2021

5

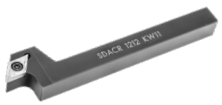
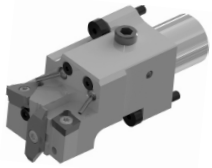
Wendeplattensysteme

Insert Systems

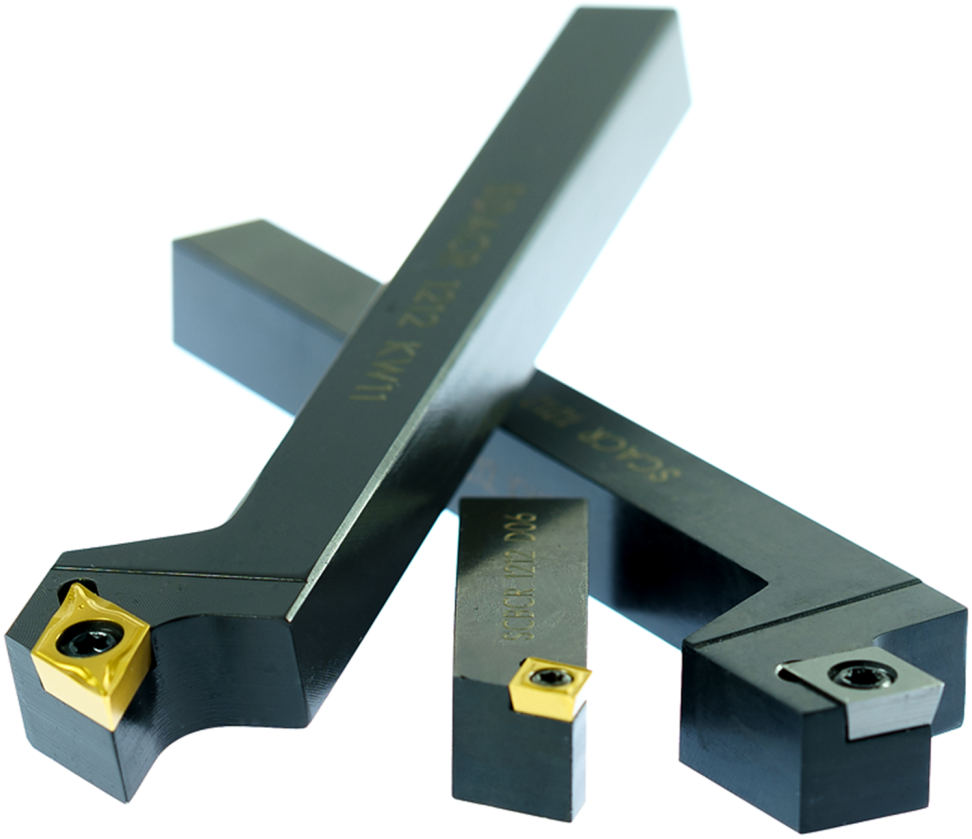


INPART passion for clamping

Inhalt / *Contents*

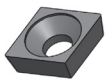
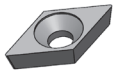
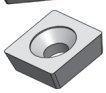
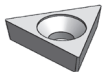
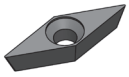
			Seite *Page*
Insert Holders		Wendeplattenhalter	2
Height Adjustable System		Höhenverstellbares System	18
STAR: Insert Holders for Backworking		STAR: Wendeplattenhalter für Rückseitenbearbeitung	42
Carbide Boring Bars		VHM-Bohrstangen	57
End and Chamfer Mills for inserts		Schaft- und Fasfräser für Wendeplatten	69
Screws for Insert Holders *Torque Wrenches for Inserts*		Schrauben für Wendeplatten Drehmomentschlüssel für Wendeplatten	72

Wendeplattenhalter
Insert Holders



Übersicht: Halter für Platten . . .

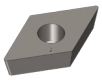
Overview: Holders for Inserts . . .

	Platten - *Inserts*	Seite - *Page*
	16ER . . / 16EL . .	4 - 5
	CC . . 0602 / 09T3	5 - 7
	CC . . 0602 / 09T3 (für Pfiffner / Hydromat)	6
	DC . .0702 / 11T3	8 - 10
	SC . . 09T3 / 1204	11
	TC/TP . . 1102 / 1103 / 1603	12
	VB/VC . . 1103 / 1303 / 1604	13 - 17

Ersatzteile

Spare Parts

Unterlegplatten / *Spacers*

	Artikel-Nr. / Platte *article-no. / spacer*	Schlüssel *spanner*	Artikel-Nr. / Schraube *article-no. / screw*	für Halter / *for Holder*	
	UR/L16-xxM UR/L16-xxML	T10	Klemmschraube / *clamping screw* KS-M3-T10	SER/L . .K..16	Details nächste Seite *details see next page*
	SU-DC11	T9	SU-M5-35	SDAC.. / SDJC.. / SDNC..	

Wendeplattentyp *insert type*	Schaft *shank* Ø	Schlüssel *spanner*	Schraube / Artikel-Nr. *screw / article-no.*
16ER . .		T10	A12-W6035120
CC .. 0602..		T8	A12-W6025060
CC .. 09T3..	10	T15	A12-W6040082
CC .. 09T3..	>10	T15	A12-W6040108
DC .. 0702..	8+10	T8	A12-W6025060
DC .. 0702..	>10	T8	A12-W6025078
DC .. 07T3		T15	A12-W6025060
DC .. 11T3..	10	T15	A12-W6040082
DC .. 11T3..	>10	T15	A12-W6040108
SC .. 09T3..	10	T15	A12-W6040082*
SC .. 09T3..	>10	T15	A12-W6040108*
SC .. 1204..		T20	A12-W5645110
TC .. 1103..	8	T8	A12-W6025060
TC .. 1103..	>8	T8	A12-W6025078

Wendeplattentyp *insert type*	Schaft *shank* Ø	Schlüssel *spanner*	Schraube / Artikel-Nr. *screw / article-no.*
TP .. 1103..		T9	A12-W6030082*
TP .. 1603..		T15	A12-W6035090
VB .. 1102..		T8	A12-W6025060
VB .. 1103..	10	T8	A12-W6025060
VB .. 1103..	>10	T8	A12-W6025078
VB .. 1604..	12	T15	A12-W6040082
VB .. 1604..	>12	T15	A12-W6040108
VC .. 1103..	10	T8	A12-W6025060
VC .. 1103..	>10	T8	A12-W6025078
VC .. 1303..	10	T9	A12-W6030082
VC .. 1303..	>10	T9	A12-W6030100
VC .. 1604..	10	T15	A12-W6040082
VC .. 1604..	>10	T15	A12-W6040108

Alle Schrauben für Wendeplattenhalter s. S. 72
*** Ältere Ausführungen können abweichen**

All screws for insert holders see page 72
** older versions may differ*

Gewindedrehen - Grundlagen

Threading - Basics

Berechnung des Steigungswinkels ß:
Calculation of the helix-angle ß:

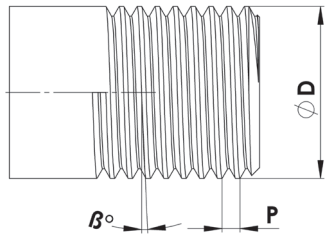
$$\beta = tan^{-1}\frac{n\,P}{\pi\,D}$$

Faustformel: **P x 20 / D = Winkel / *Angle***
rule of thumb:

n = Anzahl der Gänge / *number of threads*

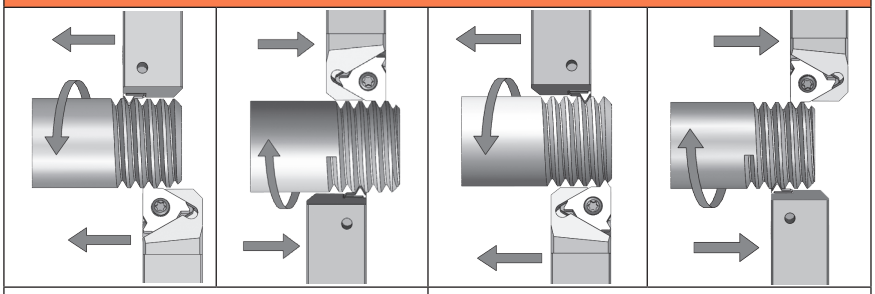
P = Teilung
(= Steigung bei eingängigem Gewinde)
= division (= pitch with one-start thread)

D = Gewindedurchmesser / *thread diameter*



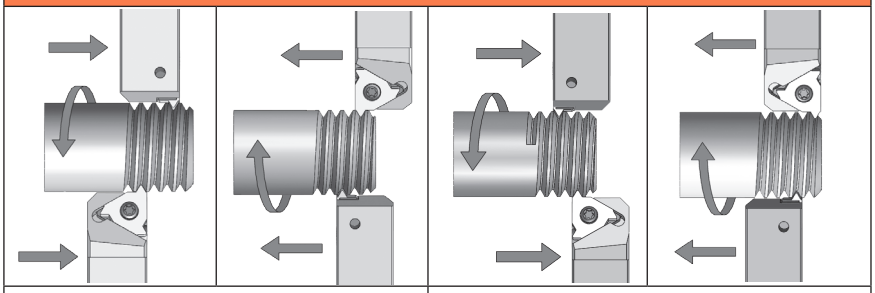
Methoden Außengewinde / *technique external thread*

Rechtsgewinde / right-hand-thread



Halter: Ausführung rechts *Holder: version right* **SER . . . 16**	Halter: Ausführung links *Holder: version left* **SEL . . . 16**
Einsatz / *technique* **1**	Einsatz / *technique* **3**

Linksgewinde / left-hand-thread



Halter: Ausführung links *Holder: version left* **SEL . . . 16**	Halter: Ausführung rechts *Holder: version right* **SER . . . 16**
Einsatz / *technique* **2**	Einsatz / *technique* **4**

Die Wendeplattenhalter zum Gewindeschneiden werden standardmäßig mit **1° Platten-Neigungswinkel** geliefert. Um den gewünschten Steigungswinkel zu erreichen, müssen entsprechende Unterlegplatten gewählt werden

*Thread cutting insert holders standard supplied with **1° insert inclination angle**. In order to achieve the desired helix-angle, appropriate spacers must be selected*

Unterlegplatten für 3/8" / 16ER/EL-Platten

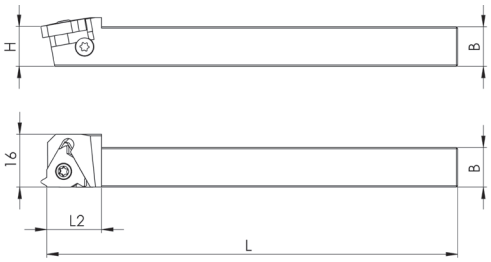
Spacers for 3/8" / 16ER/EL Inserts

Einsatz / *technique* 1					
Steigungswinkel ß / *helix-angle ß*	0°	1°	2°	3°	4,5°
Unterlegplatte / *spacer*	UR16-00M	**UR16-01M**	UR16-03M	UR16-03M	UR16-45M
Einsatz / *technique* 2					
Steigungswinkel ß / *helix-angle ß*	0°	1°	2°	3°	4,5°
Unterlegplatte / *spacer*	UL16-00M	**UL16-01M**	UL16-03M	UL16-03M	UL16-45M
Einsatz / *technique* 3					
Steigungswinkel ß / *helix-angle ß*	0°	1°	2°	3,5°	
Unterlegplatte / *spacer*	UR16-00M	UR16-01ML	UR16-03ML	UR16-45ML	
Einsatz / *technique* 4					
Steigungswinkel ß / *helix-angle ß*	0°	1°	2°	3,5°	
Unterlegplatte / *spacer*	UL16-00M	UL16-01ML	UL16-03ML	UL16-45ML	

Zusammen mit den Gewindeplattenhaltern werden jeweils die Standardunterlegplatten **UR16-01M** bzw. **UL16-01M** ausgeliefert
*The standard spacers **UR16-01M** and **UL16-01M** are each supplied together with the insert holders for threading*

Wendeplattenhalter für 3/8" / 16ER/EL Platten zum Gewindedrehen

Insert Holders for 3/8" / 16ER/EL Inserts for Threading



Ausführung rechts
version right

Beisp. Bestell-Nr.: *example order-no.:* SER 1010KX16



Ausführung links
version left

Beisp. Bestell-Nr.: *example order-no.:* SEL 1010KX16



Artikel.-Nr. *article-no.*	B / H	L	L2	Platten *inserts*	Schlüssel *spanner*	Schraube *screw*	Unterlegplatte *spacer*	Schraube für Unterlegplatte *Screw for spacer*	Schlüssel *spanner*
SER/L 1010KX16	10	125	16	16ER-xx 16EL-xx	T10	A12-W6035120	s.Seite 4 *see page 4*	KS-M3-T10	T10
SER/L 1212KX16	12	125							
SER/L 1616K16	16	125							

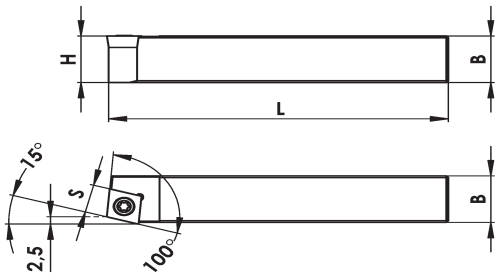
Wendeplattenhalter für 80° Drehplatte

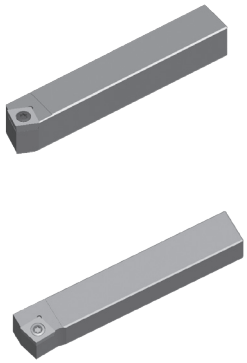
Insert Holders for 80° Turning Inserts

Freiwinkel 7°

Clearance angle 7°

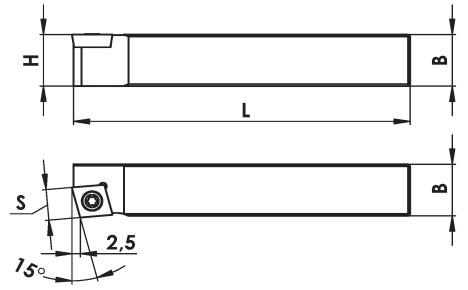
Langdrehen / *Plain turning*





SCBCR 1616K09
Ausführung rechts **"R"** *Version right*

Plandrehen / *Face turning*



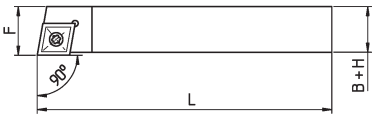
SCKCR 1616K09
Ausführung rechts **"R"** *Version right*

Artikel.-Nr. *article-no.*	B	L	S	Platten *inserts*	Schlüssel *spanner*	Schraube *screw*
SCBCR/L 1616K09	16	125	9,6	CCMT 09T3..	T15	A12-W6040108
SCKCR/L 1616K09	16	125	9,6	CCGT 09T3..	T15	A12-W6040108

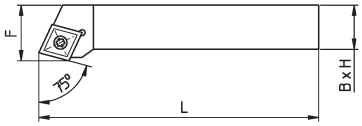
Wendeplattenhalter für 80° Drehplatte
für Pfiffner / Hydromat

Insert Holders for 80° Turning Inserts
for Pfiffner / Hydromat

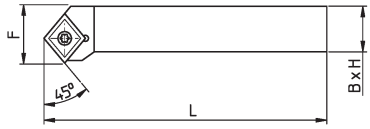
SCACR



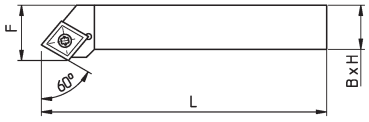
SCBCR



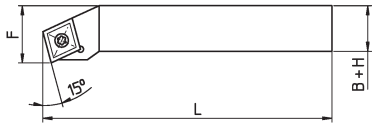
SCDCR



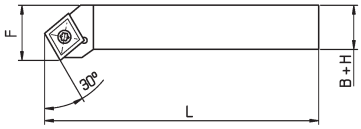
SCECR

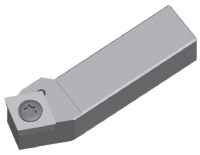


SCKCR



SCWCR





Ausführung links **"L"**
Version left

Freiwinkel 7° - Lang- und Plandrehen, Anfasen

Clearance angle 7° - Plain and face turning, chamfering

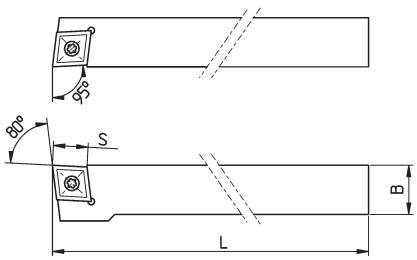
Artikel.-Nr. *article-no.*	B	H	L	F	Platten *inserts*	Schlüssel *spanner*	Schraube *screw*
SCACR 1212D06	12	12	45	12	CCMT 0602..	T8	A12-W6025060
SCACR 1210D06	10	12	45	10,5	CCMT 0602..	T8	A12-W6025060
SCACR 1212D09	12	12	50	13	CCMT 09T3..	T15	A12-W6040108
SCBCR 1212D06	12	12	45	12,5	CCMT 0602..	T8	A12-W6025060
SCDCR 1212D06	12	12	45	12,5	CCMT 0602..	T8	A12-W6025060
SCDCR 1212D09	12	12	50	15	CCMT 09T3..	T15	A12-W6040108
SCECR 1212D06	12	12	45	12,5	CCMT 0602..	T8	A12-W6025060
SCECR 1212D09	12	12	50	15	CCMT 09T3..	T15	A12-W6040108
SCKCR 1212D06	12	12	45	12,5	CCMT 0602..	T8	A12-W6025060
SCKCR/L 1212D09	12	12	50	15	CCMT 09T3..	T15	A12-W6040108
SCWCR 1212D06	12	12	45	12,5	CCMT 0602..	T8	A12-W6025060
SCWCR 1212D09	12	12	50	15	CCMT 09T3..	T15	A12-W6040108
SCQCR 1212D06	12	12	45	12,5	CCMT 0602..	T8	A12-W6025060

Wendeplattenhalter für 80° Drehplatte

Insert Holders for 80° Turning Inserts

Ausführung rechts "R"
Version right

Ausführung links
Plattensitz verstärkt "L...X"
Version left, reinforced





Freiwinkel 7° - Lang- und Plandrehen

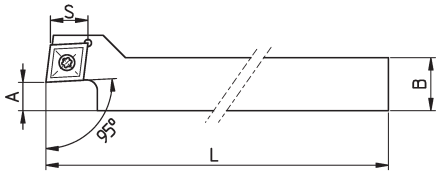
Clearance angle 7° - Plain and face turning

Artikel.-Nr. *article-no.*	B	L	S	Platten *inserts*	Schlüssel *spanner*	Schraube *screw*
SCLCR 0707KX06	7 x 7	125	6,3	CCGT 0602.. CCMT 0602..	T8	A12-W6025060
SCLCR/L 0808K06	8 x 8	125	6,3			
SCLCR/L 1010K06	10 x 10	125	6,3			
SCLCL 1010M06	10 x 10	135	6,3			
SCLCR/L 1212K06	12 x 12	125	6,3			
SCLCR 1212M06	12 x 12	150	6,3			
SCLCR 1616H06	16 x 16	100	6,3			
SCLCR/L 1010KX09	10 x 10	125	9,6	CCMT 09T3.. CCGT 09T3..	T15	A12-W6040082
SCLCR 1010MX09	10 x 10	150	9,6			
SCLCR 1212D09	12 x 12	50	9,6			A12-W6040108
SCLCR/L 1212K09	12 x 12	125	9,6			
SCLCR 1212M09	12 x 12	150	9,6			
SCLCR 1212MX09	12 x 12	150	9,6			
SCLCR/L 1616H09	16 x 16	100	9,6			
SCLCR/L 1616K09	16 x 16	125	9,6			
SCLCR 2020K09	20 x 20	125	9,6			
SCLCR/L 2020M09	20 x 20	150	9,6			

Wendeplattenhalter versetzt
für 80° Kopierplatte

Insert Holders offset for 80° Turning Inserts

Ausführung rechts "R"
Version right





Freiwinkel 7°

Clearance angle 7°

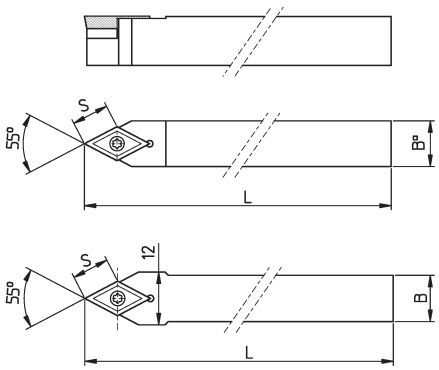
Artikel.-Nr. *article-no.*	B	L	S	A	Platten *inserts*	Schlüssel *spanner*	Schraube *screw*
SCLCR 1212KW09	12 x 12	125	9	12	CCMT 09T3..	T15	A12-W6040108
SCLCR 1212KV09	12 x 12	125	9	8			
SCLCR 1616KV09	16 x 16	125	9	8			

