167
	 PTGNR/ L	90	✓						✓	✓	A168
	 PWLNR/ L	95			✓				✓		A169

✓ Recommended · Empfehlung

External turning tools Overview · Drehwerkzeugen zur Außenbearbeitung Übersicht

Clamping system Klemmsystem	Tool Type Werkzeug Typ	Approach angle Einstellwinkel	Turning Application · Anwendung						Workpiece · Werkstück		Page · Seite
			External turning Außenbearbeit.	Facing Planbearbeit.	Ext., turning & facing · Außen, & Planbearbeit.	Profiling Profilbearbeit.	Profiling Profilbearbeit.	Profiling Profilbearbeit.	Stable Stabil	Unstable Instabil	
											
M	 MCBNR/ L	75	✓						✓		A170
	 MCLNR/ L	95			✓				✓		A171
	 MDJNR/ L	93					✓		✓	✓	A172
	 MDPNN	62.5						✓	✓		A173
	 MSBNR/ L	75	✓						✓		A174
	 MSRNR/ L	75	✓						✓		A175
	 MSKNR/ L	75		✓					✓		A176
	 MSDNN	45						✓	✓		A177
	 MTGNR/ L	90	✓						✓	✓	A178
	 MTJNR/ L	93	✓						✓		A179
	 MTFNR/ L	90		✓					✓		A180
	 MNVNN	72.5						✓	✓		A181
	 MVJNR/ L	93					✓		✓	✓	A182






















✓ Recommended · Empfehlung

Turning · Drehen

External turning tools Overview · Drehwerkzeugen zur Außenbearbeitung Übersicht

A

General Turning · Allgemeine Drehbearbeitung

Clamping system Klemmsystem	Tool Type Werkzeug Typ	Approach angle Einstellwinkel	Turning Application · Anwendung						Workpiece · Werkstück		Page · Seite
			External turning Außenbearbeit.	Facing Planbearbeit.	Ext., turning & facing · Außen, & Planbearbeit.	Profiling Profilbearbeit.	Profiling Profilbearbeit.	Profiling Profilbearbeit..	Stable Stabil	Unstable Instabil	
											
M	MWLNr/ L 	95			✓				✓		A183
	MrgNr/ L 					✓			✓		A184
	MRDNN 							✓	✓		A184
S	SCACr/ L 	90	✓						✓	✓	A185
	SCLCr/ L 	95			✓				✓	✓	A186
	SDACr/ L 	90					✓		✓	✓	A187
	SDJCr/ L 	93					✓		✓	✓	A188
	SDNCN 	63						✓	✓	✓	A189
	SVJBR/ L 	93					✓		✓	✓	A190
	SVABR/ L 	90					✓		✓	✓	A191
	SVVBN 	72.5						✓	✓	✓	A192
	SVVCN 	72.5						✓	✓	✓	A193
	SVJCR/ L 	93					✓		✓	✓	A194

✓ Recommended · Empfehlung

Turning · Drehen


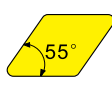
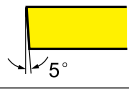
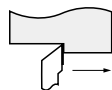


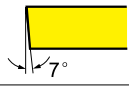
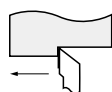

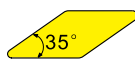
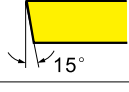


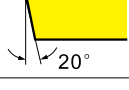
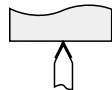
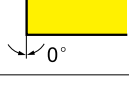
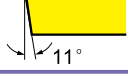
External turning tools Overview · Drehwerkzeugen zur Außenbearbeitung Übersicht

Clamping system Klemmsystem	Tool Type Werkzeug Typ	Approach angle Einstellwinkel	Turning Application · Anwendung						Workpiece · Werkstück		Page · Seite	
			External turning Außenbearbeit.	Facing Planbearbeit.	Ext., turning & facing · Außen, & Planbearbeit.	Profiling Profilbearbeit.	Profiling Profilbearbeit.	Profiling Profilbearbeit..	Stable · Stabil	Unstable · Instabil		
												
S	SSBCR/ L 	75	✓							✓		A195
	SSDCN 	45							✓	✓		A195
	SSKCR/ L 	75		✓						✓		A196
	SSSCR/ L 	45	✓							✓		A196
	STACR/ L 	90	✓							✓	✓	A197
	STFCR/ L 	90		✓						✓		A197
	STGCR/ L 	91	✓							✓	✓	A198
	STTCR/ L 	60	✓							✓		A199
	SWACR/ L 	90	✓							✓	✓	A200
	SRDCN 								✓	✓		A201
	SRGCR/ L 						✓			✓		A202
C	CKJNR/ L 	93						✓		✓		A203
	CKNNR/ L 	63							✓	✓		A203

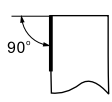
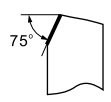
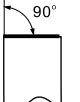
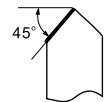
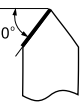
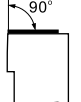
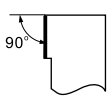

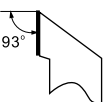
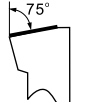
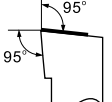
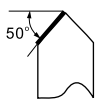
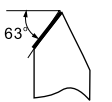
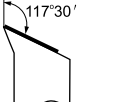
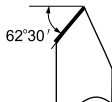
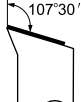

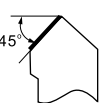

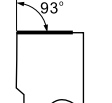
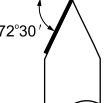
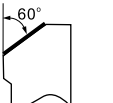
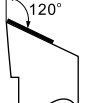
✓ Recommended · Empfehlung

Turning · Drehen

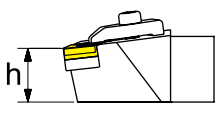
External turning tools Code Key · Drehwerkzeugen zur Außenbearbeitung ISO Kennzeichnung

Clamping System Klemmsystem	Insert shape Plattenform		Clearance angle of major cutting edge Freiwinkel der Hauptschneide	Holder execution Halteausführung
P lever lock clamping Kniehebel Spannsystem	 C	 D	 B	 L
M Screw clamping Schrauben Spannsystem	 R	 S	 C	 R
S Wedge lock clamping Pratzenkeilklemmung	 T	 V	 D	 R
C Overhead clamping Pratzenklemmung	 W		 E	 N
			 N	
			 P	

P C L N L

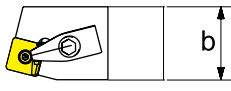
Holder style and lead angle Halteform und Anstellwinkel							
A	B	C	D	E	F	G	H
 90°	 75°	 90°	 45°	 60°	 90°	 90°	 107°30'
 93°	 75°	 95°	 50°	 63°	 117°30'	 62°30'	 107°30'
 75°	 45°	 60°	 93°	 72°30'	 60°	 120°	

Height
Schafthöhe



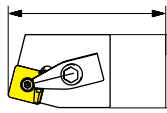
code	Height / Höhe
12	12
16	16
20	20
25	25
32	32
40	40
50	50

Shank width
Schaftbreite








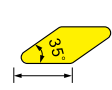

code	Width / Breite
12	12
16	16
20	20
25	25
32	32
40	40
50	50

Tool length
Halterlänge



code	Length / Länge
H	100
K	125
M	150
P	170
Q	180
R	200
S	250
T	300

25 25 M 12

Cutting edge length Schneidkantenlänge							
insert shape Plattenform	C	D	R	S	T	V	W
							
Diameter of incircle Durchmesser (mm)	Cutting edge length / Schneidkantenlänge						
5.556	---	---	---	---	09	---	---
6.350	06	07	---	---	11	---	---
9.525	09	11	09	09	16	16	06
12.700	12	15	12	12	22	22	08
15.875	16	19	15	15	27	---	---
19.050	19	---	19	19	33	---	---
25.400	25	---	25	25	44	---	---
32.000	---	---	32	---	---	---	---

Turning · Drehen

External turning tools · Drehwerkzeugen zur Außenbearbeitung

CN** Toolholder · Halter

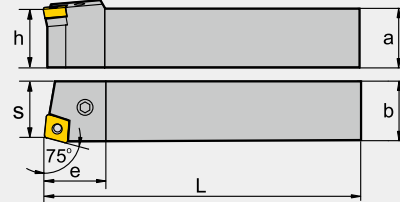
P-Clamping · P-Halter






PCBNR/ L

Kr:75°

















R type
Rechtsausführung



Type · Typ		Stock Lager Lager		Dimension (mm) Abmessung						Screw Schraube	Shim Unterlage	Wrench Schlüssel	Lever Kniehebel	Shim pin Rohrstift
		R	L	a	b	L	h	s	e					
PCBNR/ L	2020K12	●	●	20	20	125	20	17	27	LEM8×21	C12AP	WH30L	L4	SP4
	2525M12	●	●	25	25	150	25	22	27					
	3232P12	●	●	32	32	170	32	27	27					
	2525M16	●	●	25	25	150	25	22	33	LEM8×25	C16AP	WH30L	L5	SP5
	3232P16	●	●	32	32	170	32	27	33					
	3232P19	●	●	32	32	170	32	27	38	LEM10×27	C19AP	WH40L	L6	SP6
	4040S19	●	●	40	40	250	40	35	38					
	4040S2507	●	●	40	40	250	40	35	50	LEM12×36A	C25AP-07	WH50L	L8	SP8
4040S2509	●	●	40	40	250	40	35	50						

Applicable inserts
Wendeschneidplatten

Application Anwendung	Finishing Schlichten	Semi-Finishing Mittlere Bearbeitung	Rough machining Schruppen	Heavy Duty Schwerzerspanung	Cast iron Grauguss Bearbeit.
Inserts WSP	DF  A46	PM  A47	DR  A49	HDR  A50	 A51
	SF  A46	DM  A48	DR  A50		
	EF  A46	EM  A48	ER  A50		
	NF  A47	NM  A49	ER  A50		
PCBNR/L**K / M / P12	CN**1204**	CN**1204**	CN**1204**	CN**1204**	CN**1204**
PCBNR/L**M / P16	CN**1606**	CN**1606**	CN**1606**	CN**1606**	CN**1606**
PCBNR/L**P / S19		CN**1906**	CN**1906**	CN**1906**	CN**1906**
PCBNR/L**S2507			CN**2507**		
PCBNR/L**S2509			CN**2509**		

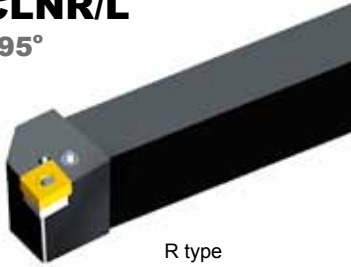
● ex stock · ab Lager ○ on demand · Anfrage

CN** Toolholder · Halter

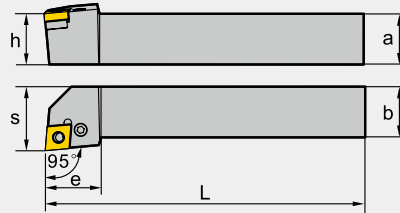
P-Clamping · P-Halter

PCLNR/L

Kr:95°



















R type
Rechtsausführung



Type · Typ		Stock Lager		Dimension (mm) Abmessung					Screw Schraube	Shim Unterlage	Wrench Schlüssel	Lever Kniehebel	Shim pin Rohrstift	
		R	L	a	b	L	h	s	e					
PCLNR/ L	1616H09	●	●	16	16	100	16	20	20	LEM6×13.4A	C09AP	WH25L	L3	SP10
	2020K09	●	●	20	20	125	20	25	22					
	2525M09	●	●	25	25	150	25	32	22					
	2020K12	●	●	20	20	125	20	25	28	LEM8×21	C12AP	WH30L	L4	SP4
	2525M12	●	●	25	25	150	25	32	28					
	3232P12	●	●	32	32	170	32	40	28	LEM8×25	C16AP	WH30L	L5	SP5
	2525M16	●	●	25	25	150	25	32	33					
	3232P16	●	●	32	32	170	32	40	33	LEM10×27	C19AP	WH40L	L6	SP6
	3232P19	●	●	32	32	170	32	40	38					
	4040S19	●	●	40	40	250	40	50	38	LEM12×36A	C25AP-07 C25AP	WH50L	L8	SP8
4040S2507	●	●	40	40	250	40	50	49						
4040S2509	●	●	40	40	250	40	50	49						

Applicable insert
Wendeschneidplatten

Application Anwendung	Finishing Schlichten	Semi-Finishing Mittlere Bearbeitung	Roughing Schruppen	Heavy Duty Schwerzerspannung	Cast iron Grauguss Bearbeit.	PCBN · PCD PCBN · PKD
insert shape Schneidplattenform	DF  A46	PM  A47	DR  A49	HDR  A50	 A51	 A118
	WG  A46	DM  A48	DR  A50			
	SF  A46	EM  A48	ER  A50			
	EF  A46	NM  A49	ER  A50			
	NF  A47					
PCLNR/L**H / K / M09	CN**0903**	CN**0903**				
PCLNR/L**K / M / P12	CN**1204**	CN**1204**	CN**1204**	CN**1204**	CN**1204**	CN**1204**
PCLNR/L**M / P16	CN**1606**	CN**1606**	CN**1606**	CN**1606**	CN**1606**	
PCLNR/L**P / S19		CN**1906**	CN**1906**	CN**1906**	CN**1906**	
PCLNR/L**S2507			CN**2507**			
PCLNR/L**S2509			CN**2509**			

Turning · Drehen

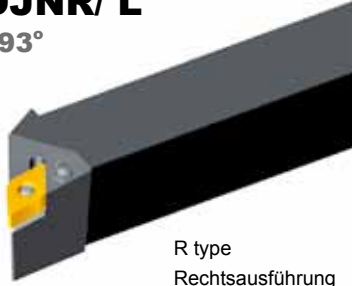
External turning tools · Drehwerkzeugen zur Außenbearbeitung

DN** Toolholder · Halter

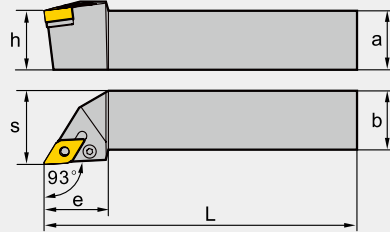
P-Clamping · P-Halter

PDJNR/ L

Kr:93°



















R type
Rechtsausführung



Type · Typ		Stock Lager		Dimension (mm) Abmessung						Screw Schraube	Shim Unterlage	Wrench Schlüssel	Lever Kniehebel	Shim pin Rohrstift
		R	L	a	b	L	h	s	e					
PDJNR/ L	1616H11	●	●	16	16	100	16	20	25	LEM6×13.4A	D11AP	WH25L	L3	SP3
	2020K11	●	●	20	20	125	20	25	25					
	2525M11	●	●	25	25	150	25	32	30					
	2020K15	●	●	20	20	125	20	25	35	LEM8×21	D15AP	WH30L	L4B	SP4
	2525M15	●	●	25	25	150	25	32	35					
	3232P15	●	●	32	32	170	32	40	35	LEM8×21	D15AP	WH30L	L4	SP4
	2020K15-3	●	●	20	20	125	20	25	35					
	2525M15-3	●	●	25	25	150	25	32	35					
3232P15-3	●	●	32	32	170	32	40	35						

Applicable insert Wendeschneidplatten

Application Anwendung	Finishing Schlichten	Semi-Finishing Mittlere Bearbeitung	Roughing Schruppen	Heavy Duty Schwerzerspannung	Cast iron machining Grauguss Bearbeit.	PCBN · PCD PCBN · PKD
insert shape Schneidplattenform	DF  A53	PM  A55	DR Double-side  A56	HDR  A58	 A58	 A119
	WG  A53	DM  A55	DR Single-side  A58			
	SF  A53	EM  A56	ER Double-side  A58			
	EF  A54	NM  A56	ER Single-side  A58			
	NF  A54					
Type · Typ	PDJNR/L**H / K / M11	DN**1104**	DN**1104**		DN**1104**	
	PDJNR/L**K / M / P15	DN**1506**	DN**1506**	DN**1506**	DN**1506**	DN**1506**
	PDJNR/L**K / M / P15-3	DN**1504**	DN**1504**		DN**1504**	DN**1504**

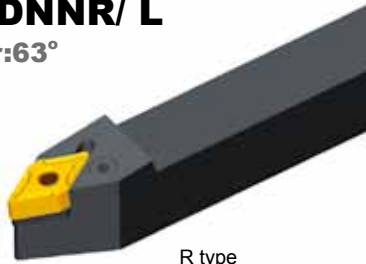
● ex stock · ab Lager ○ on demand · Anfrage

DN** Toolholder · Halter

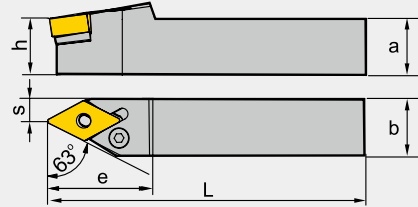
P-Clamping · P-Halter






PDNNR/ L

Kr:63°


















R type
Rechtsausführung



Type · Typ		Stock Lager		Dimension (mm) Abmessung						Screw Schraube	Shim Unterlage	Wrench Schlüssel	Lever Kniehebel	Shim pin Rohrstift
		R	L	a	b	L	h	s	e					
PDNNR/ L	2020K15	●	●	20	20	125	20	8	37	LEM8×21	D15AP	WH30L	L4B	SP4
	2525M15	●	●	25	25	150	25	12.5	37					
	3232P15	●	●	32	32	170	32	16	37					
	2020K15-3	●	●	20	20	125	20	8	37	LEM8×21	D15AP	WH30L	L4	SP4
	2525M15-3	●	●	25	25	150	25	12.5	37					
	3232P15-3	●	●	32	32	170	32	16	37					

Applicable insert
Wendeschneidplatten

Application Anwendung	Finishing Schlichten	Semi-Finishing Mittlere Bearbeitung	Roughing Schruppen	Heavy Duty Schwerzerspannung	Cast iron machining Grauguss Bearbeit.	PCBN · PCD PCBN · PKD
insert shape Schneidplattenform	DF  A53	PM  A55	DR Double-side  A56	HDR  A58	 A58	 A119
	SF  A53	DM  A55	DR Single-side  A58			
	EF  A54	EM  A56	ER Double-side  A58			
	NF  A54	NM  A56	ER Single-side  A58			
Type · Typ	PDNNR/L**K / M/ P15	DN**1506**	DN**1506**	DN**1506**	DN**1506**	DN**1506**
	PDNNR/L**K / M/ P15-3	DN**1504**	DN**1504**		DN**1504**	DN**1504**

Turning · Drehen

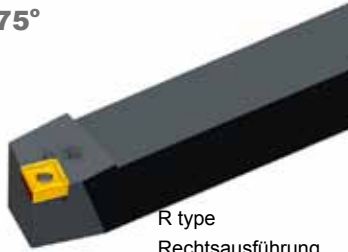
External turning tools · Drehwerkzeuge zur Außenbearbeitung

SN** Toolholder · Halter

P-Clamping · P-Halter

PSBNR/ L

Kr:75°



R type
Rechtsausführung



Type · Typ	Stock Lager		Dimension (mm) Abmessung						Screw Schraube	Shim Unterlage	Wrench Schlüssel	Lever Kniehebel	Shim pin Rohrstift	
	R	L	a	b	L	h	s	e						
PSBNR/ L	1616H09	●	●	16	16	100	16	13	21	LEM6×13.4A	S09AP	WH25L	L3	SP10
	2020K09	●	●	20	20	125	20	17	23					
	2020K12	●	●	20	20	125	20	17	28					
	2525M12	●	●	25	25	125	25	22	28	LEM8×21	S12AP	WH30L	L4	SP4
	3225P12	●	●	32	25	170	32	22	28					
	3232P12	●	●	32	32	170	32	27	28					
	2525M15	●	●	25	25	150	25	22	35	LEM8×25	S15AP	WH30L	L5	SP5
	3232P15	●	●	32	32	170	32	27	35					
	3232P19	●	●	32	32	170	32	27	40	LEM10×27	S19AP	WH40L	L6	SP6
	4040S19	●	●	40	40	250	40	35	40					
4040S2507	●	●	40	40	250	40	35	48	LEM12×36A	S25AP	WH50L	L8	SP8	
4040S2509	●	●	40	40	250	40	35	48		S25AP-09				

Applicable insert
Wendeschneidplatten

Application Anwendung	Finishing Schlichten	Semi-Finishing Mittlere Bearbeitung	Roughing Schruppen	Heavy Duty Schwerzerspannung	Cast iron machining Grauguss Bearbeit.	PCBN · PCD PCBN · PKD
insert shape Schneidplattenform	DF A59	PM A60	DR Double-side A62	HDR A64	A65	A120
	EF A59	DM A61	DR Single-side A62			
	SF A60	EM A61	ER Double-side A63			
		NM A62	ER Single-side A63			
PSBNR/L**H / K09	SN**0903**	SN**0903**			SN**0903**	
PSBNR/L**K / M / P12	SN**1204**	SN**1204**	SN**1204**	SN**1204**	SN**1204**	SN**1204**
PSBNR/L**M / P15	SN**1506**	SN**1506**	SN**1506**	SN**1506**	SN**1506**	
PSBNR/L**P / S19		SN**1906**	SN**1906**	SN**1906**	SN**1906**	
PSBNR/L**S2507			SN**2507**	SN**2507**		
PSBNR/L**S2509			SN**2509**	SN**2509**		

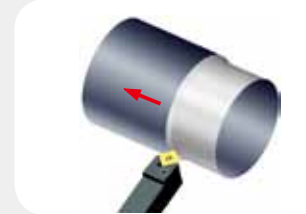
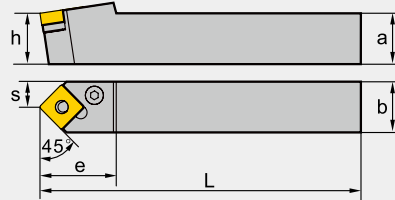
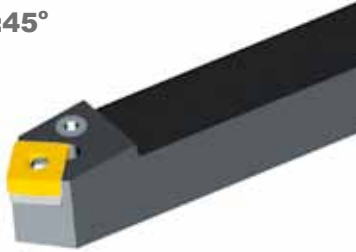
● ex stock · ab Lager ○ on demand · Anfrage






SN** Toolholder · Halter

P-Clamping · P-Halter















PSDNN

Kr:45°



Type · Typ		Stock Lager	Dimension (mm) Abmessung						Screw Schraube	Shim Unterlage	Wrench Schlüssel	Lever Kniehebel	Shim pin Rohrstift
			a	b	L	h	s	e					
PSDNN	1212F09		12	12	80	12	6	21	LEM5×12B	—	WH20L	L3B	—
	1616H09	●	16	16	100	16	8	23	LEM6×13.4A	S09AP	WH25L	L3	SP10
	2020K12	●	20	20	125	20	10	30	LEM8×21	S12AP	WH30L	L4	SP4
	2525M12	●	20	20	150	20	12.5	30					
	3232P12	●	32	32	170	32	16	40	LEM8×25	S15AP	WH30L	L5	SP5
	2525M15	●	25	25	150	25	12.5	40					
	3232P15	●	32	32	170	32	16	40	LEM10×27	S19AP	WH40L	L6	SP6
	3232P19	●	32	32	170	32	16	40					
4040S19	●	40	40	250	40	20	40						

Applicable insert
Wendeschneidplatten

Application Anwendung	Finishing Schlichten	Semi-Finishing Mittlere Bearbeitung	Roughing Schruppen	Heavy Duty Schwerzerspannung	Cast iron machining Grauguss Bearbeit.	PCBN · PCD PCBN · PKD
insert shape Schneidplattenform	DF  A59	PM  A60	DR  A62 Double-side	HDR  A64	 A65	 A120
	EF  A59	DM  A61	DR  A62 Single-side			
	SF  A60	EM  A61	ER  A63 Double-side			
		NM  A62	ER  A63 Single-side			
Type · Typ	PSDNN**F / H09	SN**0903**	SN**0903**		SN**0903**	
	PSDNN**K / M / P12	SN**1204**	SN**1204**	SN**1204**	SN**1204**	SN**1204**
	PSDNN**M / P15	SN**1506**	SN**1506**	SN**1506**	SN**1506**	
	PSDNN**P / S19		SN**1906**	SN**1906**	SN**1906**	

Turning · Drehen

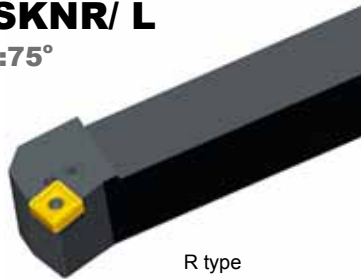
External turning tools · Drehwerkzeuge zur Außenbearbeitung

SN** Toolholder · Halter

P-Clamping · P-Halter






PSKNR/ L

Kr:75°

















R type
Rechtsausführung



Type · Typ		Stock Lager		Dimension (mm) Abmessung						Screw Schraube	Shim Unterlage	Wrench Schlüssel	Lever Kniehebel	Shim pin Rohrstift
		R	L	a	b	L	h	s	e					
PSKNR/ L	1616H09	●	●	16	16	100	16	20	17	LEM6×13.4A	S09AP	WH25L	L3	SP10
	2020K09	●	●	20	20	125	20	25	20					
	2020K12	●	●	20	20	125	20	25	26	LEM8×21	S12AP	WH30L	L4	SP4
	2525M12	●	●	25	25	150	25	32	26					
	3232P12	●	●	32	32	170	32	40	26	LEM8×25	S15AP	WH30L	L5	SP5
	2525M15	●	●	25	25	150	25	32	32					
	3232P15	●	●	32	32	170	32	40	32	LEM10×27	S19AP	WH40L	L6	SP6
	3232P19	●	●	32	32	170	32	40	36					
4040S19	●	●	40	40	250	40	50	40						

Applicable insert
Wendeschneidplatten

Application Anwendung	Finishing Schlichten	Semi-Finishing Mittlere Bearbeitung	Roughing Schruppen	Heavy Duty Schwerzerspanung	Cast iron machining Grauguss Bearbeit.	PCBN · PCD PCBN · PKD
insert shape Schneidplattenform	DF  A59	PM  A60	DR  A62	HDR  A64	 A65	 A120
	EF  A59	DM  A61	DR  A62			
	SF  A60	EM  A61	ER  A63			
		NM  A62	ER  A63			
Type · Typ	PSKNR/ L**H / K09	SN**0903**	SN**0903**		SN**0903**	
	PSKNR/ L**K / M / P12	SN**1204**	SN**1204**	SN**1204**	SN**1204**	SN**1204**
	PSKNR/ L**M / P15	SN**1506**	SN**1506**	SN**1506**	SN**1506**	
	PSKNR/ L**P / S19		SN**1906**	SN**1906**	SN**1906**	

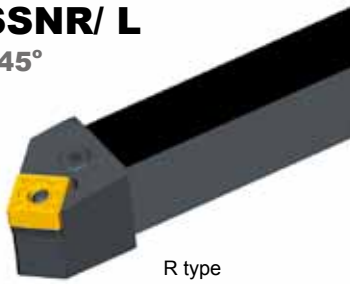
● ex stock · ab Lager ○ on demand · Anfrage

SN** Toolholder · Halter

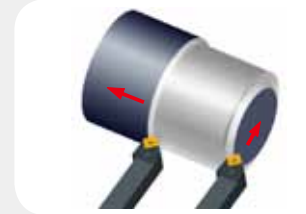
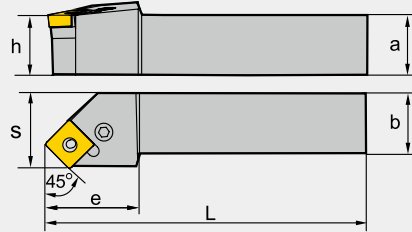
P-Clamping · P-Halter






PSSNR/ L

Kr:45°

















R type
Rechtsausführung



Type · Typ		Stock Lager		Dimension (mm) Abmessung						Screw Schraube	Shim Unterlage	Wrench Schlüssel	Lever Kniehebel	Shim pin Rohrstift
		R	L	a	b	L	h	s	e					
PSSNR/ L	1616H09	●	●	16	16	100	16	20	25	LEM6×13.4A	S09AP	WH25L	L3	SP10
	2020K12	●	●	20	20	125	20	25	30					
	2525M12	●	●	25	25	150	25	32	30	LEM8×21	S12AP	WH30L	L4	SP4
	3232P12	●	●	32	32	170	32	40	40					
	2525M15	●	●	25	25	150	25	32	30	LEM8×25	S15AP	WH30L	L5	SP5
	3232P15	●	●	32	32	170	32	40	40					
	3232P19	●	●	32	32	170	32	40	40	LEM10×27	S19AP	WH40L	L6	SP6
	4040S19	●	●	40	40	250	40	50	50					
	4040S2507	●	●	40	40	250	40	50	50	LEM12×36A	S25AP	WH50L	L8	SP8
	4040S2509	●	●	40	40	250	40	50	50		S25AP-09			

Applicable insert
Wendeschneidplatten

Application Anwendung	Finishing Schlichten	Semi-Finishing Mittlere Bearbeitung	Roughing Schruppen	Heavy Duty Schwerzerspanung	Cast iron machining Grauguss Bearbeit.	PCBN · PCD PCBN · PKD
insert shape Schneidplattenform	DF  A59	PM  A60	DR Double-side  A62	HDR  A64	 A65	 A120
	EF  A59	DM  A61	DR Single-side  A62			
	SF  A60	EM  A61	ER Double-side  A63			
		NM  A62	ER Single-side  A63			
PSSNR/ L**H09	SN**0903**	SN**0903**	SN**0903**		SN**0903**	
PSSNR/ L**K / M / P12	SN**1204**	SN**1204**	SN**1204**	SN**1204**	SN**1204**	SN**1204**
PSSNR/ L**M / P15	SN**1506**	SN**1506**	SN**1506**	SN**1506**	SN**1506**	
PSSNR/ L**P / S19		SN**1906**	SN**1906**	SN**1906**	SN**1906**	
PSSNR/ L**S2507			SN**2507**	SN**2507**		
PSSNR/ L**S2509			SN**2509**	SN**2509**		

Turning · Drehen

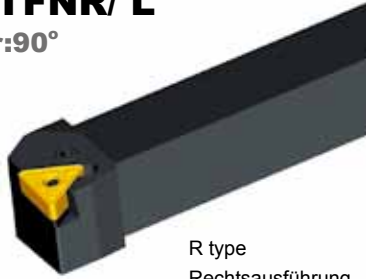
External turning tools · Drehwerkzeugen zur Außenbearbeitung

TN** Toolholder · Halter

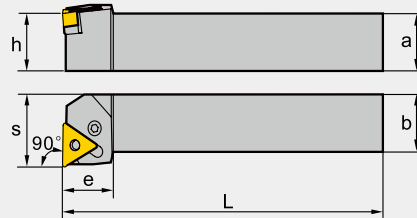
P-Clamping · P-Halter

PTFNR/ L

Kr:90°
















R type
Rechtsausführung



Type · Typ		Stock Lager		Dimension (mm) Abmessung						Screw Schraube	Shim Unterlage	Wrench Schlüssel	Lever Kniehebel	Shim pin Rohrstift
		R	L	a	b	L	h	s	e					
PTFNR/ L	1616H16	●	●	16	16	100	16	20	20	LEM6×13.4A	T16AP	WH25L	L3	SP3
	2020K16	●	●	20	20	125	20	25	20					
	2525M16	●	●	25	25	150	25	32	20					
	2525M22	●	●	25	25	150	25	32	25	LEM8×21	T22AP	WH30L	L4	SP4
	3232P22	●	●	32	32	170	32	40	25					
	3232P27	●	●	32	32	170	32	40	34	LEM8×25	T27AP	WH30L	L5	SP5
4040S27	●	●	40	40	250	40	50	34						

Applicable insert
Wendeschneidplatten

Application Anwendung	Finishing Schlichten	Semi-Finishing Mittlere Bearbeitung	Roughing Schruppen	Heavy Duty Schwerzerspannung	Cast iron machining Grauguss Bearbeit.	PCBN · PCD PCBN · PKD
insert shape Schneidplattenform	DF  A68	PM  A69	DR  A70	HDR  A72	 A73	 A121
	WG Wiper inserts  A68	DM  A69	DR  A71			
	SF  A68	EM  A70	ER  A71			
	EF  A68					
Typ	PTFNR/ L**H / K / M16	TN**1604**	TN**1604**	TN**1604**	TN**1604**	TN**1604**
Typ	PTFNR/ L**M / P22	TN**2204**	TN**2204**	TN**2204**	TN**2204**	TN**2204**
Typ	PTFNR/ L**P / S27			TN**2706**	TN**2706**	TN**2706**

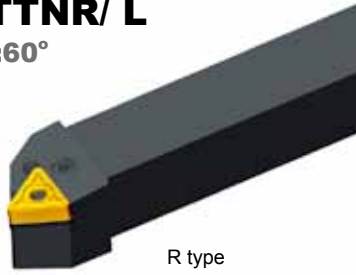
● ex stock · ab Lager ○ on demand · Anfrage

TN** Toolholder · Halter

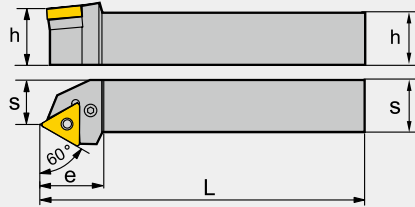
P-Clamping · P-Halter

PTTNR/ L

Kr:60°















R type
Rechtsausführung



Type · Typ		Stock Lager		Dimension (mm) Abmessung						Screw Schraube	Shim Unterlage	Wrench Schlüssel	Lever Kniehebel	Shim pin Rohrstift
		R	L	a	b	L	h	s	e					
PTTNR/ L	1616H16	●	●	16	16	100	16	13	25	LEM6×13.4A	T16AP	WH25L	L3	SP3
	2020K16	●	●	20	20	125	20	17	25					
	2525M22	●	●	25	25	150	20	22	32	LEM8×21	T22AP	WH30L	L4	SP4

Applicable insert
Wendeschneidplatten

Application Anwendung	Finishing Schlichten	Semi-Finishing Mittlere Bearbeitung	Roughing Schruppen	Heavy Duty Schwerzerspannung	Cast iron machining Grauguss Bearbeit.	PCBN · PCD PCBN · PKD
insert shape Schneidplattenform	DF  A68	PM  A69	DR  A70	HDR  A72	 A73	 A121
	SF  A68	DM  A69	DR  A71			
	EF  A68	EM  A70	ER  A71			
Type	PTTNR / L**H / K16	TN**1604**	TN**1604**	TN**1604**	TN**1604**	TN**1604**
Type	PTTNR / L**M22	TN**2204**	TN**2204**	TN**2204**	TN**2204**	

Turning · Drehen

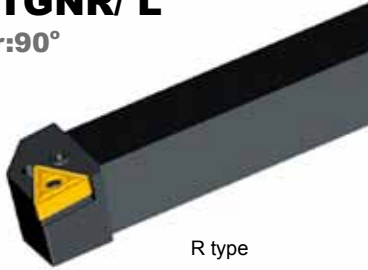
External turning tools · Drehwerkzeugen zur Außenbearbeitung

TN** Toolholder · Halter

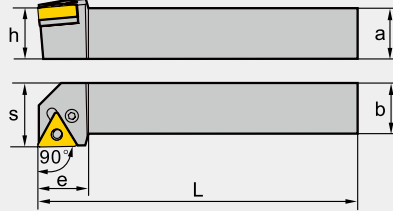
P-Clamping · P-Halter

PTGNR/ L

Kr:90°
















R type
Rechtsausführung



Type · Typ		Stock Lager		Dimension (mm) Abmessung					Screw Schraube	Shim Unterlage	Wrench Schlüssel	Lever Kniehebel	Shim pin Rohrstift	
		R	L	a	b	L	h	s						e
PTGNR/ L	1010E11			10	10	70	10	14	16	LEM5×9B	—	WH20L	L2	—
	1212F11			12	12	80	12	16	14					
	1616H11	●	●	16	16	100	16	20	18					
	2020K11	●	●	20	20	125	20	25	19					
	2525M11	●	●	25	25	150	25	32	20					
	1616H16	●	●	16	16	100	16	20	20					
	2020K16	●	●	20	20	125	20	25	20	LEM6×13.4A	T16AP	WH25L	L3	SP3
	2525M16	●	●	25	25	150	25	32	20					
	3232P16	●	●	32	32	170	32	40	20					
	2525M22	●	●	25	25	150	25	32	28	LEM8×21	T22AP	WH30L	L4	SP4
	3232P22	●	●	32	32	170	32	40	28					
	3232P27	●	●	32	32	170	32	40	33	LEM8×25	T27AP	WH30L	L5	SP5
4040S27	●	●	40	40	250	40	50	33						

Applicable insert
Wendeschneidplatten

Application Anwendung	Finishing Schlichten	Semi-Finishing Mittlere Bearbeitung	Roughing Schruppen	Heavy Duty Schwerzerspanung	Cast iron machining Grauguss Bearbeit.	PCBN · PCD PCBN · PKD
insert shape Schneidplattenform	DF  A68	PM  A69	DR  A70 Double-side	HDR  A72	 A73 Flat	 A121 Flat
	WG  A68 Wiper inserts	DM  A69	DR  A71			
	SF  A68	EM  A70	ER  A71			
	EF  A68					
Type · Typ	PTGNR/L**E / F / H / K / M11	TN**1103**	TN**1103**		TN**1103**	
	PTGNR/L**H / K / M16	TN**1604**	TN**1604**	TN**1604**	TN**1604**	TN**1604**
	PTGNR /L**M / P22	TN**2204**	TN**2204**	TN**2204**	TN**2204**	TN**2204**
	PTGNR/L**P / S27		TN**2706**	TN**2706**	TN**2706**	

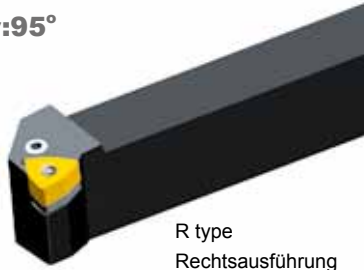
● ex stock · ab Lager ○ on demand · Anfrage

WN** Toolholder · Halter

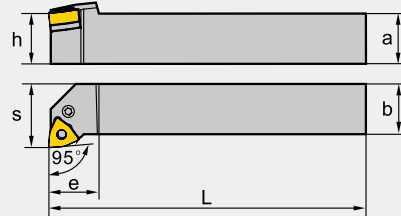
P-Clamping · P-Halter






PWLNR/ L

Kr:95°














R type
Rechtsausführung



Type · Typ		Stock Lager		Dimension (mm) Abmessung						Screw Schraube	Shim Unterlage	Wrench Schlüssel	Lever Kniehebel	Shim pin Rohrstift
		R	L	a	b	L	h	s	e					
PWLNR/ L	1616H06	●	●	16	16	100	16	20	20	LEM6×13.4A	W06AP	WH25L	L3	SP3
	2020K06	●	●	20	20	125	20	25	20					
	2525M06	●	●	25	25	150	25	32	20					
	2020K08	●	●	20	20	125	20	25	26	LEM8×21	W08AP	WH30L	L4	SP4
	2525M08	●	●	25	25	150	25	32	26					

Applicable insert
Wendeschneidplatten

Application Anwendung	Finishing Schichten	Semi-Finishing Mittlere Bearbeitung	Roughing Schruppen	Cast iron machining Grauguss Bearbeit.	
insert shape Schneidplattenform	DF  A76	PM  A78	DR Double-side  A79	Flat  A79	
	WG Wiper inserts  A76	DM  A78			
	SF  A77	EM  A78			
	EF  A77	NM  A79			
	NF  A77				
Type · Typ	PWLNR/ L**H / K / M06	WN**0604**	WN**0604**	WN**0604**	WN**0604**
	PWLNR/ L**K / M08	WN**0804**	WN**0804**	WN**0804**	WN**0804**

Turning · Drehen

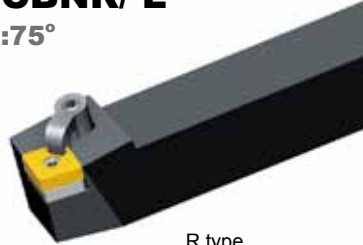
External turning tools · Drehwerkzeugen zur Außenbearbeitung

CN** Toolholder · Halter

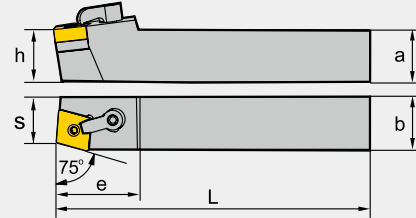
M-Clamping · M-Halter

MCBNR/ L

Kr:75°



R type
Rechtsausführung



Type · Typ		Stock Lager		Dimension (mm) Abmessung						Clamping screw Schraube	Shim Unterlage	Wrench Schlüssel	Clamp Pratte	Clamping stud Passstift
		R	L	a	b	L	h	s	e					
MCBNR/ L	2020K12	●	○	20	20	125	20	17	32	DM6×25				
	2525M12	●	●	25	25	150	20	22	32	DM6×30	C12BM	WH30L	C1RD	TM6×17
	3225P12	●	●	32	25	170	32	22	32					
	2525M16	○	○	25	25	150	25	22	40	DM6×30	C16BM	WH30L	C2RD	TM8×21
	3232P16	●	●	32	32	170	32	27	40					
	3232P19	○	○	32	32	170	32	27	45					
	4040R19	○	○	40	40	200	40	35	45	DM8×30X	C19BM	WH40L	C5RD	TM10×21

Applicable insert
Wendeschneidplatten

Application Anwendung	Finishing Schichten	Semi-Finishing Mittlere Bearbeitung	Roughing Schruppen	Heavy Duty Schwerzerspannung	Cast iron machining Grauguss Bearbeit.
insert shape Schneidplattenform	DF A46	PM A47	DR A49	HDR A50	Flat A51
	SF A46	DM A48	DR A50		
	EF A46	EM A48	ER A50		
	NF A47	NM A49	ER A50		
Type · Typ	MCBNR/ L**K / M / P12		CN**1204**		CN**1204**
	MCBNR/ L**M / P16		CN**1606**		CN**1606**
	MCBNR/ L**P / R19		CN**1906**		CN**1906**

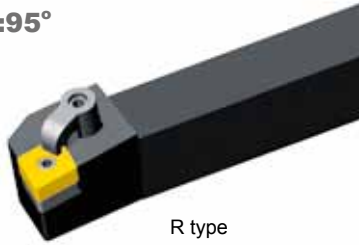
● ex stock · ab Lager ○ on demand · Anfrage

CN** Toolholder · Halter

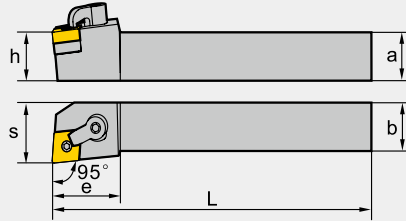
M-Clamping · M-Halter

MCLNR/ L

Kr:95°



R type
Rechtsausführung



Type · Typ		Stock Lager		Dimension (mm) Abmessung						Clamping screw Schraube	Shim Unterlage	Wrench Schlüssel	Clamp Pratte	Clamping stud Passstift	
		R	L	a	b	L	h	s	e						
MCLNR/ L	2020K12	●	●	20	20	125	20	25	32	DM6×25					
	2525M12	●	●	25	25	150	25	32	32	DM6×30	C12BM	WH30L	C1RD	TM6×17	
	3225P12	●	●	32	25	170	32	32	32						
	2525M16	●	●	25	25	150	25	32	38	DM6×30	C16BM	WH30L	C2RD	TM8×21	
	3232P16	●	●	32	32	170	32	40	38						
	3232P19	●	●	32	32	170	32	40	45						
	4040R19	○	○	40	40	200	40	50	45	DM8×30X	C19BM	WH40L	C5RD	TM10×21	

Applicable insert
Wendeschneidplatten

Application Anwendung	Finishing Schlichten	Semi-Finishing Mittlere Bearbeitung	Roughing Schruppen	Heavy Duty Schwerzerspannung	Cast iron machining Grauguss Bearbeit.	PCBN · PCD PCBN · PKD
insert shape Schneidplattenform	DF A46	PM A47	DR A49	HDR A50	Flat A51	Flat A118
	WG A46	DM A48	DR A50			
	SF A46	EM A48	ER A50			
	EF A46	NM A49	ER A50			
	NF A47					
Type · Typ	MCLNR/ L**K / M / P12	CN**1204**	CN**1204**	CN**1204**	CN**1204**	CN**1204**
	MCLNR/ L**M / P16	CN**1606**	CN**1606**	CN**1606**	CN**1606**	CN**1606**
	MCLNR/ L**P / R19		CN**1906**	CN**1906**	CN**1906**	CN**1906**

Turning · Drehen

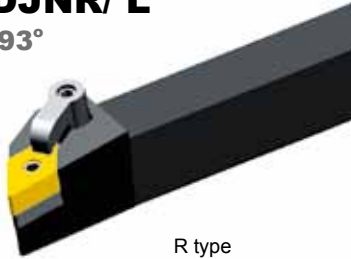
External turning tools · Drehwerkzeuge zur Außenbearbeitung

DN** Toolholder · Halter

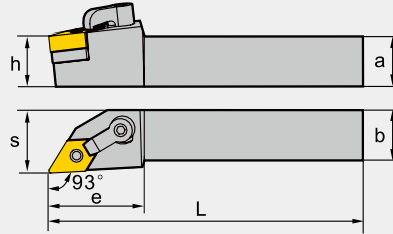
M-Clamping · M-Halter

MDJNR/ L

Kr:93°



















R type
Rechtsausführung



Type · Typ		Stock Lager		Dimension (mm) Abmessung						Clamping screw Schraube	Shim Unterlage	Wrench Schlüssel	Clamp Pratze	Clamping stud Passestift
		R	L	a	b	L	h	s	e					
MDJNR/ L	2020K11	●	●	20	20	125	20	25	32	DM6×25	D11BM	WH20L WH30L	C1RD	TM5×13
	2525M11	●	●	25	25	150	25	32	32	DM6×30				
	3225P11	●	○	32	25	170	32	32	32	DM6×30				
	2020K15	●	●	20	20	125	20	25	38	DM6×25	D15BM	WH30L	C2RD	TM6×19
	2525M15	●	●	25	25	150	25	32	38	DM6×30				
	3225P15	●	●	32	25	170	32	32	38	DM6×30				

Applicable insert
Wendeschneidplatten

Application Anwendung	Finishing Schlichten	Semi-Finishing Mittlere Bearbeitung	Roughing Schruppen	Heavy Duty Schwerzerspannung	Cast iron machining Grauguss Bearbeit.	PCBN · PCD PCBN · PKD
insert shape Schneidplattenform	DF  A53	PM  A55	DR Double-side  A56	HDR  A58	 A58	 A119
	WG Wiper  A53	DM  A55	DR Single-side  A58			
	SF  A53	EM  A56	ER Double-side  A58			
	EF  A54	NM  A56	ER Single-side  A58			
	NF  A54					
Type · Typ	MDJNR / L**K / M / P11	DN**1104**	DN**1104**		DN**1104**	
Type · Typ	MDJNR / L**K / M / P15	DN**1506**	DN**1506**	DN**1506**	DN**1506**	DN**1506**

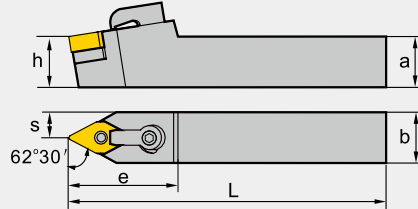
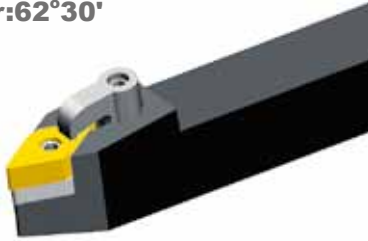
● ex stock · ab Lager ○ on demand · Anfrage

DN** Toolholder · Halter

M-Clamping · M-Halter
















MDPNN

Kr:62°30'



Type · Typ		Stock Lager	Dimension (mm) Abmessung						Clamping screw Schraube	Shim Unterlage	Wrench Schlüssel	Clamp Pratze	Clamping stud Passtift
			a	b	L	h	s	e					
MDPNN	2020K11	●	20	20	125	20	10	35	DM6×25	D11BM	WH20L WH30L	C1RD	TM5×13
	2525M11	●	25	25	150	25	12.5	35					
	3225P11	●	32	25	170	32	12.5	35					
	2020K15	●	20	20	125	20	10	40	DM6×30	D15BM	WH30L	C2RD	TM6×19
	2525M15	●	25	25	150	25	12.5	40					
	3225P15	●	32	25	170	32	12.5	40					

Applicable insert
Wendeschneidplatten

Application Anwendung	Finishing Schlichten	Semi-Finishing Mittlere Bearbeitung	Roughing Schruppen	Heavy Duty Schwerzerspannung	Cast iron machining Grauguss Bearbeit.	PCBN · PCD PCBN · PKD
insert shape Schneidplattenform	DF  A53	PM  A55	DR Double-side  A56	HDR  A58	Flat  A58	Flat  A119
	SF  A53	DM  A55	DR Single-side  A58			
	EF  A54	EM  A56	ER Double-side  A58			
	NF  A54	NM  A56	ER Single-side  A58			
Type · Typ	MDPNN**K / M / P11	DN**1104**	DN**1104**			
	MDPNN**K / M / P15	DN**1506**	DN**1506**	DN**1506**	DN**1506**	DN**1506**

Turning · Drehen

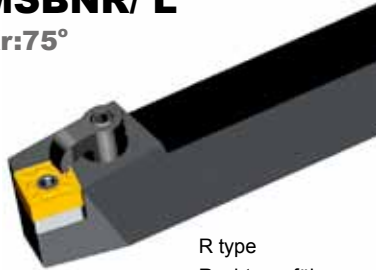
External turning tools · Drehwerkzeugen zur Außenbearbeitung

SN** Toolholder · Halter

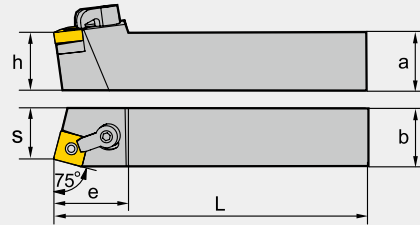
M-Clamping · M-Halter

MSBNR/ L

Kr:75°

















R type
Rechtsausführung



Type · Typ		Stock Lager		Dimension (mm) Abmessung						Clamping screw Schraube	Shim Unterlage	Wrench Schlüssel	Clamp Pratze	Clamping stud Passstift
		R	L	a	b	L	h	s	e					
MSBNR/ L	2020K12	●	●	20	20	125	20	17	32	DM6×25	S12BM	WH30L	C1RD	TM6×17
	2525M12	●	○	25	25	150	25	22	32					
	3225P12	●	○	32	25	170	32	22	32	DM6×30	S19BM	WH40L	C5RD	TM10×21
	2525M15	●	○	25	25	150	25	22	38					
	3232P15	●	○	32	32	170	32	29	38	DM8×30X	S25BM	WH40L	C6RD	TM12×29
	4032R15	●	○	40	32	200	40	27	38					
	3232P19	○	○	32	32	170	32	27	45	DM10×35X	S25BM	WH40L	C6RD	TM12×29
	4040R19	●	○	40	40	200	40	35	45					
	4040R25	●	○	40	40	200	40	35	50	DM10×35X	S25BM	WH40L	C6RD	TM12×29
4040S2509	○	○	40	40	250	40	35	50	DM10×35X					

Applicable insert
Wendeschneidplatten

Application Anwendung	Finishing Schlichten	Semi-Finishing Mittlere Bearbeitung	Roughing Schruppen	Heavy Duty Schwerzerspannung	Cast iron machining Grauguss Bearbeit.	PCBN · PCD PCBN · PKD
insert shape Schneidplattenform	DF  A59	PM  A60	DR Double-side  A62	HDR  A64	Flat  A65	Flat  A120
	EF  A59	DM  A61	DR Single-side  A62			
	SF  A60	EM  A61	ER Double-side  A63			
		NM  A62	ER Single-side  A63			
Type · Typ	MSBNR / L**K / M / P12	SN**1204**	SN**1204**	SN**1204**	SN**1204**	SN**1204**
	MSBNR / L**M / P / R15	SN**1506**	SN**1506**	SN**1506**	SN**1506**	SN**1506**
	MSBNR / L**P / R19		SN**1906**	SN**1906**	SN**1906**	SN**1906**
	MSBNR / L**R / S2509			SN**2509**	SN**2509**	

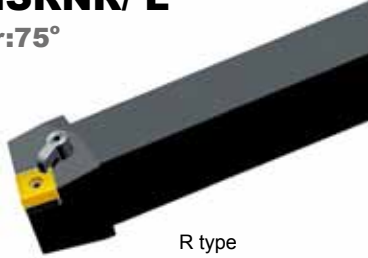
● ex stock · ab Lager ○ on demand · Anfrage

SN** Toolholder · Halter

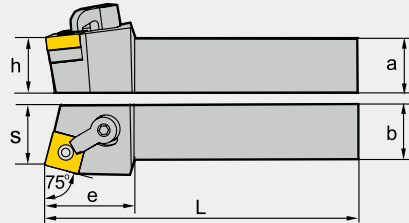
M-Clamping · M-Halter

MSRNR/ L

Kr:75°



R type
Rechtsausführung



Type · Typ		Stock Lager		Dimension (mm) Abmessung						Clamping screw Schraube	Shim Unterlage	Wrench Schlüssel	Clamp Pratte	Clamping stud Passstift
		R	L	a	b	L	h	s	e					
MSRNR/ L	2020K12	●	○	20	20	125	20	22	36	DM6×25	S12BM	WH30L	C1RD	TM6×17
	2525M12	●	○	25	25	150	25	27	36	DM6×30				
	3225P12	●	○	32	25	170	32	27	36	DM6×30				
	2525M15	●	○	25	25	150	25	27	40	DM6×30	S15BM	WH30L	C2RD	TM8×21
	3232P15	●	○	32	32	170	32	35	40					
	4032R15	○	○	40	32	200	40	35	40	DM8×30X	S19BM	WH40L	C5RD	TM10×21
	3232P19	●	○	32	32	170	32	35	45					
	4040R19	○	○	40	40	200	40	43	45	DM10×35X	S25BM	WH40L WH50L	C6RD	TM12×29
	4040R2509	○	○	40	40	200	40	43	50					
4040S2509	○	○	40	40	250	40	43	50						

Applicable insert Wendeschneidplatten

Application Anwendung	Finishing Schlichten	Semi-Finishing Mittlere Bearbeitung	Roughing Schruppen	Heavy Duty Schwerzerspannung	Cast iron machining Grauguss Bearbeit.	PCBN · PCD PCBN · PKD
insert shape Schneidplattenform	DF A59	PM A60	DR Double-side A62	HDR A64	Flat A65	Flat A120
	EF A59	DM A61	DR Single-side A62			
	SF A60	EM A61	ER Double-side A63			
		NM A62	ER Single-side A63			
Type · Typ	MSRNR / L**K / M / P12	SN**1204**	SN**1204**	SN**1204**	SN**1204**	SN**1204**
	MSRNR / L**M / P / R15	SN**1506**	SN**1506**	SN**1506**	SN**1506**	SN**1506**
	MSRNR / L**P / R19		SN**1906**	SN**1906**	SN**1906**	SN**1906**
	MSRNR / L**R / S2509			SN**2509**	SN**2509**	

Turning · Drehen

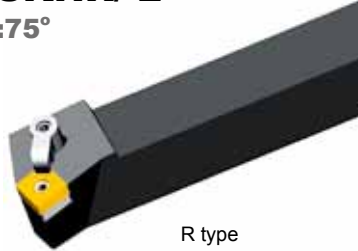
External turning tools · Drehwerkzeugen zur Außenbearbeitung

SN** Toolholder · Halter

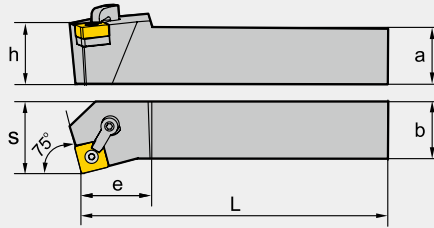
M-Clamping · M-Halter

MSKNR/ L

Kr:75°



R type
Rechtsausführung



Type · Typ		Stock Lager		Dimension (mm) Abmessung					Clamping screw Schraube	Shim Unterlage	Wrench Schlüssel	Clamp Pratze	Clamping stud Passstift	
		R	L	a	b	L	h	s	e					
MSKNR/ L	2020K12	●	●	20	20	125	20	25	32	DM6×25	S12BM	WH30L	C1RD	TM6×17
	2525M12	●	○	25	25	150	25	32	32	DM6×30				
	3225P12	●	○	32	25	170	32	32	32	DM6×30				
	2525M15	●	○	25	25	150	25	32	28	DM6×30	S15BM	WH30L	C2RD	TM8×21
	3232P15	●	○	32	32	170	32	40	38					
	4032R15	○	○	40	32	200	40	40	38	DM8×30X	S19BM	WH40L	C5RD	TM10×21
	3232P19	●	○	32	32	170	32	40	45					
	4040R19	○	○	40	40	200	40	50	45					
4040S2509	○	○	40	40	250	40	50	50	DM10×35X	S25BM	WH40L WH50L	C6RD	TM12×29	

Applicable insert
Wendeschneidplatten

Application Anwendung	Finishing Schlichten	Semi-Finishing Mittlere Bearbeitung	Roughing Schruppen	Heavy Duty Schwerzerspannung	Cast iron machining Grauguss Bearbeit.	PCBN · PCD PCBN · PKD
insert shape Schneidplattenform	DF A59	PM A60	DR Double-side A62	HDR A64	Flat A65	Flat A120
	EF A59	DM A61	DR Single-side A62			
	SF A60	EM A61	ER Double-side A63			
		NM A62	ER Single-side A63			
Type · Typ	MSKNR / L**K / M / P12	SN**1204**	SN**1204**	SN**1204**	SN**1204**	SN**1204**
	MSKNR / L**M / P / R15	SN**1506**	SN**1506**	SN**1506**	SN**1506**	SN**1506**
	MSKNR / L**P / R19		SN**1906**	SN**1906**	SN**1906**	SN**1906**
	MSKNR / L**S2509			SN**2509**	SN**2509**	