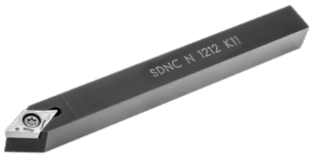
Wendeplattenhalter für 55°-Kopierplatte

Insert Holders for 55° Turning Inserts

Ausführung mit Unterlegplatte "...U"
Version right with spacer

Ausführung Plattensitz verstärkt "...X"
Version reinforced



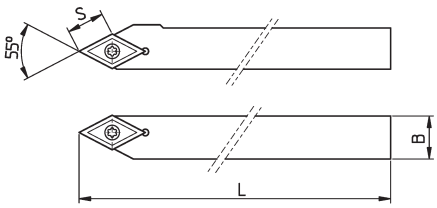


Freiwinkel 7° - zum Kopieren einfacher Formen — *Clearance angle 7° - To copy simple shapes*

Artikel.-Nr. *article-no.*	B	L	S	Platten *inserts*	Schlüssel *spanner*	Schraube *screw*
SDNCN 0808K07	8 x 8	130	7	DCMT 0702.. DCGT 0702..	T8	A12-W6025060
SDNCN 1010K07	10 x 10	132				
SDNCN 1212K07	12 x 12	130				A12-W6025078
SDNCN 1212M07	12 x 12	150				
SDNCN 1010KX11	10 x 10	125	11	DCMT 11T3.. DCGT 11T3..	T15	A12-W6040082
SDNCN 1010MX11	10 x 10	150				A12-W6040082
SDNCN 1212K11	12 x 12	125				A12-W6040108
SDNCN 1212M11	12 x 12	150				A12-W6040108
SDNCN 1616H11	16 x 16	100				A12-W6040108
SDNCN 1616K11	16 x 16	125				A12-W6040108
SDNCN 2020K11	20 x 20	125				A12-W6040108

Ausführung rechts Plattensitz verstärkt "R...X"
Version right, reinforced

Ausführung links "L"
Version left





Freiwinkel 7° - Lang- und Plandrehen — *Clearance angle 7° - Plain and face turning*

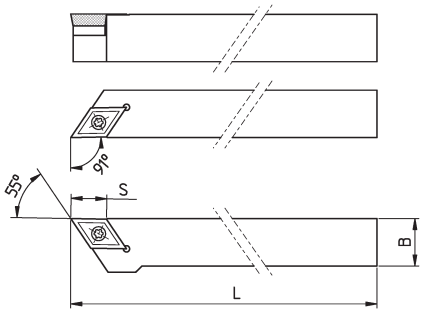
Artikel.-Nr. *article-no.*	B	L	S	Platten *inserts*	Schlüssel *spanner*	Schraube *screw*
SDNCR 1010KX11(130)	10 x 10	130	11	DCMT 11T3.. DCGT 11T3..	T15	A12-W6040082
SDNCR/L 1212K11	12 x 12	125				A12-W6040108
SDNCR/L 1212M11	12 x 12	150				
SDNCR 1616H11	16 x 16	109				
SDNCR 2020K11	20 x 20	125				

Wendeplattenhalter für 55° Kopierplatte

Insert Holders for 55° Turning Inserts

Ausführung rechts
mit Unterlegplatte "R...U"
Version right
with spacer

Ausführung links
Plattensitz verstärkt "L...X"
Version reinforced





Freiwinkel 7° ***Clearance angle 7°***

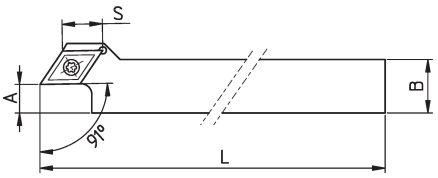
Artikel.-Nr. *article-no.*	B	L	S	Platten *inserts*	Schlüssel *spanner*	Schraube *screw*
SDACR/L 0808K07	8 x 8	125	7	DCMT 0702.. DCGT 0702..	T8	A12-W6025060
SDACR/L 1010K07	10 x 10	130				
SDACR 1010MX07	10 x 10	150				
SDACR/L 1212K07	12 x 12	125				A12-W6025078
SDACR 1212M07	12 x 12	150				
SDACR/L 1313K07	13 x 13	125				
SDACR/L 1616K07	16 x 16	125				
SDACR/L 1010KX11	10 x 10	130	11	DCMT 11T3.. DCGT 11T3..	T15	A12-W6040082
SDACR/L 1010MX11	10 x 10	150				
SDACR/L 1212K11	12 x 12	125				A12-W6040108
SDACR/L 1212M11	12 x 12	150				
SDACR/L 1212KX11	12 x 12	125				
SDACR/L 1212MX11	12 x 12	150				
SDACR/L 1616H11	16 x 16	100				
SDACR/L 1616K11	16 x 16	125				
SDACR/L 2020K11	20 x 20	125				
SDACL 2020M11	20 x 20	150				
SDACR 1616K11U*	16 x 16	125				
SDACR 2020K11U*	20 x 20	125				

*** Mit Unterlegplatte, s. S. 4 -** ***with spacer, see page 4***

Wendeplattenhalter versetzt
für 55° Kopierplatte

Insert Holders offset
for 55° Turning Inserts

Ausführung rechts **"R"**
Version right





Freiwinkel 7° ***Clearance angle 7°***

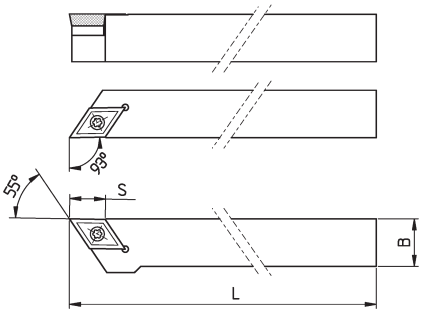
Artikel.-Nr. *article-no.*	B	L	S	A	Platten *inserts*	Schlüssel *spanner*	Schraube *screw*
SDACR 1010KV11	10 x 10	130	11	7	DCGT 11T3.. DCMT 11T3..	T15	A12-W6040082
SDACR/L 1212KV11	12 x 12	130	11	7			A12-W6040108
SDACR 1212MV11	12 x 12	150	11	7			
SDACR/L 1616KV11	16 x 16	125	11	7			
SDACR/L 1212KW11	12 x 12	125	11	12			
SDACR 1212MW11	12 x 12	145	11	12			

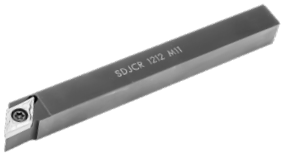
Wendeplattenhalter für 55° Kopierplatte

Insert Holders for 55° Turning Inserts

Ausführung rechts
mit Unterlegplatte **"R...U"**
Version right
with spacer

Ausführung links
Plattensitz verstärkt **"L...X"**
Version reinforced





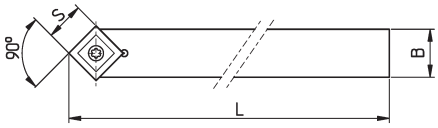
Freiwinkel 7° ***Clearance Angle 7°***

Artikel.-Nr. *article-no.*	B	L	S	Platten *inserts*	Schlüssel *spanner*	Schraube *screw*
SDJCL 1010K07	10 x 10	120	7	DCMT 07T3..	T15	A12-W6040082
SDJCR 1010KX11	10 x 10	125	11	DCMT 11T3.. DCGT 11T3..		A12-W6040108
SDJCR/L 1212K11	12 x 12	125				
SDJCR/L 1212KX11	12 x 12	125				
SDJCR/L 1212M11	12 x 12	150				
SDJCR 1212MX11	12 x 12	150				
SDJCR 1616H11	16 x 16	109				
SDJCR 1616H11U*	16 x 16	100				
SDJCR 2020G11U*	20 x 20	99				
SDJCR/L 2020K11U*	20 x 20	125				

*** Mit Unterlegplatte, s. S. 4 -** ***with spacer, see page 4***

Wendeplattenhalter
für 90° Dreh- und Fasplatte

Insert Holders
for 90° Turning and Chamfer Inserts





Freiwinkel 7° - Zum Kopieren einfacher Formen

Clearance angle 7° - To copy simple shapes

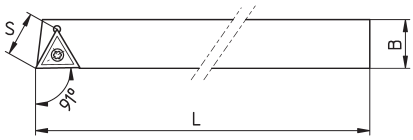
Artikel.-Nr. *article-no.*	B	L	S	Platten *inserts*	Schlüssel *spanner*	Schraube *screw*
SSDCR/L 1010K09	10 x 10	125	9,5	SCMT 09T3..	T15	A12-W6040082
SSDCN 1010K09	10 x 10	125				
SSDCN 1010M09	10 x 10	150				
SSDCN 1212K09	12 x 12	125				A12-W6035105
SSDCN 1616H09	16 x 16	100				
SSDCN 1616K09	16 x 16	125				
SSDCN 1616M09	16 x 16	150				
SSDCN 1616K12	16 x 16	125	12,4	SCMT 1204..	T20	A12-W5645110

Wendeplattenhalter für 60° Langdrehplatte

Insert Holders for 60° Inserts

Ausführung rechts **"R"**
Version right

Ausführung links
Plattensitz verstärkt **"L...X"**
Version left,
reinforced



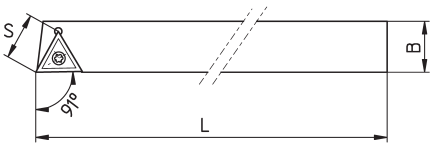


TP..-Platte, Freiwinkel 9°
Zum Drehen kleinster Durchmesser

TP..-inserts, Clearance angle 9°
To turn smallest diameters

Artikel.-Nr. *article-no.*	B	L	S	Platten *inserts*	Schlüssel *spanner*	Schraube *screw*
STAPR 0808KX11	8 x 8	125	11	TPGH 11 03.. TPGB 11 03.. TPMT 11 03..	T9	A12-W6030082
STAPL 0808M11	8 x 8	135				
STAPR/L 1010K11	10 x 10	125				
STAPR/L 1010M11	10 x 10	135				
STAPR/L 1212K11	12 x 12	130				
STAPR 1212MX11	12 x12	134				
STAPR/L 1616K11	16 x 16	125				
STAPR 1212M16	12 x 12	150	16	TPGB 16 03.. TPGH 16 03.. TPMT 16 03..	T15	A12-W6035090

Ausführung rechts **"R"**
Version right





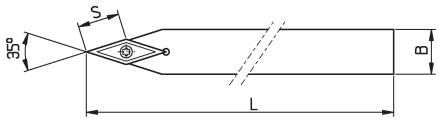
TC..-Platte, Freiwinkel 7°

TC..- inserts, Clearance angle 7°

Artikel.-Nr. *article-no.*	B	L	S	Platten *inserts*	Schlüssel *spanner*	Schraube *screw*
STACL 0808H11	8 x 8	105	11	TCGH 11 03.. TCGB 11 03.. TCMT 11 03..	T8	A12-W6025060
STACR/L 0808K11	8 x 8	130				
STACL 0808KX11	8 x 8	125				
STACR/L 1010K11	10 x 10	130				A12-W6025078
STACL 1010M11	10 x 10	150				
STACR/L 1212K11	12 x 12	125				
STACR 1616HX11	16 x 16	100				
STACR 1616K11	16 x 16	125				

Wendeplattenhalter für 35°-Kopierplatte

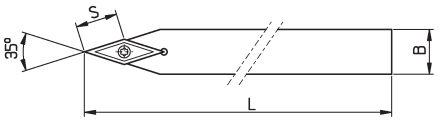
Insert Holders for 35° Turning Inserts





Freiwinkel 7° *Clearance angle 7°*

Artikel.-Nr. *article-no.*	B	L	S	Platten *inserts*	Schlüssel *spanner*	Schraube *screw*
SVVCN 1010K11	10 x 10	125	11	VCGT 1103.. VCMT 1103..	T8	A12-W6025060
SVVCN 1010M11	10 x 10	150				
SVVCN 1212K11	12 x 12	125				A12-W6025078
SVVCN 1212M11	12 x 12	150				
SVVCN 1616H11	16 x 16	110				
SVVCN 1010K13	10 x 10	125	13	VCGT 1303.. VCMT 1303..	T9	A12-W6030082
SVVCN 1010M13	10 x 10	150				
SVVCN 1212K13	12 x 12	128				A12-W6030100
SVVCN 1212M13	12 x 12	150				
SVVCN 1616K13	16 x 16	125				
SVVCN 1212K16	12 x 12	125	16	VCGT 1604.. VCMT 1604..	T15	A12-W6040108
SVVCN 1212M16	12 x 12	150				
SVVCN 1616K16	16 x 16	125				
SVVCN 1616M16	16 x 16	150				





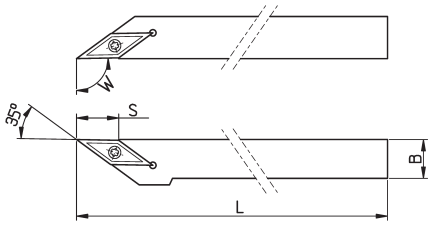
Freiwinkel 5° *Clearance angle 5°*

Artikel.-Nr. *article-no.*	B	L	S	Platten *inserts*	Schlüssel *spanner*	Schraube *screw*
SVVBN 1010M11	10 x 10	150	11	VBGT 1103.. VBMT 1103..	T8	A12-W6025060
SVVBN 1212M11	12 x 12	150				A12-W6025078
SVVBN 1616H11	16 x 16	100				
SVVBN 1616K11	16 x 16	125				
SVVBN 1212K16	12 x 12	125	16	VBGT 1604.. VBMT 1604..	T15	A12-W6040082
SVVBN 1616M16	16 x 16	150				A12-W6040108
SVVBN 2020K16	20 x 20	125				

*** Mit Unterlegplatte, s. S. 4** - *with spacer, see page 4*

Ausführung rechts **"R"**
Version right

Ausführung links
Plattensitz verstärkt **"L...X"**
Version left, reinforced





Freiwinkel 7°, Ausführungen SVA + SVJ *Clearance angle 7°, Types SVA + SVJ*

Artikel.-Nr. *article-no.*	B	L	S	W	Platten *inserts*	Schlüssel *spanner*	Schraube *screw*
SVACR/L 0808K11	8 x 8	130	11	91	VCGT 1103.. VCMT 1103..	T8	A12-W6025060
SVACR/L 1010K11	10 x 10	125	11	91			
SVACR/L 1010M11	10 x 10	150	11	91			
SVACR/L 1212K11	12 x 12	125	11	91			A12-W6025078
SVACR/L 1212M11	12 x 12	150	11	91			
SVACR/L 1212MX11	12 x 12	150	11	91			
SVACL 1313K11	13 x 13	125	11	91			
SVACR/L 1616H11	16 x 16	100	11	91			
SVACR/L 1616K11	16 x 16	125	11	91			
SVACR 1616M11	16 x 16	150	11	91			
SVJCR 1616H11	16 x 16	100	11	93			
SVJCR/L 1616K11	16 x 16	125	11	93			
SVACR/L 1010K13	10 x 10	130	13	91	VCGT 1303.. VCMT 1303..	T9	A12-W6030082
SVACR 1010M13	10 x 10	150	13	91			
SVACR 1212K13	12 x 12	125	13	91			A12-W6030100
SVACR/L 1212M13	12 x 12	150	13	91			
SVACR/L 1616K13	16 x 16	125	13	91			
SVACR/L 1616H13	16 x 16	100	13	91			
SVACR/L 1212KX16	12 x 12	125	16	91	VCGT 1604.. VCMT 1604..	T15	A12-W6040108
SVACR/L 1212MX16	12 x 12	150	16	91			
SVACR/L 1616H16	16 x 16	100	16	91			
SVACR/L 1616K16	16 x 16	125	16	91			
SVACR/L 2020K16	20 x 20	125	16	91			
SVJCR/L 2020K16U*	20 x 20	125	16	93			

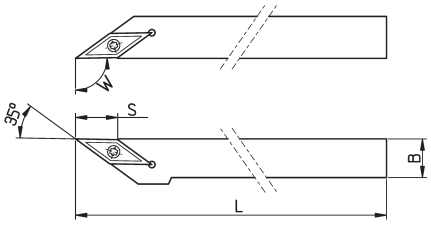
*** Mit Unterlegplatte, s. S. 4** - *with spacer, see page 4*

Wendeplattenhalter für 35° Kopierplatte

Insert Holders for 35° Turning Inserts

Ausführung rechts **"R"**
Version right

Ausführung links
Plattensitz verstärkt **"L...X"**
Version left,
reinforced





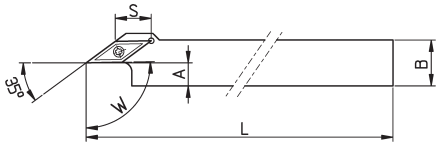
Freiwinkel 5° ***Clearance angle 5°***

Artikel.-Nr. *article-no.*	B	L	S	W	Platten *inserts*	Schlüssel *spanner*	Schraube *screw*
SVABR/L 1010K11	10 x 10	125	11	91°	VBGT 1103.. VBMT 1103..	T8	A12-W6025060
SVABR/L 1212K11	12 x 12	125	11	91°			A12-W6025078
SVABR 1212M11	12 x 12	150	11	91°			
SVABR/L 1616H11	16 x 16	100	11	91°			
SVABR/L 1616K11	16 x 16	125	12	91°			
SVABR 1616K1102	16 x 16	125	12	91°	VBGH 1102.. VBGB 1102.. VBMT 1102..	T8	A12-W6025060
SVABR/L 1212KX16	12 x 12	125	16	91°	VBGT 1604.. VBMT 1604..	T15	A12-W6040082
SVABR/L 1212MX16	12 x 12	150	16	91°			
SVABR/L 1616H16	16 x 16	100	16	91°			A12-W6040108
SVABR/L 1616K16	16 x 16	125	16	91°			
SVABR/L 2020K16	20 x 20	125	16	91°			
SVJBR/L 2020K16	20 x 20	125	16	93°			

Wendeplattenhalter versetzt
für 35° Kopierplatte

Insert Holders offset
for 35° Turning Inserts

Ausführung rechts **"R"**
Version right





Freiwinkel 7° *Clearance angle 7°*

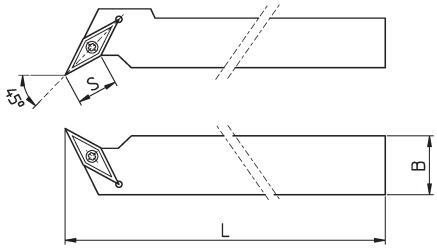
Artikel.-Nr. *article-no.*	B	L	S	A	W	Platten *inserts*	Schlüssel *spanner*	Schraube *screw*
SVACR 1010KV11	10 x 10	130	11	8	91	VCGT 1103.. VCMT 1103..	T8	A12-W6025060
SVACR 1212KW11	12 x 12	125	11	13,5	91			A12-W6025078
SVACR/L 1212KV11	12 x 12	125	11	8	91			
SVACR/L 1212MV11	12 x 12	150	11	8	91			
SVACR/L 1616KV11	16 x 16	125	11	8	91			
SVJCR/L 1616KV11	16 x 16	125	11	9	93			
SVACR/L 1212KV13	12 x 12	125	13	8	91	VCMT 1303..	T9	A12-W6030100
SVACL 1212MV13	12 x 12	150	13	8	91			
SVACL 1212KW13	12 x 12	122	13	12	91			
SVACR/L 1212MW13	12 x 12	150	13	12	91			
SVACR/L 1616KW13	16 x 16	125	13	16	91			
SVACR 1616MW13	16 x 16	150	13	14	91			

Wendeplattenhalter für 35° Kopierplatte

Insert Holders for 35° Turning Inserts

Ausführung rechts
Plattensitz verstärkt **"R...X"**
Version right, reinforced

Ausführung links **"L"**
Version left





Freiwinkel 5° *Clearance angle 5°*

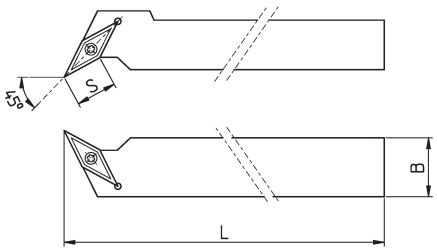
Artikel.-Nr. *article-no.*	B	L	S	Platten *inserts*	Schlüssel *spanner*	Schraube *screw*
SVQBR/L 1212KX11	12 x 12	125	11	VBGT 1103..	T8	A12-W6025078
SVQBR/L 1212MX11	12 x 12	150	11			
SVQBR 1616K11	16 x 16	125	11			
SVQBR/L 1616H16	16 x 16	100	16	VBGT 1604.. VBMT 1604..	T15	A12-W6040108
SVQBR/L 2020K16	20 x 20	125	16			