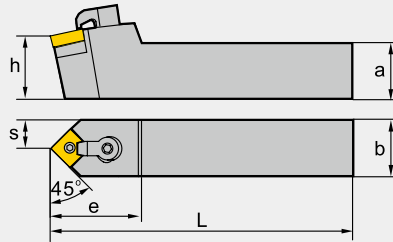
● ex stock · ab Lager ○ on demand · Anfrage

SN** Toolholder · Halter

M-Clamping · M-Halter















MSDNN

Kr:45°



Type · Typ		Stock Lager	Dimension (mm) Abmessung						Clamping screw Schraube	Shim Unterlage	Wrench Schlüssel	Clamp Pratze	Clamping stud Passtift
			a	b	L	h	s	e					
MSDNN	2020K12	●	20	20	125	20	10	35	DM6×25				
	2525M12	●	25	25	150	25	12.5	35	DM6×30	S12BM	WH30L	C1RD	TM6×17
	3225P12	●	32	25	170	32	12.5	35					
	2525M15	●	25	25	150	25	12.5	42	DM6×30	S15BM	WH30L	C2RD	TM8×21
	3232P15	○	32	32	170	32	16	42					
	4032R15	○	40	32	200	40	16	42					

Applicable insert
Wendeschneidplatten

Application Anwendung	Finishing Schlichten	Semi-Finishing Mittlere Bearbeitung	Roughing Schruppen	Heavy Duty Schwerzerspannung	Cast iron machining Grauguss Bearbeit.	PCBN · PCD PCBN · PKD
insert shape Schneidplattenform	DF  A59	PM  A60	DR Double-side  A62	HDR  A64	Flat  A65	Flat  A120
	EF  A59	DM  A61	DR Single-side  A62			
	SF  A60	EM  A61	ER Double-side  A63			
		NM  A62	ER Single-side  A63			
Type · Typ	MSDNN**K · M · P12	SN**1204**	SN**1204**	SN**1204**	SN**1204**	SN**1204**
	MSDNN**M · P · R15	SN**1506**	SN**1506**	SN**1506**	SN**1506**	SN**1506**

Turning · Drehen

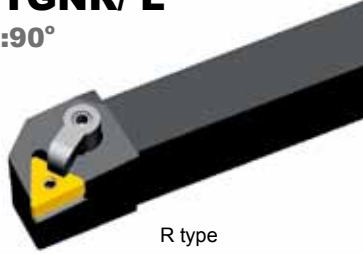
External turning tools · Drehwerkzeuge zur Außenbearbeitung

TN** Toolholder · Halter

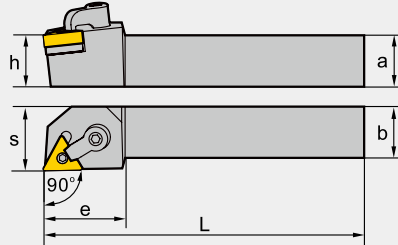
M-Clamping · M-Halter

MTGNR/ L

Kr:90°



R type
Rechtsausführung



Type · Typ		Stock Lager		Dimension (mm) Abmessung						Clamping screw Schraube	Shim Unterlage	Wrench Schlüssel	Clamp Pratte	Clamping stud Passstift
		R	L	a	b	L	h	s	e					
MTGNR/ L	2020K16	●	○	20	20	125	20	25	33	DM6×25	T16BM	WH20L WH30L	C1RD	TM5×13
	2525M16	●	●	25	25	150	25	32	33	DM6×30				
	3225P16	●	○	32	25	170	32	32	33	DM6×30				
	2525M22	●	○	25	25	150	25	32	35	DM6×30	T22BM	WH30L	C2RD	TM6×17
	3225P22	●	○	32	25	170	32	32	35	DM6×30	T22BM	WH30L	C2RD	TM6×17

Applicable insert
Wendeschneidplatten

Application Anwendung	Finishing Schlichten	Semi-Finishing Mittlere Bearbeitung	Roughing Schruppen	Heavy Duty Schwerzerspannung	Cast iron machining Grauguss Bearbeit.	PCBN · PCD PCBN · PKD
insert shape Schneidplattenform	DF A68	PM A69	DR Double -side A70	HDR A72	Flat A73	Flat A121
	WG Wiper A68	DM A69	DR Single- side A71			
	SF A68	EM A70	ER Double -side A71			
	EF A68					
Type · Typ	MTGNR / L** K / M / P16	TN**1604**	TN**1604**	TN**1604**	TN**1604**	TN**1604**
	MTGNR / L** M / P22	TN**2204**	TN**2204**	TN**2204**	TN**2204**	TN**2204**

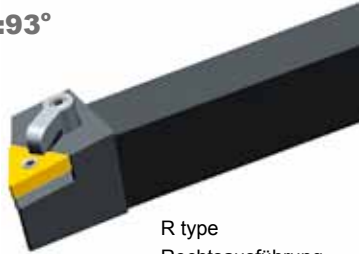
● ex stock · ab Lager ○ on demand · Anfrage

TN** Toolholder · Halter

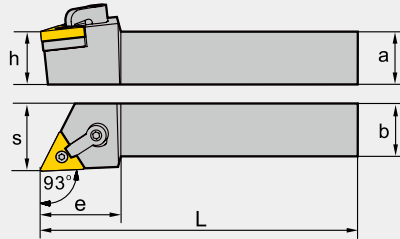
M-Clamping · M-Halter

MTJNR/ L

Kr:93°
















R type
Rechtsausführung



Type · Typ		Stock Lager		Dimension (mm) Abmessung					Clamping screw Schraube	Shim Unterlage	Wrench Schlüssel	Clamp Pratze	Clamping stud Passestift	
		R	L	a	b	L	h	s						e
MTJNR/ L	2020K16	●	●	20	20	125	20	25	32	DM6×25	T16BM	WH20L WH30L	C1RD	TM5×13
	2525M16	●	●	25	25	150	25	32	32	DM6×30				
	3225P16	●	●	32	25	170	32	32	32	DM6×30	T22BM	WH30L	C2RD	TM6×17
	2525M22	●	●	25	25	150	25	32	36					
	3225P22	○	○	32	25	170	32	32	36					

Applicable insert
Wendeschneidplatten

Application Anwendung	Finishing Schlichten	Semi-Finishing Mittlere Bearbeitung	Roughing Schruppen	Heavy Duty Schwerzerspannung	Cast iron machining Grauguss Bearbeit.	PCBN · PCD PCBN · PKD
insert shape Schneidplattenform	DF  A68	PM  A69	DR Double -side  A70	HDR  A72	Flat  A73	Flat  A121
	WG  A68	DM  A69	DR Single- side  A71			
	SF  A68	EM  A70	ER Double- side  A71			
	EF  A68					
Type · Typ	MTJNR / L** K / M / P16	TN**1604**	TN**1604**	TN**1604**	TN**1604**	TN**1604**
	MTJNR / L**M / P22	TN**2204**	TN**2204**	TN**2204**	TN**2204**	TN**2204**

Turning · Drehen

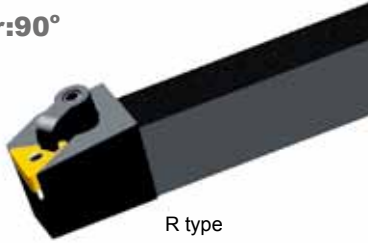
External turning tools · Drehwerkzeuge zur Außenbearbeitung

TN** Toolholder · Halter

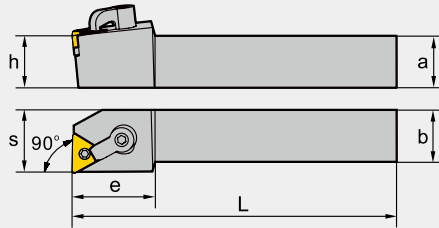
M-Clamping · M-Halter

MTFNR/ L

Kr:90°
















R type
Rechtsausführung



Type · Typ		Stock Lager		Dimension (mm) Abmessung					Clamping screw Schraube	Shim Unterlage	Wrench Schlüssel	Clamp Pratze	Clamping stud Passestift	
		R	L	a	b	L	h	s						e
MTFNR/ L	2020K16	●	●	20	20	125	20	25	32	DM6×25	T16BM	WH20L WH30L	C1RD	TM5×13
	2525M16	●	○	25	25	150	25	32	32	DM6×30				
	3225P16	●	○	32	25	170	32	32	32	DM6×30	T22BM	WH30L	C2RD	TM6×17
	2525M22	●	○	25	25	150	25	32	36					
	3225P22	●	○	32	25	170	32	32	36					

Applicable insert
Wendeschneidplatten

Application Anwendung	Finishing Schlichten	Semi-Finishing Mittlere Bearbeitung	Roughing Schruppen	Heavy Duty Schwerzerspannung	Cast iron machining Grauguss Bearbeit.	PCBN · PCD PCBN · PKD
insert shape Schneidplattenform	DF  A68	PM  A69	DR Double-side  A70	HDR  A72	Flat  A73	Flat  A121
	WG Wiper  A68	DM  A69	DR Single-side  A71			
	SF  A68	EM  A70	ER Double-side  A71			
	EF  A68					
Type · Typ	MTFNR / L** K / M / P16	TN**1604**	TN**1604**	TN**1604**	TN**1604**	TN**1604**
	MTFNR / L**M / P22	TN**2204**	TN**2204**	TN**2204**	TN**2204**	TN**2204**

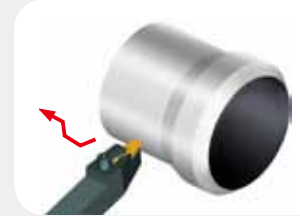
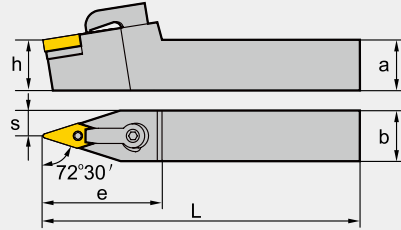
● ex stock · ab Lager ○ on demand · Anfrage

VN** Toolholder · Halter

M-Clamping · M-Halter




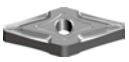





MVVNN

Kr:72°30'



Type · Typ		Stock Lager	Dimension (mm) Abmessung						Clamping screw Schraube	Shim Unterlage	Wrench Schlüssel	Clamp Pratze	Clamping stud Passstift
			a	b	L	h	s	e					
MVVNN	2020K16	●	20	20	125	20	10	45	DM6×25	V16BM	WH20L WH30L	C3RD	TM5×13
	2525M16	●	25	25	150	25	12.5	45	DM6×30				
	3225P16	○	32	25	170	32	12.5	45					
	3232P16	○	32	32	170	32	16	45					

Applicable insert
Wendeschneidplatten

Application Anwendung	Finishing Schichten	Semi-Finishing Mittlere Bearbeitung	PCBN · PCD PCBN · PKD	
insert shape Schneidplattenform	DF  A74	PM  A75	Flat  A122	
	EF  A74	DM  A75		
	SF  A74	EM  A75		
	NF  A74	NM  A75		
Type · Typ	MVVNN** K / M / P16	VN**1604**	VN**1604**	VN**1604**

Turning · Drehen

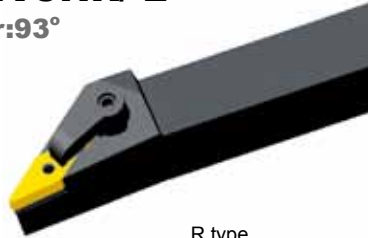
External turning tools · Drehwerkzeugen zur Außenbearbeitung

VN** Toolholder · Halter

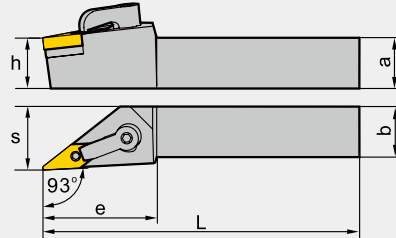
M-Clamping · M-Halter

MVJNR/ L

Kr:93°



R type
Rechtsausführung



Type · Typ		Stock Lager		Dimension (mm) Abmessung						Clamping screw Schraube	Shim Unterlage	Wrench Schlüssel	Clamp Pratze	Clamping stud Passstift
		R	L	a	b	L	h	s	e					
MVJNR/ L	2020K16	●	●	20	20	125	20	25	45	DM6×25	V16BM	WH20L WH30L	C3RD	TM5×13
	2525M16	●	●	25	25	150	25	32	45					
	3225P16	○	○	32	25	170	32	32	45	DM6×30				
	3232P16	○	●	32	32	170	32	40	45					

Applicable insert
Wendeschneidplatten

Application Anwendung	Finishing Schlichten	Semi-Finishing Mittlere Bearbeitung	PCBN · PCD PCBN · PKD
insert shape Schneidplattenform	DF A74	PM A75	Flat A122
	EF A74	DM A75	
	SF A74	EM A75	
	NF A74	NM A75	
Type · Typ MVJNR / L** K / M / P16	VN**1604**	VN**1604**	VN**1604**

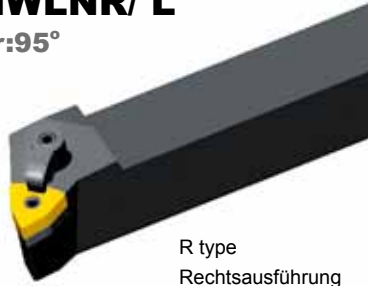
● ex stock · ab Lager ○ on demand · Anfrage

WN** Toolholder · Halter

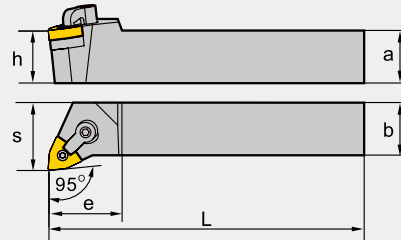
M-Clamping · M-Halter






MWLNLR/ L

Kr:95°














R type
Rechtsausführung



Type · Typ		Stock Lager		Dimension (mm) Abmessung						Clamping screw Schraube	Shim Unterlage	Wrench Schlüssel	Clamp Pratte	Clamping stud Passtift
		R	L	a	b	L	h	s	e					
MWLNLR/ L	2020K06	●	●	20	20	125	20	25	30	DM6×25	W06BM	WH20L WH30L	C1RD	TM5×13
	2525M06	●	●	25	25	150	25	32	30	DM6×30				
	2020K08	●	●	20	20	125	20	25	30	DM6×25				
	2525M08	●	●	25	25	150	25	32	35	DM6×30				
	3525P08	○	○	32	25	170	32	32	35	DM6×30	W08BM	WH30L	C1RD	TM6×17
	3232P08	●	●	32	32	170	32	40	35					

Applicable insert
Wendeschneidplatten

Application Anwendung	Finishing Schlichten	Semi-Finishing Mittlere Bearbeitung	Roughing Schruppen	Cast iron machining Grauguss Bearbeit.
insert shape Schneidplattenform	DF  A76	PM  A78	DR Double -side  A79	Flat  A79
	WG Wiper  A76	DM  A78		
	SF  A77	EM  A78		
	EF  A77	NM  A79		
	NF  A77			
	MWLNLR/ L**K / M06	WN**0604**	WN**0604**	WN**0604**
MWLNLR/ L**K / M / P08	WN**0804**	WN**0804**	WN**0804**	WN**0804**

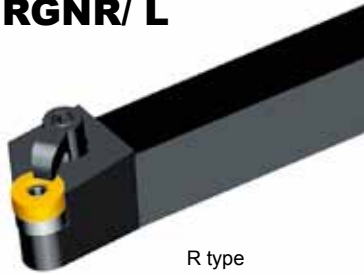
Turning · Drehen

External turning tools · Drehwerkzeuge zur Außenbearbeitung

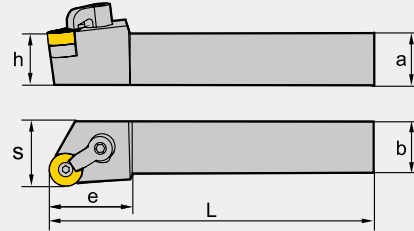
RN** Toolholder · Halter

M-Clamping · M-Halter

MRGNR/ L



R type
Rechtsausführung

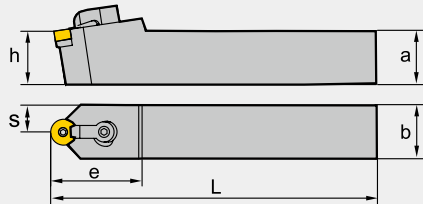


Type · Typ	Stock Lager	Dimension (mm) Abmessung							Application inserts Wendeschneid- platten	Clamping Screw Schraube	Shim Unterlage	Wrench Schlüssel	Clamp Pratze	Clamping stud Passtift	
		R	L	a	b	L	h	s							e
MRGNR/ L															
	2020K12	○	○	20	20	125	20	25	32	RN**1204** A80	DM6×25	R12BM	WH30L	C1RD	TM6×17
	2525M12	○	○	25	25	150	25	32	32		DM6×30				
	3225P12	○	○	32	25	170	32	32	32						
	3232P12	○	○	32	32	170	32	40	32						

RN** Toolholder · Halter

M-Clamping · M-Halter

MRDNN



Type · Typ	Stock Lager	Dimension (mm) Abmessung							Application inserts Wendeschneid- platten	Clamping screw Schraube	Shim Unterlage	Wrench Schlüssel	Clamp Pratze	Clamping stud Passtift	
		a	b	L	h	s	e								
MRDNN															
	2020K12	○	○	20	20	125	20	10	35	RN**1204** A80	DM6×25	R12BM	WH30L	C1RD	TM6×17
	2525M 12	○	○	25	25	150	25	12.5	35		DM6×30				
	3225P12	○	○	32	25	170	32	12.5	35						
	3232P12	○	○	32	32	170	32	16	35						

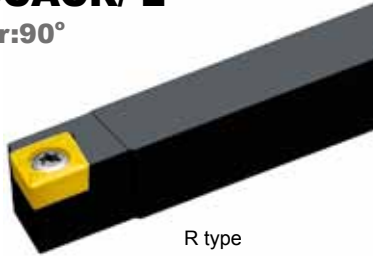
● ex stock · ab Lager ○ on demand · Anfrage

CC** Toolholder · Halter

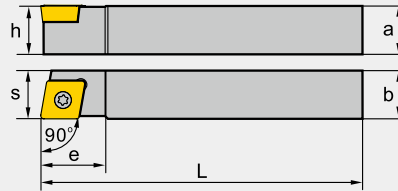
S-Clamping · S-Halter



SCACR/ L

Kr:90°












R type
Rechtsausführung



Type · Typ		Stock Lager		Dimension (mm) Abmessung						Screw Schraube	Wrench Schlüssel		
		R	L	a	b	L	h	s	e				
SCACR/ L	1010E06	●	●	10	10	70	10	10.5	10	I60M2.5×6.5	WT07IP		
	1212F09	●	●	12	12	80	12	12.7	16	I60M3.5×8	WT15IP		

Applicable insert
Wendeschneidplatten

Application Anwendung	Extra Finishing Feinbearbeitung	Finishing Schlichten	Semi-finishing Mittlere Bearbeit.	Roughing Schruppen	Al machining Alu Bearbeitung	Cast iron machining Grauguss Bearbeit.	PCBN/PCD inserts/WSP
insert shape Schneidplattenform	SF  A84	HF  A84	HM  A85	HR  A86	LH  A86	 A86	 A123
		EF  A85	EM  A85				
Type · Typ	SCACR/ L**E06	CC**0602**	CC**0602**	CC**0602**	CC**0602**	CCGX 0602**	CC** 0602**
	SCACR/ L**F09	CC**09T3**	CC**09T3**	CC**09T3**	CC**09T3**	CCGX 09T3**	CC** 09T3**

Turning · Drehen

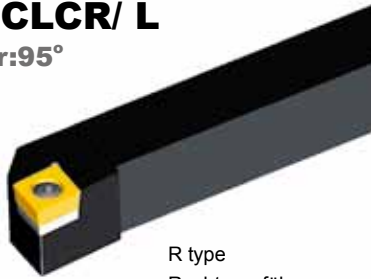
External turning tools · Drehwerkzeugen zur Außenbearbeitung

CC** Toolholder · Halter

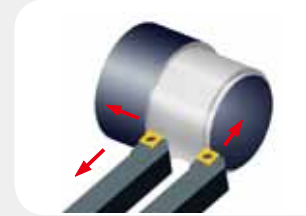
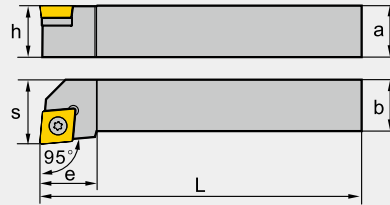
S-Clamping · S-Halter

SCLCR/ L

Kr:95°












R type
Rechtsausführung



Type · Typ		Stock Lager		Dimension (mm) Abmessung						Screw Schraube	Shim Unterlage	Shim Screw, Unterlage Schraube	Wrench Schlüssel
		R	L	a	b	L	h	s	e				
SCLCR/ L	0808D06	●	●	08	08	60	08	10	10	I60M2.5×6.5	—	—	WT07IP
	1010E06	●	●	10	10	70	10	12	10				
	1212F09	●	●	12	12	80	12	16	16				
	1616H09	●	●	16	16	100	16	20	16	I60M3.5×8	—	—	WT15IP
	2020K12	●	●	20	20	125	20	25	25				
	2525M12	●	●	25	25	150	25	32	26	I60M4×11X	C12BS	SM6×10XA	WT15IP WH40L
	3225P12	●	●	32	25	170	32	32	26				

Applicable insert
Wendeschneidplatten

Application Anwendung	Extra Finishing Feinbearbeitung	Finishing Schlichten	Semi-finishing Mittlere Bearbeit.	Roughing Schruppen	Al machining Alu Bearbeitung	Cast iron mach. Gusseis. Bearb.	PCBN · PCD PCBN · PKD
insert shape Schneidplattenform	SF  A84	HF  A84	HM  A85	HR  A86	LH  A86	Flat  A86	Flat  A123
		EF  A85	EM  A85				
Type · Typ	SCLCR/ L**D / E06	CC** 0602**	CC** 0602**	CC** 0602**	CC** 0602**	CCGX 0602**	CC** 0602**
	SCLCR / L*F / H09	CC** 09T3**	CC** 09T3**	CC** 09T3**	CC** 09T3**	CCGX 09T3**	CC** 09T3**
Type · Typ	SCLCR / L**K / M / P12		CC** 1204**	CC** 1204**	CC** 1204**	CCGX 1204**	CC** 1204**

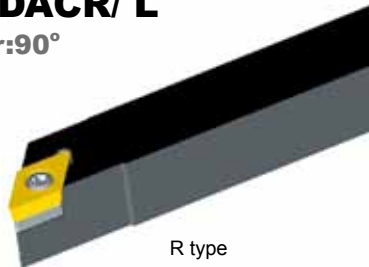
● ex stock · ab Lager ○ on demand · Anfrage

DC** Toolholder · Halter

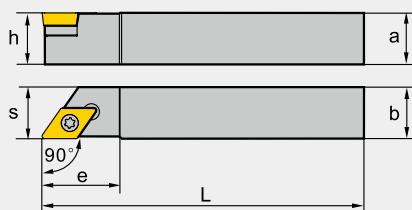
S-Clamping · S-Halter





SDACR/ L

Kr:90°









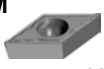


R type
Rechtsausführung



Type · Typ		Stock Lager		Dimension (mm) Abmessung						Screw Schraube	Shim Unterlage	Shim Screw, Unterlage Schraube	Wrench Schlüssel
		R	L	a	b	L	h	s	e				
SDACR/ L	1010E07	●	●	10	10	70	10	10.5	15	I60M2.5×6.5	—	—	WT07IP
	1212F11	●	●	12	12	80	12	12.5	15	I60M3.5×8	—	—	WT15IP
	1616H11	●	●	16	16	100	16	16.7	24	I60M3.5×12	D11BS	SM5×8.65XA	WT15IP WH35L

Applicable insert
Wendeschneidplatten

Application Anwendung	Extra Finishing Feinbearbeitung	Finishing Schichten	Semi-finishing Mittlere Bearbeit.	Roughing Schrappen	Al machining Alu Bearbeitung	Cast iron mach. Gusseis. Bearb.	PCBN · PCD PCBN · PKD
insert shape Schneidplattenform	SF  A88	HF  A88	HM  A89	HR  A90	LH  A90	Flat  A90	Flat  A124
		EF  A89	EM  A89				
Type · Typ	SDACR / L**E07	DC** 0702**	DC** 0702**	DC** 0702**	DCGX 0702**	DC**0702**	DC**0702**
	SDACR / L**F / H11	DC** 11T3**	DC** 11T3**	DC** 11T3**	DCGX 11T3**	DC** 11T3**	DC** 11T3**

Turning · Drehen

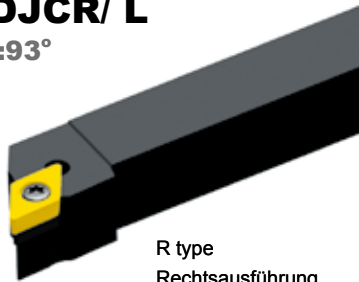
External turning tools · Drehwerkzeuge zur Außenbearbeitung

DC** Toolholder · Halter

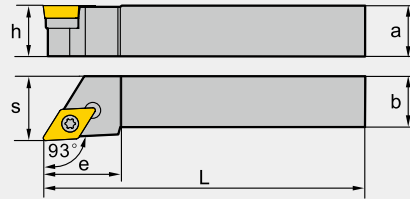
S-Clamping · S-Halter

SDJCR/ L

Kr:93°







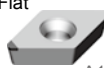

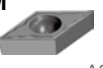


R type
Rechtsausführung



Type · Typ		Stock Lager		Dimension (mm) Abmessung						Screw Schraube	Shim Unterlage	Shim Screw, Unterlage Schraube	Wrench Schlüssel
		R	L	a	b	L	h	s	e				
SDJCR/ L	1010E07	●	●	10	10	70	10	12	15	I60M2.5×6.5	—	—	WT071P
	1212F07	●	●	12	12	80	12	16	15				
	1616H07	●	●	16	16	100	16	20	18				
	1616H11	●	●	16	16	100	16	20	24	I60M3.5×12	D11BS	SM5×8.65XA	WT151P WH35L
	2020K11	●	●	20	20	125	20	25	24				
	2525M11	●	●	25	25	150	25	32	29				
	3225P11	●	●	32	25	170	32	32	29				

Applicable insert
Wendeschneidplatten

Application Anwendung	Extra Finishing Feinbearbeitung	Finishing Schichten	Semi-finishing Mittlere Bearbeit.	Roughing Schruppen	Al machining Alu Bearbeitung	Cast iron mach. Gusseis. Bearb.	PCBN · PCD PCBN · PKD
insert shape Schneidplattenform	SF  A88	HF  A88	HM  A89	HR  A90	LH  A90	Flat  A90	Flat  A124
		EF  A89	EM  A89				
Type · Typ	SDJCR / L**E / F / H07	DC**0702**	DC** 0702**	DC**0702**	DCGX 0702**	DC** 0702**	DC** 0702**
	SDJCR / L**H / K / M / P11	DC** 11T3**	DC** 11T3**	DC**11T3**	DC**11T3**	DCGX 11T3**	DC** 11T3**

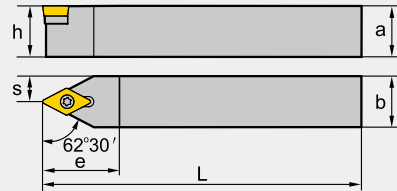
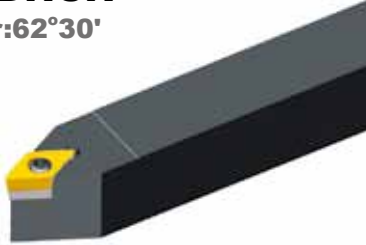
● ex stock · ab Lager ○ on demand · Anfrage

DC** Toolholder · Halter

S-Clamping · S-Halter









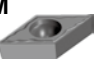
SDNCN

Kr:62°30'



Type · Typ		Stock Lager	Dimension (mm) Abmessung						Screw Schraube	Shim Unterlage	Shim Screw, Unterlage Schraube	Wrench Schlüssel
			a	b	L	h	s	e				
SDNCN	1010E07	●	10	10	70	10	5	20	I60M2.5×6.5	—	—	WT07IP
	1212F07	●	12	12	80	12	6	20				
	1212H11	●	12	12	100	12	6	30				
	1616H11	●	16	16	100	16	8	30	I60M3.5×12	D11BS	SM5×8.65XA	WT15IP WH35L
	2020K11	●	20	20	125	20	10	30				
	2525M11	●	25	25	150	25	12.5	30				