Wendeplattenhalter für 35° Kopierplatte

Insert Holders for 35° Turning Inserts

Ausführung rechts
Plattensitz verstärkt **"R...X"**
Version right, reinforced

Ausführung links **"L"**
Version left



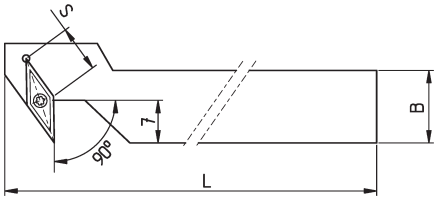


Freiwinkel 7° *Clearance angle 7°*

Artikel-Nr. *article-no.*	B	L	S	Platten *inserts*	Schlüssel *spanner*	Schraube *screw*
SVQCL 1010KX11	10 x 10	130	11	VCGT 1103..	T8	A12-W6025060
SVQCL 1010MX11	10 x 10	150				
* SVQCR/L 1212KX11	12 x 12	125				A12-W6025078
SVQCR/L 1212MX11	12 x 12	150				
SVQCL 1616H11	16 x 16	95				
SVQCR 1616K11	16 x 16	125				
SVQCR/L 1010KX13	10 x 10	125	13	VCGT 1303.. VCMT 1303..	T9	A12-W6030082
* SVQCR/L 1212KX13	12 x 12	125				A12-W6030100
SVQCR 1212MX13	12 x 12	150				
SVQCR/L 1616H13	16 x 16	100				
SVQCL 1616HX13	16 x 16	100				
SVQCR 1616K13	16 x 16	125				
SVQCR/L 2020K13	20 x 20	125				
SVQCR/L 2020M16	20 x 20	150	16	VCMT 1604.. VCGT 1604..	T15	A12-W6040108
SVQCR/L 2525K16	25 x 25	125				
SVQCR/L 2525M16	25 x 25	150				

* **Ausverkaufsartikel** * *sellout article*

Ausführung rechts **"R"**
Version right





Freiwinkel 7° *Clearance angle 7°*
Anwendungsbeispiel: Kopieren von Innenradien (Innenhalbkugel) *Example of use: copy of inside radius (inside hemisphere)*

Artikel-Nr. *article-no.*	B	L	S	Platten *inserts*	Schlüssel *spanner*	Schraube *screw*
SVUCR 1010KX11	10 x 10	125	11	VCGT 1103..	T8	A12-W6025060
* SVUCR/L 1212KX11	12 x 12	125	11	VCGT 1103..	T8	A12-W6025078
SVUCR/L 1212MX11	12 x 12	150	11	VCGT 1103..	T8	

* **Ausverkaufsartikel** * *sellout article*

Höhenverstellbares System für Langdreher

Height Adjustable System for Swiss-type Lathes



COMING 2022..

HEIGHT ADJUSTABLE SYSTEM - HVWPX

Coolant directly to the insert,
High Precision!

Longer tool life

New design,
unique coolant transfer
3D printed accessories

NO MORE vibrations

Extreme stability



HVWPX

Technische Informationen

Technical Information

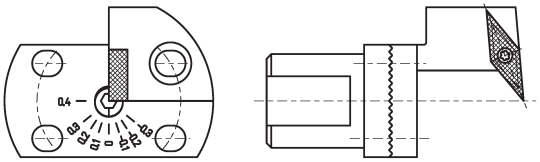
Geeignet u.a. für Langdreher-Rückseiten-bearbeitung.

E.g. suitable for Swiss-Lathes backworking.

Durch Einstellmöglichkeit der Spitzenhöhe auch zum Drehen kleinster Durchmesser

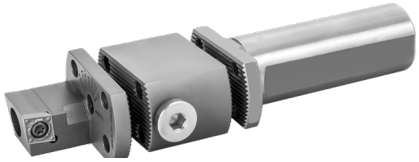
Smallest turning diameter possible as a result of height adjustment option.

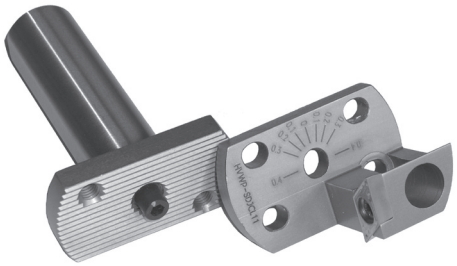
Exakte Höheneinstellung +/- 0,4 mm mit Skala, Teilung je 0,1 mm



Exact height adjustment +/- 0,4 mm with scale, step 0,1 mm

Systemaufbau





System design

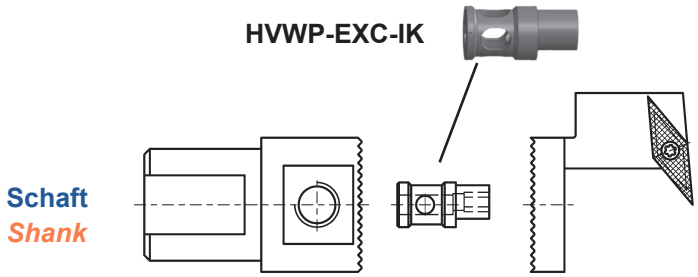
Bei Schäften mit tieferen Taschen für die Befestigungs-schrauben, kann der Halter ohne Lösen des Kopfes abgeschraubt werden



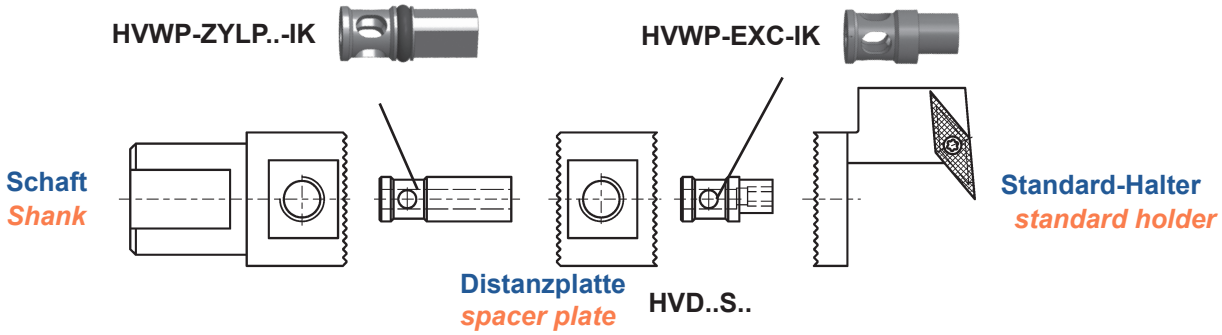
Insert holders on shanks with deeper slots for the screws can be disassembled without unscrew the shank.

Zusammenbau — *Assembling*

Schaft + Standard-Halter
Shank + standard holder



Schaft + Distanzplatte + Standard-Halter
Shank + spacer plate + standard holder

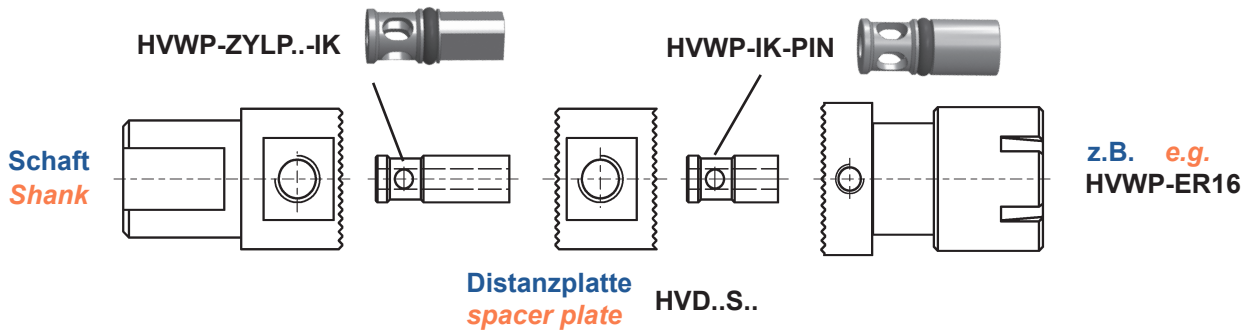


Länge muss entsprechend der Höhe der Distanzplatte gewählt werden (z. B. / *e. g.* HVD20S <===> HVWP-ZYLP20-IK)

HVWP-ZYLP..-IK

Length must be elected by height of spacer plate

Schaft + Distanzplatte + Kopf ohne Exzenterverstellung
Shank + spacer plate + holder without eccentric bolt



Ob ein Schaft oder eine Distanzplatte einen Kühlmittelanschluss hat oder nicht, macht für den Zusammenbau keinen Unterschied.

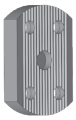
There is no difference in assembling a shank or spacer plate with or without coolant

Übersicht — *Overview*

	ab Seite - *from page*
Schäfte und Grundhalter - *shanks and base holders*	24
Distanzplatten - *spacer plates*	26
Bolzen / Exzenterbolzen - *bolts / eccentric bolts*	26
Mehrfachhalter - *multiple holders*	27
Halter für SPINNER-Linearmaschinen - *holder for SPINNER-machines*	30
Halter für Platten . . . - *holders for inserts . . .*	
BIMU-040 / BIMU-400 X	31
APPLITEC TOP 73 / 74 X ; TOP 75 / 76 X	32
APPLITEC ECO 25 / 26 X	32
APPLITEC 33 / 34 X	32
Gewindeschneidplatten - ***threading inserts*** 16ER-xx / 16EL-xx	33
TC . . 1102 / 1103	33
CC . . 0602 / 09T3	34
DC . . 0602 / 0702	34
VB / C / P . . 1102 / 1103	35
Halter für Vierkant-Wendeplattenhalter . . . - *holders for insert tool holders . . .*	38
Zangenspannfutter - *collet holders*	38
Halter für MICRO TURN Schneideinsätze - *holders for cutting inserts*	39
Halter für PICCO Schneideinsätze - *holders for ISCAR PICCO-CUT cutting inserts*	39
Halter für HORN Schneideinsätze - *holders for HORN cutting inserts*	40
Halter für FRIZZ Schneideinsätze - *holders for FRIZZ cutting inserts*	40

Ersatzteile

Spare Parts

Teile *parts*		Bestell-Nr. (Bezeichnung) *order-no. (description)*	für . . . *for . . .*
Exzenterbolzen *eccentric bolt*		HVWP-EXC-IK	**div.** *various*
Justierbolzen zyl. *adjusting pin zyl.*		HVWP-IK-PIN20	**div. Halter ohne Exzenterbolzen** *various holders without eccentric bolt*
Justierbolzen prism. *adjusting pin prismatic*		HVWP-ZYLP..-IK	**HVD . . S**
Justierbolzen Ø 16 *adjusting pin Ø 16*		HVWP-ZYLCH-IK	**HVWP-CH . . .**
Dichtplatte *sealing plate*		HVD-DP-SPI	**HVD3266SPI-ZG**
Dichtbolzen *sealing pin*		HVD-DB-SPI	**HVD3266SPI-ZG**
Kugeldüse *Nozzle*		HVWP-KD055	**HVWP-1212IK / HVWP-1212IK-SPI**
Schraube f. Düse *Screw f. Nozzle*		A98-7991-30008 (DIN 7991 - M3x6 4,8N)	**HVWP-1212IK / HVWP-1212IK-SPI**
AK-Anschluss *AK-Pin*		- A98-G1/8" (DIN 906 - G1/8") - M8 x 1	**für alle Schäfte + Distanzplatten mit AK** *for all shanks + spacer plates with AK*
O-Ring *O-Ring*		DIN 3771 - 4,9x1,3	**für alle Bolzen mit IK** *for all IK-Pins*
Passschrauben *Screw f. Holder*		(s. S. 72) *(see page 72)*	**z.B.** **HVD-X2 / XS2** *e. g.*

Schrauben für Wendeplatten

Screws for Inserts

Wendeplattentyp *insert type*	Schlüssel / Best.-Nr. *spanner / order-no.*	Schraube / Best.-Nr. *screw / order-no.*
16ER-xx / 16EL-xx	T9	A12-W6030082
CC .. 0602..	T8	A12-W6025060
CC .. 09T3..	T15	A12-W6040108
DC .. 0702..	T8	A12-W6025060
DC .. 11T3..	T15	A12-W6040108
TC/TP .. 1102/1103..	T8	A12-W6030082*
VB .. 1102/1103..	T8	A12-W6025060
VC .. 1103..	T8	A12-W6025060

Wendeplattentyp *insert type*	Schlüssel / Best.-Nr. *spanner / order-no.*	Schraube / Best.-Nr. *screw / order-no.*
VC .. 1303..	T9	A12-W6030100
VP .. 10..	T8	A12-W6025060
BIMU-040	T8	A12-W6025060
BIMU-400 X	T9	A12-W6030082
APPLITEC TOP 73 / 74 X	T8	A12-W4530070
APPLITEC TOP 75 / 76 X	T15	A12-W4540089
APPLITEC ECO 25 / 26 X	T15	A12-W4540089
APPLITEC 33 / 34 X	T8	A12-W6025078

Alle Schrauben für Wendeplattenhalter s. S. 72
All screws for insert holders see page 72

*** Ältere Ausführungen können abweichen**
*** *older versions may differ***

Höhenverstellbare Wendeplattenhalter Schäfte

Height Adjustable Holders Shanks

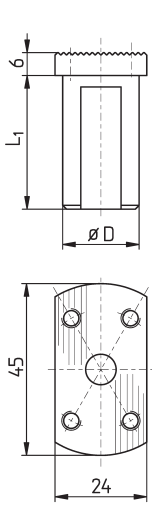


Bild 1

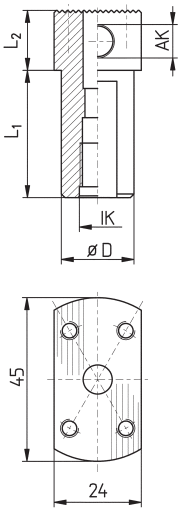


Bild 2

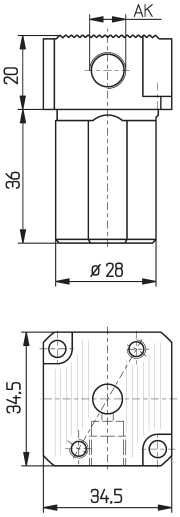


Bild 3

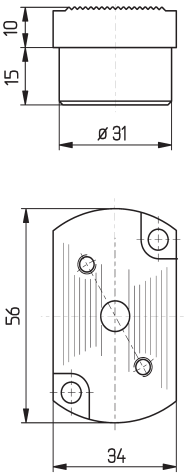


Bild 4

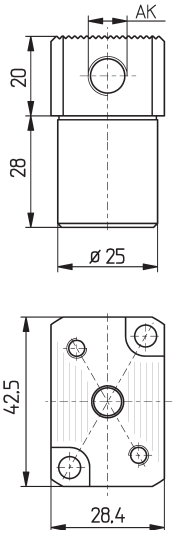


Bild 5



Standardschaft
Standard shank



Standardschaft mit innerer Kühlmittelzufuhr (AK / IK)
Standard shank with inner coolant (AK / IK)

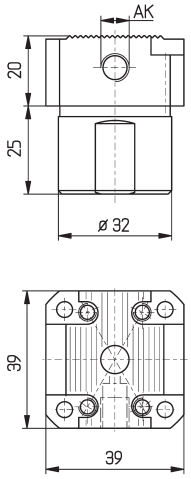


Bild 6

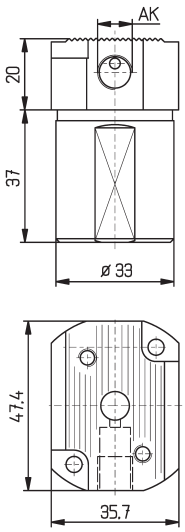


Bild 7

Artikel.-Nr. *article-no.*	D	L_1	L_2	Bild *picture*	AK	IK	Maschine machine
HVD1660	16	60		1	--	--	
HVD1960	3/4"	60		1	--	--	CITIZEN L20/C16/M16
HVD2060	20	60		1	--	--	CITIZEN B12
HVD2060-AK1	20	60	12	2	G1/8"	M12x1,5	
HVD2080	20	80		1	--	--	
HVD20125	20	120		1	--	--	TORNOS DECO
HVD2270	22	70		1	--	--	STAR TORNOS Gamma 20
HVD2270-AK2	22	70	10	2	M8x1	M12x1,5	STAR TORNOS Gamma 20
HVD22100	22	100		1	--	--	
HVD2528CIT-AK2	25	30		5	M8x1	--	CITIZEN L20X / L20XII
HVD2560	25	60		1	--	--	CITIZEN L20 - HANWHA STL32/35H, STL33/35J
HVD2560-IK	25	60		1		G1/8"	
HVD2560-AK1	25	60	12	2	G1/8"	M12x1,5	CITIZEN L20 - HANWHA STL32/35H, STL33/35J
HVD25100	25	100		1	--	--	MANURHIN
HVD25120	25	120		1	--	--	TORNOS DECO
HVD2670	1"	70		1	--	--	CITIZEN M32/C32/L32
HVD2836CT20-AK1	28	36		3	G1/8"	--	TORNOS CT20
HVD2885	28	85		1	--	--	TRAUB TNL 12/16
HVD2885-AK1-TRAUB	28	85	13	2	G1/8"	M12x1,5	TRAUB TNL 12/16 mit direkter Kühlmittelzuf.
HVD2885IKWDAK1	28	85	13	2	G1/8"	M12x1,5	TRAUB TNL 12/16 mit direkter Kühlmittelzuf.
HVD3115CIT	31	15		4	--	--	CITIZEN A32-VII
HVD3225HA32-AK2	32	25		6	M8x1	--	HANWHA STL38H
HVD3337HA20-AK2	33	37		7	M8x1	--	HANWHA XD20/32 H/J

AK / IK: Mit radialem / axialem Anschluss für direkte Kühlmittelzuführung an die Schneide
Weitere Schäfte mit AK auf Anfrage

AK / IK: With inner coolant, radial / axial

More shanks with inner coolant on request

Schäfte für STAR

Shanks for STAR

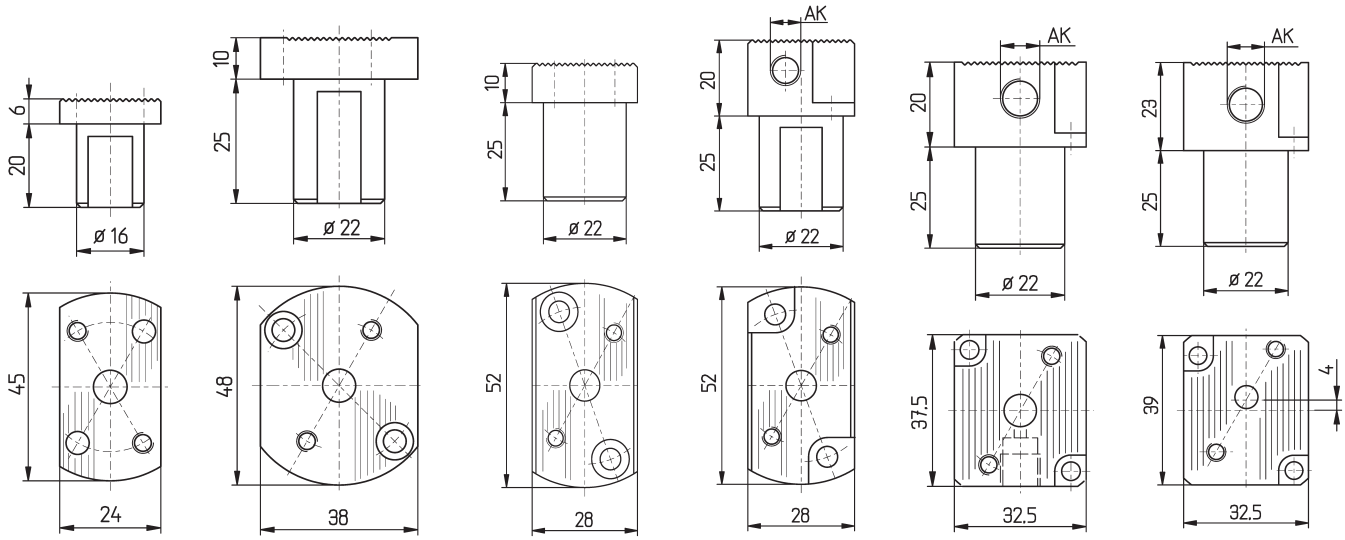


Bild 1 | Bild 2 | Bild 3 | Bild 4 # | Bild 5 # | Bild 6 # ***

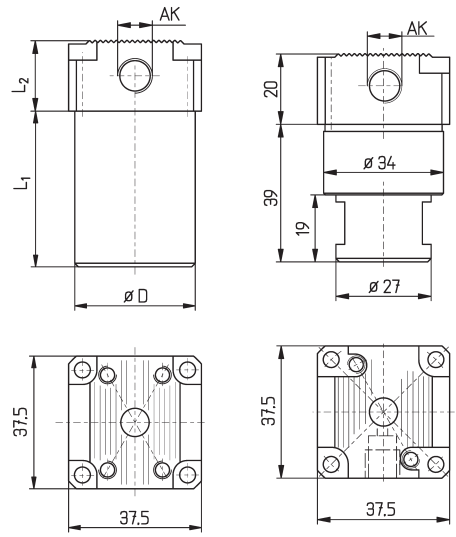


Bild 7 | Bild 8

Artikel.-Nr. *article-no.*	D	L_1	L_2	Bild *pic*	AK	Maschine machine
HVD1620SR	16	20		1	--	STAR SR16; SST16
HVD2225SR	22	25		2	--	STAR SR32
HVD2225SRR	22	25		3	--	*
HVD2225SRRWD	22	25		3	--	
HVD2225SRR-AK2 #	22	25		4	M8x1	
HVD2225SW1-AK1 #	22	25		5	G1/8"	**
HVD2225SW2-AK2 #***	22	25		6	M8x1	
HVD3045	30	45		1	--	STAR SV38R; ECAS32 MAIER
HVD3419	34	19,5	10	7	--	
HVD3419-AK1	34	19,5	20	7	G1/8"	
HVD3444	34	44	10	7	--	
HVD3444-AK1	34	44	19	7	G1/8"	
HVD34SV38	34	44		8		STAR SV38-R
HVD34SV38-AK1	34	39		8	G1/8"	

WD = mit Fläche - *with flat*

* Für STAR-Maschinen / for STAR machines:
SR10J (Position T22 / T24); SB16 / 20 Typ C / Typ E; SB20 R Typ E / Typ G / Typ N; SR20J / JN; SR20 R / II / III; SR32J / JN; ECAS12 / 20
SR20R IV (Positionen T21 - T24, verbaut - *overlaps* - T25 - T28)

** Für STAR-Maschinen / for STAR machines:
SB12R / 20R; SR20R IV; SW20; SV20R; SR32J II; SR38; SW12R II; SR20J II

 # Halter können ohne Lösen des Kopfes an- bzw. abgeschraubt werden, vgl. techn. Informationen zu Beginn des Kapitels.

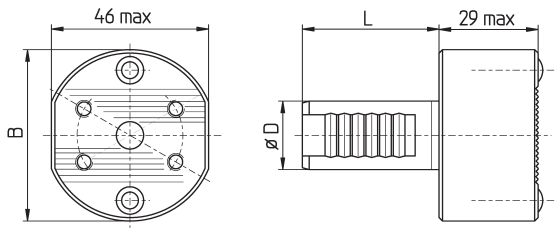
Holder can be screwed or unscrewed without removing the head, see technical information at the beginning of the chapter.

***** nicht höhenverstellbar *- 4mm außer Mitte***
Höhenverstellbarer Halter verbaut bei SR20RIV, SW20 und SB20R die Position darunter. Dieser Halter ist nach oben versetzt, um dies zu verhindern.
Höhenverstellung nur über Y-Achse.

not height adjustable - 4mm out of center
Height adjustable holder overlaps at the SR20RIV, SW20 and SB20R the position below. This holder is out of center in upper direction to prevent this problem.
Height adjustment only by Y-axis.

VDI-Schäfte DIN 69880

VDI Shanks



Artikel.-Nr. *article-no.*	D	B
HVD-V20	20	50
HVD-V25	25	

Höhenverstellbare Wendeplattenhalter Distanzplatten

Height Adjustable Holders Spacer Plates

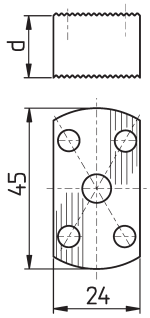


Bild 1

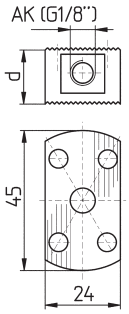


Bild 2



Artikel.-Nr. *article-no.*	d	Bild *picture*
HVD10S	10	1
HVD15S	15	1
HVD20S	20	1
HVD25S	25	1
HVD30S	30	1

Mit Kühlmittelanschluss *with inner coolant*		
HVD15S-AK1	15	2
HVD20S-AK1	20	2
HVD25S-AK1	25	2
HVD30S-AK1	30	2

Inkl. Schrauben und Bolzen HVWP-ZYLP...IK

Supplied with screws and cylindrical bolt HVWP-ZYLP...IK

Höhenverstellbare Wendeplattenhalter Bolzen / Exzenterbolzen

Height Adjustable Holders Bolts / Eccentric bolts

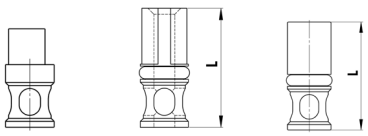


Bild 1 Bild 2 Bild 3



Artikel.-Nr. *article-no.*	L	Bild *picture*
HVWP-EXC-IK	16,5	1
HVWP-ZYLP10-IK	9,4	2
HVWP-ZYLP15-IK	14,6	2
HVWP-ZYLP20-IK	19,6	2
HVWP-ZYLP25-IK	24,6	2
HVWP-ZYLP30-IK	29,6	2
HVWP-IK-PIN20	20,0	3
HVWP-IK-PIN22	21,7	3
HVWP-IK-PIN30	27,0	3
HVD-PIN-SW20-2	21,0	

HVWP-IK-PIN20 = Standardhalter / *standard holders*
HVWP-IK-PIN22 = für / *for* HVWP-1010 + HVD3266SPI-ZG
HVWP-IK-PIN30 = für / *for* HVWP-1212
HVD-PIN-SW20-2 = für / *for* HVD2225SW2-AK2

Höhenverstellbare Wendeplattenhalter
Distanzplatten

Height Adjustable Holders
Spacer Plates

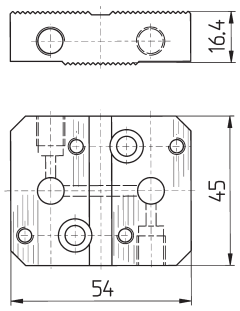


Bild 1

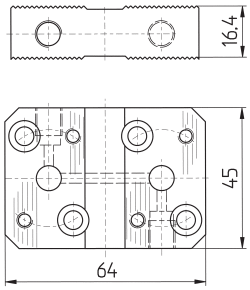
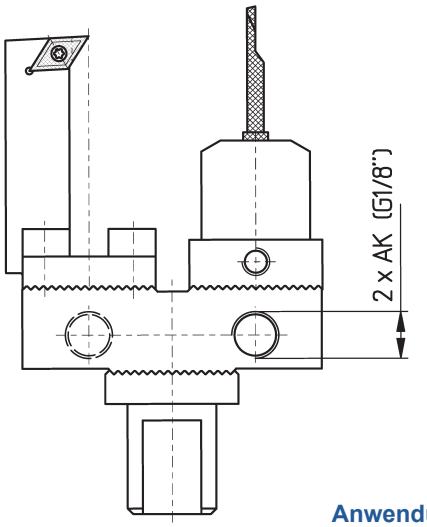


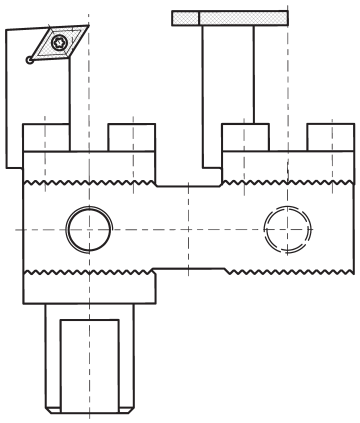
Bild 2

Artikel.-Nr. *article-no.*	Bild *picture*
HVD-XS2	1
HVD-X2	2

Anwendungsbeispiele

Samples of Applications





Anwendung rechts und links möglich - ***Application possible right and left***
Nur für AK-Anschluss - ***Only for AK-coolant***

Doppel- und Dreifachhalter für Zangenspannfutter ER11, ER16

Double and Triple Holders for Collet Holders ER 11, ER16

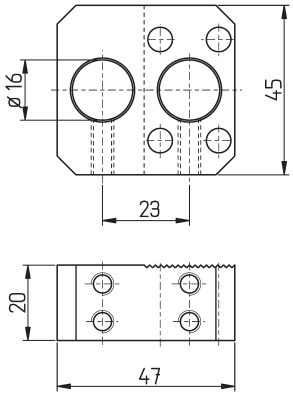


Bild 1

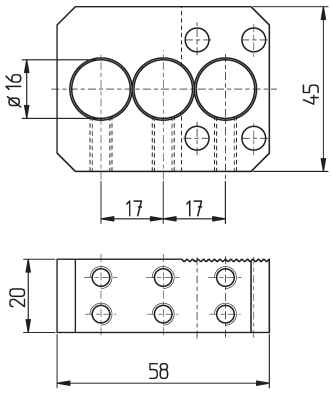
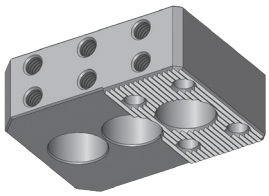


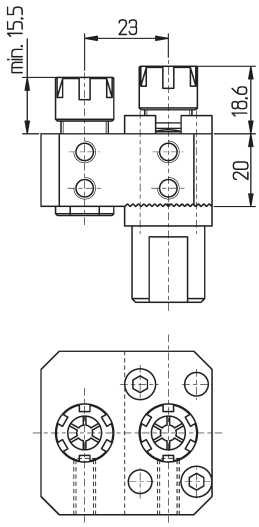
Bild 2



Artikel.-Nr. *article-no.*	Für Einsätze *for collet holders*	Bild *picture*
HVWP-CH2	EM111620, EM161620	1
HVWP-CH3-17	EM111620	2

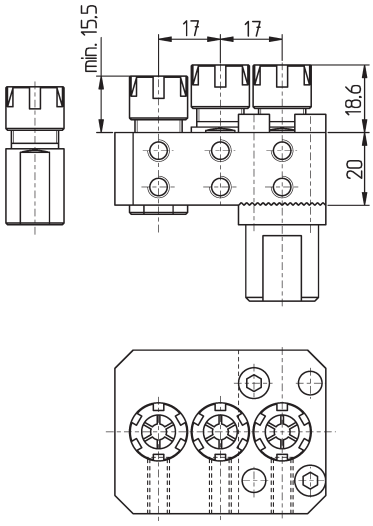
Anwendungsbeispiele

Samples of Applications



HVWP - CH2
mit 2 Einsätzen EM111620
with 2 Collet holders EM111620

auch für EM161620, RB16 ...
also for EM161620, RB16 ...



HVWP - CH3-17
mit 3 Einsätzen EM111620
with 3 Collet holders EM111620

auch für RB16 ...
also for RB16 ...

Dreifachhalter
für Zangenspannfutter ER11, ER16
und höhenverstellbare Wendeplattenhalter

Triple Holders
for Collet Holders ER 11, ER16
and Height Adjustable Insert Holders

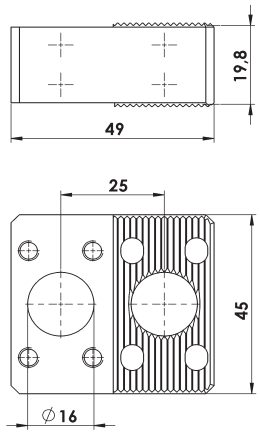


Bild 1

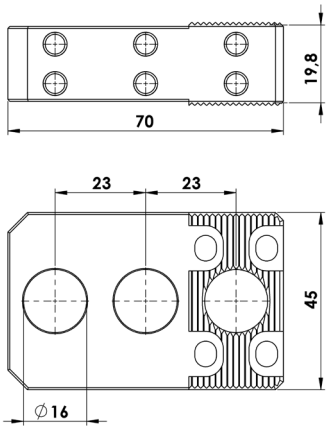


Bild 2

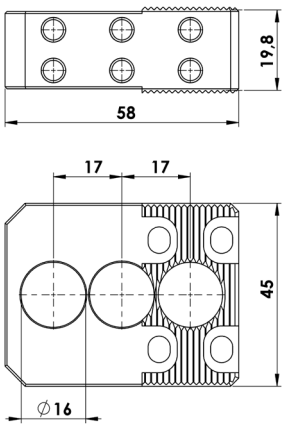


Bild 3

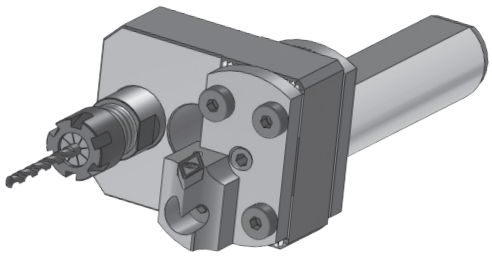
Artikel.-Nr. *article-no.*	Für Einsätze *for tool- and collet holders*	Bild *picture*
HVWP-CH2-VZ	HVWP, EM111620, EM161620	1
HVWP-CH3-VZ	HVWP, EM111620, EM161620	2
HVWP-CH3-17-VZ	HVWP, EM111620	3

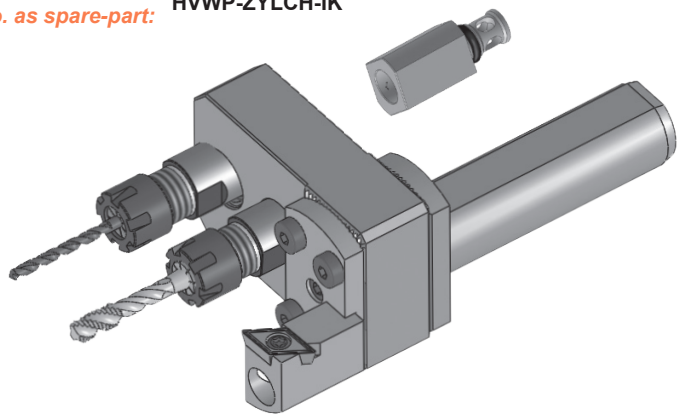
Anwendungsbeispiele

Samples of Applications

Inkl. Justierbolzen
Supplied with adjustment bolt

Best.-Nr. als Ersatzteil: **HVWP-ZYLCH-IK**
Order-no. as spare-part:





HVWP-CH3-17-VZ
z. B. mit Einsatz EM111620 + HVWP-SVUCR11
e. g. with Collet holder EM111620
+ HVWP-SVUCR11

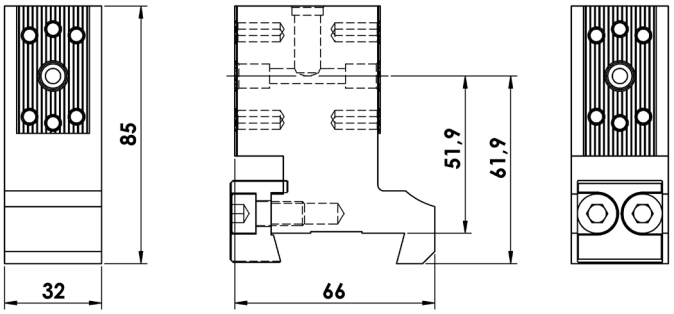
auch für EM161620, RB16 ...
also for EM161620, RB16 ...

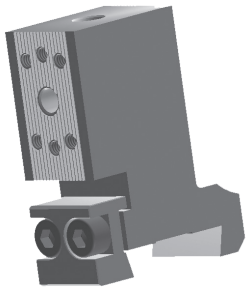
HVWP-CH3-VZ
z. B. mit Einsatz EM111620 + HVWP-SVJCR11
e. g. with Collet holder EM111620
+ HVWP-SVJCR11

auch für EM161620, RB16 ...
also for EM161620, RB16 ...

Grundhalter für SPINNER-Lineardrehmaschinen

Base Holder for SPINNER-Machines





Aufsätze höhenjustierbar

Top parts height adjustable

Halter + Klemmstück - *Holder + Clamping Part*
Artikel.-Nr. *article-no.*
HVD3266SPI-ZG

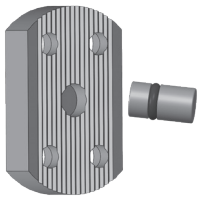
Anwendungsbeispiel

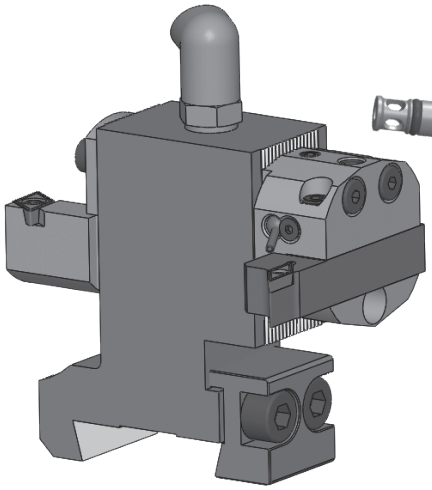
Sample of Application

Incl. Dichtplatte und -bolzen für einseitigen Einsatz und IK-Bolzen für HVWP-1212IK-SPI
Supplied with sealing-plate and -pin for one-sided use and IK-pin for HVWP-1212IK-SPI

Als Ersatzteile:
As spare-parts:

	Artikel.-Nr. *article-no.*
Platte / *plate*	HVD-DP-SPI
Dichtbolzen / *sealing pin*	HVD-DB-SPI
IK-Bolzen / *IK-pin*	HVD-IK-PIN





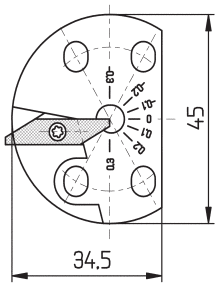
AK-Anschluss
coolant adapter

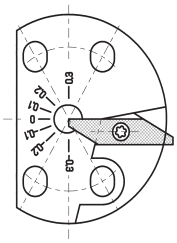
z. B. Wendeplattenhalter HVWP-SVJCR11
e.g. Insert Tool Holder HVWP-SVJCR11

z. B. Aufnahme für Wendeplattenhalter HVWP-1212IK-SPI
e.g. Mounting for Insert Tool Holder HVWP-1212IK-SPI

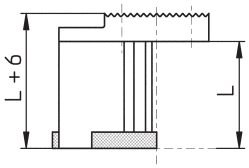
Höhenverstellbare Wendeplattenhalter
für BIMU-040 - Platten

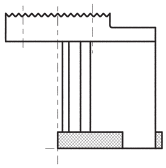
Height Adjustable Holders
for* BIMU-040 *Inserts











Ausführung links
Version left

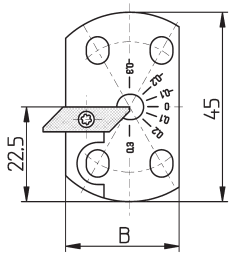
Ausführung rechts
Version right

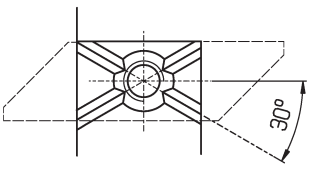
Artikel.-Nr. *article-no.*	Ausf. type	Platten *inserts*	L
HVWP-BI040R	rechts - *right*	BIMU-040	23
HVWP-BI040L	links - *left*	BIMU-040	23