Applicable insert
Wendeschneidplatten

Application Anwendung	Extra Finishing Feinbearbeitung	Finishing Schlichten	Semi-finishing Mittlere Bearbeit.	Roughing Schruppen	Al machining Alu Bearbeitung	Cast iron mach. Gusseis. Bearb.	PCBN · PCD PCBN · PKD	
insert shape Schneidplattenform	SF  A88	HF  A88	HM  A89	HR  A90	LH  A90	Flat  A90	Flat  A124	
		EF  A89	EM  A89					
Type · Typ	SDNCN**E / F07	DC**0702**	DC** 0702**	DC**0702**		DCGX 0702**	DC** 0702**	DC** 0702**
	SDNCN**H / K / M11	DC** 11T3**	DC** 11T3**	DC**11T3**	DC**11T3**	DCGX 11T3**	DC** 11T3**	DC** 11T3**

Turning · Drehen

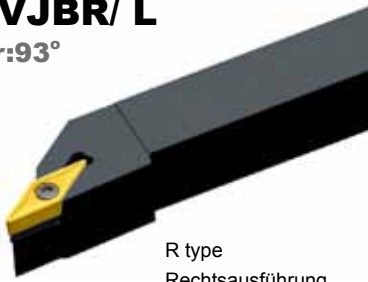
External turning tools · Drehwerkzeuge zur Außenbearbeitung

VB** Toolholder · Halter

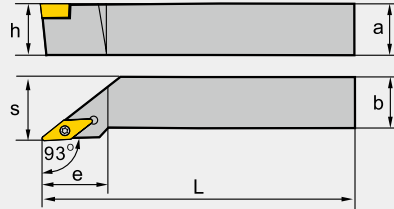
S-Clamping · S-Halter





SVJBR/ L

Kr:93°








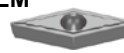



R type
Rechtsausführung



Type · Typ		Stock Lager		Dimension (mm) Abmessung						Screw Schraube	Shim Unterlage	Shim Screw, Unterlage Schraube	Wrench Schlüssel
		R	L	a	b	L	h	s	e				
SVJBR/ L	1212F11	●	●	12	12	80	12	16	27	I60M2.5×6.5	—	—	WT07IP
	1616H11	●	●	16	16	100	16	20	27				
	2020K11	●	●	20	20	125	20	25	27				
	2525M11	●	●	25	25	150	25	32	27				
	1616H16	●	●	16	16	100	16	20	36	I60M3.5×12	V16BS	SM5×8.65XA	WT15IP WH35L
	2020K16	●	●	20	20	125	20	25	41				
	2525M16	●	●	25	25	150	25	32	41				
	3225P16	●	●	32	25	170	32	32	41				

Applicable insert
Wendeschneidplatten

Application Anwendung	Extra Finishing Feinbearbeitung	Finishing Schichten	Semi-finishing Mittlere Bearbeit.	Roughing Schruppen	Cast iron mach. Gusseis. Bearb.	PCBN · PCD PCBN · PKD
insert shape Schneidplattenform	SF  A108	EF  A108	HM  A109	HR  A109	Flat  A109	Flat  A126
		HF  A108	EM  A109			
		NF  A108				
Type · Typ	SVJBR/ L**F/ H/ K/ M11		VB**1102**		VB**1102**	
Type · Typ	SVJBR/ L**H/ K/ M/ P16		VB**1604**		VB**1604**	

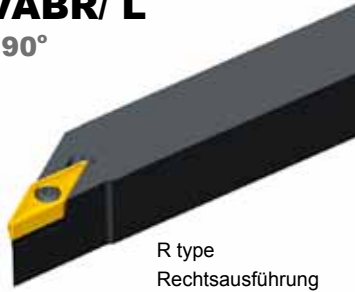
● ex stock · ab Lager ○ on demand · Anfrage

VB** Toolholder · Halter

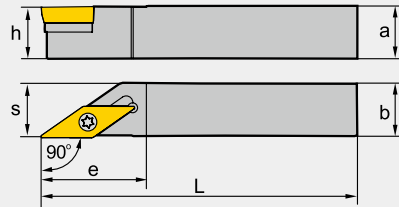
S-Clamping · S-Halter





SVABR/ L

Kr:90°







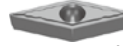



R type
Rechtsausführung



Type · Typ		Stock Lager		Dimension (mm) Abmessung						Screw Schraube	Shim Unterlage	Shim Screw, Unterlage Schraube	Wrench Schlüssel
		R	L	a	b	L	h	s	e				
SVABR/ L	1010F11			10	10	80	10			I60M2.5×6.5	—	—	WT07IP
	1616H16	●	●	16	16	100	16	16.5	28	I60M3.5×12	V16BS	SM5×8.65XA	WT15IP WH35L
	2020K16	●	●	20	20	125	20	20.5	28				
	2525M16	●	●	25	25	150	25	25.5	28				

Applicable insert
Wendeschneidplatten

Application Anwendung	Extra Finishing Feinbearbeitung	Finishing Schichten	Semi-finishing Mittlere Bearbeit.	Roughing Schruppen	Cast iron mach. Gusseis. Bearb.	PCBN · PCD PCBN · PKD
insert shape Schneidplattenform	SF  A108	EF  A108	HM  A109	HR  A109	Flat  A109	Flat  A126
		HF  A108	EM  A109			
		NF  A108				
Type · Typ	SVABR / L**F11	VB**1102**	VB**1102**	VB**1102**		
	SVABR / L**H / K / M16		VB**1604**	VB**1604**	VB**1604**	VB**1604**

Turning · Drehen

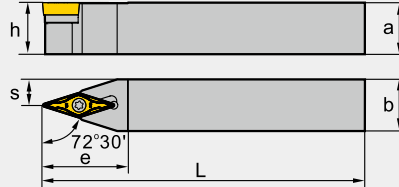
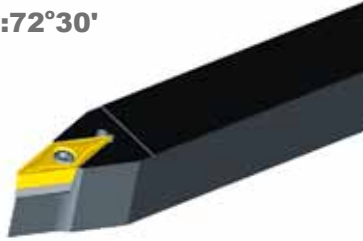
External turning tools · Drehwerkzeuge zur Außenbearbeitung

VB** Toolholder · Halter

S-Clamping · S-Halter










SVVBN

Kr:72°30'



Type · Typ		Stock Lager	Dimension (mm) Abmessung					Screw Schraube	Shim Unterlage	Shim Screw, Unterlage Schraube	Wrench Schlüssel	
			a	b	L	h	s					e
SVVBN	1212F11	●	12	12	80	12	6	27	I60M2.5×6.5	—	—	WT07IP
	1616H11	●	16	16	100	16	8	27				
	2020K11	●	20	20	125	20	10	30				
	1616H16	●	16	16	100	16	8	33	I60M3.5×12	V16BS	SM5×8.65XA	WT15IP WH35L
	2020K16	●	20	20	125	20	10	33				
	2525M16	●	25	25	150	25	12.5	38				

Applicable insert
Wendeschneidplatten

Application Anwendung	Extra Finishing Feinbearbeitung	Finishing Schlichten	Semi-finishing Mittlere Bearbeit.	Roughing Schruppen	Cast iron mach. Gusseis. Bearb.	PCBN · PCD PCBN · PKD
insert shape Schneidplattenform	SF  A108	EF  A108	HM  A109	HR  A109	Flat  A109	Flat  A126
		HF  A108	EM  A109			
		NF  A108				
Type · Typ	SVVBN**F / H / K11	VB**1102**	VB**1102**	VB**1102**		
	SVVBN**H / K / M16		VB**1604**	VB**1604**	VB**1604**	VB**1604**

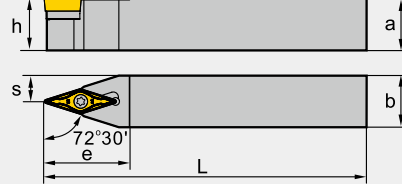
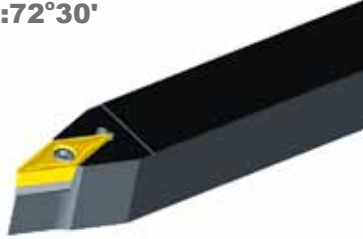
● ex stock · ab Lager ○ on demand · Anfrage

VC** Toolholder · Halter

S-Clamping · S-Halter






SVVCN

Kr:72°30'



Type · Typ		Stock Lager	Dimension (mm) Abmessung					Screw Schraube	Shim Unterlage	Shim Screw, Unterlage Schraube	Wrench Schlüssel	
			a	b	L	h	s					e
SVVCN	1212F11	●	12	12	80	12	6	27	I60M2.5×6.5	—	—	WT071P
	1212M11	●	12	12	150	12	6	27				
	1616H11	●	16	16	100	16	8	27				
	2020K11	●	20	20	125	20	10	30				
	2525M11	●	25	25	150	25	12.5	38				
	1616H16	●	16	16	100	16	8	33	I60M3.5×12	V16BSC	SM5×8.65XA	WT151P WH35L
	2020K16	●	20	20	125	20	10	33				
	2525M16	●	25	25	150	25	12.5	38				

Applicable insert
Wendeschneidplatten

Application Anwendung	Extra Finishing Feinbearbeitung	Finishing Schlichten	Al machining Alu Bearbeitung	PCBN · PCD PCBN · PKD
insert shape Schneidplattenform	SF  A106	HF  A106	LH  A107	Flat  A126
		NF  A106		

Type · Typ	SVVCN**F / H / K / M11	VC**1103**	VC**1103**	VCGX1103**	
	SVVCN**H / K / M16		VC**1604**	VCGX1604**	VC**1604**

Turning · Drehen

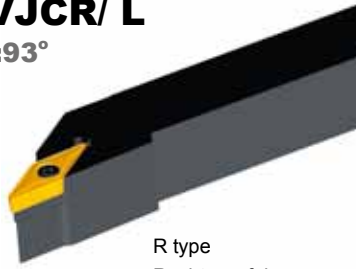
External turning tools · Drehwerkzeuge zur Außenbearbeitung

VC** Toolholder · Halter

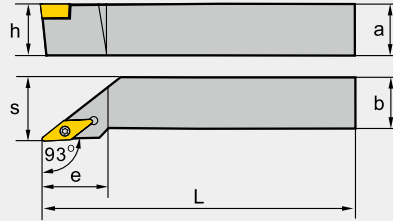
S-Clamping · S-Halter





SVJCR/ L

Kr:93°








R type
Rechtsausführung



Type · Typ		Stock Lager		Dimension (mm) Abmessung						Screw Schraube	Shim Unterlage	Shim Screw, Unterlage Schraube	Wrench Schlüssel
		R	L	a	b	L	h	s	e				
SVJCR/ L	1010E11			10	10	70	10	12	22	I60M2.5×6.5	—	—	WT071P
	1212F11	●	●	12	12	80	12	16	27				
	1616H11	●	●	16	16	100	16	20	27				
	2020K11	●	●	20	20	125	20	25	27				
	2525M11	●	●	25	25	150	25	32	27				
	1616H16	●	●	16	16	100	16	20	36	I60M3.5×12	V16BSC	SM5×8.65XA	WT151P WH35L
	2020K16	●	●	20	20	125	20	25	41				
	2020M16	●	●	20	20	150	20	25	41				
	2525M16	●	●	25	25	150	20	32	41				
	3225P16			32	25	170	32	32	41				

Applicable insert
Wendeschneidplatten

Application Anwendung	Extra Finishing Feinbearbeitung	Finishing Schlichten	Al machining Alu Bearbeitung	PCBN · PCD PCBN · PKD
insert shape Schneidplattenform	SF  A106	HF  A106	LH  A107	Flat  A126
		NF  A106		
Type · Typ	SVJCR/ L**E/ F/ H/ K/ M11	VC**1103**	VC**1103**	VCGX1103**
	SVJCR/ L**H/ K/ M/ P16		VC**1604**	VCGX1604** VC**1604**

● ex stock · ab Lager ○ on demand · Anfrage

SC** Toolholder · Halter

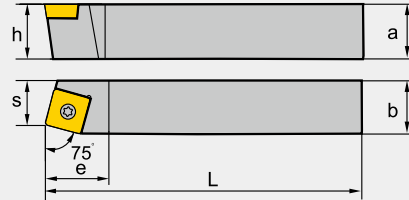
S-Clamping · S-Halter

SSBCR/ L

Kr:75°



R type
Rechtsausführung



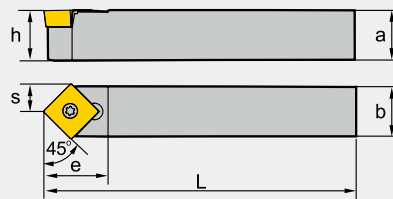
Type · Typ		Stock Lager		Dimension (mm) Abmessung					Screw Schraube	Shim Unterlage	Shim Screw, Unterlage Schraube	Wrench Schlüssel	
		R	L	a	b	L	h	s					e
SSBCR/ L	1212F09	●	●	12	12	80	12	11	16	I60M3.5×8	—	—	WT15IP
	1616H09	●	●	16	16	100	16	13	16	I60M3.5×8	S09BS	SM5×8.65XA	WT15IP WH35L
	2020K12	●	●	20	20	125	20	17	25	I60M4×11X	S12BS	SM6×10XA	WT15IP WH40L

SC** Toolholder · Halter

S-Clamping · S-Halter








SSDCN

Kr:45°



Type · Typ		Stock Lager	Dimension (mm) Abmessung					Screw Schraube	Shim Unterlage	Shim Screw, Unterlage Schraube	Wrench Schlüssel	
			a	b	L	h	s					e
SSDCN	1212F09	●	12	12	80	12	6	15.5	I60M3.5×8	—	—	WT15IP
	1616H09	●	16	16	100	16	8	15.5	I60M3.5×12	S09BS	SM5×8.65XA	WT15IP WH35L

Applicable insert Wendeschneidplatten

Application Anwendung	Extra Finishing Feinbearbeitung	Finishing Schlichten	Semi-finishing Mittlere Bearbeit.	Al machining Alu Bearbeitung	Cast iron machining Gusseisen Bearbeit.
insert shape Schneidplattenform	HF  A94	HM  A94	HR  A95	LH  A95	Flat  A95
	EF  A94	EM  A94			
Type · Typ	SSBCR / L**F / H09	SC**09T3**	SC**09T3**	SC**09T3**	SCGX09T3**
	SSBCR / L**K12		SC**1204**	SC**1204**	SCGX1204**
	SSDCN**F / H09	SC**09T3**	SC**09T3**	SC**09T3**	SCGX09T3**

Turning · Drehen

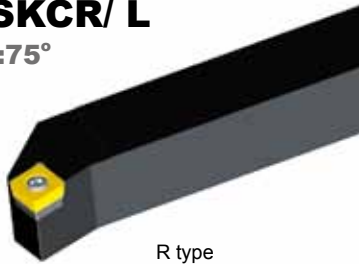
External turning tools · Drehwerkzeuge zur Außenbearbeitung

SC** Toolholder · Halter

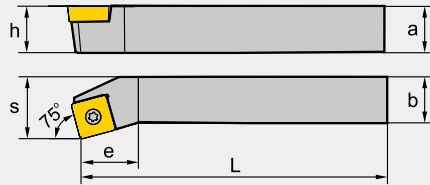
S-Clamping · S-Halter

SSKCR/ L

Kr:75°



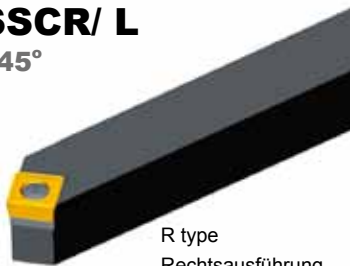
R type
Rechtsausführung



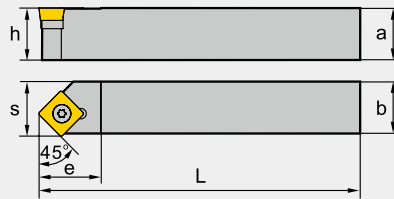
Type · Typ		Stock Lager		Dimension (mm) Abmessung					Screw Schraube	Shim Unterlage	Shim Screw, Unterlage Schraube	Wrench Schlüssel	
		R	L	a	b	L	h	s					e
SSKCR/ L	1616H09	●	●	16	16	100	16	20	13				
										I60M3.5×12	S09BS	SM5×8.65XA	WT15IP WH35L

SSSCR/ L

Kr:45°



R type
Rechtsausführung



Type · Typ		Stock Lager		Dimension (mm) Abmessung					Screw Schraube	Shim Unterlage	Shim Screw, Unterlage Schraube	Wrench Schlüssel	
		R	L	a	b	L	h	s					e
SSSCR/ L	1616H09	●	●	16	16	100	16	17	16		—	—	
	2020K12	●	●	20	20	125	20	21	24	I60M4×11X	S12BS	SM6×10XA	WT15IP WH40L

Applicable insert
Wendeschneidplatten

Application Anwendung	Extra Finishing Feinbearbeitung	Finishing Schlichten	Semi-finishing Mittlere Bearbeit.	Al machining Alu Bearbeitung	Cast iron machining Gusseisen Bearbeit.
insert shape Schneidplattenform	HF A94	HM A94	HR A95	LH A95	Flat A95
	EF A94	EM A94			
Type · Typ	SSKCR / L**H09	SC**09T3**	SC**09T3**	SC**09T3**	SC**09T3**
	SSSCR / L**H09	SC**09T3**	SC**09T3**	SC**09T3**	SC**09T3**
	SSSCR / L**K12		SC**1204**	SC**1204**	SC**1204**

● ex stock · ab Lager ○ on demand · Anfrage

TC** Toolholder · Halter

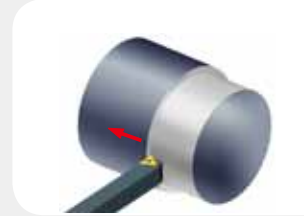
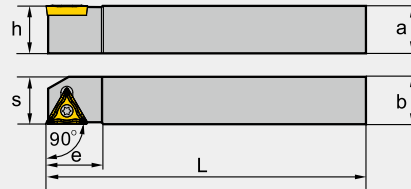
S-Clamping · S-Halter



STACR/ L

Kr:90°



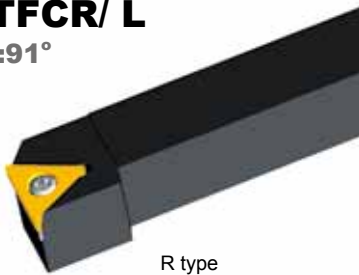
R type
Rechtsausführung



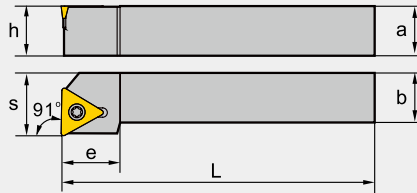
Type · Typ		Stock Lager		Dimension (mm) Abmessung						Screw Schraube	Wrench Schlüssel		
		R	L	a	b	L	h	s	e				
STACR/ L	1212F11	●	●	12	12	80	12	12.5	14	I60M2.5×6.5	WT07IP		





STFCR/ L

Kr:91°












R type
Rechtsausführung



Type · Typ		Stock Lager		Dimension (mm) Abmessung						Screw Schraube	Shim Unterlage	Shim Screw, Unterlage Schraube	Wrench Schlüssel
		R	L	a	b	L	h	s	e				
STFCR/ L	1212F11	●	●	12	12	80	12	16	14	I60M2.5×6.5	—	—	WT07IP
	1616H11	●	●	16	16	100	16	20	14				
	1616H16	●	●	16	16	100	16	20	19	I60M3.5×12	T16BS	SM5×8.65XA	WT15IP WH35L
	2020K16	●	●	20	20	125	20	25	19				

Applicable insert
Wendeschneidplatten

Application Anwendung	Extra Finishing Feinbearbeitung	Finishing Schlichten	Semi-finishing Mittlere Bearbeit.	Roughing Schruppen	Al machining Alu Bearbeitung	Cast iron machining	PCBN/PCD inserts/WSP
insert shape Schneidplattenform	SF  A98	HF  A99	HM  A101	HR  A101	LH  A101	Flat  A102	Flat  A125
		EF  A100	EM  A100				
Type · Typ	STACR/ L**F11	TC**1102**	TC**1102**	TC**1102**	TC**1102**	TCGX1102**	TC**1102**
	STFCR/ L**F/ H11	TC**1102**	TC**1102**	TC**1102**	TC**1102**	TCGX1102**	TC**1102**
	STFCR/ L**H/ K16		TC**16T3**	TC**16T3**	TC**16T3**	TCGX16T3**	TC**16T3**

Turning · Drehen

External turning tools · Drehwerkzeugen zur Außenbearbeitung

TC** Toolholder · Halter

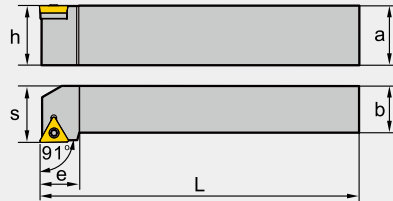
S-Clamping · S-Halter

STGCR/ L

Kr:91°



R type
Rechtsausführung



Type · Typ		Stock Lager		Dimension (mm) Abmessung						Screw Schraube	Shim Unterlage	Shim Screw, Unterlage Schraube	Wrench Schlüssel
		R	L	a	b	L	h	s	e				
STGCR/ L	0808D09	●	●	08	08	60	8	10	11	I60M2.2×5.5	—	—	WT06IP
	1010E09	●	●	10	10	70	10	12	11				
	1212F11	●	●	12	12	80	12	16	14				
	1616H11	●	●	16	16	100	16	20	16	I60M2.5×6.5	—	—	WT07IP
	2020K16	●	●	20	20	125	20	25	21				
	2525M16	●	●	25	25	150	25	32	21	I60M3.5×12	T16BS	SM5×8.65XA	WT15IP WH35L

Applicable insert
Wendeschneidplatten

Application Anwendung	Extra Finishing Feinbearbeitung	Finishing Schlichten	Semi-finishing Mittlere Bearbeit.	Roughing Schruppen	Al machining Alu Bearbeitung	Cast iron machining	PCBN/PCD inserts/WSP	
insert shape Schneidplattenform	SF 	HF 	HM 	HR 	LH 	Flat 	Flat 	
		EF 	EM 					
Type · Typ	STGCR / L**D / E09	TC**0902**	TC**0902**	TC**0902**	TC**0902**	TCGX0902**	TC**0902**	TC**0902**
	STGCR / L**F / H11	TC**1102**	TC**1102**	TC**1102**	TC**1102**	TCGX1102**	TC**1102**	TC**1102**
	STGCR / L**K / M16		TC**16T3**	TC**16T3**	TC**16T3**	TCGX16T3**	TC**16T3**	TC**16T3**

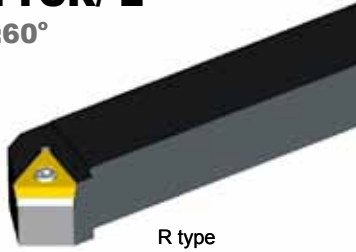
● ex stock · ab Lager ○ on demand · Anfrage

TC** Toolholder · Halter

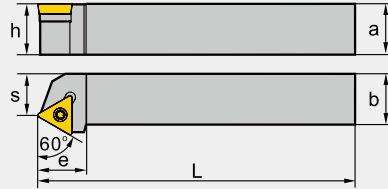
S-Clamping · S-Halter





STTCR/ L

Kr:60°












R type
Rechtsausführung



Type · Typ		Stock Lager		Dimension (mm) Abmessung						Screw Schraube	Shim Unterlage	Shim Screw, Unterlage Schraube	Wrench Schlüssel
		R	L	a	b	L	h	s	e				
STTCR/ L	1616H11	●	●	16	16	100	16	13	14	I60M2.5×6.5	—	—	WT07IP
	1616H16	●	●	16	16	100	16	13	19	I60M3.5×12	T16BS	SM5×8.65XA	WT15IP
	2020K16	●	●	20	20	125	20	17	19				WH35L

Applicable insert
Wendeschneidplatten

Application Anwendung	Extra Finishing Feinbearbeitung	Finishing Schlichten	Semi-finishing Mittlere Bearbeit.	Roughing Schruppen	Al machining Alu Bearbeitung	Cast iron machining	PCBN/PCD inserts/WSP
insert shape Schneidplattenform	SF  A98	HF  A99	HM  A101	HF  A101	LH  A101	Flat  A102	Flat  A125
		EF  A100	EM  A100				
Type · Typ	STTCR/ L**H11	TC**1102**	TC**1102**	TC**1102**	TC**1102**	TCGX1102**	TC**1102**
	STTCR/ L**H/ K16		TC**16T3**	TC**16T3**	TC**16T3**	TCGX16T3**	TC**16T3**

Turning · Drehen

External turning tools · Drehwerkzeugen zur Außenbearbeitung

A

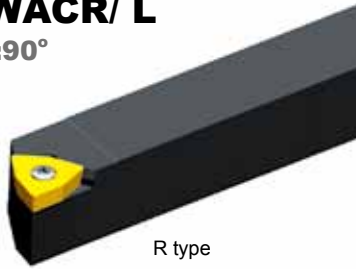
General Turning · Allgemeine Drehbearbeitung

WC** Toolholder · Halter

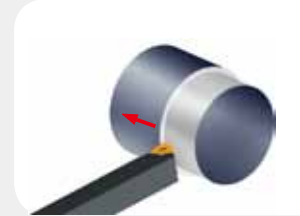
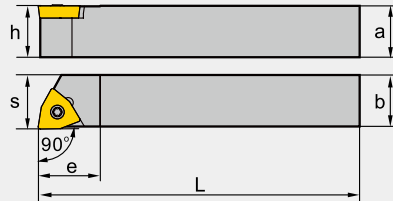
S-Clamping · S-Halter



SWACR/ L

Kr:90°



R type
Rechtsausführung



Type · Typ		Stock Lager		Dimension (mm) Abmessung						Screw Schraube	Wrench Schlüssel		
		R	L	a	b	L	h	s	e				
SWACR/ L	1010E04	●	●	10	10	70	10	10.5	10	I60M2.5×6.5	WT07IP		
	1212F04	●	●	12	12	80	12	12.0	14				
	1616H06	●	●	16	16	100	16	16.5	20	I60M3×7	WT10IP		
	2020K08	●	●	20	20	125	20	20.5	24	I60M3.5×12	WT15IP		

Applicable insert
Wendeschneidplatten

Application
Anwendung

Finishing
Schlichten

insert shape
Schneidplattenform

53



A111

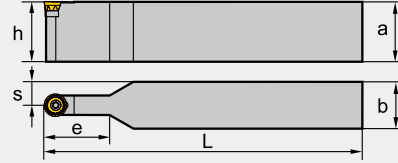
Type · Typ	SWACR / L**E / F04	WC*X0402**
	SWACR / L**H06	WC*X06T3**
	SWACR / L**K08	WC*X0804**

● ex stock · ab Lager ○ on demand · Anfrage

RC** Toolholder · Halter





S-Clamping · S-Halter

SRDCN



Type · Typ		Stock Lager	Dimension (mm) Abmessung							Screw Schraube	Shim Unterlage	Shim Screw, Unterlage Schraube	Wrench Schlüssel
			a	b	L	h	s	e					
SRDCN	1616H08	●	16	16	100	16	8	16	I60M3×7	—	—	WT10IP	
	1616H10		16	16	100	16	8	25	I60M3.5×10	—	—	WT15IP	
	2020K10		20	20	125	20	10	25					
	2525M10	●	25	25	150	25	12.5	25	I60M3.5×12	R12BS	SM5×8.65XA	WT15IP WH35L	
	2020K12	●	20	20	125	20	10	35					
	2525M12	●	25	25	150	25	12.5	35					
	3225P12	●	32	25	170	32	12.5	35	I60M4×15X	R16BS	SM6×10XA	WT15IP WH40L	
	3225P16	●	32	25	170	32	12.5	35					
	3232P16	●	32	32	170	32	16	40					
4040S16	●	40	40	250	40	20	50						

Applicable insert
Wendeschneidplatten

Application Anwendung	Semi-Finishing Mittlere Bearbeitung	Roughing Schruppen	Al machining Alu Bearbeitung	Roughing Schruppen
insert shape Schneidplattenform	 A92	 A92	LH  A92	Basic  A93
Type · Typ	SRDCN**H08	RCMT0803MO	RCMT0803MO	RCGX0803MO-LH
	SRDCN**H / K / M10	RCMT10T3 MO	RCMT10T3 MO	RCMT10T3 MO
	SRDCN**K / M / P12	RCMT1204 MO	RCMT1204 MO	RCMT1204 MO
	SRDCN**P / S16	RCMT1606 MO	RCMT1606 MO	RCMT1606 MO

Turning · Drehen

External turning tools · Drehwerkzeuge zur Außenbearbeitung

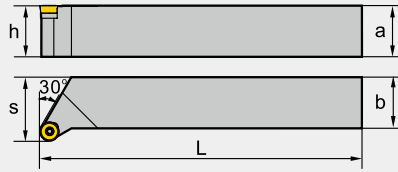
RC** Toolholder · Halter





S-Clamping · S-Halter

SRGCR/ L







R type
Rechtsausführung



Type · Typ		Stock Lager		Dimension (mm) Abmessung					Screw Schraube	Shim Unterlage	Shim Screw, Unterlage Schraube	Wrench Schlüssel
		R	L	a	b	L	h	s				
SRGCR/ L	1616H08			16	16	100	16	20	I60M3×7	—	—	WT10IP
	1616H10			16	16	100	16	20	I60M3.5×10	—	—	WT15IP
	2020K10	●	●	20	20	125	20	25				
	2525M10	●	●	25	25	100	25	32				
	2020K12	●	●	20	20	125	20	27	I60M3.5×12	R12BS	SM5×8.65XA	WT15IP WH35L
2525M12	●	●	25	25	150	25	32					

Applicable insert
Wendeschneidplatten

Application Anwendung	Semi-Finishing Mittlere Bearbeitung	Roughing Schruppen	Al machining Alu Bearbeitung	Roughing Schruppen	
insert shape Schneidplattenform			LH 	Basic 	
	A92	A92	A92	A93	
Type · Typ	SRGCR / L**H08	RCMT0803MO	RCMT0803MO	RCGX0803MO-LH	RCMT0803MO
	SRGCR / L**H / K / M10	RCMT10T3 MO	RCMT10T3 MO		RCMT10T3 MO
	SRGCR / L**K / M12	RCMT1204 MO	RCMT1204 MO		RCMT1204 MO

● ex stock · ab Lager ○ on demand · Anfrage

KNUX** Toolholder · Halter

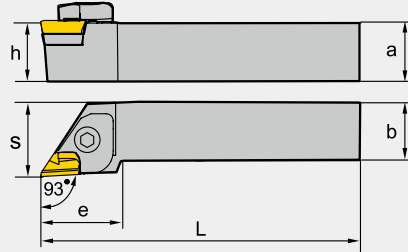
C-Clamping · C-Halter

CKJNR/ L

Kr:93°



R type
Rechtsausführung



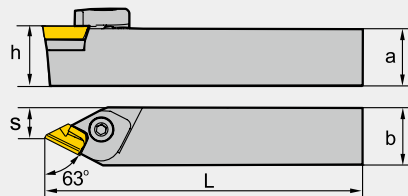
Type · Typ		Stock Lager	Dimension (mm) Abmessung						Application inserts Wendeschneid- platten	Clamp Pratze	Clamp PratzeScrew Schraube	Spring Feder	Clamping stud Passstift	Shim Unterlage	Shim Screw, Unterlage Schraube	Wrench Schlüssel
			a	b	L	h	s	e								
CKJNR	2525M16	●	25	25	150	25	32	32	KNUX1604**R A81	C6R1T	CM6×25A	SPR1 SPR2	P0515	K16CC	SM3×10B	WH20L WH40L
	3232P16	●	32	32	170	32	40	30								
	4040R16	●	40	40	200	40	50	32								
CKJNL	2525M16	●	25	25	150	25	32	32	KNUX1604**L A81	C6L1T	CM6×25A	SPR1 SPR2	P0515	K16CCL	SM3×10B	WH20L WH40L
	3232P16	●	32	32	170	32	40	32								
	4040R16	●	40	40	200	40	50	32								

CKNNR/ L

Kr:63°



R type
Rechtsausführung



Type · Typ		Stock Lager	Dimension (mm) Abmessung						Application inserts Wendeschneid- platten	Clamp Pratze	Clamp PratzeScrew Schraube	Spring Feder	Clamping stud Passstift	Shim Unterlage	Shim Screw, Unterlage Schraube	Wrench Schlüssel
			a	b	L	h	s	e								
CKNNR	2525M16	○	25	25	150	25	14.3	KNUX1604**R A81	C6R1T	CM6×25A	SPR1 SPR2	P0515	K16CC	SM3×10B	WH20L WH40L	
	3232P16	○	32	32	170	32	16.8									
CKNNL	2525M16	○	25	25	150	25	14.3	KNUX1604**L A81	C6L1T	CM6×25A	SPR1 SPR2	P0515	K16CCL	SM3×10B	WH20L WH40L	
	3232P16	○	32	32	170	32	16.8									

Turning · Drehen

External turning tools · Drehwerkzeugen zur Außenbearbeitung

A

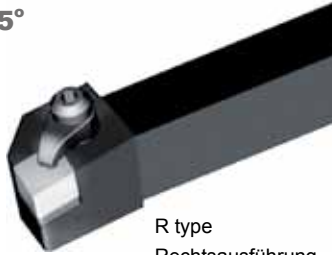
General Turning · Allgemeine Drehbearbeitung

CN** Toolholder · Halter

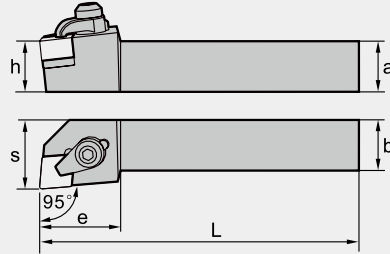
C-Clamping · C-Halter

CCLNR/ L

Kr:95°



R type
Rechtsausführung



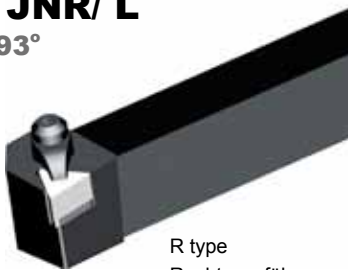
Type · Typ		Stock Lager		Dimension (mm) Abmessung					Application inserts Wendeschneidplatten	Clamp Prätze	Clamp screw Schraube	Wrench Schlüssel	Shim Unterlage	Shim screw Schraube	Spring Feder	
		R	L	a	b	L	h	s								e
CCLNR/ L	2020K12	●	○	20	20	125	20	27	32	CNGN1207** (1204**) A139	C1RC	CM6×30B	WH20L WH40L	C12CC-07 (C12CC-04)	SM3×10B	SPR1
	2525M12	●	●	25	20	100	25	27	36							
	2525M16	○	○	25	25	150	25	32	36	CNGN1606** (1604**) A139	C2RC	CM8×30B	WH30L WH50L	C16CC-06 (16CC-04)	SM4×12B	SPR3
	3225P16	○	○	32	25	170	32	32	36							

TN** Toolholder · Halter

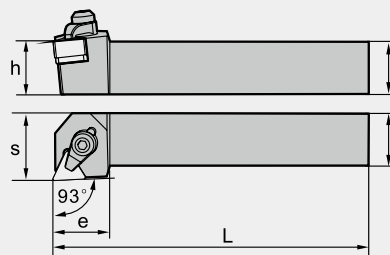
C-Clamping · C-Halter

CTJNR/ L

Kr:93°



R type
Rechtsausführung



Type · Typ		Stock Lager		Dimension (mm) Abmessung					Application inserts Wendeschneidplatten	Clamp Prätze	Clamp screw Schraube	Wrench Schlüssel	Shim Unterlage	Shim screw Schraube	Spring Feder	
		R	L	a	b	L	h	s								e
CTJNR/ L	2020K16	○	○	20	20	125	20	25	30	TNGN1607** (1604**) A145	C1RC	CM6×30B	WH20L WH40L	T16CC-07 (T16CC-04)	SM3×10B	SPR1
	2525M16	○	○	25	25	150	25	32	30							

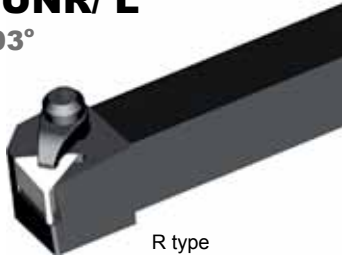
● ex stock · ab Lager ○ on demand · Anfrage

TN** Toolholder · Halter

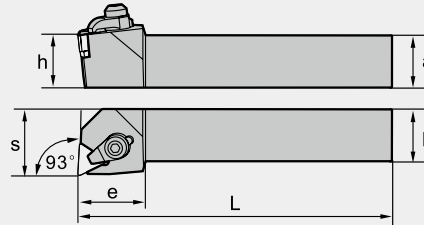
C-Clamping · C-Halter

CTUNR/ L

Kr:93°



R type
Rechtsausführung



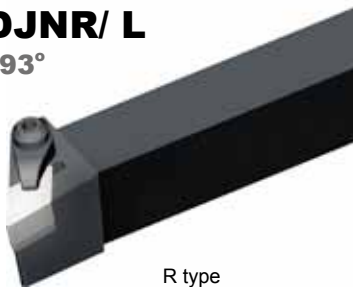
Type · Typ		Stock Lager		Dimension (mm) Abmessung						Application inserts Wendschneidplatten	Clamp Pratze	Clamp screw Schraube	Wrench Schlüssel	Shim Unterlage	Shim screw Schraube	Spring Feder
		R	L	a	b	L	h	s	e							
CTUNR/ L	2020K12			20	20	125	20	25	27	TNGN1607** (1604**) A145	C1RC	CM6×30B	WH20L WH40L	T16CC-07 (T16CC-04)	SM3×10B	SPR1
	2525M16	○	○	25	25	150	25	32	27							

DN** Toolholder · Halter

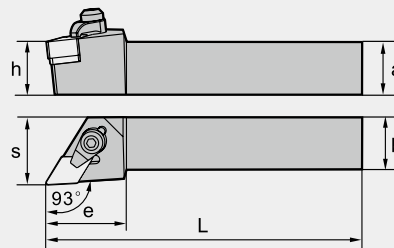
C-Clamping · C-Halter

CDJNR/ L

Kr:93°



R type
Rechtsausführung



Type · Typ		Stock Lager		Dimension (mm) Abmessung						Application inserts Wendschneidplatten	Clamp Pratze	Clamp screw Schraube	Wrench Schlüssel	Shim Unterlage	Shim screw Schraube	Spring Feder
		R	L	a	b	L	h	s	e							
CDJNR/ L	2525M15	●	●	25	25	150	25	32	32	DNGN1507** (1504**) A141	C1RC	CM6×30B	WH20L WH40L	D15CC-07 (D15CC-04)	SM3×10B	SPR1
	3225P15	○	○	32	25	170	32	32	32							

Turning · Drehen

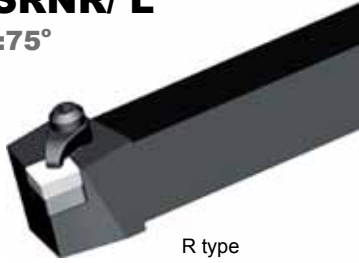
External turning tools · Drehwerkzeuge zur Außenbearbeitung

SN** Toolholder · Halter

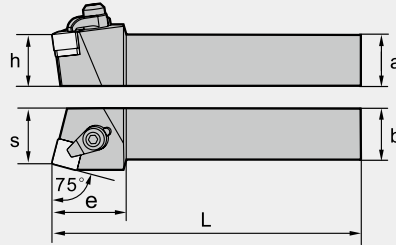
C-Clamping · C-Halter

CSRNR/ L

Kr:75°



R type
Rechtsausführung



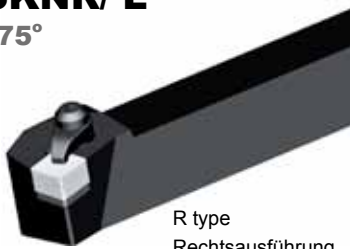
Type · Typ		Stock Lager		Dimension (mm) Abmessung					Application inserts Wendeschneidplatten	Clamp Pratze	Clamp screw Schraube	Wrench Schlüssel	Shim Unterlage	Shim screw Schraube	Spring Feder	
		R	L	a	b	L	h	s								e
CSRNR/ L	2020K12	○	○	20	20	125	20	22	32	SNGN1207** (1204**) A143	C1RC	CM6×30B	WH20L WH40L	S12CC-07 (S12CC-04)	SM3×10B	SPR1
	2525M12	○	○	25	20	100	25	27	32							
	3225P12	○	○	32	25	170	32	27	32	SNGN1507** A143	C2RC	CM8×30B	W030L WH50L	S15CC-07	SM4×12B	SPR3
	3225P15	○	○	32	25	170	32	32	40							
4040R15	○	○	40	40	200	40	43	40								

SN** Toolholder · Halter

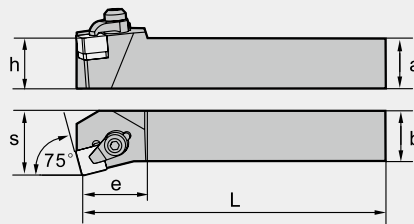
C-Clamping · C-Halter

CSKNR/ L

Kr:75°



R type
Rechtsausführung



Type · Typ		Stock Lager		Dimension (mm) Abmessung					Application inserts Wendeschneidplatten	Clamp Pratze	Clamp screw Schraube	Wrench Schlüssel	Shim Unterlage	Shim screw Schraube	Spring Feder	
		R	L	a	b	L	h	s								e
CSKNR/ L	2020K12	○	○	20	20	125	20	25	25	SNGN1207** (1204**) A143	C1RC	CM6×30B	WH20L WH40L	S12CC-07 (S12CC-04)	SM3×10B	SPR1
	2525M12	○	○	25	25	170	25	32	25							
	3225P12	○	○	32	25	170	32	32	25	SNGN1507** A143	C2RC	CM8×30B	WH30L WH50L	S15CC-07	SM4×12B	SPR3
	3225P15	○	○	32	25	170	32	32	30							

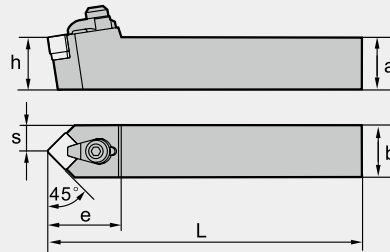
● ex stock · ab Lager ○ on demand · Anfrage

SN** Toolholder · Halter

C-Clamping · C-Halter

CSDNN

Kr:45°

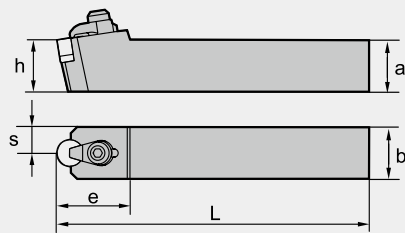


Type · Typ		Stock Lager	Dimension (mm) Abmessung						Application inserts Wendeschneidplatten	Clamp Pratze	Clamp screw Schraube	Wrench Schlüssel	Shim Unterlage	Shim screw Schraube	Spring Feder
			a	b	L	h	s	e							
CSDNN	2020K12	○	20	20	125	20	10	35	SNGN1207** (1204**) A143	C1RC	CM6×30B	WH20L WH40L	S12CC-07 (S12CC-04)	SM3×10B	SPR1
	2525M12	○	25	25	150	25	12.5	30							
	3225P12	○	32	25	170	32	12.5	35							

RN** Toolholder · Halter

C-Clamping · C-Halter

CRDNN



Type · Typ		Stock Lager	Dimension (mm) Abmessung						Application inserts Wendeschneidplatten	Clamp Pratze	Clamp screw Schraube	Wrench Schlüssel	Shim Unterlage	Shim screw Schraube	Spring Feder
			a	b	L	h	s	e							
CRDNN	2020K12	○	20	20	125	20	10	32	RNGN1207** (1204**) A146	C1RC	CM6×30B	WH20L WH40L	R12CC-07 (R12CC-04)	SM3×10B	SPR1
	2525M12	○	25	25	150	25	12.5	32							
	3225P12	○	32	25	170	32	12.5	32							
	3232P15	○	32	32	170	32	17.5	40	RNGN1507** A146	C2RC	CM8×30B	WH20L WH50L	R15CC-07	SM3×10B	SPR3
	4040R15	○	40	40	200	40	20	40							

Turning · Drehen

External turning tools · Drehwerkzeugen zur Außenbearbeitung

A

General Turning · Allgemeine Drehbearbeitung

CN** Toolholder · Halter

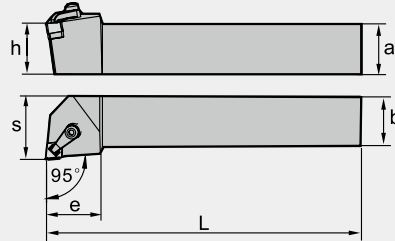
J-Clamping · J-Halter

JCLNR/ L

Kr:95°



R type
Rechtsausführung



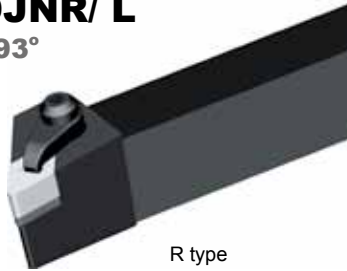
Type · Typ		Stock Lager		Dimension (mm) Abmessung					Application inserts Wendschneidplatten	Clamp Prätze	Clamp screw Schraube	Wrench Schlüssel	Shim Unterlage	Shim screw Schraube	Spring Feder	
		R	L	a	b	L	h	s								e
JCLNR/ L	2020K12	○	○	20	20	125	20	29	32	CNGX1207** A140	C1RJ	CM6×30B	WH20L WH40L	C12CC-07	SM3×10B	SPR1
	2525M12	○	○	25	25	150	25	32	32							

DN** Toolholder · Halter

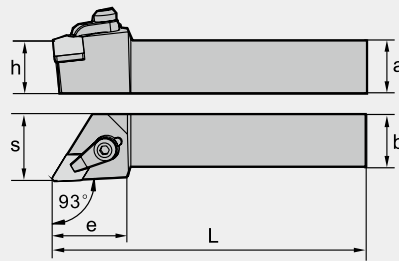
J-Clamping · J-Halter

JDJNR/ L

Kr:93°



R type
Rechtsausführung



Type · Typ		Stock Lager		Dimension (mm) Abmessung					Application inserts Wendschneidplatten	Clamp Prätze	Clamp screw Schraube	Wrench Schlüssel	Shim Unterlage	Shim screw Schraube	Spring Feder	
		R	L	a	b	L	h	s								e
JDJNR/ L	2525M15	○	○	25	25	150	25	32	38	DNGX1507** A141	C1RJ	CM6×30B	WH20L WH40L	D15CC-07	SM3×10B	SPR1
	3225P15	○	○	32	25	170	32	32	38							

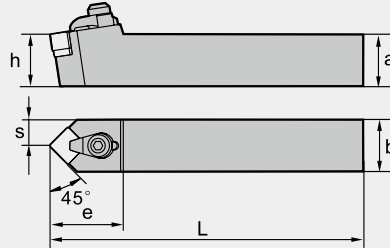
● ex stock · ab Lager ○ on demand · Anfrage

SN** Toolholder · Halter

J-Clamping · J-Halter

JSDNN

Kr:45°



Type · Typ		Stock Lager	Dimension (mm) Abmessung						Application inserts Wendeschneidplatten	Clamp Pratze	Clamp screw Schraube	Wrench Schlüssel	Shim Unterlage	Shim screw Schraube	Spring Feder
			a	b	L	h	s	e							
JSDNN	2020K12	○	20	20	125	20	10	40	SNGX1207** A142	C1RJ	CM6x30B	WH20L WH40L	S12CC-07	SM3x10B	SPR1
	2525M12	○	25	25	150	25	12.5	40							
	3225P12	○	32	25	170	32	12.5	40							

NOTIZEN:

Area with horizontal dotted lines for notes.



Turning · Drehen

Internal Turning Tools · Drehwerkzeuge zur Innenbearbeitung

Turning tool overview · Drehwerkzeuge Übersicht **A213**

Turning tool code key · ISO Kennzeichnung **A214-A215**

**Detailed table of Internal turning tool
Drehwerkzeuge zur Innenbearbeitung** **A216-A253**

Turning toolholders by P type clamping · Drehwerkzeuge / P Klemmung **A216-A227**

Turning toolholders by S type clamping · Drehwerkzeuge / S Klemmung **A228-A240**

Antivibration Tool Holder · Antivibration-Klemmhalter **A241-A248**

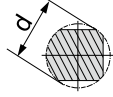









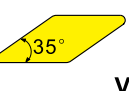




Clamping system Klemmsystem	Feature Merkmale	62°30'	75°	85°	90°	91°	93°	93°	95°	107°30'
P	<ul style="list-style-type: none"> min. Ø to be machined = 20mm min. Bearbeitungs Ø = 20mm neg. inserts with good stability and Economy Neg. WSP mit guter Stabilität & Wirtschaftlichkeit 	PDSN A218	PSKN A221		PTFN A222			PDUN A219	PCLN A216	
									PWLN A223	
S	<ul style="list-style-type: none"> min. Ø to be machined = 8,5mm (Screw Clamping) min. Bearbeitungs Ø = 8,5mm (Schraubenklemm.) Inserts with 5°/7°/11° Pos.-WSP mit 5°/7°/11° 		SSKC A229	SDZC A228	SCFC A239	STFC A230	STUP A238	SDUC A227		SDQC A226
								SDUP A237	SCLC A224	SDQP A236
								SVUC A232	SCLC A240	SVQB A233
								SVUB A234	SCLP A235	SVQC A231
Antivibration	<ul style="list-style-type: none"> Antivibrations toolholder (Cemented Carbide) min. Ø to be machined = 8,5mm Inserts with 5°/7°/11° 						STUP A245	SDUP A244	SCLP A242	SDQP A243
	<ul style="list-style-type: none"> Antivibrations-Klemmhalter (Hartmetall) min. Bearbeitungs Ø = 8,5mm WSP mit 5°/7°/11° 							SVUC A248		SVQC A247

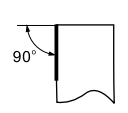
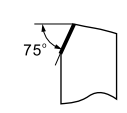
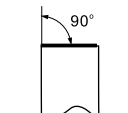
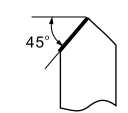
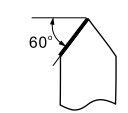
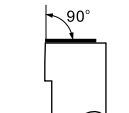
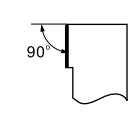
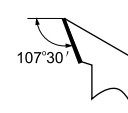
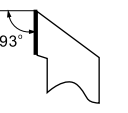
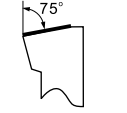
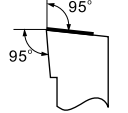
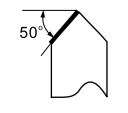
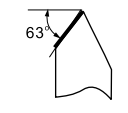
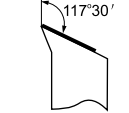
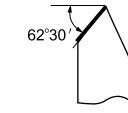
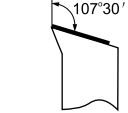
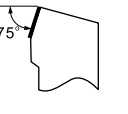
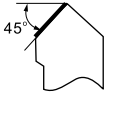
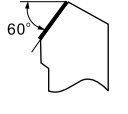
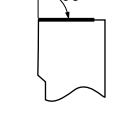
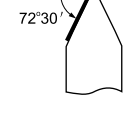
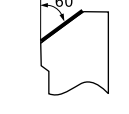

Turning · Drehen

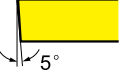



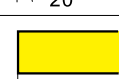
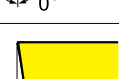
Internal turning tools Code Key · Drehwerkzeugen zur Innenbearbeitung ISO Kennzeichnung

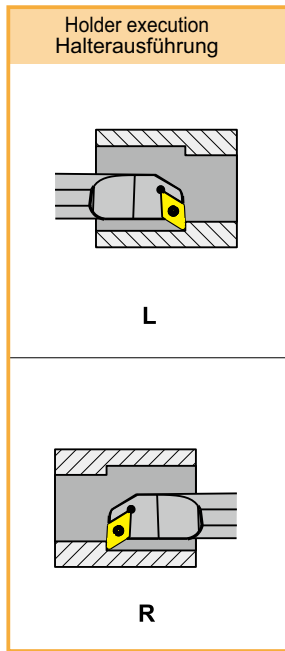
General Turning · Allgemeine Drehbearbeitung

Type of Shank Schaftausführung		Shank diameter Schaftdurchmesser		Tool length Halterlänge		Clamping System Klemmsystem		Insert shape Plattenform	
code	Type/Typ	code	diameter	code	length				
A	Steel shank+Oil hole Stahlschaft mit Kühlbohrung					P			
C	Carbide shank Hartmetallschaft					M	 Screw clamping Schraub Spannsystem		
E	Carbide shank+Oil hole Hartmetallschaft mit Kühlbohrung					S	 Wedge lock clamping Pratzenkeilklemmung		
S	Steel shank Stahlschaft					C	 Overhead clamping Pratzenklemmung		
X	Special insert application Besondere Anwendung								

S 16 R - S D U








Holder style and lead angle Halterform und Anstellwinkel							
A	B	C	D	E	F	G	H
							
							
							

Clearance angle of major cutting edge Freiwinkel von Hauptschneide	
	B
	C
	D
	E
	N
	P



Manufacture option Herstellungsoptionen	
D	Increase offset f size+1.0mm Aufmaß von F +1mm erhöhen
E	Increase offset f size+2.0mm Aufmaß von F +2mm erhöhen
R	Round shank Rundschaft
W	Wedge clamping Keil Klemmung
X	Back boring Rückwärts drehen



Cutting edge length Schneidkantenlänge							
insert shape	C	D	R	S	T	V	W
							
Diameter of incircle (mm)	Cutting edge length Schneidkantenlänge						
5.556	---	---	---	---	09	---	---
6.350	06	07	---	---	11	---	---
9.525	09	11	09	09	16	16	06
12.700	12	15	12	12	22	22	08
15.875	16	19	15	15	27	---	---
19.050	19	---	19	19	33	---	---
25.400	25	---	25	25	44	---	---

Turning · Drehen

Internal turning tools · Drehwerkzeuge zur Innenbearbeitung

CN** Toolholder · Halter

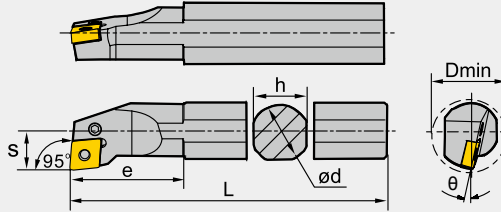
P-Clamping / P-Halter

PCLNR/L

Kr:95°

















R type
Rechtsausführung



Type · Typ	Stock Lager		Dimension (mm) Abmessung							Screw Schraube	Wrench Schlüssel	Lever Kniehebel	Shim Unterlage	Shim pin Rohrstift
	R	L	Dmin	ød	h	L	s	θ	e					
S16M-PCLNR/L09	●	●	20	16	15	150	11	-12°	28	LEM5×9B	WH20L	L3C	—	—
S16R-PCLNR/L09	●	●	20	16	15	200	11	-12°	28					
S20Q-PCLNR/L09	●	●	25	20	18	180	13	-11°	31					
S20S-PCLNR/L09	●	●	25	20	18	250	13	-11°	31					
S25Q-PCLNR/L09	●	●	32	25	23	180	17	-10°	35					
S25T-PCLNR/L09	●	●	32	25	23	300	17	-10°	35	LEM6×13.4A	WH25L	L4A	—	—
S25Q-PCLNR/L12	●	●	32	25	23	180	17	-12°	40					
S25T-PCLNR/L12	●	●	32	25	23	300	17	-12°	40					
S32R-PCLNR/L12	●	●	44	32	30	200	22	-10°	50					
S32U-PCLNR/L12	●	●	44	32	30	350	22	-10°	50					
S40S-PCLNR/L12	●	●	54	40	37	250	27	-10°	55	LEM8×21	WH30L	L4	C12APB	SP4
S40V-PCLNR/L12	●	●	54	40	37	400	27	-10°	55					
S50S-PCLNR/L12	●	●	63	50	47	250	35	-10°	56					
S50W-PCLNR/L12	●	●	63	50	47	450	35	-10°	56					
S50S-PCLNR/L19	●	●	63	50	47	250	35	-10°	63					
S50W-PCLNR/L19	●	●	63	50	47	450	35	-10°	63	LEM10×27	WH40L	L6	C19AP	SP6
◆ A25R-PCLNR/L12	●	●	32	25	24	200	17	-12°	40					
◆ A32S-PCLNR/L12	●	●	44	32	31	250	22	-10°	50					

● ex stock · ab Lager ○ on demand · auf Anfrage ◆ Toolholder with holes for coolant · Klemmhalter mit Kühlmittelbohrung

Applicable insert Wendeschneidplatten		Finishing Schlichten		Semi-Finishing Mittlere Bearbeitung		Roughing Schruppen		Cast iron machining Grauguss Bearbeitung				
Application Anwendung												
insert shape Schneidplattenform	DF		A46	PM		A47	DR Double -side		A49	Flat		A51
	WG Wiper inserts		A46	DM		A48	DR Single- side		A50			
	SF		A46	EM		A48	ER Double -side		A50			
	EF		A46	NM		A49	ER Single- side		A50			
	NF		A47									
Type · Typ	**PCLNR/L09	CN**0903**		CN**0903**						CN**0903**		
	PCLNR/L12	CN1204**		CN**1204**		CN**1204**		CN**1204**		CN**1204**		
	PCLNR/L19					CN1906**		CN**1906**		CN**1906**		

◆ Toolholder with holes for Coolant · Klemmhalter mit Kühlmittelbohrung

● ex stock · ab Lager ○ on demand · auf Anfrage

Turning · Drehen

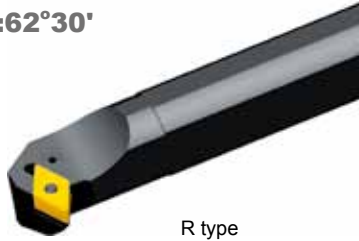
Internal turning tools · Drehwerkzeuge zur Innenbearbeitung