Schraube / *screw*:	Schlüssel / *spanner*:
A12-W6025060	T8

für BIMU-400 X Platten

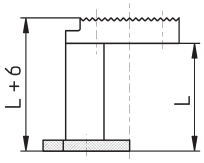
for BIMU-400 X *Inserts*





BIMU-400 X Plattensitz





Ausführung links
Version left

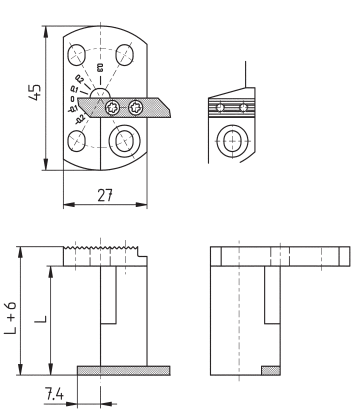
Artikel.-Nr. *article-no.*	Ausf. type	Platten *inserts*	B	L
HVWP-BIX-R	rechts - *right*	BIMU-400 X	27,5	23
HVWP-BIX-L	links - *left*	BIMU-400 X	27,5	23
HVWPL-BIX-R	rechts - *right*	BIMU-400 X	32	40
HVWPL-BIX-L	links - *left*	BIMU-400 X	32	40

Schraube / *screw*:	Schlüssel / *spanner*:
A12-W6030082	T9

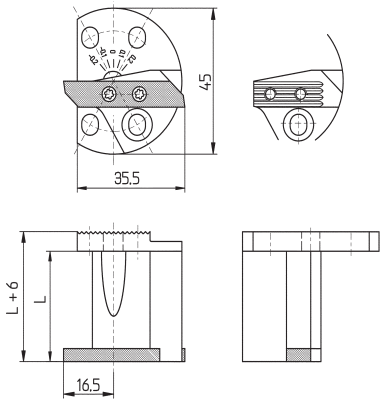
Höhenverstellbare Wendeplattenhalter
für APPLITEC - Wendeplatten

Height Adjustable Holders
for APPLITEC - inserts

TOP - Line



HVWP-APL-TOP740-R



HVWP-APL-TOP760-R

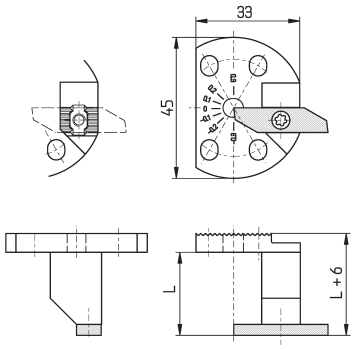
Artikel.-Nr. *article-no.*	L	Für Schneidplatten Serie *for insert series*
HVWP-APL-TOP740-R	26	TOP 74X
HVWP-APL-TOP730-L	26	TOP 73X
HVWPL-APL-TOP740-R	43	TOP 74X
HVWPL-APL-TOP730-L	43	TOP 73X

Schraube / *screw*:	Schlüssel / *spanner*:
A12-W4530070	T9

HVWP-APL-TOP750-L	27	TOP 75X
HVWP-APL-TOP760-R	27	TOP 76X
HVWPL-APL-TOP750-L	44	TOP 75X
HVWPL-APL-TOP760-R	44	TOP 76X

Schraube / *screw*:	Schlüssel / *spanner*:
A12-W4540090	T15

ECO - Line

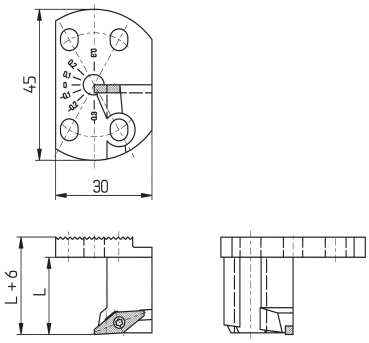


HVWP-APL-ECO260-R

Artikel.-Nr. *article-no.*	L	Für Schneidplatten Serie *for insert series*
HVWP-APL-ECO260-R	23	ECO 26X
HVWP-APL-ECO250-L	23	ECO 25X
HVWPL-APL-ECO260-R	40	ECO 26X
HVWPL-APL-ECO250-L	40	ECO 25X

Schraube / *screw*:	Schlüssel / *spanner*:
A12-W4540090	T15

300 - Line



HVWP-APL-340

Artikel.-Nr. *article-no.*	L	Für Schneidplatten Serie *for insert series*
HVWP-APL-340-R	22,5	34X
HVWP-APL-330-L	22,5	33X
HVWPL-APL-340-R	40	34X
HVWPL-APL-330-L	40	33X

Schraube / *screw*:	Schlüssel / *spanner*:
A12-W6025078	T8

Höhenverstellbare Wendeplattenhalter
für Gewindeplatten 16ER

Height Adjustable Holders
for Threading Inserts 16ER

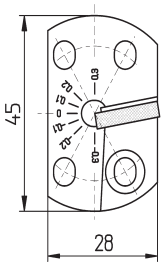


Bild 1
(Ausführung rechts)
(Version right)

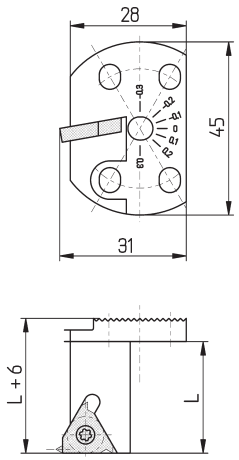


Bild 2
(Ausführung rechts außen)
(Version right external)



Ausführung links - *version left*

Artikel.-Nr. *article-no.*	Ausf. type	Winkel angle	L	Bild *picture*
HVWP-16ER-0	rechts - *right*	0°	31	1
HVWP-16ER-15	rechts - *right*	1,5°	31	1
HVWP-16ER-3	rechts - *right*	3°	31	1
HVWPL-16ER-0	rechts - *right*	0°	40	1
HVWPL-16ER-15	rechts - *right*	1,5°	40	1
HVWPL-16ER-3	rechts - *right*	3°	40	1
HVWPA-16ER-0	rechts - *right*	0°	31	2
HVWPA-16ER-15	rechts - *right*	1,5°	28	2
HVWPA-16ER-3	rechts - *right*	3°	31	2
HVWPLA-16ER-15	rechts - *right*	1,5°	40	2
HVWPL-16EL-15 für Linksgewinde *for left hand thread*	links - *left*	1,5°	40	--

Schraube / *screw*:	Schlüssel / *spanner*:
A12-W6030100	T9

Platten - ***inserts:*** 16ER/L ISO

Steigungswinkel berechnen:

$$\text{Steigungswinkel} = \frac{\text{20 x Gewindesteigung}}{\text{Gewindedurchmesser}}$$

Häufigste Anwendung ist 1,5°

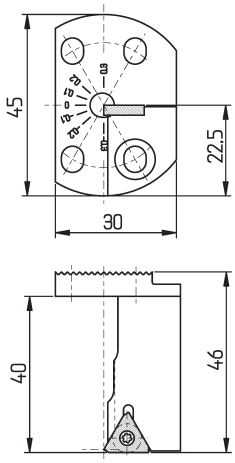
pitch angle evaluation:

$$\textit{pitch angle} = \frac{\textit{20 x pitch of thread}}{\textit{diameter of thread}}$$

Most common is 1,5°

Höhenverstellbare Wendeplattenhalter
Typ STJC, STJP

Height Adjustable Holders
Type STJC, STJP



Ausführung rechts
Version right

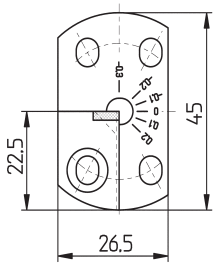


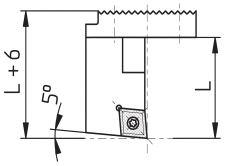
Ausführung links - *version left*

Artikel.-Nr. *article-no.*	Ausf. type	Platten *inserts*	L	Schlüssel *spanner*	Schraube *screw*
HVWPL-STJCR1102	rechts - *right*	TC..1102..	40	T8	A12-W6025060
HVWPL-STJCL1102	links - *left*	TC..1102..	40	T8	A12-W6025060
HVWPL-STJCR1103	rechts - *right*	TC..1103..	40	T8	A12-W6025060
HVWPL-STJCL1103	links - *left*	TC..1103..	40	T8	A12-W6025060
HVWPL-STJPL1102	links - *left*	TP..1102..	40	T8	A12-W6025060
HVWPL-STJPL1103	links - *left*	TP..1103..	40	T8	A12-W6025060
HVWPL-STJPR1102	rechts - *right*	TP..1102..	40	T8	A12-W6025060
HVWPL-STJPR1103	rechts - *right*	TP..1103..	40	T8	A12-W6025060

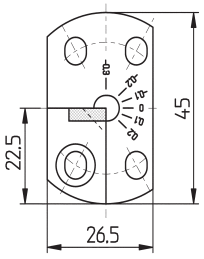
Höhenverstellbare Wendeplattenhalter Typ SCLC

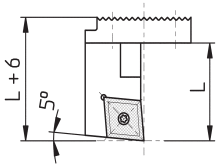
Height Adjustable Holders Type SCLC





SCLCL06 (Ausführung links) *(Version left)*





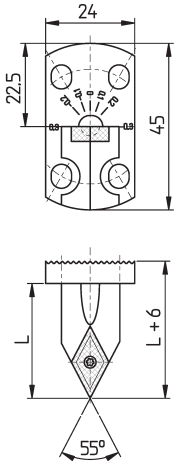
SCLCL09 (Ausführung links) *(Version left)*



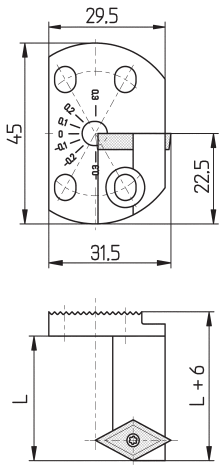
Artikel.-Nr. *article-no.*	Ausf. type	Platten *inserts*	L	Schlüssel *spanner*	Schraube *screw*
HVWP-SCLCR06	rechts - *right*	CC..0602..	23	T8	A12-W6025060
HVWP-SCLCL06	links - *left*	CC..0602..	23	T8	A12-W6025060
HVWP-SCLCR09	rechts - *right*	CC..09T3..	23	T15	A12-W6040108
HVWP-SCLCL09	links - *left*	CC..09T3..	23	T15	A12-W6040108
HVWPL-SCLCR09	rechts - *right*	CC..09T3..	39	T15	A12-W6040108

Typ SDNC

Type SDNC



SDNCN11



SDNCR11 (Ausführung rechts) *(Version right)*

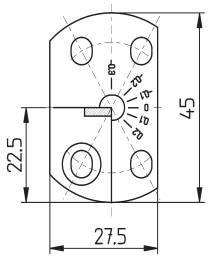


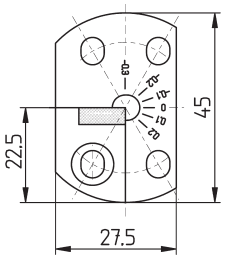
Artikel.-Nr. *article-no.*	Ausf. type	Platten *inserts*	L
HVWP-SDNCN11	mittig - *centered*	DC..11T3..	30
HVWP-SDNCR11	rechts - *right*	DC..11T3..	30
HVWPL-SDNCR11	rechts - *right*	DC..11T3..	40

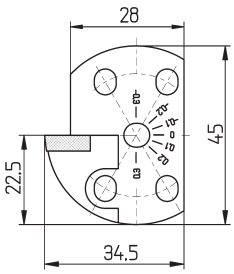
Schraube / *screw*:	Schlüssel / *spanner*:
A12-W6040108	T15

Typ SDJC

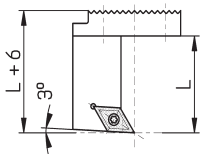
Type SDJC



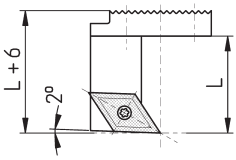




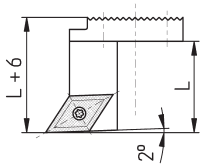




SDJCL07
(Ausführung links)
(Version left)



SDJCL11
(Ausführung links)
(Version left)

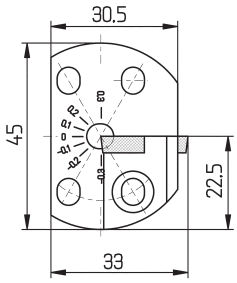


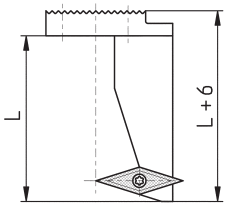
HVWPA-SDJCR11
(Ausführung rechts außen)
(Version right external)

Artikel.-Nr. *article-no.*	Ausf. *type*	Platten *inserts*	L	Schlüssel *spanner*	Schraube *screw*
HVWP-SDJCR07	rechts - *right*	DC..0702..	23	T8	A12-W6025060
HVWP-SDJCL07	links - *left*	DC..0702..	23	T8	A12-W6025060
HVWPL-SDJCR07	rechts - *right*	DC..0702..	40	T8	A12-W6025060
HVWPL-SDJCL07	links - *left*	DC..0702..	40	T8	A12-W6025060
HVWP-SDJCR11	rechts - *right*	DC..11T3..	23	T15	A12-W6040108
HVWP-SDJCL11	links - *left*	DC..11T3..	23	T15	A12-W6040108
HVWPL-SDJCR11	rechts - *right*	DC..11T3..	40	T15	A12-W6040108
HVWPL-SDJCL11	links - *left*	DC..11T3..	40	T15	A12-W6040108
HVWPA-SDJCR11	rechts - *right*	DC..11T3..	23	T15	A12-W6040108
HVWPA-SDJCL11	links - *left*	DC..11T3..	23	T15	A12-W6040108

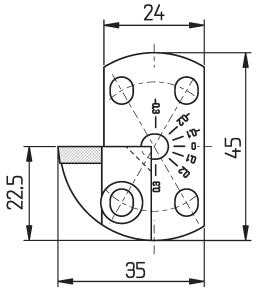
Typ SVNC

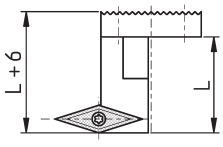
Type SVNC



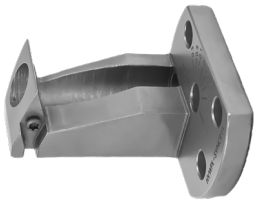


SVNCR11
(Ausführung rechts)
(Version right)





HVWPA-SVNCR11
(Ausführung rechts außen)
(Version right external)

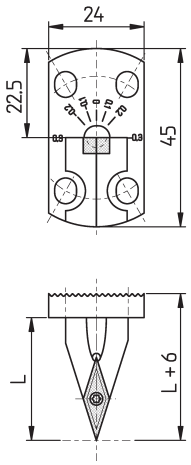


Artikel.-Nr. *article-no.*	Ausf. type	Platten *inserts*	L
HVWPL-SVNCR11	rechts - *right*	VC..1103..	40
HVWPL-SVNCL11	links - *left*	VC..1103..	40
HVWPA-SVNCR11	rechts - *right*	VC..1103..	23
HVWPA-SVNCL11	links - *left*	VC..1103..	23

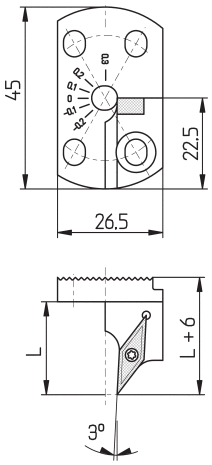
Schraube / *screw*:	Schlüssel / *spanner*:
A12-W6025060	T8

Typ SVVC, SVUC

Type SVVC, SVUC



SVVCN11



SVUCR11
(Ausführung rechts)
(Version right)

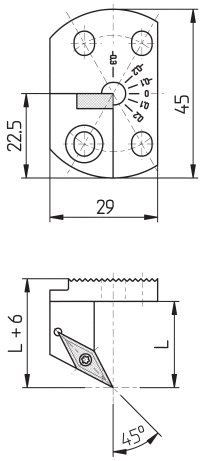


Artikel.-Nr. *article-no.*	Ausf. *type*	Platten *inserts*	L
HVWP-SVVCN11	neutral - *centered*	VC..1103..	31
HVWP-SVUCR11	rechts - *right*	VC..1103..	22
HVWP-SVUCL11	links - *left*	VC..1103..	23
HVWPL-SVUCR11	rechts - *right*	VC..1103..	40

Schraube / *screw*:	Schlüssel / *spanner*:
A12-W6025060	T8

Typ SVQC

Type SVQC



Ausführung links
Version left

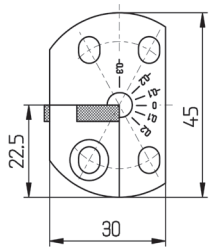


Artikel.-Nr. *article-no.*	Ausf. *type*	Platten *inserts*	L
HVWP-SVQCR11	rechts - *right*	VC..1103..	22
HVWP-SVQCL11	links - *left*	VC..1103..	23
HVWPL-SVQCR11	rechts - *right*	VC..1103..	39
HVWPL-SVQCL11	links- *left*	VC..1103..	39

Schraube / *screw*:	Schlüssel / *spanner*:
A12-W6025060	T8

Typ SVJB, SVJC, SVJP, SVZC

Type SVJB, SVJC, SVJP, SVZC



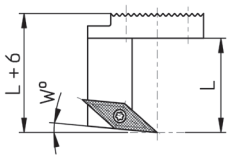
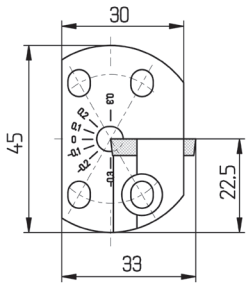


Bild 1

SVJCL11
(Ausführung links)
(Version left)



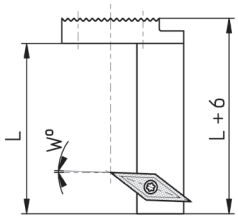


Bild 2

SVZCR11
(Ausführung rechts)
(Version right)



Artikel.-Nr. *article-no.*	Bild *picture*	Ausf. type	Platten *inserts*	L	W°	Schlüssel *spanner*	Schraube *screw*
HVWP-SVJBR11	1	rechts - *right*	VB..1103..	23	5	T8	A12-W6025060
HVWP-SVJBL11	1	links - *left*	VB..1103..	23	5	T8	A12-W6025060
HVWPM-SVJBR1102	1	rechts - *right*	VB..1102..	31	5	T8	A12-W6025060
HVWP-SVJBR1102	1	rechts - *right*	VB..1102..	23	5	T8	A12-W6025060
HVWP-SVJCR11	1	rechts - *right*	VC..1103..	23	5	T8	A12-W6025060
HVWP-SVJCL11	1	links - *left*	VC..1103..	23	5	T8	A12-W6025060
HVWPM-SVJBR11	1	rechts - *right*	VC..1103..	31	5	T8	A12-W6025060
HVWPM-SVJBL11	1	links - *left*	VC..1103..	31	5	T8	A12-W6025060
HVWPL-SVJBR11	1	rechts - *right*	VC..1103..	40	5	T8	A12-W6025060
HVWPL-SVJBL11	1	links - *left*	VC..1103..	40	5	T8	A12-W6025060
HVWPL-SVJCR11	1	rechts - *right*	VC..1103..	40	5	T8	A12-W6025060
HVWPL-SVJCL11	1	links - *left*	VC..1103..	40	5	T8	A12-W6025060
HVWPL-SVJPR10	1	rechts - *right*	VPGT10..	40	3	T8	A12-W6025060
HVWPA-SVJCR13 *	1	rechts - *right*	VC..1303..	23	2	T9	A12-W6030082
HVWPL-SVZCR11	2	rechts - *right*	VC..1103..	40	2	T8	A12-W6025060

* **Ausführung außen** - *version external*

Höhenverstellbare Werkzeugsysteme
Aufnahme für Wendeplattenhalter 10 x 10 und 12 x 12

Height Adjustable Holders
Mounting for Insert Tool holders 10 x 10 and 12 x 12

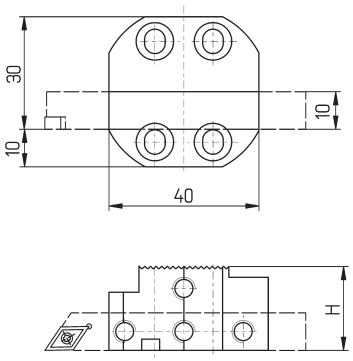


Bild 1 R + L + überkopf einsetzbar
Useable r., l. + overhead

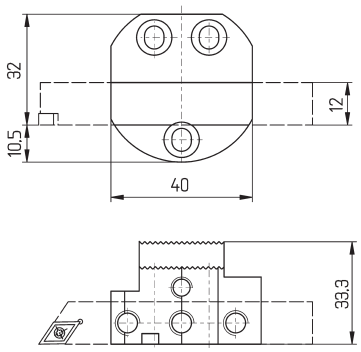
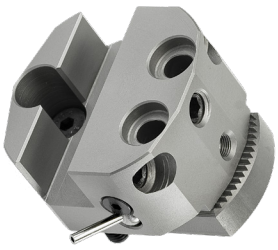