CN** Toolholder · Halter

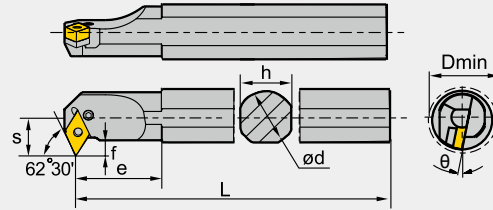
P-Clamping / P-Halter

PDSNR/L

Kr:62°30'








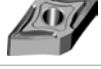







R type
Rechtsausführung



Type · Typ	Stock Lager		Dimension (mm) Abmessung								Screw Schraube	Wrench Schlüssel	Lever Kniehebel	Shim Unterlage	Shim pin Rohrstift
	R	L	Dmin	ød	h	L	S	θ	e	f					
S32R-PDSNR/L15	●	●	40	32	30	200	22	-11°	45	8.5	LEM8×21	WH30L	L4B	D15AP	SP4
S32U-PDSNR/L15	●	●	40	32	30	350	22	-11°	45	8.5					
S32R-PDSNR/L15-3	●	●	40	32	30	200	22	-11°	45	8.5	LEM8×21	WH30L	L4	D15AP	SP4
S32U-PDSNR/L15-3	●	●	40	32	30	350	22	-11°	45	8.5					
S40S-PDSNR/L15	●	●	50	40	37	250	27	-11°	43	9.4	LEM8×21	WH30L	L4B	D15AP	SP4
S40V-PDSNR/L15	●	●	50	40	37	400	27	-11°	43	9.4					
S40S-PDSNR/L15-3	●	●	50	40	37	250	27	-11°	43	9.4	LEM8×21	WH30L	L4	D15AP	SP4
S40V-PDSNR/L15-3	●	●	50	40	37	400	27	-11°	43	9.4					
◆ A32S-PDSNR/L15	●	●	40	32	31	250	22	-11°	45	8.5	LEM8×21	WH30L	L4B	D15AP	SP4
◆ A32S-PDSNR/L15-3	●	●	40	32	31	250	22	-11°	45	8.5	LEM8×21	WH30L	L4	D15AP	SP4

Applicable insert
Wendeschneidplatten

Application Anwendung	Finishing Schlichten	Semi-Finishing Mittlere Bearbeitung	Roughing Schruppen	Cast iron machining Grauguss Bearbeitung
insert shape Schneidplattenform	DF  A53	PM  A55	DR Double-side  A56	Flat  A58
	SF  A53	DM  A55	DR Single-side  A58	
	EF  A54	EM  A56	ER Double-side  A58	
	NF  A54	NM  A56	ER Single-side  A58	
Type · Typ	**PDSNR/L-15-3	DN**1504**	DN**1504**	DN**1504**
	PDSNR/L-15	DN1506**	DN**1506**	DN**1506**

● ex stock · ab Lager ○ on demand · auf Anfrage ◆ Toolholder with holes for coolant · Klemhalter mit Kühlmittelbohrung

DN** Toolholder · Halter

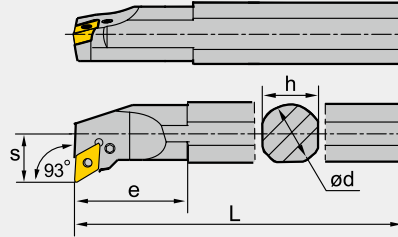
P-Clamping / P-Halter






PDUNR/L

Kr:93°



R type
Rechtsausführung



Type · Typ	Stock Lager		Dimension (mm) Abmessung							Screw Schraube	Wrench Schlüssel	Lever Kniehebel	Shim Unterlage	Shim pin Rohrstift
	R	L	Dmin	ød	h	L	S	θ	e					
S20Q-PDUNR/L11	●	●	25	20	18	180	13	-16°	30	LEM5×12B	WH20L	L3D	—	—
S20S-PDUNR/L11	●	●	25	20	18	250	13	-16°	30					
S25Q-PDUNR/L11	●	●	32	25	23	180	17	-13°	35					
S25T-PDUNR/L11	●	●	32	25	23	300	17	-13°	35	LEM6×17	WH25L	L3	D11AP	SP3
S32R-PDUNR/L11	●	●	40	32	30	200	22	-16°	40					
S32U-PDUNR/L11	●	●	40	32	30	350	22	-16°	40					
S32R-PDUNR/L15	●	●	40	32	30	200	22	-16°	50	LEM8×21	WH30L	L4B	D15AP	SP4
S32U-PDUNR/L15	●	●	40	32	30	350	22	-16°	50					
S32R-PDUNR/L15-3	●	●	40	32	30	200	22	-16°	50					
S32U-PDUNR/L15-3	●	●	40	32	30	350	22	-16°	50	LEM8×21	WH30L	L4	D15AP	SP4
S40S-PDUNR/L15	●	●	50	40	37	250	27	-11°	50					
S40V-PDUNR/L15	●	●	50	40	37	400	27	-11°	50					
S40S-PDUNR/L15-3	●	●	50	40	37	250	27	-11°	50	LEM8×21	WH30L	L4B	D15AP	SP4
S40V-PDUNR/L15	●	●	50	40	37	400	27	-11°	50					
S40V-PDUNR/L15-3	●	●	50	40	37	400	27	-11°	50					
◆ A32S- PDUNR/L15	●	●	40	32	31	250	22	-16°	50	LEM8×21	WH30L	L4B	D15AP	SP4
◆ A32S- PDUNR/L15-3	●	●	40	32	31	250	22	-16°	50	LEM8×21	WH30L	L4	D15AP	SP4

◆ Toolholder with holes for Coolant · Klemmhalter mit Kühlmittelbohrung















● ex stock · ab Lager ○ on demand · auf Anfrage

Turning · Drehen

Internal turning tools · Drehwerkzeuge zur Innenbearbeitung

A

General Turning · Allgemeine Drehbearbeitung

Applicable insert Wendeschneidplatten		Finishing Schlichten		Semi-Finishing Mittlere Bearbeitung		Roughing Schruppen		Cast iron machining Grauguss Bearbeitung				
Application Anwendung												
insert shape Schneidplattenform	DF		A53	PM		A55	DR Double -side		A56	Flat		A58
	WG Wiper inserts		A53	DM		A55	DR Single- side		A58			
	SF		A53	EM		A56	ER Double -side		A58			
	EF		A54	NM		A56	ER Single- side		A58			
	NF		A54									
Type · Typ	**PDUNR/L11	DN**1104**		DN**1104**								
	PDUNR/L15-3	DN1504**		DN**1504**						DN**1504**		
	PDUNR/L15	DN1506**		DN**1506**		DN**1506**		DN**1506**		DN**1506**		

● ex stock · ab Lager ○ on demand · auf Anfrage ◆ Toolholder with holes for coolant · Klemhalter mit Kühlmittelbohrung

SN** Toolholder · Halter

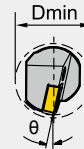
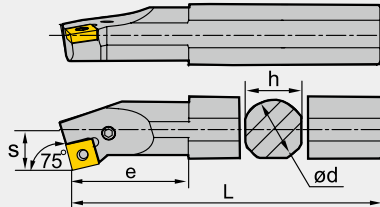
P-Clamping / P-Halter

PSKNR/L

Kr:75°



R type
Rechtsausführung



Type · Typ	Stock Lager		Dimension (mm) Abmessung							Screw Schraube	Wrench Schlüssel	Lever Kniehebel	Shim Unterlage	Shim pin Rohrstift
	R	L	Dmin	ød	h	L	S	θ	e					
S25Q-PSKNR/L12			32	25	23	180	17	-12°	42	LEM6×13.4A	WH25L	L4A	—	—
S25T-PSKNR/L12	●	●	32	25	23	300	17	-12°	42					
S32R-PSKNR/L12	●	●	44	32	30	200	22	-10°	45					
S32U-PSKNR/L12	●	●	44	32	30	350	22	-10°	45	LEM8×21	WH30L	L4	S12APB	SP4
S40S-PSKNR/L12	●	●	54	40	37	250	27	-10°	50					
S40V-PSKNR/L12	●	●	54	40	37	400	27	-10°	50					
◆ A25R-PSKNR/L12	●	●	32	25	24	200	17	-12°	42	LEM6×13.4A	WH25L	L4A	—	—
◆ A32S-PSKNR/L12	●	●	44	32	31	250	22	-12°	50	LEM8×21	WH30L	L4	S12APB	SP4

Applicable insert Wendeschneidplatten		Finishing Schichten		Semi-Finishing Mittlere Bearbeitung		Roughing Schruppen		Heavy Duty Schwerzerspannung		Cast iron machining Grauguss Bearbeit.		
Application Anwendung	insert shape Schneidplattenform	SF		DF		PM		DR		Flat		
			A60		A59		A60		A62		A65	
				EF		DM		DR				
					A59		A61		A62			
					EM		ER					
						A61		A63				
					NM		ER					
						A62		A63				
Type · Typ	**PSKNR/L12	SN**1204**		SN**1204**		SN**1204**		SN**1204**		SN**1204**		

◆ Toolholder with holes for Coolant · Klemmhalter mit Kühlmittelbohrung ● ex stock · ab Lager ○ on demand · auf Anfrage

Turning · Drehen

Internal turning tools · Drehwerkzeuge zur Innenbearbeitung

TN** Toolholder · Halter

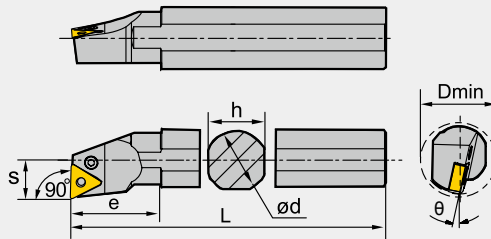
P-Clamping / P-Halter

PTFNR/L

Kr:90°














R type
Rechtausführung



Type · Typ	Stock Lager		Dimension (mm) Abmessung							Screw Schraube	Wrench Schlüssel	Lever Kniehebel	Shim Unterlage	Shim pin Rohrstift
	R	L	Dmin	ød	h	L	S	θ	e					
S16M-PTFNR/L11	●	●	20	16	15	150	11	-14°	28	LEM5×9B	WH20L	L2	—	—
S16R-PTFNR/L11	●	●	20	16	15	200	11	-14°	28					
S20Q-PTFNR/L11			25	20	18	180	13	-12°	31					
S20S-PTFNR/L11	●	●	25	20	18	250	13	-12°	31					
S25Q-PTFNR/L11			32	25	23	180	17	-10°	35					
S25T-PTFNR/L11	●	●	32	25	23	300	17	-10°	35	LEM5×12B	WH20L	L3B	—	—
S25Q-PTFNR/L16			32	25	23	180	17	-12°	42					
S25T-PTFNR/L16	●	●	32	25	23	300	17	-12°	42					
S32R-PTFNR/L16			44	32	30	200	22	-10°	50	LEM6×17	WH25L	L3	T16APB	SP3
S32U-PTFNR/L16	●	●	44	32	30	350	22	-10°	50					
S40S-PTFNR/L16			54	40	37	250	27	-10°	55					
S40V-PTFNR/L16	●	●	54	40	37	400	27	-10°	55					
◆ A25R-PTFNR/L16			32	25	24	200	17	-12°	40					
◆ A32S-PTFNR/L16	●	●	44	32	31	250	22	-10°	50					

Applicable insert
Wendeschneidplatten

Application Anwendung	Finishing Schlichten	Semi-Finishing Mittlere Bearbeitung	Roughing Schruppen	Cast iron machining Grauguss Bearbeitung
insert shape Schneidplattenform	DF  A68	PM  A69	DR Double-side  A70	Flat  A73
	WG Wiper inserts  A68	DM  A69	DR Single-side  A71	
	SF  A68	EM  A70	ER Double-side  A71	
	EF  A68			
Type · Typ	**PTFNR/L11	TN**1103**	TN**1103**	TN**1103**
	PTFNR/L16	TN1604**	TN**1604**	TN**1604**

● ex stock · ab Lager ○ on demand · auf Anfrage ◆ Toolholder with holes for coolant · Klemhalter mit Kühlmittelbohrung

WN** Toolholder · Halter

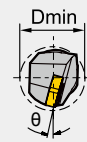
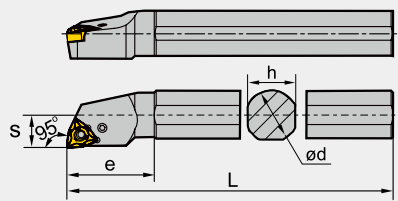
P-Clamping / P-Halter

PWLNR/L

Kr:95°














R type
Rechtsausführung



Type · Typ	Stock Lager		Dimension (mm) Abmessung							Screw Schraube	Wrench Schlüssel	Lever Kniehebel	Shim Unterlage	Shim pin Rohrstift
	R	L	Dmin	ød	h	L	S	θ	e					
S16M-PWLNR/L06	●	●	20	16	15	150	11	-13°	25	LEM5X12B	WH20L	L3B	—	—
S16R-PWLNR/L06			20	16	15	200	11	-13°	25					
S20Q-PWLNR/L06	●	●	25	20	18	180	13	-13°	35					
S20S-PWLNR/L06			25	20	18	250	13	-13°	35	LEM5X12B	WH20L	L3B	—	—
S25Q-PWLNR/L06	●	●	32	25	23	180	17	-13°	35					
S25T-PWLNR/L06			32	25	23	300	17	-13°	35					
S20Q-PWLNR/L08	●	●	25	20	18	180	13	-13°	32	LEM6X13.4A	WH25L	L4A	—	—
S20S-PWLNR/L08			25	20	18	250	13	-13°	32					
S25Q-PWLNR/L08		●	32	25	23	180	17	-13°	45					
S25T-PWLNR/L08			32	25	23	300	17	-13°	45	LEM8X21	WH30L	L4	W08AP	SP4
S32R-PWLNR/L08	●	●	40	32	30	200	22	-15°	50					
S32U-PWLNR/L08	●	●	40	32	30	350	22	-15°	50					
◆ A25T-PWLNR/L08			32	25	23	300	17	-13°	45	LEM6X13.4A	WH25L	L4A	—	—
◆ A32R-PWLNR/L08			40	32	30	200	22	-15°	50	LEM8X21	WH30L	L4	W08AP	SP4

Applicable insert
Wendeschneidplatten

Application Anwendung	Finishing Schichten	Semi-Finishing Mittlere Bearbeitung	Roughing Schruppen	Cast iron machining Grauguss Bearbeitung
insert shape Schneidplattenform	DF  A76	PM  A78	DR  A79	Flat  A79
	WG  A76	DM  A78		
	SF  A77	EM  A78		
	EF  A77	NM  A79		
	NF  A77			

Type · Typ	** -PWLNR/L06	** -PWLNR/L08
	WN**0604**	WN**0804**
	WN**0604**	WN**0804**
	WN**0604**	WN**0804**
	WN**0604**	WN**0804**

◆ Toolholder with holes for Coolant · Klemmhalter mit Kühlmittelbohrung ● ex stock · ab Lager ○ on demand · auf Anfrage

Turning · Drehen

Internal turning tools · Drehwerkzeuge zur Innenbearbeitung

CC** Toolholder · Halter

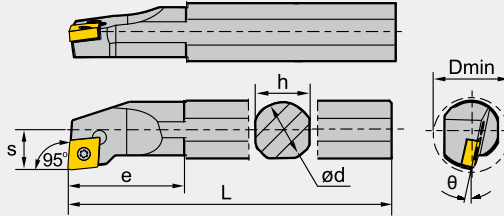
S-Clamping / S-Halter

SCLCR/L

Kr:95°











R type
Rechtsausführung



Type · Typ	Stock Lager		Dimension (mm) Abmessung							Screw Schraube	Wrench Schlüssel	Shim Unterlage	Shim Screw, Unterlage Schraube				
	R	L	Dmin	ød	h	L	S	θ	e								
S08K-SCLCR/L06	●	●	10	8	7	125	5	-15°	14	I60M2.5×5.5	WT07IP	—	—				
S10M-SCLCR/L06	●	●	12	10	9	150	6	-13°	14								
S12M-SCLCR/L06	●	●	16	12	11	150	9	-10°	25								
S12M-SCLCR/L09	●	●	16	12	11	150	9	-10°	25	I60M3.5×8	WT15IP	—	—				
S16M-SCLCR/L09	●	●	20	16	15	150	11	-12°	32.5								
S16R-SCLCR/L09	●	●	20	16	15	200	11	-12°	32.5								
S20Q-SCLCR/L09	●	●	25	20	18	180	13	-8°	38	I60M3.5×10	WT15IP	—	—				
S20S-SCLCR/L09	●	●	25	20	18	250	13	-8°	38								
S25Q-SCLCR/L09	●	●	32	25	23	180	17	-6°	45								
S25T-SCLCR/L09	●	●	32	25	23	300	17	-6°	45	I60M4×11X	WT15IP	—	—				
S25Q-SCLCR/L12	●	●	32	25	23	180	17	-6°	45								
S25T-SCLCR/L12	●	●	32	25	23	300	17	-6°	45								
S32R-SCLCR/L12	●	●	40	32	30	200	22	-10°	50	I60M4×11X	WH40L WT15IP	C12BS	SM6×10XA				
S32U-SCLCR/L12	●	●	40	32	30	350	22	-10°	50								
S40S-SCLCR/L12	●	●	50	40	37	250	27	-8°	60								
S40V-SCLCR/L12	●	●	50	40	37	400	27	-8°	60	I60M2.5×5.5	WT07IP	—	—				
♦ A08F-SCLCR/L06	●	●	10	8	7.5	80	5	-15°	14								
♦ A10H-SCLCR/L06	●	●	12	10	9.5	100	6	-13°	14								
♦ A12K-SCLCR/L06	●	●	16	12	11.5	125	9	-10°	25								
♦ A12K-SCLCR/L09	●	●	16	12	11.5	125	9	-10°	25								
♦ A16M-SCLCR/L09	●	●	20	16	15.5	150	11	-12°	32.5								
♦ A20Q-SCLCR/L09	●	●	25	20	19	180	13	-8°	38								
♦ A25R-SCLCR/L09	●	●	32	25	24	200	17	-6°	45								
♦ A25R-SCLCR/L12	●	●	32	25	24	200	17	-6°	45								
♦ A32S-SCLCR/L12	●	●	40	32	31	250	22	-10°	50								
AH08K-SCLCR/L06	○	○	10	8	7	125	5	13	20					I60M2.5×5.5	WT07IP	—	—
AH10K-SCLCR/L06	○	○	12	10	9	125	6	12	20								
AH12M-SCLCR/L06	○	○	14	12	11	150	7	12	20								
AH16Q-SCLCR/L09	○	○	18	16	14	180	11	8	27	I60M3.5×8	WT15IP	—	—				
AH20R-SCLCR/L09	○	○	23	20	18	200	13	7	27								
AH25R-SCLCR/L12	○	○	28	25	23	200	15.5	7	40								

● ex stock · ab Lager ○ on demand · auf Anfrage ♦ Toolholder with holes for coolant · Klemmhalter mit Kühlmittelbohrung

Applicable insert Wendeschneidplatten		Extra Finishing Feinbearbeitung	Finishing Schlichten	Semi-finishing Mittlere Bearbeit.	Roughing Schruppen	Al machining Alu Bearbeitung	Cast iron machining Grauguss Bearbeit.
insert shape Schneidplattenform	SF  A84	HF  A84	HM  A85	HR  A86	LH  A86	Flat  A86	
		EF  A85	EM  A85				
Type · Typ	**SCLCR/L06	CC**0602**	CC**0602**	CC**0602**	CC**0602**	CCGX0602**	CC**0602**
	SCLCR/L09	CC09T3**	CC**09T3**	CC**09T3**	CC**09T3**	CCGX09T3**	CC**09T3**
	SCLCR/L12	CC1204**	CC**1204**	CC**1204**	CC**1204**	CCGX1204**	CC**1204**

◆ Toolholder with holes for Coolant · Klemmhalter mit Kühlmittelbohrung

● ex stock · ab Lager ○ on demand · auf Anfrage

Turning · Drehen

Internal turning tools · Drehwerkzeuge zur Innenbearbeitung

DC** Toolholder · Halter

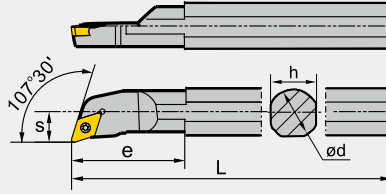
S-Clamping / S-Halter

SDQCR/L

Kr:107°30'











R type
Rechtsausführung



Type · Typ	Stock Lager		Dimension (mm) Abmessung							Screw Schraube	Wrench Schlüssel		
	R	L	Dmin	ød	h	L	S	θ	e				
S10M-SDQCR/L07	●	●	13	10	9	150	7	-8°	20	I60M2.5×5.5	WT07IP		
S12M-SDQCR/L07	●	●	16	12	11	150	9	-8°	22				
S16M-SDQCR/L07	●	●	20	16	15	150	11	-6°	27	I60M2.5×6.5	WT07IP		
S16R-SDQCR/L07	●	●	20	16	15	200	11	-6°	27				
S20Q-SDQCR/L11	●	●	25	20	18	180	13	-6°	32	I60M3.5×8	WT15IP		
S20S-SDQCR/L11	●	●	25	20	18	250	13	-6°	32				
S25Q-SDQCR/L11	●	●	32	25	23	180	17	-6°	32	I60M3.5×10	WT15IP		
S25T-SDQCR/L11	●	●	32	25	23	300	17	-6°	32				
♦ A10H-SDQCR/L07	●	●	13	10	9.5	100	7	-8°	20	I60M2.5×5.5	WT07IP		
♦ A12K-SDQCR/L07	●	●	16	12	11.5	125	9	-8°	22				
♦ A16M-SDQCR/L11	●	●	20	16	15.5	150	11	-6°	27	I60M3.5×8	WT15IP		
♦ A20Q-SDQCR/L11	●	●	25	20	19	180	13	-6°	32				
♦ A25R-SDQCR/L11	●	●	32	25	24	200	17	-6°	32	I60M3.5×10	WT15IP		
AH10K-SDQCR/L07	○	○	13	10	9	125	8	10	20	I60M2.5×6.5	WT07IP		
AH12M-SDQCR/L07	○	○	16	12	11	150	9.5	8	20				
AH16Q-SDQCR/L07	○	○	20	16	14	180	12	6	30	I60M3.5×8	WT15IP		
AH20R-SDQCR/L11	○	○	25	20	18	200	14.5	6	40				
AH25R-SDQCR/L11	○	○	32	25	23	200	17	6	40				

Applicable insert
Wendeschneidplatten

Application Anwendung	Extra Finishing Feinbearbeitung	Finishing Schlichten	Semi-finishing Mittlere Bearbit.	Roughing Schruppen	Al machining Alu Bearbeitung	Cast iron machining Grauguss Bearbit.
insert shape Schneidplattenform	SF  A88	HF  A88	HM  A89	HR  A90	LH  A90	Flat  A90
		EF  A89	EM  A89			
Type · Typ	**SDQCR/L07	DC**0702**	DC**0702**	DC**0702**	DCGX0702**	DC**0702**
	SDQCR/L11	DC11T3**	DC**11T3**	DC**11T3**	DCGX11T3**	DC**11T3**

● ex stock · ab Lager ○ on demand · auf Anfrage ♦ Toolholder with holes for coolant · Klemhalter mit Kühlmittelbohrung

DC** Toolholder · Halter

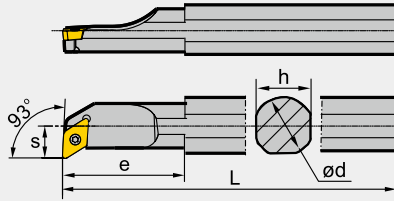
S-Clamping / S-Halter

SDUCR/L

Kr:93°











R type
Rechtsausführung



Type · Typ	Stock Lager		Dimension (mm) Abmessung							Screw Schraube	Wrench Schlüssel		
	R	L	Dmin	ød	h	L	S	θ	e				
S10M-SDUCR/L07	●	●	13	10	9	150	7	-8°	0	I60M2.5×5.5	WT07IP		
S12M-SDUCR/L07	●	●	16	12	11	150	9	-8°	22				
S16M-SDUCR/L07	●	●	20	16	15	150	11	-6°	27	I60M2.5×6.5	WT07IP		
S16R-SDUCR/L07	●	●	20	16	15	200	11	-6°	27				
S20Q-SDUCR/L11	●	●	25	20	18	180	13	-6°	40	I60M3.5×8	WT15IP		
S20S-SDUCR/L11	●	●	25	20	18	250	13	-6°	40				
S25Q-SDUCR/L11	●	●	32	25	23	180	17	-6°	46	I60M3.5×10	WT15IP		
S25T-SDUCR/L11	●	●	32	25	23	300	17	-6°	46				
♦ A10H-SDUCR/L07	●	●	13	10	9.5	100	7	-8°	0	I60M2.5×5.5	WT07IP		
♦ A12K-SDUCR/L07	●	●	16	12	11.5	125	9	-8°	22				
♦ A16M-SDUCR/L07	●	●	20	16	15.5	150	11	-6°	27	I60M2.5×6.5	WT07IP		
♦ A20Q-SDUCR/L11	●	●	25	20	19	180	13	-6°	40				
♦ A25R-SDUCR/L11	●	●	32	25	24	200	17	-6°	46	I60M3.5×10	WT15IP		
AH10K-SDUCR/L07	○	○	14	10	9	125	8.3	-8	20	I60M2.5×6.5	WT07IP		
AH12M-SDUCR/L07	○	○	16	12	11	150	9.3	-8	25				
AH16Q-SDUCR/L07	○	○	20	16	14	180	11.3	-6	25	I60M3.5×8	WT15IP		
AH20R-SDUCR/L11	○	○	26	20	18	200	16.1	-6	30				
AH25R-SDUCR/L11	○	○	32	25	23	200	18.6	5	40				

Applicable insert
Wendeschneidplatten

Application Anwendung	Extra Finishing Feinbearbeitung	Finishing Schlichten	Semi-finishing Mittlere Bearbeit.	Roughing Schruppen	Al machining Alu Bearbeitung	Cast iron machining Grauguss Bearbeit.
insert shape Schneidplattenform	SF  A88	HF  A88	HM  A89	HR  A90	LH  A90	Flat  A90
		EF  A89	EM  A89			
Type · Typ	**SDUCR/L07	DC**0702**	DC**0702**	DC**0702**	DCGX0702**	DC**0702**
	SDUCR/L11	DC11T3**	DC**11T3**	DC**11T3**	DCGX11T3**	DC**11T3**

♦ Toolholder with holes for Coolant · Klemmhalter mit Kühlmittelbohrung

● ex stock · ab Lager ○ on demand · auf Anfrage

Turning · Drehen

Internal turning tools · Drehwerkzeuge zur Innenbearbeitung

DC** Toolholder · Halter

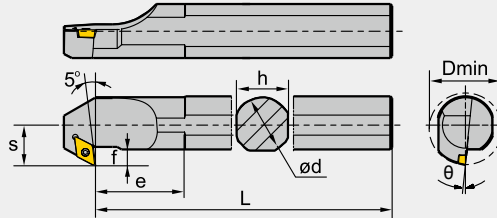
S-Clamping / S-Halter

SDZCR/L

Kr:85°











R type
Rechtsausführung



Type · Typ	Stock Lager		Dimension (mm) Abmessung								Screw Schraube	Wrench Schlüssel	Shim Unterlage	Shim/ Screw Schraube Unterlage
	R	L	Dmin	ød	h	L	S	θ	e	f				
S25Q-SDZCR/L11	●	●	32	25	23	180	17	-6°	30	6.9	I60M3.5×10	WT15IP		
S25T-SDZCR/L11	●	●	32	25	23	300	17	-6°	30	6.9				
S32R-SDZCR/L11	●	●	40	32	30	200	22	-6°	.39	8.4	I60M3.5×12	WT15IP WH35L	D11BS	SM5×8.65XA
S32U-SDZCR/L11	●	●	40	32	30	350	22	-6°	.39	8.4				
S40S-SDZCR/L11	●	●	50	40	37	250	27	-4°	47	9.4				
S40V-SDZCR/L11	●	●	50	40	37	400	27	-4°	47	9.4				
◆ A25R-SDZCR/L11	●	●	32	25	24	200	17	-6°	30	4.5	I60M3.5×10	WT15IP		
◆ A32S-SDZCR/L11	●	●	40	32	31	250	22	-6°	39	6.0	I60M3.5×12	WT15IP WH35L	D11BS	SM5×8.65XA

Applicable insert
Wendeschneidplatten

Application Anwendung	Extra Finishing Feinbearbeitung	Finishing Schlichten	Semi-finishing Mittlere Bearbeit.	Roughing Schruppen	Al machining Alu Bearbeitung	Cast iron machining Grauguss Bearbeit.	
insert shape Schneidplattenform	SF  A88	HF  A88	HM  A89	HR  A90	LH  A90	 A90	
		EF  A89	EM  A89				
Type · Typ	**SDZCR/L11	DC**11T3**	DC**11T3**	DC**11T3**	DC**11T3**	DCG11T3**	DC**11T3**

● ex stock · ab Lager ○ on demand · auf Anfrage ◆ Toolholder with holes for coolant · Klemhalter mit Kühlmittelbohrung