Bild 2: R + L + überkopf einsetzbar
Useable r., l. + overhead



Ausführung *version* **HVWP-1212IK**

HVWP-1010 ohne IK *without IK*

Artikel-Nr. *article-no.*	Für Schaft *for shank*	H	Bild *picture*
HVWP-1010	10 x 10	22	1
HVWP-1010IK	10 x 10	24,5	1
HVWP-1212IK	12 x 12		2
HVWP-1212IK-SPI für - *for* HVD3266SPI-ZG vgl. S. 239 - *see page 239*	12 x 12		2*

* ohne Adapterplatte - *without adapter plate*

Höhenverstellbare Werkzeugsysteme
Zangenspannfutter ER 11, ER16

Height Adjustable Holders
Collet Holders ER 11, ER16

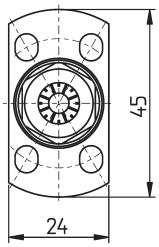


Bild 1

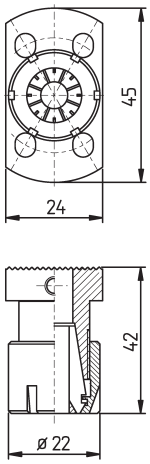
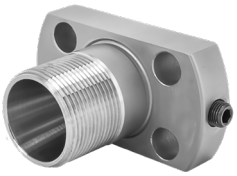


Bild 2

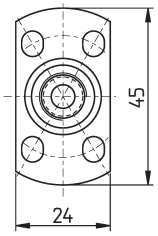


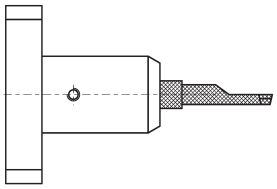


Artikel.-Nr. *article-no.*	Ausf. / Spannbereich type / range	Bild *picture*
HVWP-ER11	ER11 / 0,5-7mm	1
HVWP-ER16	ER16 / 1-10mm	2

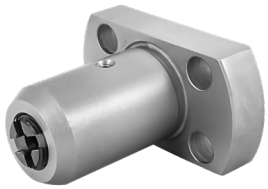
Höhenverstellbare Werkzeugsysteme
MICRO TURN- Halter System Ifanger

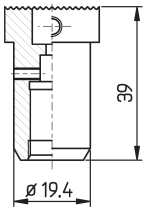
Height Adjustable Holders
MICRO TURN- Holder System Ifanger





Anwendungsbeispiel
Sample of application





Artikel.-Nr. *article-no.*	Für Schaft *for shank*
HVWP-IF4	Ifanger 4mm
HVWP-IF6	Ifanger 6mm

Höhenverstellbare Werkzeugsysteme
for ISCAR PICCO CUT / Dümmel

Height Adjustable Holders
for ISCAR PICCO CUT Inserts / Dümmel

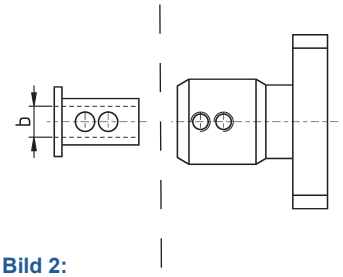
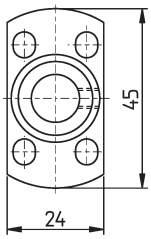


Bild 2:

Einsätze mit Bohrungs-Ø
d = 3 - 10 mm
Sleeves with
bore-Ø d = 3 - 10 mm



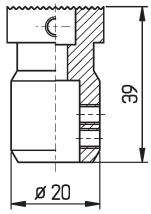


Bild 1:
Halter - ***holder***

Halter - Bild 1 *holder - picture 1*
Artikel.-Nr. *article-no.*
HVWP-PICCO

Einsatz - Bild 2 *sleeves - picture 2*	
Artikel.-Nr. *article-no.*	**d**
RB12-4-PICCO	4
RB12-5-PICCO	5
RB12-6-PICCO	6
RB12-7-PICCO	7
RB12-8-PICCO	8

Die PICCO-Einsätze sind auch für Bohrstangenaufnahmen "PICCO" einsetzbar - s. Katalog "Reduzierhülsen"
PICCO-sleeves are also used for boring bar sleeves - see catalog "reduction sleeves"

Höhenverstellbare Werkzeugsysteme
Halter für HORN Schneideinsätze
Typ105 + 105 mit verlängertem Spannschaft

Height Adjustable Holders
Holders for HORN Inserts
Type 105 + 105 with Extended Clamping Shank

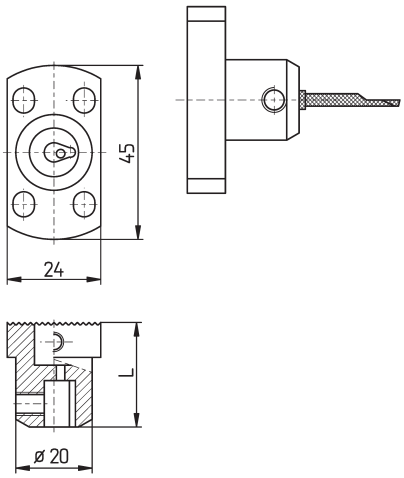


Bild 1

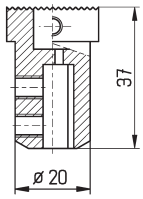
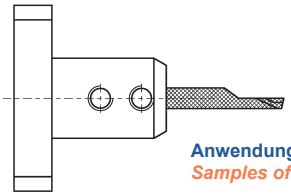


Bild 2

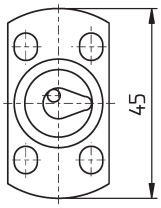


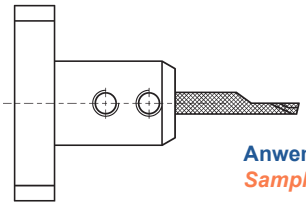
Anwendungsbeispiele
Samples of applications

Artikel.-Nr. *article-no.*	L	Für Schneideinsatz Typ *for insert type*	Bild *picture*
HVWP-H105K	25	105	1
HVWP-H105	34	105	2
HVWP-H105L	37	105 verlängert	2

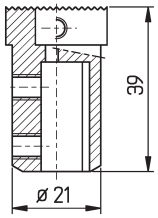
Typ 110

Type 110





Anwendungsbeispiel
Sample of applications



Artikel.-Nr. *article-no.*	Für Schneideinsatz Typ *for insert type*
HVWP-H110	110

Höhenverstellbare Werkzeugsysteme
für FRIZZ Mini Vollhartmetall Werkzeuge

Height Adjustable Holders
for FRIZZ Mini Solid Carbide Tools

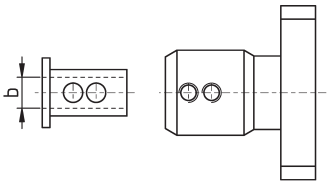


Bild 2:

Einsätze mit Bohrungs-Ø
d = 3 - 10 mm
Sleeves with
bore-Ø d = 3 - 10 mm

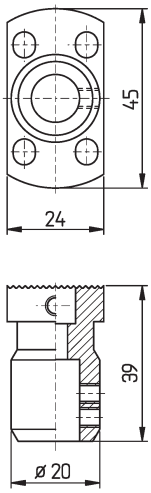


Bild 1:

Halter - ***holder***

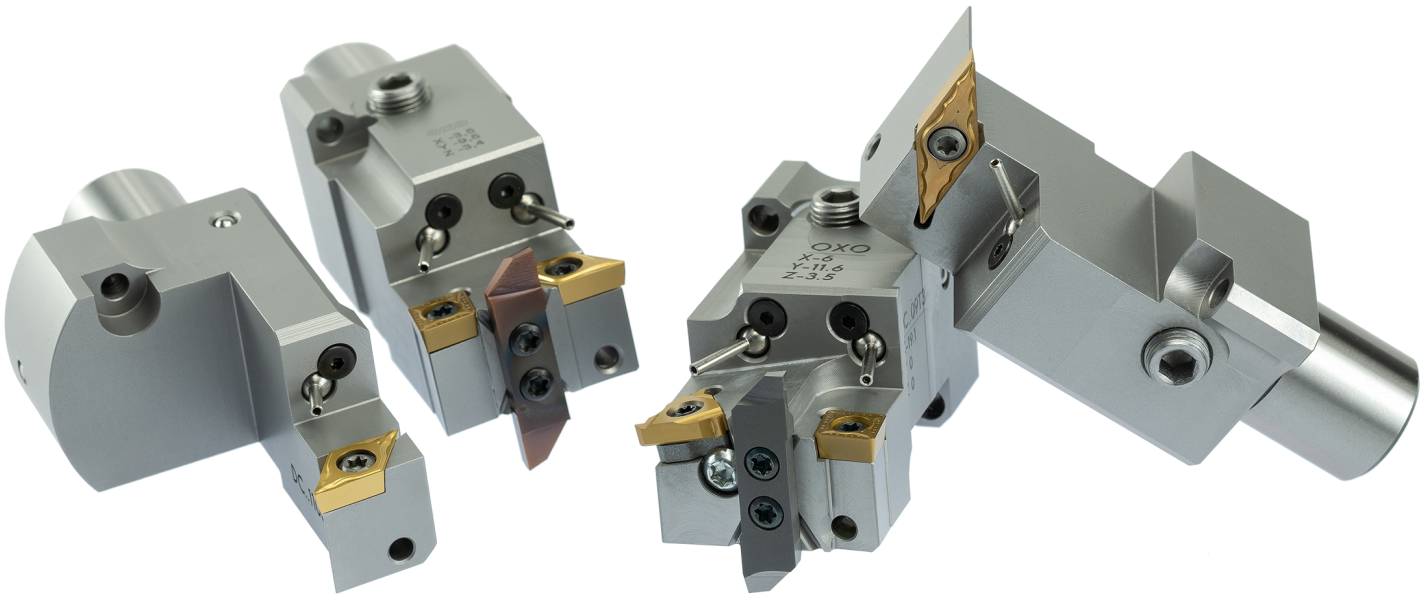
Halter - Bild 1 *holder - picture 1*
Artikel.-Nr. ***article-no.***
HVWP-FRIZZ

Einsatz - Bild 2 *sleeves - picture 2*	
Artikel.-Nr. ***article-no.***	**d**
RB12-3-FRIZZ	3
RB12-4-FRIZZ	4
RB12-5-FRIZZ	5
RB12-6-FRIZZ	6
RB12-7-FRIZZ	7
RB12-8-FRIZZ	8
RB12-10-FRIZZ	10

Die FRIZZ-Einsätze sind auch für Bohrstangenaufnahmen "PICCO" einsetzbar - s. Katalog "Reduzierhülsen"
FRIZZ-sleeves are also used for boring bar sleeves - see catalog "reduction sleeves"

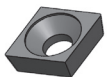
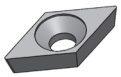
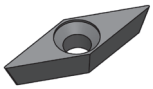
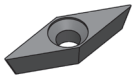
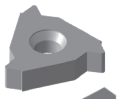
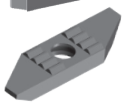
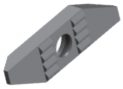
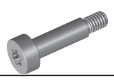
Wendeplattenhalter für Rückseitenbearbeitung

Insert Holders for Backworking



Wendeplattenhalter für Rückseitenbearbeitung
Ersatzteile

Insert Holder for Backworking
Spare Parts

Teile *Parts*		Platten *Inserts*	Schrauben *Screws*	Schlüssel *Spanner*	für Halter *for Holder*
		CC..09T3	A12-W6040082	T15	**WP-STAR-SCLCR09-SW/SWIK** **WP-STAR-SCLCR09-SDUCL11-OXOSW/SWIK** **WP-STAR-SCLCR09-SDUCL11-ECOSW/SWIK** **WP-STAR-SCLCR09-SVUCL11-OXOSW/SWIK** **WP-STAR-SCLCR09-SVUCL11-ECOSW/SWIK** **WP-STAR-ER16-SCLCL09-OXOSW/SWIK** **WP-STAR-ER16-SCLCL09-ECOSW/SWIK**
		DC..11T3	A12-W6040082	T15	**WP-STAR-SDUCR11-SW/SWIK** **WP-STAR-SCLCR09-SDUCL11-OXOSW/SWIK** **WP-STAR-SCLCR09-SDUCL11-ECOSW/SWIK** **WP-STAR-SVQCR11-SDUCL11-OXOSW/SWIK** **WP-STAR-SVQCR11-SDUCL11-ECOSW/SWIK**
		VB..1604	A12-W6040082	T15	**WP-STAR-SVUBR16-SW/SWIK**
		VC..1103	A12-W6025060	T8	**WP-STAR-SVUCR11-SW/SWIK** **WP-STAR-SCLCR09-SVUCL11-OXOSW/SWIK** **WP-STAR-SCLCR09-SVUCL11-ECOSW/SWIK** **WP-STAR-SVQCR11-SDUCL11-OXOSW/SWIK** **WP-STAR-SVQCR11-SDUCL11-ECOSW/SWIK**
		BIMU 1040 R	A12-W6035090	T15	**WP-STAR-SCLCR09-SDUCL11-OXOSW/SWIK** **WP-STAR-SCLCR09-SVUCL11-OXOSW/SWIK** **WP-STAR-SVQCR11-SDUCL11-OXOSW/SWIK** **WP-STAR-ER16-SCLCL09-OXOSW/SWIK**
		BIMU 1040 L	A12-W6035090	T15	**WP-STAR-SCLCR09-SDUCL11-OXOSW/SWIK** **WP-STAR-SCLCR09-SVUCL11-OXOSW/SWIK** **WP-STAR-SVQCR11-SDUCL11-OXOSW/SWIK** **WP-STAR-ER16-SCLCL09-OXOSW/SWIK**
		Gewindeplatte 16ER . .	A12-W6035120	T10	**WP-STAR-ER16-SCLCL09-OXOSW/SWIK** **WP-STAR-ER16-SCLCL09-ECOSW/SWIK**
		APPLITEC ECO 25X	A12-W4540089	T15	**WP-STAR-SCLCR09-SDUCL11-ECOSW/SWIK** **WP-STAR-SCLCR09-SVUCL11-ECOSW/SWIK** **WP-STAR-SVQCR11-SDUCL11-ECOSW/SWIK** **WP-STAR-ER16-SCLCL09-ECOSW/SWIK**
		APPLITEC ECO 26X	A12-W4540089	T15	**WP-STAR-SCLCR09-SDUCL11-ECOSW/SWIK** **WP-STAR-SCLCR09-SVUCL11-ECOSW/SWIK** **WP-STAR-SVQCR11-SDUCL11-ECOSW/SWIK** **WP-STAR-ER16-SCLCL09-ECOSW/SWIK**
Unterlegplatte *Spacer*		UR16-01M (s. auch S. 4) *(see also page 4)*			**WP-STAR-ER16-SCLCL09-OXOSW/SWIK** **WP-STAR-ER16-SCLCL09-ECOSW/SWIK**
Klemmschraube *Clamping Screw*		KS-M3-T10			**WP-STAR-ER16-SCLCL09-OXOSW/SWIK** **WP-STAR-ER16-SCLCL09-ECOSW/SWIK**
Kugeldüse *Nozzle*		HVWP-KD055			**alle Halter** *all Holders*
Schraube f. Düse *Screw f. Nozzle*		A98-7991-30008 (DIN 7991 - M3x8 4,8N)			**alle Halter** *all Holders*
AK-Anschluss *AC-Pin*		A98-G1/8" (DIN 906 - G1/8")			**für alle SWAK-Halter** *for all SWAK-Holders*
STAR-IK-Bolzen *STAR-IC-Pin*		WP-BOLT-IK-STAR			**für alle SWIK-Halter** *for all SWIK-Holders*
O-Ring *O-Ring*		DIN 3771 - 5x1,5			**für alle SWIK-Halter** *for all SWIK-Holders*
Halter-Schrauben *Screw f. Holder*		A98-7379-40016 (ISO 7379 - M4x16)			**alle Halter** *all Holders*

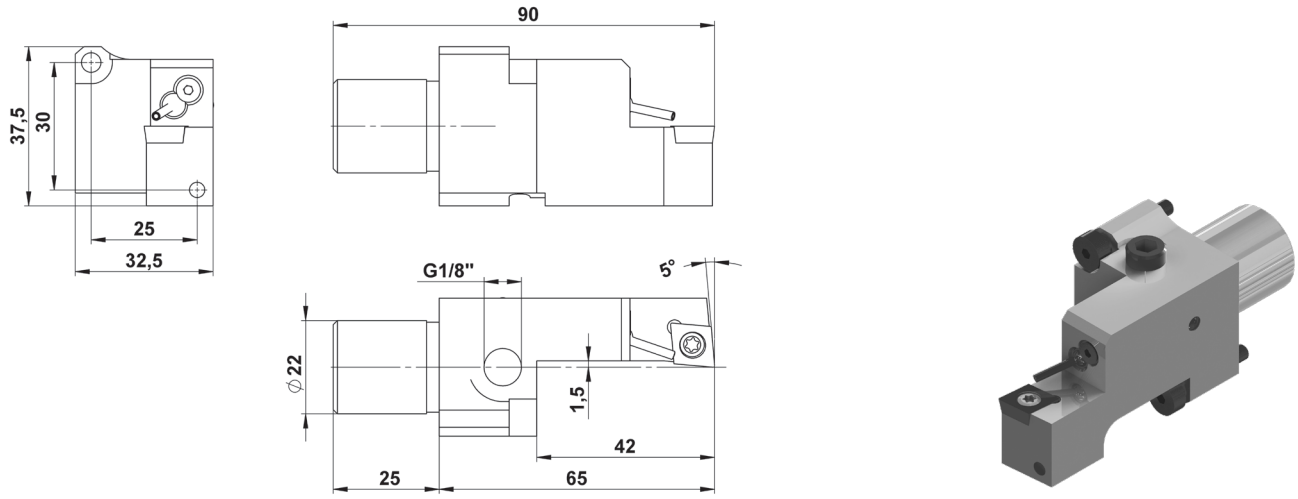
Alle Schrauben für Wendeplattenhalter s. S. 72
All screws for insert holders see page 72

Wendeplattenhalter SCLCR/L09
für Rückseitenbearbeitung mit AK (Kühlung)

Insert Holder SCLCR/L09
for Backworking with AK (coolant)

Artikel.-Nr. *article-no.*	WP-STAR-SCLCR09-SW WP-STAR-SCLCL09-SW	rechte - *right* linke - *left*	Ausführung - *version*	für - *for:*	SW12RII; SB12/20R; SR20JII SV20R; SR20RIV; SW20; SR38

Platte: *Insert:*	CC..09T3	Schraube: *Screw:*	A12-W6040082	Schlüssel: *Wrench:*	T15

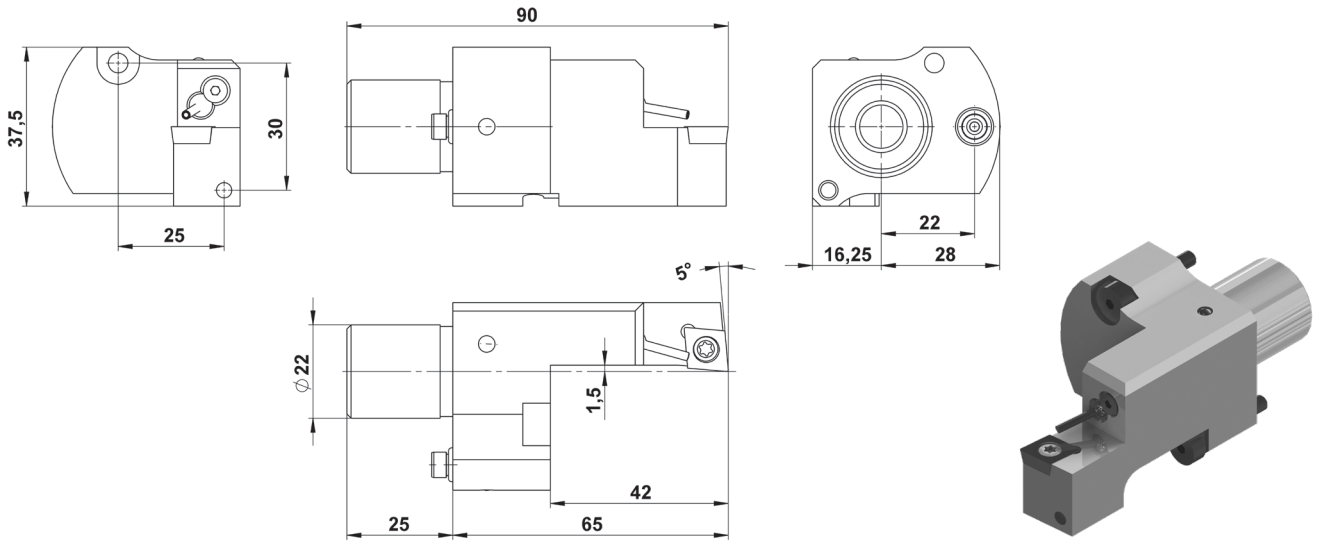


Wendeplattenhalter SCLCR/L09
für Rückseitenbearbeitung mit IK (Kühlung)

Insert Holder SCLCR/L09
for Backworking with IK (coolant)

Artikel.-Nr. *article-no.*	WP-STAR-SCLCR09-SWIK WP-STAR-SCLCL09-SWIK	rechte - *right* linke - *left*	Ausführung - *version*	für - *for:*	SR38; SR32JII

Platte: *Insert:*	CC..09T3	Schraube: *Screw:*	A12-W6040082	Schlüssel: *Wrench:*	T15

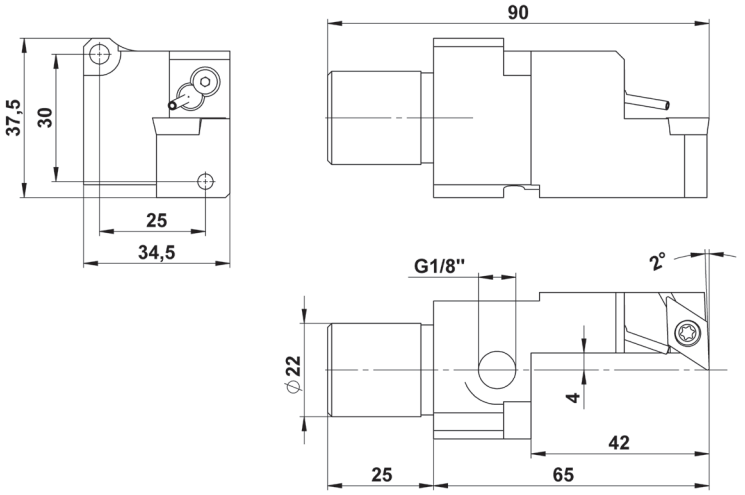


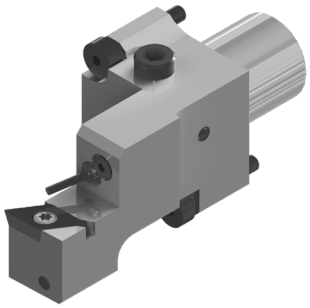
Wendeplattenhalter SDUCR/L11
für Rückseitenbearbeitung mit AK (Kühlung)

Insert Holder SDUCR/L11
for Backworking with AK (coolant)

Artikel.-Nr. *article-no.*	WP-STAR-SDUCR11-SW WP-STAR-SDUCL11-SW	rechte - *right* linke - *left*	Ausführung - *version*	für - *for:*	SW12RII; SB12/20R; SR20JII SV20R; SR20RIV; SW20; SR38

Platte: *Insert:*	DC..11T3	Schraube: *Screw:*	A12-W6040082	Schlüssel: *Wrench:*	T15



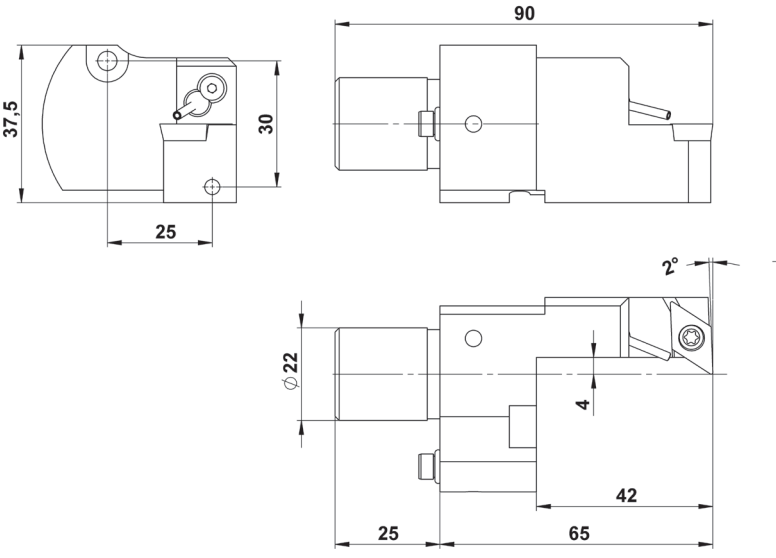


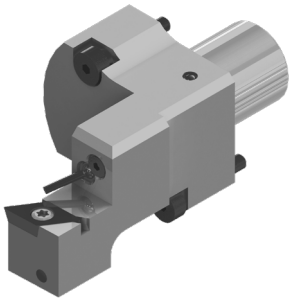
Wendeplattenhalter SDUCR/L11
für Rückseitenbearbeitung mit IK (Kühlung)

Insert Holder SDUCR/L11
for Backworking with IK (coolant)

Artikel.-Nr. *article-no.*	WP-STAR-SDUCR11-SWIK WP-STAR-SDUCL11 -SWIK	rechte - *right* linke - *left*	Ausführung - *version*	für - *for:*	SR38; SR32JII

Platte: *Insert:*	DC..11T3	Schraube: *Screw:*	A12-W6040082	Schlüssel: *Wrench:*	T15



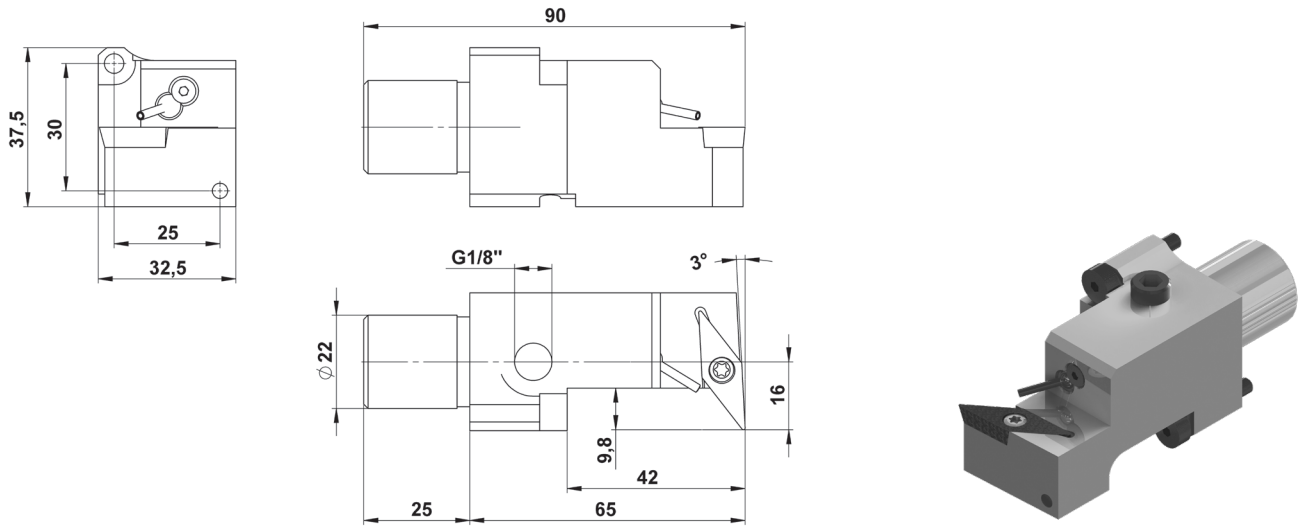


Wendeplattenhalter SVUBR16
für Rückseitenbearbeitung mit AK (Kühlung)

Insert Holder SVUBR16
for Backworking with AK (coolant)

Artikel.-Nr. *article-no.*	WP-STAR-SVUBR16-SW	(rechte Ausführung) *(right version)*	für - *for:*	SW12RII; SB12/20R; SR20JII SV20R; SR20RIV; SW20; SR38

Platte: *Insert:*	VB..1604	Schraube: *Screw:*	A12-W6040082	Schlüssel: *Wrench:*	T15

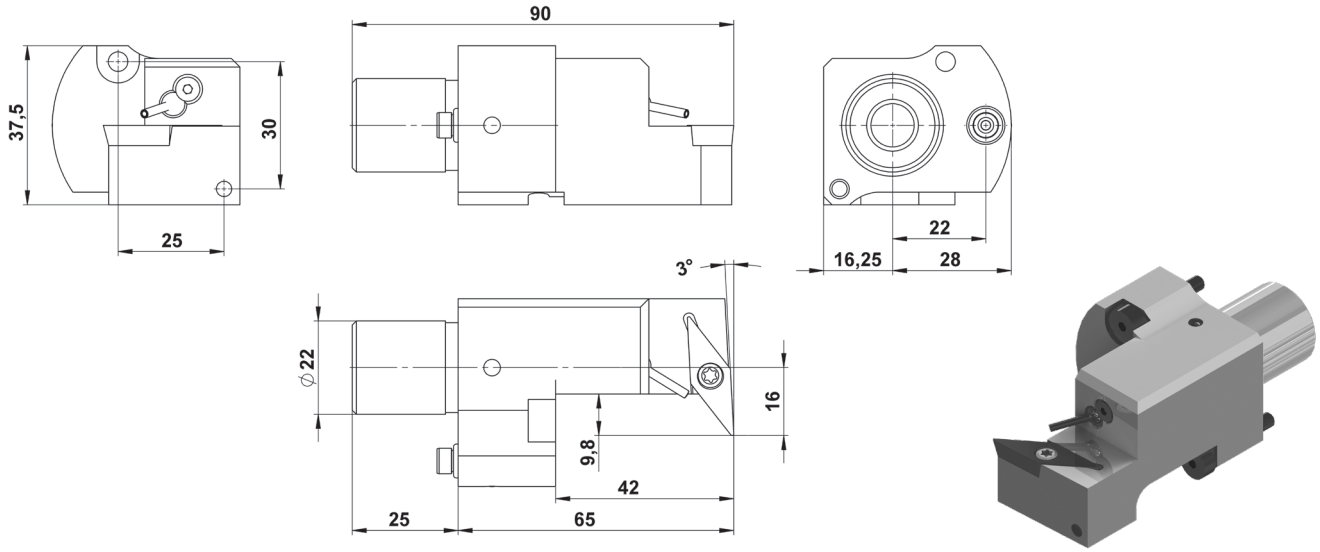


Wendeplattenhalter SVUBR16
für Rückseitenbearbeitung mit IK (Kühlung)

Insert Holder SVUBR16
for Backworking with IK (coolant)

Artikel.-Nr. *article-no.*	WP-STAR-SVUBR16-SWIK	(rechte Ausführung) *(right version)*	für - *for:*	SR38; SR32JII

Platte: *Insert:*	VB..1604	Schraube: *Screw:*	A12-W6040082	Schlüssel: *Wrench:*	T15

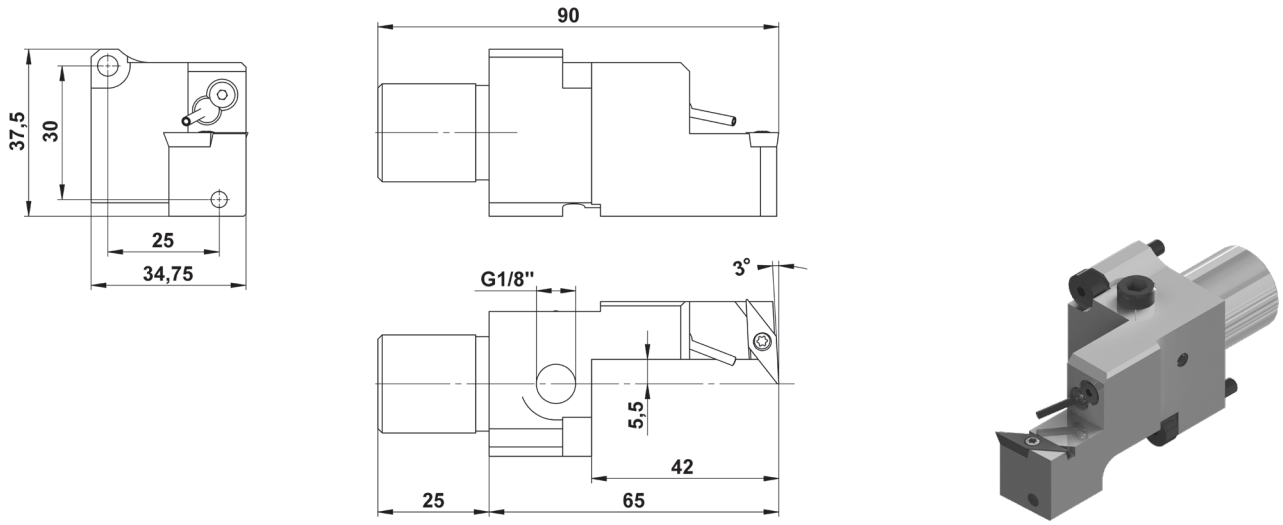


Wendeplattenhalter SVUCR11
für Rückseitenbearbeitung mit AK (Kühlung)

Insert Holder SVUCR11
for Backworking with AK (coolant)

Artikel.-Nr. *article-no.*	WP-STAR-SVUCR11-SW	(rechte Ausführung) *(right version)*	für - *for:*	SW12RII; SB12/20R; SR20JII SV20R; SR20RIV; SW20; SR38

Platte: *Insert:* VC..1103 — **Schraube:** *Screw:* A12-W6025060 — **Schlüssel:** *Wrench:* T8



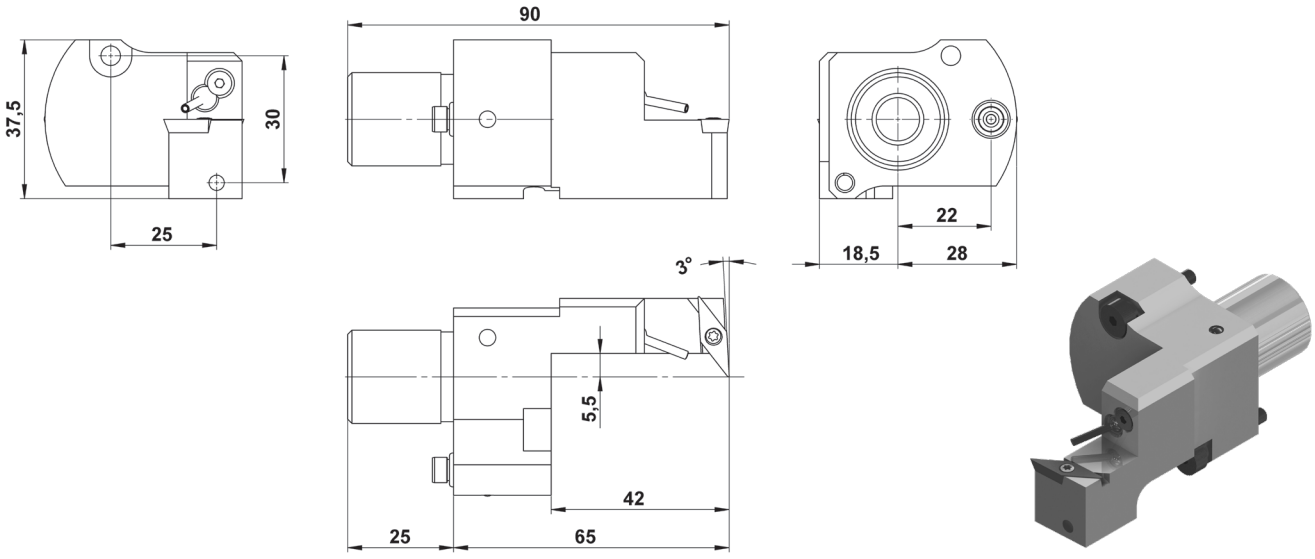
auch in linker Ausführung verfügbar - also available in left version

Wendeplattenhalter SVUCR11
für Rückseitenbearbeitung mit IK (Kühlung)

Insert Holder SVUCR11
for Backworking with IK (coolant)

Artikel.-Nr. *article-no.*	WP-STAR-SVUCR11-SWIK	(rechte Ausführung) *(right version)*	für - *for:*	SR38; SR32JII

Platte: *Insert:* VC..1103 — **Schraube:** *Screw:* A12-W6025060 — **Schlüssel:** *Wrench:* T8



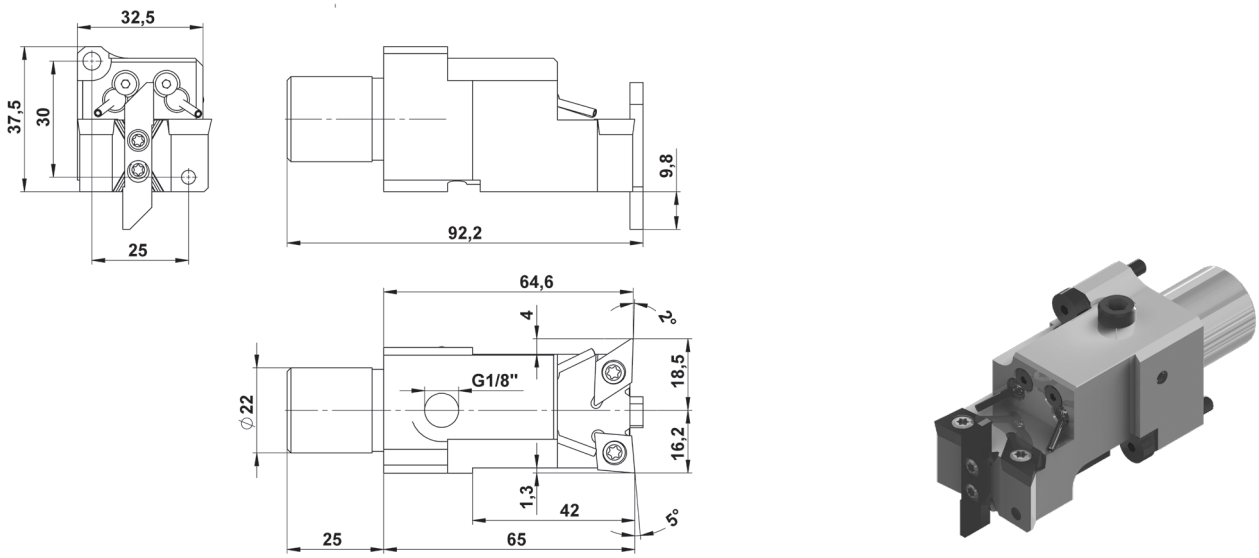
Wendeplattenhalter SCLCR09 / SDUCL11
für Rückseitenbearbeitung mit AK (Kühlung)

Insert Holder SCLCR09 / SDUCL11
for Backworking with AK (coolant)

Artikel.-Nr. *article-no.*	WP-STAR-SCLCR09-SDUCL11-OXOSW (BIMU-Platte - *insert*)	für - *for:*	SW12RII; SB12/20R; SR20JII SV20R; SR20RIV; SW20; SR38

Platte rechts - *insert right:* CC..09T3 Platte links - *insert left:* DC..11T3

Einstichplatte stirnseitig - *cut-in insert frontal :* BIMU 1040 R / L



Schneidpositionen aller Platten sind auf dem Halter beschriftet - *Cutting positions of all inserts are marked on the holder*

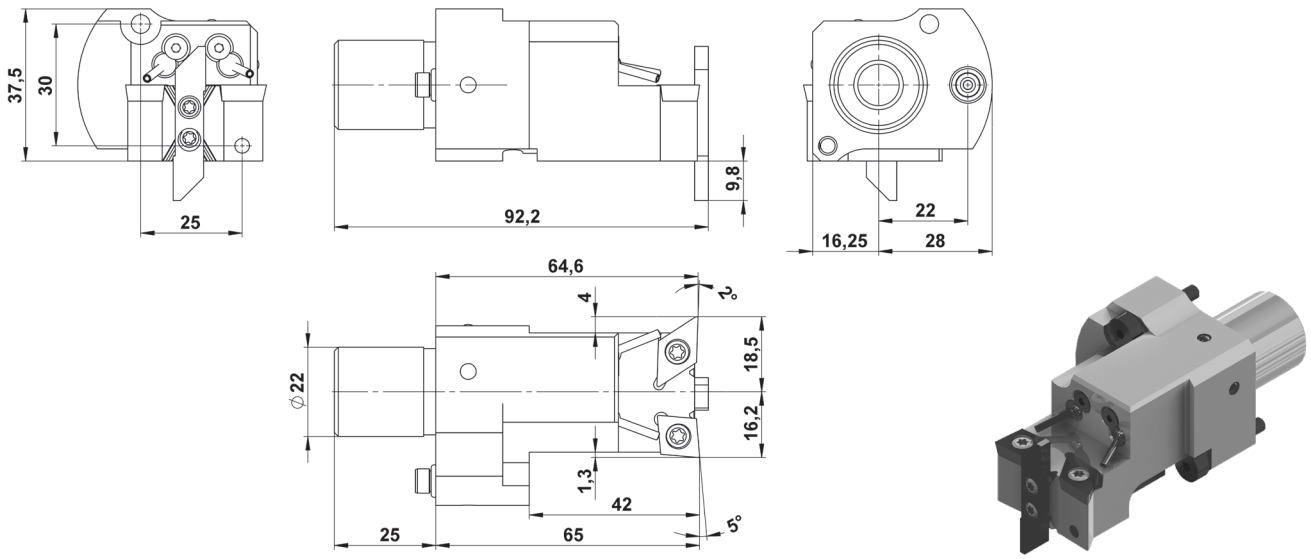
Wendeplattenhalter SCLCR09 / SDUCL11
für Rückseitenbearbeitung mit IK (Kühlung)