SC** Toolholder · Halter

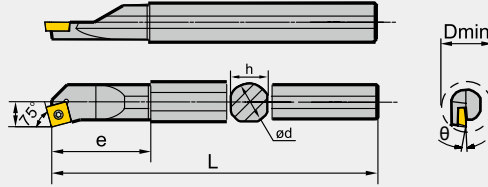
S-Clamping / S-Halter





SSKCR/L






Kr:75°



R type
Rechtausführung



Type · Typ	Stock Lager		Dimension (mm) Abmessung							Screw Schraube	Wrench Schlüssel	Shim Unterlage	Shim/ Screw Schraube Unterlage
	R	L	Dmin	ød	h	L	S	θ	e				
S12M-SSKCR/L09	●	●	16	12	11	150	9	-10	26	I60M3.5×8	WT15IP		
S16M-SSKCR/L09	●	●	20	16	15	150	11	-11	32.5				
S16R-SSKCR/L09	●	●	20	16	15	200	11	-11	32.5				
S20Q-SSKCR/L09	●	●	25	20	18	180	13	-6	34.5				
S20S-SSKCR/L09	●	●	25	20	18	250	13	-6	34.5				
S25Q-SSKCR/L12	●	●	32	25	23	180	17	-8	36.3	I60M4×11X	WT15IP	S12BS	SM6×10XA
S25T-SSKCR/L12	●	●	32	25	23	300	17	-8	36.3				
S32R-SSKCR/L12	●	●	40	32	30	200	22	-10	43.5				
S32U-SSKCR/L12	●	●	40	32	30	350	22	-10	43.5	I60M3.5×8	WT15IP		
♦ A12K-SSKCR/L09	●	●	16	12	11	125	9	-10	26				
♦ A16M-SSKCR/L09	●	●	20	16	15	150	11	-11	32.5				
♦ A20Q-SSKCR/L09	●	●	25	20	19	180	13	-6	34.5				
♦ A25R-SSKCR/L12	●	●	32	25	24	200	17	-8	41.3				
♦ A32S-SSKCR/L12	●	●	40	32	31	250	22	-10	42.8	I60M4×11X	WT15IP WH40L	S12BS	SM6×10XA

Applicable insert Wendeschneidplatten		Finishing Schlichten		Semi-finishing Mittlere Bearbeit.		Roughing Schrappen		Al machining Alu Bearbeitung		Cast iron machining Grauguss Bearbeit.	
Application Anwendung		HF	HM	HR	LH	Flat					
insert shape Schneidplattenform		 A94	 A94	 A95	 A95	 A95					
Type · Typ		**SSKCR/L09	**SSKCR/L12								
		SC**09T3**	SC**09T3**	SC**09T3**	SCGX09T3**	SC**09T3**					
			SC**1204**	SC**1204**	SCGX1204**	SC**1204**					

♦ Toolholder with holes for Coolant · Klemmhalter mit Kühlmittelbohrung ● ex stock · ab Lager ○ on demand · auf Anfrage

Turning · Drehen

Internal turning tools · Drehwerkzeuge zur Innenbearbeitung

TC** Toolholder · Halter

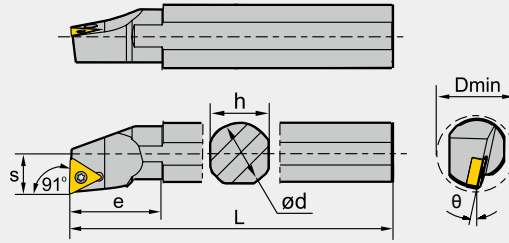
S-Clamping / S-Halter

STFCR/L

Kr:91°/*Kr:90°











R type
Rechtsausführung



Type · Typ	Stock Lager		Dimension (mm) Abmessung							Screw Schraube	Wrench Schlüssel	Shim Unterlage	Shim/ Screw Schraube Unterlage
	R	L	Dmin	ød	h	L	S	θ	e				
S12M-STFCR/L11	●	●	16	12	11	150	9	-10°	30	I60M2.5×6.5	WT07IP		
S16M-STFCR/L11	●	●	20	16	15	150	11	-6°	35				
S16R-STFCR/L11	●	●	20	16	15	200	11	-6°	35				
S20Q-STFCR/L11	●	●	25	20	18	180	13	-3°	36	I60M3.5×10	WT15IP		
S20S-STFCR/L11	●	●	25	20	18	250	13	-3°	36				
S25Q-STFCR/L16	●	●	32	25	23	180	17	-6°	49				
S25T-STFCR/L16	●	●	32	25	23	300	17	-6°	49	I60M3.5×12	WT15IP WH35L	T16BS	SM5×8.65XA
S32R-STFCR/L16	●	●	40	32	30	200	22	-10°	50				
S32U-STFCR/L16	●	●	40	32	30	350	22	-10°	50				
S40S-STFCR/L16	●	●	50	40	37	250	27	-8°	60	I60M2.5×6.5	WT07IP		
S40V-STFCR/L16	●	●	50	40	37	400	27	-8°	60				
♦ A12K-STFCR/L11	●	●	16	12	11.5	125	9	-10°	26				
♦ A16M-STFCR/L11	●	●	20	16	15.5	150	11	-6°	30	I60M3.5×10	WT15IP		
♦ A20Q-STFCR/L11	●	●	25	20	19	180	13	-3°	36				
♦ A25R-STFCR/L16	●	●	32	25	24	200	17	-6°	45				
♦ A32S-STFCR/L16	●	●	40	32	31	250	22	-10°	49	I60M3.5×12	WT15IP	T16BS	SM5×8.65XA
*AH10K-STFCR/L11	○	○	12	10	9	125	7	12	16				
*AH12M-STFCR/L11	○	○	14	12	11	150	9	10	20				
*AH16Q-STFCR/L11	○	○	18	16	14	180	11	8	25	I60M2.5×6.5	WT07IP		
*AH20R-STFCR/L11	○	○	23	20	18	200	13	7	32				
*AH25R-STFCR/L16	○	○	28	25	23	200	17	5	40				

Applicable insert Wendschneidplatten

Application Anwendung	Extra Finishing Feinbearbeitung	Finishing Schlichten	Semi-finishing Mittlere Bearbeit.	Roughing Schruppen	Al machining Alu Bearbeitung	Cast iron machining Grauguss Bearbeit.
insert shape Schneidplattenform	SF  A98	HF  A99	HM  A101	HR  A101	LH  A101	 A102
		EF  A100	EM  A100			
Type · Typ	**STFCR/L11	TC**1102**	TC**1102**	TC**1102**	TC**1102**	TCGX1102**
	STFCR/L16	TC16T3**	TC**16T3**	TC**16T3**	TC**16T3**	TCGX16T3**

● ex stock · ab Lager ○ on demand · auf Anfrage ♦ Toolholder with holes for coolant · Klemhalter mit Kühlmittelbohrung

VC** Toolholder · Halter

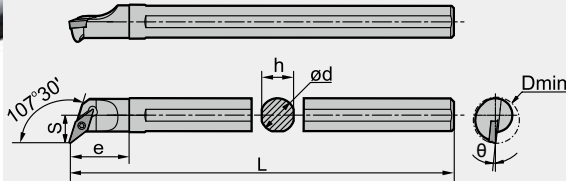
S-Clamping / S-Halter



SVQCR/L

Kr:107°30'






R type
Rechtausführung



Type · Typ	Stock Lager		Dimension (mm) Abmessung							Screw Schraube	Wrench Schlüssel		
	R	L	Dmin	ød	h	L	S	θ	e				
S16Q-SVQCR/L11	●	●	22	16	15	180	13	-6°	28	I60M2.5×6.5	WT07IP		
S20R-SVQCR/L11	●	●	26	20	18	200	15	-4°	32				

Applicable insert
Wendeschneidplatten

Application Anwendung	Extra Finishing Feinbearbeitung	Finishing Schlichten	Al machining Alu Bearbeitung
insert shape Schneidplattenform	SF  A106	HF  A106	LH  A107
Type · Typ	**SVQCR/L11	VC**1103**	VC**1103**
		VCGX1103**	

◆ Toolholder with holes for Coolant · Klemmhalter mit Kühlmittelbohrung

● ex stock · ab Lager ○ on demand · auf Anfrage

Turning · Drehen

Internal turning tools · Drehwerkzeuge zur Innenbearbeitung

VC** Toolholder · Halter

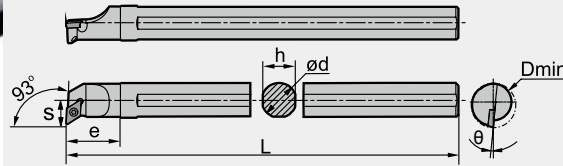
S-Clamping / S-Halter




SVUCR/L

Kr:93°






R type
Rechtsausführung



Type · Typ	Stock Lager		Dimension (mm) Abmessung							Screw Schraube	Wrench Schlüssel		
	R	L	Dmin	ød	h	L	S	θ	e				
S16Q-SVUCR/L11	●	●	24	16	15	180	15	-6°	25	I60M2.5×6.5			
S20R-SVUCR/L11	●	●	28	20	18	200	17	-4°	30				

Applicable insert
Wendeschneidplatten

Application Anwendung	Extra Finishing Feinbearbeitung	Finishing Schlichten	Al machining Alu Bearbeitung
insert shape Schneidplattenform	SF  A106	HF  A106	LH  A107
Type · Typ	**SVUCR/L11	VC**1103**	VC**1103**
			VCGX1103**

● ex stock · ab Lager ○ on demand · auf Anfrage ◆ Toolholder with holes for coolant · Klemmhalter mit Kühlmittelbohrung

VB** Toolholder · Halter

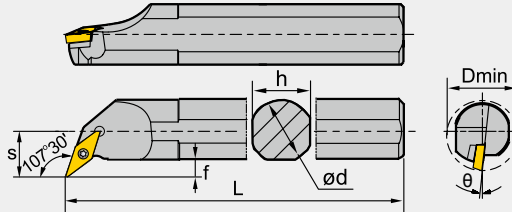
S-Clamping / S-Halter


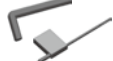


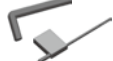
SVQBR/L






Kr:107°30'



R type
Rechtsausführung



Type · Typ	Stock Lager		Dimension (mm) Abmessung								Screw Schraube	Wrench Schlüssel	Shim Unterlage	Shim/ Screw Schraube Unterlage
	R	L	Dmin	ød	h	L	S	θ	e	f				
S32R-SVQBR/L16			40	32	30	200	22	-8°	56	8.4	I60M3.5×12		V16BS	SM5×8.65XA
S32U-SVQBR/L16	●	●	40	32	30	350	22	-8°	56	8.4				
S40S-SVQBR/L16			50	40	37	250	27	-8°	64	9.4				
S40V-SVQBR/L16	●	●	50	40	37	400	27	-8°	64	9.4				
♦ A32S-SVQBR/L16	●	●	40	32	31	250	22	-8°	56	8.4				

Applicable insert Wendeschneidplatten		Finishing Schlichten		Semi-Finishing Mittlere Bearbeitung		Roughing Schruppen		Cast iron machining Grauguss Bearbeitung				
Application Anwendung	EF		A108	HM		A109	HR		A109	Flat		A109
insert shape Schneidplattenform	NF		A108									
Type · Typ	**SVQBR/L16	VB**1604**		VB**1604**		VB**1604**		VB**1604**				

♦ Toolholder with holes for Coolant · Klemhalter mit Kühlmittelbohrung

● ex stock · ab Lager ○ on demand · auf Anfrage

Turning · Drehen

Internal turning tools · Drehwerkzeuge zur Innenbearbeitung

VB** Toolholder · Halter

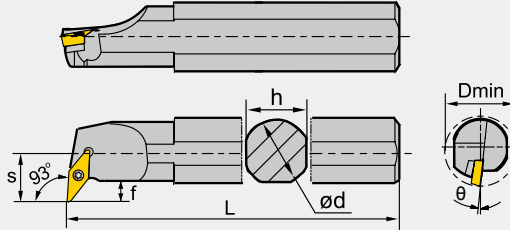
S-Clamping / S-Halter

SVUBR/L

Kr:93°










R type
Rechtsausführung



Type · Typ	Stock Lager		Dimension (mm) Abmessung								Screw Schraube	Wrench Schlüssel	Shim Unterlage	Shim/ Screw Schraube Unterlage
	R	L	Dmin	ød	h	L	S	θ	e	f				
S32R-SVUBR/L16	●	●	40	32	30	200	22	-8°	49	8.4	160M3.5×12	WT15IP WH35L	V16BS	SM5×8.65XA
S32U-SVUBR/L16	●	●	40	32	30	350	22	-8°	49	8.4				
S40S-SVUBR/L16	●	●	50	40	37	250	27	-8°	56.5	9.4				
S40V-SVUBR/L16	●	●	50	40	37	400	27	-8°	56.5	9.4				
◆ A32S-SVUBR/L16	●	●	40	32	31	250	22	-8°	49	8.4				

Applicable insert
Wendeschneidplatten

Application Anwendung	Finishing Schlichten	Semi-Finishing Mittlere Bearbeitung	Roughing Schruppen	Cast iron machining Grauguss Bearbeitung	
insert shape Schneidplattenform	HF  A108	HM  A109	HR  A109	Flat  A109	
	EF  A108	EM  A109			
	NF  A108				
Type · Typ	**SVUBR/L16	VB**1604**	VB**1604**	VB**1604**	VB**1604**

● ex stock · ab Lager ○ on demand · auf Anfrage ◆ Toolholder with holes for coolant · Klemhalter mit Kühlmittelbohrung

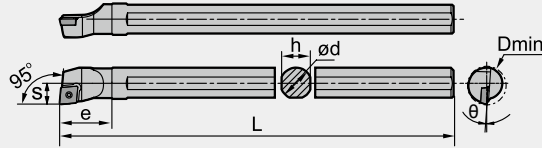
CP** Toolholder · Halter



S-Clamping / S-Halter

SCLPR/L Kr:95°



R type
Rechtausführung



Type · Typ	Stock Lager		Dimension (mm) Abmessung							Screw Schraube	Wrench Schlüssel		
	R	L	Dmin	ød	h	L	S	θ	e				
S10K-SCLPR/L06	●	●	12	10	9	125	6	-7°	17	I60M2.5×5.5	WT071P		
S12M-SCLPR/L06	●	●	16	12	11	150	8	-4°	20				
S16Q-SCLPR/L09	●	●	20	16	15	180	10	-4°	29	I60M3.5×8	WT151P		
S20R-SCLPR/L09	●	●	25	20	18	200	13	-4°	35				

Applicable insert
Wendeschneidplatten

Application
Anwendung

Extra Finishing
Feinbearbeitung

insert shape
Schneidplattenform

SF



A87

Type · Typ		
SCLPR/L06		CP0602**
SCLPR/L09		CP09T3**

◆ Toolholder with holes for Coolant · Klemmhalter mit Kühlmittelbohrung

● ex stock · ab Lager ○ on demand · auf Anfrage

Turning · Drehen

Internal turning tools · Drehwerkzeuge zur Innenbearbeitung

DP** Toolholder · Halter

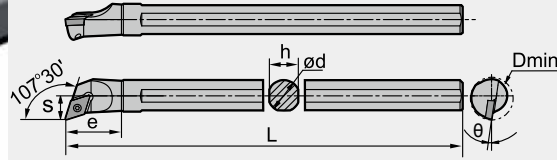
S-Clamping / S-Halter



SDQPR/L

Kr:107°30'



R type
Rechtsausführung



Type · Typ	Stock Lager		Dimension (mm) Abmessung							Screw Schraube	Wrench Schlüssel		
	R	L	Dmin	ød	h	L	S	θ	e				
S10K-SDQPR/L07	●	●	13	10	9	125	7	-8°	20	I60M2.5×5.5			
S12M-SDQPR/L07	●	●	16	12	11	150	9	-8°	22		WT07IP		
S16Q-SDQPR/L07	●	●	20	16	15	180	11	-6°	27	I60M2.5×6.5			
S16Q-SDQPR/L11	●	●	20	16	15	180	11	-6°	32				
S20R-SDQPR/L11	●	●	25	20	18	200	13	-6°	33	I60M3.5×8	WT15IP		

Applicable insert
Wendeschneidplatten

Application
Anwendung

Extra Finishing
Feinbearbeitung

insert shape
Schneidplattenform

SF



A91

Type · Typ	**SDQPR/L07	DP**0702**
	SDQPR/L11	DP11T3**

● ex stock · ab Lager ○ on demand · auf Anfrage ◆ Toolholder with holes for coolant · Klemhalter mit Kühlmittelbohrung

DP** Toolholder · Halter

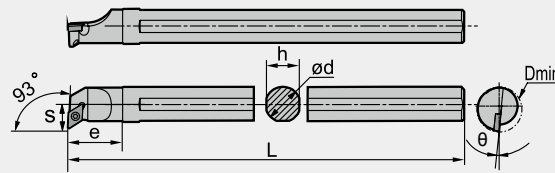
S-Clamping / S-Halter



SDUPR/L

Kr:93°



R type
Rechtausführung



Type · Typ	Stock Lager		Dimension (mm) Abmessung							Screw Schraube	Wrench Schlüssel		
	R	L	Dmin	ød	h	L	S	θ	e				
S10K-SDUPR/L07	●	●	15	10	9	125	9	-8°	18	I60M2.5×5.5	WT071P		
S12M-SDUPR/L07	●	●	16	12	11	150	9	-8°	19				
S16Q-SDUPR/L07	●	●	20	16	15	180	11	-6°	25	I60M2.5×6.5			

Applicable insert
Wendeschneidplatten

Application
Anwendung

insert shape
Schneidplattenform

Extra Finishing
Feinbearbeitung

SF



A91

Type · Typ	**SDUPR/L07	DP**0702**

◆ Toolholder with holes for Coolant · Klemmhalter mit Kühlmittelbohrung

● ex stock · ab Lager ○ on demand · auf Anfrage

Turning · Drehen

Internal turning tools · Drehwerkzeuge zur Innenbearbeitung

TP** Toolholder · Halter

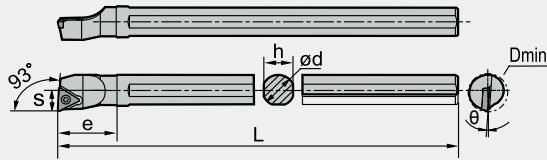
S-Clamping / S-Halter



STUPR/L

Kr:93°



R type
Rechtsausführung



Type · Typ	Stock Lager		Dimension (mm) Abmessung							Screw Schraube	Wrench Schlüssel		
	R	L	Dmin	ød	h	L	S	θ	e				
S10K-STUPR/L09	●	●	12	10	9	125	6	-6°	20	I60M2.5×5.5	WT071P		
S12M-STUPR/L09	●	●	16	12	11	150	8	-4°	22				
S12M-STUPR/L11	●	●	16	12	11	150	8	-4°	25	I60M2.5×6.5	WT071P		
S16Q-STUPR/L11	●	●	20	16	15	180	10	-3°	27				

Applicable insert
Wendeschneidplatten

Application
Anwendung

Extra Finishing
Feinbearbeitung

insert shape
Schneidplattenform

SF



A103

Type · Typ	**STUPR/L09	TP**0902**
	STUPR/L11	TP1103**

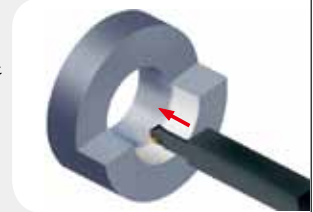
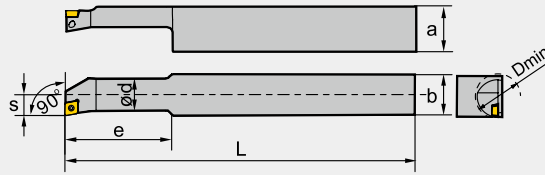
● ex stock · ab Lager ○ on demand · auf Anfrage ◆ Toolholder with holes for coolant · Klemhalter mit Kühlmittelbohrung



CC** Toolholder · Halter

S-Clamping / S-Halter









SCFCR

Kr:90°



Type · Typ	Stock Lager		Dimension (mm) Abmessung							Screw Schraube	Wrench Schlüssel		
	R	L	Dmin	ød	L	s	a	b	e				
S10M-SCFCR/L06S25	●	●	13	10	150	7	27	25	30	I60M2.5×5.5	WT07IP		
S12P-SCFCR/L06S25	●		16	12	170	9	27	25	35	I60M2.5×6.5			
S16Q-SCFCR/L09S25	●	●	20	16	180	11	27	25	40	I60M3.5×8	WT15IP		
S20R-SCFCR/L09S25	●		25	20	200	13	27	25	45				
S25R-SCFCR/L12S25	●		32	25	200	17	27	25	50	I60M5×13	WT20IP		

Applicable insert Wendeschneidplatten

Application Anwendung	Extra Finishing Feinbearbeitung	Finishing Schlichten	Semi-finishing Mittlere Bearbeit.	Roughing Schruppen	Al machining Alu Bearbeitung	Cast iron ma. Grauguss Bear.
insert shape Schneidplattenform	SF  A84	HF  A84	HM  A85	HR  A86	LH  A86	 A86
		EF  A85	EM  A85			
Type · Typ	**SCFCR06	CC**0602**	CC**0602**	CC**0602**	CC**0602**	CCGX0602**
	SCFCR09	CC09T3**	CC**09T3**	CC**09T3**	CC**09T3**	CCGX09T3**
	SCFCR12	CC1204**	CC**1204**	CC**1204**	CC**1204**	CCGX1204**

◆ Toolholder with holes for Coolant · Klemmhalter mit Kühlmittelbohrung

● ex stock · ab Lager ○ on demand · auf Anfrage

Turning · Drehen

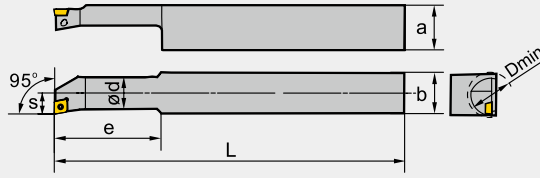
Internal turning tools · Drehwerkzeuge zur Innenbearbeitung

CC** Toolholder · Halter

S-Clamping / S-Halter









SCLCR

Kr:95°



Type · Typ	Stock Lager		Dimension (mm) Abmessung							Screw Schraube	Wrench Schlüssel		
	R	L	Dmin	ød	L	s	a	b	e				
S10M-SCLCR06S20	●		13	10	150	7	22	20	30	I60M2.5×5.5	WT07IP		
S12P-SCLCR06S20	●		16	12	170	9	22	20	35				
S16Q-SCLCR09S20	●		20	16	180	11	22	20	40	I60M3.5×8	WT15IP		
S20R-SCLCR09S20	●		25	20	200	13	22	20	60				

Applicable insert
Wendeschneidplatten

Application Anwendung	Extra Finishing Feinbearbeitung	Finishing Schlichten	Semi-finishing Mittlere Bearbeit.	Roughing Schruppen	Al machining Alu Bearbeitung	Cast iron machining Grauguss Bearbeit.	
insert shape Schneidplattenform	SF  A84	HF  A84	HM  A85	HR  A86	LH  A86	 A86	
		EF  A85	EM  A85				
Type · Typ	**SCLCR06S20	CC**0602**	CC**0602**	CC**0602**	CC**0602**	CCGX0602**	CC**0602**
	SCLCR09S20	CC09T3**	CC**09T3**	CC**09T3**	CC**09T3**	CCGX09T3**	CC**09T3**

● ex stock · ab Lager ○ on demand · auf Anfrage ♦ Toolholder with holes for coolant · Klemhalter mit Kühlmittelbohrung



Anti Vibration Boring Bar

Anti Vibration Bohrstange

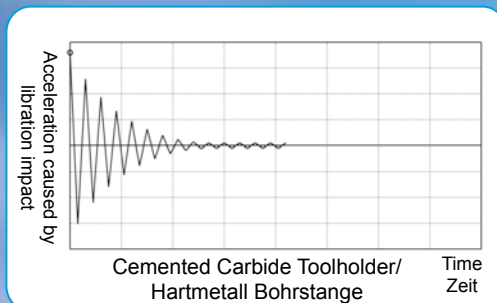
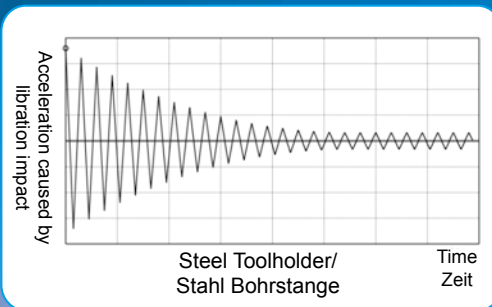
Technical features · Technische Merkmale

By increasing the rigidity of the tool materials the vibration will be reduced. The carbide toolholder performs much better than steel toolholder. The cutting data can be increased and the shank overhang extended. Therefore you achieve better surface and higher workpiece precision.

Durch den Einsatz von Hartmetall als Werkzeugmaterial wird die Stabilität des Werkzeuges verbessert, und Vibrationen werden reduziert.

Die Hartmetall-Bohrstange erlaubt durch die Stabilität höhere Schnittleistungen und eine größere Auskragung. Darüberhinaus wird eine höhere Werkstückpräzision und eine exzellente Oberflächenqualität erzielt.

Vibration amplitude · Schwingungsausschlag



Under same machining conditions:
Bei gleichen Bearbeitungsbedingungen:

The maximum overhang of carbide toolholder is ca. $L \leq 6D$

Die maximale Auskragung beim Einsatz von Hartmetall-Bohrstangen beträgt ca. $L \leq 6D$

The maximum overhang of steel toolholder is suggested to be ca. $L \leq 3D$

Die maximale Auskragung beim Einsatz von Stahl-Bohrstangen beträgt ca. $L \leq 3D$

Turning · Drehen

Internal turning tools · Drehwerkzeuge zur Innenbearbeitung

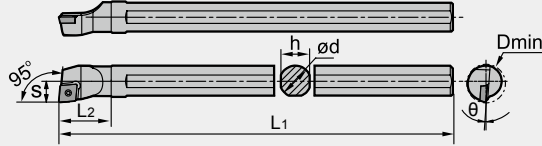
CP** / CC** Toolholder · Halter

S-Clamping / S-Halter

SCLPR/L
SCLCR/L
Kr:95°



R type
Rechtsausführung



Type · Typ	Stock Lager		Dimension (mm) Abmessung							Screw Schraube	Wrench Schlüssel	Shim Unterlage	Shim/ Screw Schraube Unterlage
	R	L	ØD	ød	s	L1	L2	h	θ				
C10M-SCLPR/L06	●	●	12	10	6	150	17	9	7°	I60M2.5×5.5	WT07IP		
C12Q-SCLPR/L06	●		16	12	8	180	20	11	4°				
C16R-SCLPR/L09	●	●	20	16	10	200	29	15	4°				
C20S-SCLPR/L09	●	●	25	20	13	250	35	18	4°	I60M3.5×8	WT15IP		
◆ E16R-SCLPR/L09	○	○	19	16	10	200		15.5	-2°	I60M3.5×10	WT15IP		
◆ E20S-SCLPR/L09	○	○	24	20	13	250		19.5	-2°				
◆ E08K-SCLCR/L06-9	●	○	9	8	5	125		7.5	-12°	I60M2.5×5.5	WT07IP		
◆ E08K-SCLCR/L06-10	●	○	10	8	6	125		7.5	-12°				
◆ E10M-SCLCR/L06	●	○	12	10	7	150		9.5	-10°				
◆ E12Q-SCLCR/L06	●	○	15	12	9	180		11.5	-10°				
◆ E12Q-SCLCR/L09	●	●	15	12	9	180		11.5	-9°	I60M3.5×8	WT15IP		
◆ E16R-SCLCR/L06	●	○	18	16	10	200		15.5	-8°	I60M2.5×5.5	WT07IP		
◆ E16R-SCLCR/L09	●	●	18	16	10	200		15.5	-10°	I60M3.5×10	WT15IP		
◆ E20S-SCLCR/L09	●	●	24	20	13	250		19.5	-8°				
◆ E25T-SCLCR/L09	●	○	31	25	17	300		24	-6°				

Weitere Durchmesser auf Anfrage / more diameter on demand

Applicable insert
Wendeschneidplatten

Application
Anwendung

Extra Finishing
Feinbearbeitung

insert shape
Schneidplattenform

SF



A87

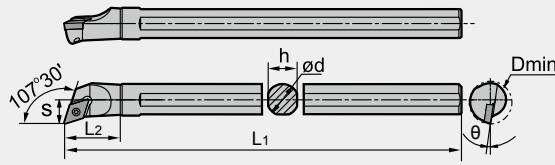
Type · Typ	Application
C*-SCLPR/L06	CP**0602**
C*--SCLPR/L09	CP**09T3**
E*-SCLCR/L06	CC**0602**
E*--SCLCR/L09	CC**09T3**

● ex stock · ab Lager ○ on demand · auf Anfrage ◆ Toolholder with holes for coolant · Klemhalter mit Kühlmittelbohrung

DP** / DC** Toolholder · Halter

S-Clamping / S-Halter

SDQPR/L
SDQCR/L
Kr:107°30'



Type · Typ	Stock Lager		Dimension (mm) Abmessung							Screw Schraube	Wrench Schlüssel				
	R	L	ØD	ød	s	L1	L2	h	θ						
C10M-SDQPR/L07	●	●	13	10	7	150	20	9	8°	I60M2.5×5.5	WT07IP				
C12Q-SDQPR/L07		●	16	12	9	180	22	11	8°						
C16R-SDQPR/L07	●		20	16	11	200	27	15	6°					I60M2.5×6.5	
C16R-SDQPR/L11	●	●	20	16	11	200	32	15	6°	I60M3.5×8	WT15IP				
C20S-SDQPR/L11	●		25	20	13	250	33	18	6°						
◆ E08K-SDQCR/L07	●	○	11	8	6.5	140		7.5	-12°	I60M2.5×5.5	WT07IP				
◆ E10M-SDQCR/L07	●	○	12	10	7	150		9.5	-10°						
◆ E12Q-SDQCR/L07	●	○	15	12	9	180		11.5	-10°						
◆ E16R-SDQCR/L07	●	○	18	16	10	200		15.5	-6°						
◆ E16R-SDQCR/L11	●	○	18	16	10	200		15.5	-8°					I60M3.5×10	WT15IP
◆ E20S-SDQCR/L07	●	○	24	20	13	250		19.5	-4°					I60M2.5×5.5	WT07IP
◆ E20S-SDQCR/L11	●	○	24	20	13	250		19.5	-8°					I60M3.5×10	WT15IP
◆ E25T-SDQCR/L11	○	○	31	25	17	300		24	-6°						

Weitere Durchmesser auf Anfrage / more diameter on demand

Applicable insert
Wendeschneidplatten

Application
Anwendung

Extra Finishing
Feinbearbeitung

insert shape
Schneidplattenform

SF



A93

Type · Typ	Application Anwendung	Extra Finishing Feinbearbeitung
C*-SDQPR/L07		DP**0702**
C*-SDQPR/L11		DP**11T3**
E*-SDQCR/L07		DC**0702**
E*-SDQCR/L11		DC**11T3**

◆ Toolholder with holes for Coolant · Klemmhalter mit Kühlmittelbohrung

● ex stock · ab Lager ○ on demand · auf Anfrage

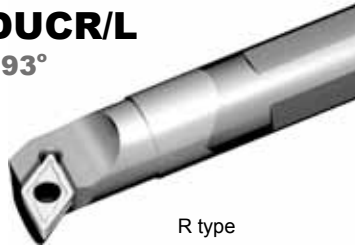
Turning · Drehen

Internal turning tools · Drehwerkzeuge zur Innenbearbeitung

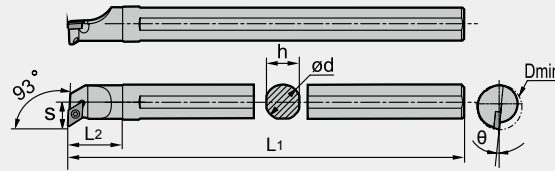
DP** / DC** Toolholder · Halter



S-Clamping / S-Halter

SDUPR/L
SDUCR/L
Kr:93°



R type
Rechtsausführung



Type · Typ	Stock Lager		Dimension (mm) Abmessung							Screw Schraube	Wrench Schlüssel		
	R	L	ØD	ød	s	L1	L2	h	θ				
C10M-SDUPR/L07	●	●	15	10	9	150	18	9	8°	I60M2.5×5.5	WT07IP		
C12Q-SDUPR/L07	●	●	16	12	9	180	19	11	8°	I60M2.5×6.5			
C16R-SDUPR/L07	●	●	20	16	11	200	25	15	6°	I60M2.5×6.5			
◆ E10M-SDUCR/L 07	●	○	12	10	7	150		9.5	-10°	I60M2.5×5.5	WT07IP		
◆ E12Q-SDUCR/L 07	●	○	15	12	9	180		11.5	-10°				
◆ E16R-SDUCR/L 07	●	○	18	16	10	200		15.5	-6°	I60M3.5×10	WT15IP		
◆ E16R-SDUCR/L 11	●	○	18	16	10	200		15.5	-8°				
◆ E20S-SDUCR/L 07	○	○	24	20	13	250		19.5	-4°	I60M2.5×5.5	WT07IP		
◆ E20S-SDUCR/L 11	○	○	24	20	13	250		19.5	-8°	I60M3.5×10	WT15IP		
◆ E25T-SDUCR/L 11	○	○	31	25	17	300		24	-6°				

Weitere Durchmesser auf Anfrage / more diameter on demand

Applicable insert
Wendeschneidplatten

Application
Anwendung

Extra Finishing
Feinbearbeitung

insert shape
Schneidplattenform

SF



A93

Type · Typ	C*-SDUPR/L07	DP**0702**
	E*-SDUCR/L07	DC**0702**
	E*-SDUCR/L11	DC**11T3**

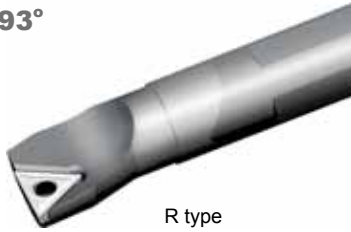
● ex stock · ab Lager ○ on demand · auf Anfrage ◆ Toolholder with holes for coolant · Klemhalter mit Kühlmittelbohrung

TP** Toolholder · Halter

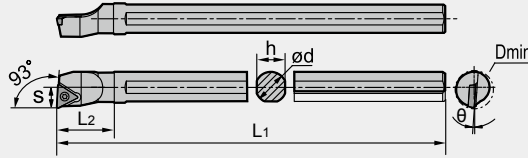
S-Clamping / S-Halter



STUPR/L

Kr:93°



R type
Rechtausführung



Type · Typ	Stock Lager		Dimension (mm) Abmessung							Screw Schraube	Wrench Schlüssel		
	R	L	ØD	ød	s	L ₁	L ₂	h	θ				
C10M-STUPR/L09	●	●	12	10	6	150	20	9	6°	I60M2.2×5.5	WT071P		
C12Q-STUPR/L09	●		16	12	8	180	22	11	4°				
C12Q-STUPR/L11	●		16	12	8	180	25	11	4°	I60M2.5×6.5	WT071P		
C16R-STUPR/L11	●		20	16	10	250	27	15	3°				

Applicable insert
Wendeschneidplatten

Application
Anwendung

Extra Finishing
Feinbearbeitung

insert shape
Schneidplattenform

SF



A103

Type Typ	C*-STUPR/L09	TP**0902**
	C*-STUPR/L11	TP**1103**

◆ Toolholder with holes for Coolant · Klemmhalter mit Kühlmittelbohrung

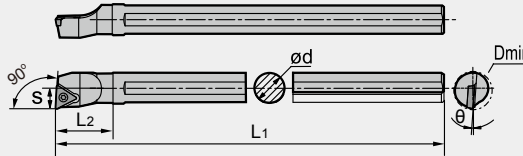
● ex stock · ab Lager ○ on demand · auf Anfrage

TC** Toolholder · Halter

S-Clamping / S-Halter

STFCR/L

Kr:90°



Type · Typ	Stock Lager		Dimension (mm) Abmessung							Screw Schraube	Wrench Schlüssel		
	R	L	ØD	ød	s	L ₁	L ₂	h	θ				
♦ E08K-STFCR/L 09	○	○	11	8	6	125		7.5	-12	I60M2.2×5.5	WT07IP		
♦ E10M-STFCR/L 09	○	○	12	10	7	150		9.5	-10				
♦ E12Q-STFCR/L 11	○	○	15	12	9	180		11.5	-10	I60M2.5×5.5	WT07IP		
♦ E16R-STFCR/L 11	○	○	18	16	10	200		15.5	-8				
♦ E20S-STFCR/L 11	○	○	24	20	13	250		19.5	-8	I60M3.5×10	WT15IP		
♦ E20S-STFCR/L 16	○	○	24	20	13	250		19.5	-8				
♦ E25T-STFCR/L 16	○	○	31	25	17	300		24	-6	I60M3.0×7.0	WT08IP		
♦ E10M-STFPR/L 11	○	○	12	10	6	150		9.5	-5				
♦ E12Q-STFPR/L 11	○	○	15	12	8	180		11.5	-4	I60M3.0×7.0	WT08IP		
♦ E16R-STFPR/L 11	○	○	19	16	10	200		15.5	-2				
♦ E20S-STFPR/L 11	○	○	24	20	13	250		19	-2				

Weitere Durchmesser auf Anfrage / more diameter on demand

Applicable insert
Wendeschneidplatten

Application
Anwendung

Extra Finishing
Feinbearbeitung

insert shape
Schneidplattenform

SF




A98

Type Typ	E*-STFCR/L09	TC**0902**
	E*-STFCR/L11	TC**1103**
	E*-STFCR/L16	TC**16T3**
	E*-STFPR/L11	TP**1103**

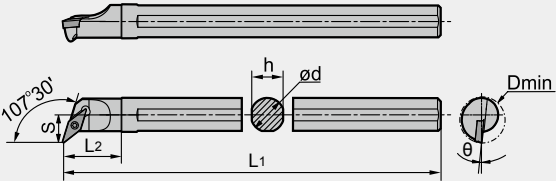

VC** Toolholder · Halter



S-Clamping / S-Halter




SVQCR/L
Kr:107°30'



R type
Rechtsausführung

Type · Typ	Stock Lager		Dimension (mm) Abmessung							Screw Schraube	Wrench Schlüssel		
	R	L	ØD	ød	s	L1	L2	h	θ				
C16R-SVQCR/L11	●	●	22	16	13	200	28	15	-6°	I60M2.5×6.5	WT07IP		
C20S-SVQCR/L11	●	●	26	20	15	250	32	18	-4°				

Applicable insert Wendeschneidplatten		Extra Finishing Feinbearbeitung		Finishing Schlichten		Al machining Alu Bearbeitung	
Application Anwendung		SF 		HF 		LH 	
insert shape Schneidplattenform		A106		A106		A107	
Type · Typ	C*-SVQCR/L11	VC**1103**		VC**1103**		VCGX1103**	
	C*-SVUCR/L11	VC**1103**		VC**1103**		VCGX1103**	

Turning · Drehen

Internal turning tools · Drehwerkzeugen zur Innenbearbeitung

VC** Toolholder · Halter

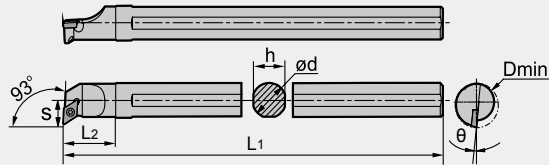
S-Clamping / S-Halter

SVUCR/L

Kr:93°






R type
Rechtsausführung



Type · Typ	Stock Lager		Dimension (mm) Abmessung							Screw Schraube	Wrench Schlüssel		
	R	L	ØD	ød	s	L1	L2	h	θ				
C16R-SVUCR/L11	●	●	24	16	15	200	25	15	6°	I60M2.5×6.5	WT07IP		
C20S-SVUCR/L11	●	●	28	20	17	250	30	18	4°				
◆ E16R-SVUCR/L 11	○	○	22	16	13	200		15	-6.5°	I60M2.5×6.5	WT07IP		
◆ E20S-SVUCR/L 11	○	○	27	20	13	250		18	-6.5°				
◆ E25T-SVUCR/L 16	○	○	35	25	20.5	300		23	-6.5°	I60M3.5×10	WT15IP		

Weitere Durchmesser auf Anfrage / more diameter on demand

Applicable insert
Wendeschneidplatten

Application Anwendung	Extra Finishing Feinbearbeitung	Finishing Schlichten	Al machining Alu Bearbeitung	
insert shape Schneidplattenform	SF  A106	HF  A106	LH  A107	
Type · Typ	C*-SVUCR/L11	VC**1103**	VC**1103**	VCGX1103**
	E*-SVUCR/L11	VC**1103**	VC**1103**	VCGX1103**

● ex Stock Lager · ab Lager ○ on demand · auf Anfrage

◆ Toolholder with wholes for Coolant · Klemhalter mit Kühlmittelbohrung

■ Recommended cutting data · Empfohlene Schnittdaten

ISO	Workpiece Materials Werkstückstoff		Hardness · Härte HB	CVD Coating · Beschichtung					PVD Coating · Beschicht.			Cermet	Coated cermet	Cemented carbide/ unbe. Hartmetall		Ceramic Keramik			
				YBC151	YBC251	YBC152	YBC252	YBC351	YBG102	YBG202	YBG302	YNG151	YNG151C	YC10	YC40	CA1000	CN2000		
				Feed rate · Vorschub (mm/rev)															
				0.1-0.6	0.1-0.8	0.1-0.6	0.1-0.8	0.2-1.0	0.2-0.4	0.1-0.6	0.05-0.8	0.05-0.2	0.05-0.2	0.1-0.4	0.1-0.5	0.1-1.5	0.1-1.5		
				Cutting speed · Schnittgeschwindigkeit (m/min)															
P	Carbon steel Kohlenstoffstahl	C=0.15%	125	430-200	430-190	500-270	480-240	380-165	460-220	380-180	360-165	550-350	580-350	360-165	300-145	800-300			
		C=0.35%	150	380-180	410-180	460-250	460-230	300-150	440-210	300-170	280-150	500-300	520-300	280-150	220-130	600-200			
		C=0.60%	200	330-150	350-150	400-220	400-200	260-130	380-180	260-150	240-130	460-260	480-260	240-130	180-80	400-150			
	Alloy steel legierter Stahl	low alloy, annealed geglüht	180	350-170	350-150	400-180	400-200	200-100	380-180	200-120	180-100	410-240	430-240	180-100	160-80	150-180	400-150		
		low alloy, tempered vergütet	275	230-100	210-100	280-150	260-140	140-70	240-120	140-90	120-70	300-180	320-180	120-70	120-50	350-120	300-100		
		low alloy, tempered vergütet	300	210-100	190-70	260-150	240-120	125-60	220-100	125-80	100-60	250-170	270-170	100-60	80-40	300-100	250-80		
		low alloy, tempered vergütet	350	180-80	170-70	230-120	220-120	110-55	200-100	110-75	90-55	230-150	250-150	90-55	70-45	300-80			
	High alloy steel Hochlegierter	high alloy, annealed geglüht	200	320-150	260-120	360-190	310-170	175-80	290-150	175-100	155-80	350-200	370-200	155-80	135-60	400-150	350-120		
		high alloy, tempered vergütet	325	140-90	100-50	190-130	150-100	85-40	130-80	85-60	65-40	170-110	190-110	65-40	45-30	300-100	280-80		
	Cast steel Stahlguß	Non-Alloy unlegiert	180	240-120	200-100	280-160	250-140	135-75	230-125	135-95	115-75	260-170	280-170	115-75	95-55	600-220			
		Low alloy niedrig legiert	200	230-70	170-60	280-110	220-110	120-80	200-90	120-100	100-80	260-170	280-170	100-80	80-60	400-150			
		High alloy hoch legiert	225	160-70	140-50	210-110	190-100	95-55	170-80	95-55	95-55	260-100	280-100	95-55	75-35	350-120			
ISO	Workpiece Materials Werkstückstoff		Hardness · Härte HB	CVD Coating · Beschichtung					PVD Coating · Beschicht.			Cermet	Coated cermet						
				YBM151	YBM251				YBG202	YBG302		YNG151	YNG151C						
				Feed rate · Vorschub (mm/rev)															
				0.2-0.6	0.2-0.6				0.1-0.4	0.2-0.6		0.1-0.3	0.1-0.3						
				Cutting speed · Schnittgeschwindigkeit (m/min)															
M	Stainless steel Rostfreier Stahl	Ferrite	180	280-180	250-140				300-190	250-150		330-220	350-210						
		Austenite	260	250-150	200-110				250-160	220-120		250-150	270-140						
		Martensite	330	200-140	210-130				260-170	210-120		270-170	290-160						

Turning · Drehen

Application Information · Anwendungsinformation

Recommended table of cutting parameters for general turning Empfohlene Schnittparameter für allgemeine Drehbearbeitung

ISO	Workpiece Materials Werkstückstoff		Hardness · Härte HB	CVD Coating · Beschichtung					Cermet	Coated cermet	Ceramic Keramik			Cemented carbide/ unbe. Hartmetall		
				YBD052	YBD151	YBD102	YBD152	YBD252			YNG151	YNG151C	CA1000	CN1000	CN2000	YC10
				Feed rate · Vorschub (mm/rev)												
				0.1-0.4	0.1-0.6	0.1-0.4	0.1-0.5	0.1-0.8	0.1-0.4	0.1-0.4	0.1-1.5	0.1-1.5	0.1-1.5	0.1-0.3	0.1-0.4	
Cutting speed · Schnittgeschwindigkeit (m/min)																
K	Malleable cast iron Temperguss	Ferrite	130	350-230	315-210	330-220	320-105	250-170	280-160	300-180	1200-200	800-600	800-600	150-90	105-45	
		Pearlite	230	250-105	225-95	230-100	230-100	180-75	220-120	240-150	1000-200	700-500	700-500	120-70	80-30	
	Low cast iron Grauguss	180	520-200	450-180	480-200	480-190	380-150	400-250	420-270	1200-200	800-600	700-500	170-100	130-60		
	High cast iron Grauguss	260	230-120	210-110	220-115	210-100	170-90	360-240	380-260	1000-200	750-500	800-600	130-70	95-40		
	Nodular cast iron	Ferrite	160	310-150	285-140	300-150	290-140	220-110	330-190	350-210	800-200	600-450	600-450	140-80	115-45	
		Pearlite	250	230-110	210-100	220-105	210-100	170-90	310-200	330-220	700-200	500-350	500-350	110-70	80-30	
ISO	Workpiece Materials Werkstückstoff		Hardness · Härte HB	PVD Coating · Beschichtung		Cemented carbide Hartmetall	CBN		PCD PKD							
				YBG102			YD101	YCB011		YCB012	YCD011					
				Feed rate · Vorschub (mm/rev)												
				0.05-0.15		0.05-0.35	0.05-0.5	0.05-0.2	0.05-0.5							
Cutting speed · Schnittgeschwindigkeit (m/min)																
N	Al alloy Al Legierung	No heat treatment keine Wärmebeh.	60			1750-800			2500-							
		Heat treatment	100			510-250			2500-							
	Cast aluminum alloy Alu. leg.	No heat treatment keine Wärmebeh.	75			460-175			2500-							
		Heat treatment keine Wärmebeh.	90			300-110			2500-							
	Copper alloy Kupfer leg.	Lead alloy keine Wärmebeh.	110			610-205			630-65							
		Copper, pure copper	90			310-195			630-65							
	Copper, nonleaded Copper, electrolytic copper	100			225-115			375-30								
S	Ni-base alloy	Ni-base alloy	40	90-30		70-20										
H	Other materials Andere Materialien	Hard steel	45 HRC					350-225								
		Super hard steel	50~60 HRC					250-135								
		Chilled cast iron	500			180-120										

■ Correctional cutting parameters table of internal turning Schnittparameter Übersicht zur Drehinnenbearbeitung

Internal turning tools by P type clamping · Drehwerkzeuge (Innen) P Typ Klemmung

	Workpiece material Werkstück Material	Hardness HB Härte	Machining category Anwendung	L/D≤3		L/D=3-4 (Diameter of shank≥Φ16mm)	
				Feed rate Vorschub (mm/rev)	Cutting depth Schnitttiefe (mm)	Feed rate Vorschub (mm/rev)	Cutting depth Schnitttiefe (mm)
P	Carbon steel, Alloy steel Kohlenstoff Stahl, Stahlleg. 45#, 42CrMo	HB180—280	Semi-finishing Mittlere Bear.	0.1- 0.25 -0.4	<5.0	0.1- 0.2 -0.3	<4.0
M	Stainless steel Rostfreier Stahl 1Cr18Ni9Ti 0Cr18Ni9	≤HB220	Semi-finishing Mittlere Bear.	0.1- 0.2 -0.3	<4.0	0.1- 0.15 -0.25	<3.0
K	Cast iron HT250 Gusseisen	HB170—230	Semi-finishing Mittlere Bear.	0.1- 0.25 -0.4	<5.0	0.1- 0.2 -0.3	<4.0

Internal turning tools by S type clamping · Drehwerkzeuge (Innen) S Typ Klemmung

	Workpiece material Werkstück Material	Hardness HB Härte	Machining category Anwendung	L/D≤3		L/D=4		L/D=5		L/D=6	
				Feed rate Vorschub (mm/rev)	Cutting depth (mm)	Feed rate Vorschub (mm/rev)	Cutting depth (mm)	Feed rate Vorschub (mm/rev)	Cutting depth (mm)	Feed rate Vorschub (mm/rev)	Cutting depth (mm)
P	Carbon steel, Alloy steel Kohlenst. Stahl, leg. Stahl 45#, 42CrMo	HB180-280	For finishing Schlichten	0.05- 0.1 -0.15	<0.2	0.05- 0.1 -0.15	<0.2	-	-	-	-
			For semi-finishing Mittlere Bear.	0.15- 0.25 -0.35	<3.0	0.1- 0.15 -0.2	<1.5	-	-	-	-
M	Stainless steel Rostfreier Stahl 1Cr18Ni9Ti 0Cr18Ni9	≤HB220	For finishing Schlichten	0.05- 0.1 -0.15	<0.2	0.05- 0.1 -0.15	<0.2	-	-	-	-
			For semi-finishing Mittlere Bear.	0.15- 0.2 -0.25	<2.0	0.1- 0.15 -0.2	<1.0	-	-	-	-
N	Al Alloy	---	For finishing Schlichten	0.05- 0.1 -0.15	<0.2	0.05- 0.1 -0.15	<0.2	0.05- 0.1 -0.15	-0.15	0.05- 0.1 -0.15	<0.1
			For semi-finishing Mittlere Bear.	0.05- 0.1 -0.15	<2.0	0.05- 0.1 -0.15	<1.5	0.05- 0.1 -0.15	-1.0	0.05- 0.1 -0.15	<1.0

Antivibration internal turning tools · Antivibrations Drehwerkzeuge (Innen)

	Workpiece material	Machining conditions Anwendung	Chipbreaker Spanbrecher	Grade Sorte	Feed rate Vorschub (mm/rev)	Cutting depth Schnitttiefe (mm)
P	Steel HB180—280 Stahl	Finishing Schlichten	SF	YNG151 YNG151C	0.05- 0.2 -0.35	0.05- 0.1-0.3 -0.5
M	Stainless steel ≤HB220 Rostfreier Stahl				0.05- 0.2 -0.35	0.05- 0.1-0.3 -0.5
K	Cast iron HB170—230 Gusseisen				0.05- 0.2 -0.35	0.05- 0.1-0.3 -0.5

Letters in blue color are recommended cutting parameters

Turning · Drehen

Application information · Anwendungsinformation

No.	Tool wear type	Situation	Reason	Countermeasures
1+2	Flank wear	Poor surface quality and inconsistent measurement. Increase in cutting force.	Grade is too soft Cutting speed is too high. Flank angle is too small. Feed rate is too low	Select grade with higher wear resistance Reduce cutting speed Increase flank angle. Increase feed rate
3	Crater wear	Bad surface and chip control	Grade is too soft. Cutting speed is too high. Feed rate is too high.	Select grade with higher wear resistance Reduce cutting speed Reduce feed rate
4	Chipping	Tool life not stable Sudden breakage of cutting edge	Grade is too hard. Feed rate is too high. Cutting edge strength not strong enough The rigidity of holder is insufficient (vibration)	Select grade with higher toughness Reduce feed rate Change honing of cutting edge Use holder with bigger shank size
5	Fracturing	Cutting force increasing Surface roughness and measure becomes bad	Grade is too hard. Feed rate is too high. Cutting edge strength not strong enough The rigidity of holder is insufficient	Select grade with higher toughness Reduce feed rate Change honing of cutting edge Use holder with bigger shank size
6	Plastic deformation	Inconsistent measure meet. Damage to the cutting edge	Grade is too soft. Cutting speed is too high. Depth of cut and feed rate too high Cutting temperature is high	Grade with high wear resistance. Reduce cutting speed Decrease depth of cut and feed rate. Grade with high thermal conductivity.
7	Welding	Poor surface quality and inconsistent measurement. Increase in cutting force.	Cutting speed is low. Cutting edge not sharp enough Grade not suitable	Increase cutting speed Increase rake angle. Select grade with lower affinity
8	Thermal Cracks	Break due to thermal variation effect often caused when cutting is interrupted.	Expansion or shrinkage due to cutting heat Grade is too hard.	Use dry cutting Select grade with higher toughness
9	Notch wear	Burr increase of Cutting force information	Unstable cutting condition (uncut surface, chilled parts, machining hardened layer) Friction caused by jagged shape chips. Feed rate and cutting speed too high	Grade with high wear resistance. Increase rake angle to improve sharpness Decrease cutting speed
10	Flaking	Mostly happens during machining of high hard materials or vibration	Cutting edge welding and adhesion. Bad chip removing	Increase rake angle to improve sharpness Use chip breaker with wider chip pocket

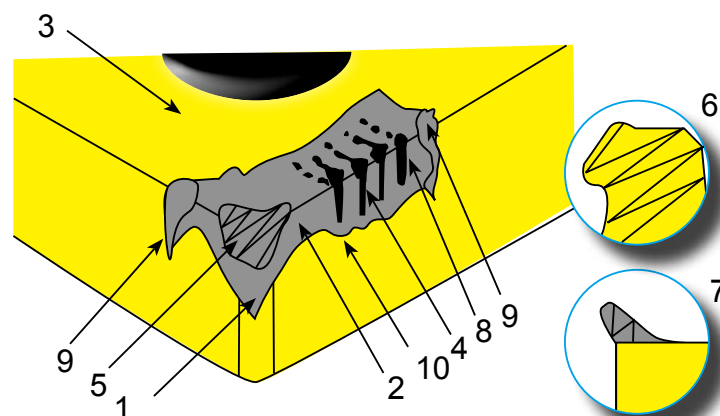


Bild	Art des Verschleißes	Auswirkungen	Grund	Gegenmaßnahmen
1+2	Freiflächenverschleiß	Schlechte Oberflächengüte und Maßhaltigkeit Anstieg der Schnittkraft	Sorte nicht verschleißfest genug Schnittgeschwindigkeit zu hoch Freiwinkel zu klein Vorschub zu gering	Sorte mit höherer Verschleißfestigkeit Schnittgeschwindigkeit reduzieren Freiwinkel vergrößern Vorschub reduzieren
3	Kolkverschleiß	Schlechte Oberflächengüte und Spankontrolle	Sorte nicht verschleißfest genug Schnittgeschwindigkeit zu hoch Vorschub zu hoch	Sorte mit höherer Verschleißfestigkeit Schnittgeschwindigkeit reduzieren Vorschub reduzieren
4	Ausbröckelung	Standzeit nicht stabil Plötzlicher Bruch der Schneidkante	Sorte ist zu hart Vorschub zu hoch Schneidkantenstabilität nicht ausreichend Stabilität des Werkzeughalter oder Spannung nicht ausreichend	Sorte mit höherer Zähigkeit Vorschub reduzieren Schneidkantenverrundung ändern Stabileren Halter verwenden
5	Bruch	Anstieg der Schnittkraft Schlechte Oberflächengüte und Maßhaltigkeit	Sorte ist zu hart Vorschub zu hoch Schneidkantenstabilität nicht ausreichend Stabilität des Werkzeughalter oder Spannung nicht ausreichend	Sorte mit höherer Zähigkeit Vorschub reduzieren Schneidkantenverrundung ändern Stabileren Halter verwenden
6	Plastische Deformation	Schlechte Maßhaltigkeit Beschädigung der Schneidkante	Sorte nicht verschleißfest genug. Schnittgeschwindigkeit zu hoch Schnitttiefe und/oder Vorschub zu hoch Temperatur an der Schneide zu hoch	Sorte mit höherer Verschleißfestigkeit Schnittgeschwindigkeit reduzieren Schnitttiefe und Vorschub reduzieren Sorte mit höherer Wärmebeständigkeit
7	Aufbauschneide	Anstieg der Schnittkraft Schlechte Oberflächengüte	Schnittgeschwindigkeit zu niedrig Schneidkante nicht scharf genug Sorte nicht geeignet	Schnittgeschwindigkeit erhöhen Spanwinkel erhöhen Sorte mit geringer Affinität
8	Thermischer Verschleiß	Bruch durch thermische Wechselwirkung Oft bei unterbrochenem Schnitt (Fräsen)	Durch die Bearbeitungs- Temperaturschwankungen Sorte ist zu hart	Trockenbearbeitung Sorte mit höherer Zähigkeit
9	Kerbverschleiß	Gratbildung Anstieg der Schnittkraft	Beschädigung durch Späne (ausgefranzte Spankante) Vorschub und Schnittgeschwindigkeit zu hoch	Sorte mit höherer Verschleißfestigkeit Spanwinkel vergrößern um eine schärfere Schneide zu bekommen Schnittgeschwindigkeit verringern
10	Abplatzung (Beschichtung)	Oft bei der Bearbeitung härterer Werkstoffe oder wenn Vibrationen auftauchen	Verklebungen an der Schneidkante sowie Ausbrüche. Schlechte Spanabfuhr	Spanwinkel vergrößern um eine schärfere Schneide zu bekommen Spanbrecher mit größerer Spankammer