Insert Holder SCLCR09 / SDUCL11
for Backworking with IK (coolant)

Artikel.-Nr. *article-no.*	WP-STAR-SCLCR09-SDUCL11-OXOSWIK (BIMU-Platte - *insert*)	für - *for:*	SR38; SR32JII

Platte rechts - *insert right:* CC..09T3 Platte links - *insert left:* DC..11T3

Einstichplatte stirnseitig - *cut-in insert frontal :* BIMU 1040 R / L



Schneidpositionen aller Platten sind auf dem Halter beschriftet - *Cutting positions of all inserts are marked on the holder*

Wendeplattenhalter 16ER (Gewinde)
für Rückseitenbearbeitung mit AK (Kühlung)

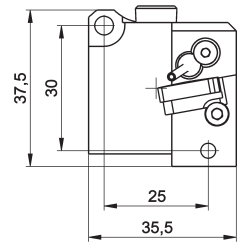
Insert Holder 16ER (Threading)
for Backworking with AK (coolant)

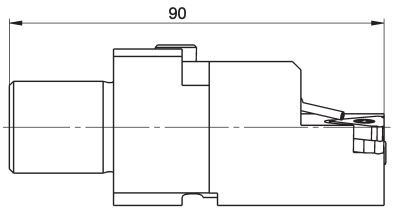
Artikel-Nr. *article-no.*	WP-STAR-16ER-SW	rechte - *right* Ausführung - *version*	für - *for:*	*SW12RII; SB12/20R; SR20JII SV20R; SR20RIV; SW20; SR38*

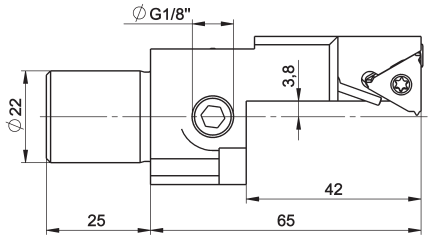
Platte: *Insert:* 16ER

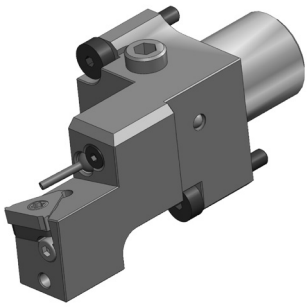
Schraube: *Screw:* A12-W6035120

Schlüssel: *Wrench:* T10









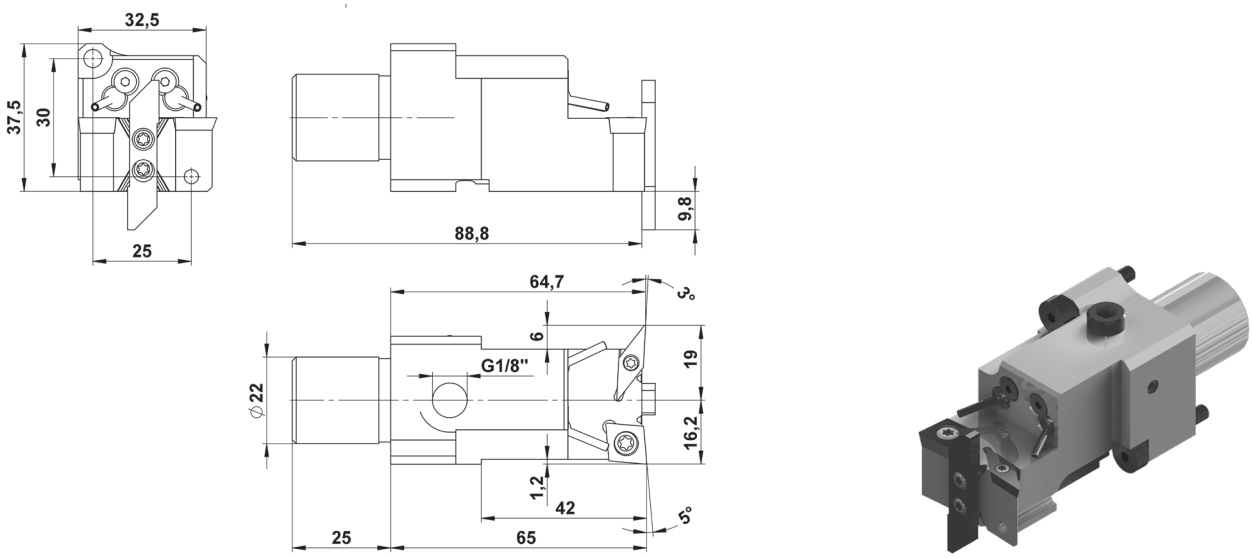
Wendeplattenhalter SCLCR09 / SVUCL11
für Rückseitenbearbeitung mit AK (Kühlung)

Insert Holder SCLCR09 / SVUCL11
for Backworking with AK (coolant)

Artikel.-Nr. *article-no.*	WP-STAR-SCLCR09-SVUCL11-OXOSW (BIMU-Platte - *insert*)	für - *for:*	SW12RII; SB12/20R; SR20JII SV20R; SR20RIV; SW20; SR38

Platte rechts - *insert right:* CC..09T3 Platte links - *insert left:* VC..1103

Einstichplatte stirnseitig - *cut-in insert frontal :* BIMU 1040 R / L



Schneidpositionen aller Platten sind auf dem Halter beschriftet - *Cutting positions of all inserts are marked on the holder*

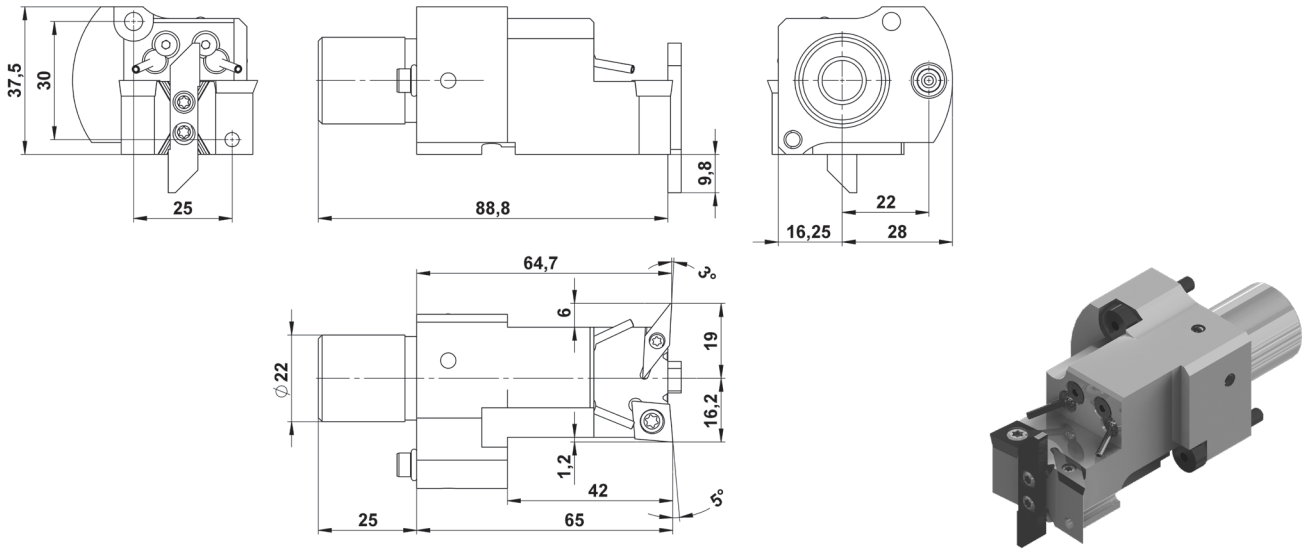
Wendeplattenhalter SCLCR09 / SVUCL11
für Rückseitenbearbeitung mit IK (Kühlung)

Insert Holder SCLCR09 / SVUCL11
for Backworking with IK (coolant)

Artikel.-Nr. *article-no.*	WP-STAR-SCLCR09-SVUCL11-OXOSWIK (BIMU-Platte - *insert*)	für - *for:*	SR38; SR32JII;

Platte rechts - *insert right:* CC..09T3 Platte links - *insert left:* VC..1103

Einstichplatte stirnseitig - *cut-in insert frontal :* BIMU 1040 R / L



Schneidpositionen aller Platten sind auf dem Halter beschriftet - *Cutting positions of all inserts are marked on the holder*

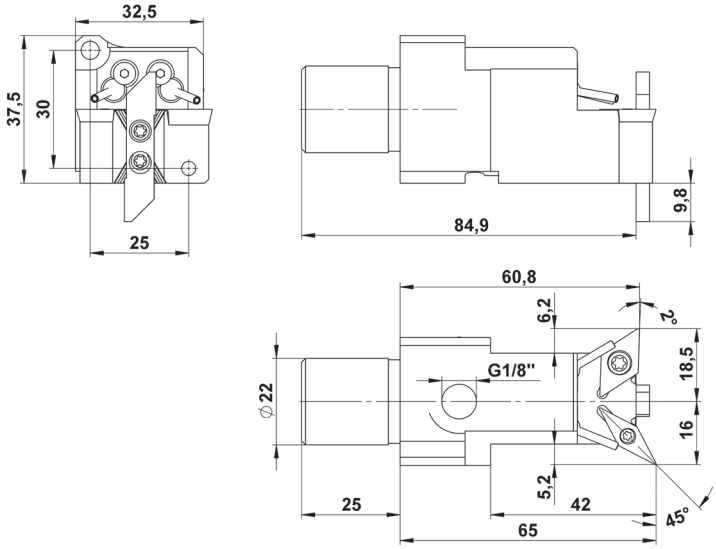
Wendeplattenhalter SVQCR11 / SDUCL11
für Rückseitenbearbeitung mit AK (Kühlung)

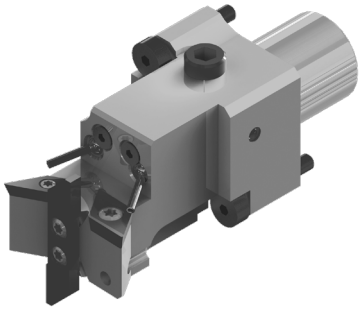
Insert Holder SVQCR11 / SDUCL11
for Backworking with AK (coolant)

Artikel.-Nr. *article-no.*	WP-STAR-SVQCR11-SDUCL11-OXOSW (BIMU-Platte - *insert*)	für - *for:*	SW12RII; SB12/20R; SR20JII SV20R; SR20RIV; SW20; SR38

Platte rechts - *Insert right:* VC..1103 Platte links - *Insert left:* DC..11T3

Einstichplatte stirnseitig - *cut-in insert frontal :* BIMU 1040 R / L





Schneidpositionen aller Platten sind auf dem Halter beschriftet - *Cutting positions of all inserts are marked on the holder*

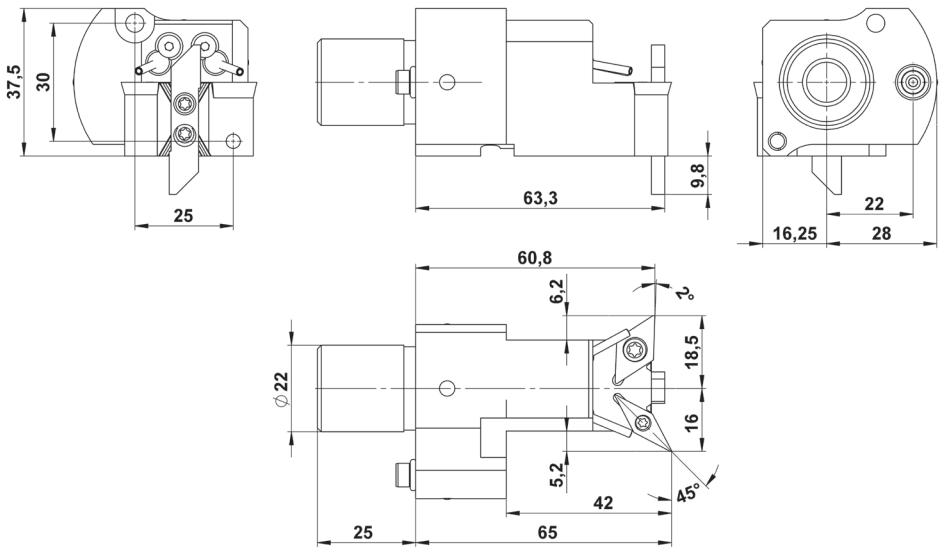
Wendeplattenhalter SVQCR11 / SDUCL11
für Rückseitenbearbeitung mit IK (Kühlung)

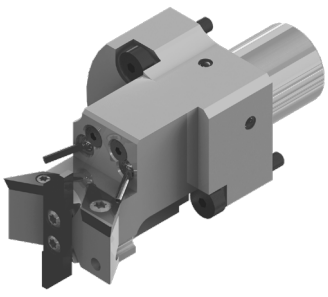
Insert Holder SVQCR11 / SDUCL11
for Backworking with IK (coolant)

Artikel.-Nr. *article-no.*	WP-STAR-SVQCR11-SDUCL11-OXOSWIK (BIMU-Platte - *insert*)	für - *for:*	SR38; SR32JII

Platte rechts - *Insert right:* VC..1103 Platte links - *Insert left:* DC..11T3

Einstichplatte stirnseitig - *cut-in insert frontal :* BIMU 1040 R / L





Schneidpositionen aller Platten sind auf dem Halter beschriftet - *Cutting positions of all inserts are marked on the holder*

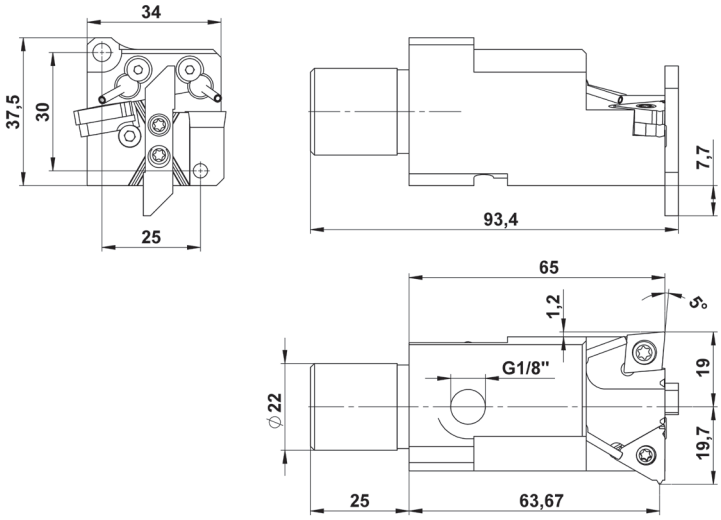
Wendeplattenhalter ER16 / SCLCL09
für Rückseitenbearbeitung mit AK (Kühlung)

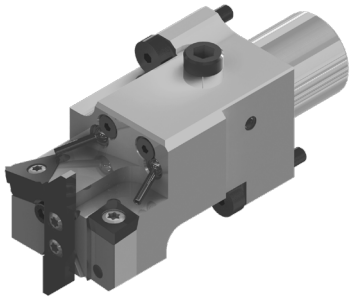
Insert Holder ER16 / SCLCL09
for Backworking with AK (coolant)

Artikel.-Nr. *article-no.*	WP-STAR-ER16-SCLCL09-OXOSW (BIMU-Platte - *insert*)	für - *for:*	SW12RII; SB12/20R; SR20JII SV20R; SR20RIV; SW20; SR38

Platte rechts - *Insert right:* Gewindeplatte ER16 - *threading insert ER16* Platte links - *Insert left:* CC..09T3

Einstichplatte stirnseitig - *cut-in insert frontal :* BIMU 1040 R / L





Schneidpositionen aller Platten sind auf dem Halter beschriftet - *Cutting positions of all inserts are marked on the holder*

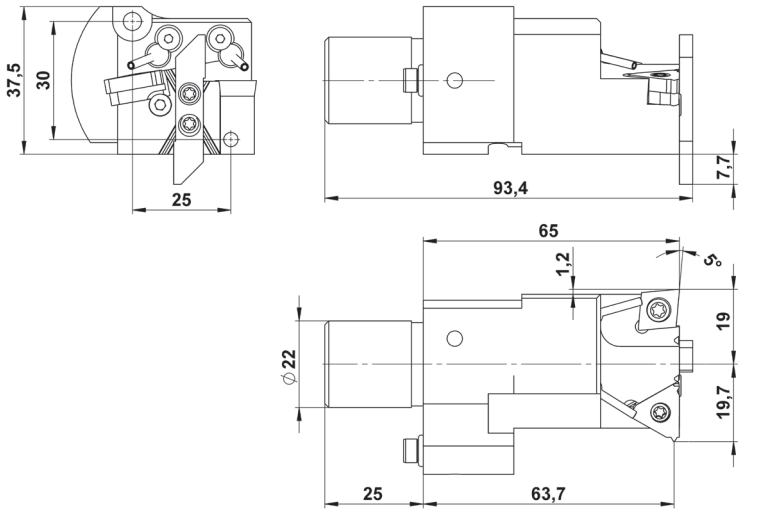
Wendeplattenhalter ER16 / SCLCL09
für Rückseitenbearbeitung mit IK (Kühlung)

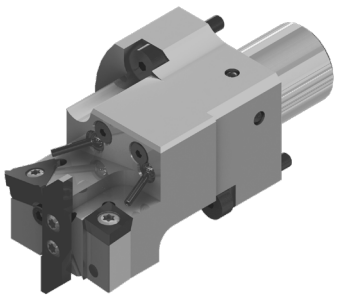
Insert Holder ER16 / SCLCL09
for Backworking with IK (coolant)

Artikel.-Nr. *article-no.*	WP-STAR-ER16-SCLCL09-OXOSWIK (BIMU-Platte - *insert*)	für - *for:*	SR38; SR32JII

Platte rechts - *insert right:* Gewindeplatte ER16 - *threading insert ER16* Platte links - *insert left:* CC..09T3

Einstichplatte stirnseitig - *cut-in insert frontal :* BIMU 1040 R / L





Schneidpositionen aller Platten sind auf dem Halter beschriftet - *Cutting positions of all inserts are marked on the holder*

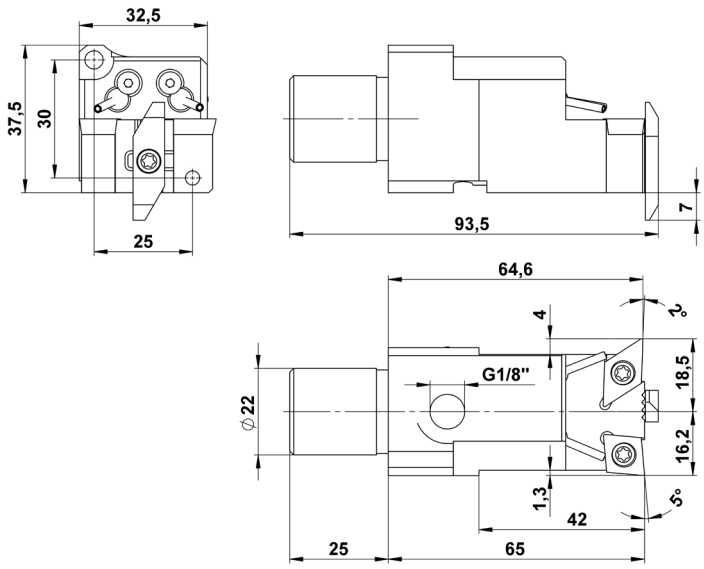
Wendeplattenhalter SCLCR09 / SDUCL11
für Rückseitenbearbeitung mit AK (Kühlung)

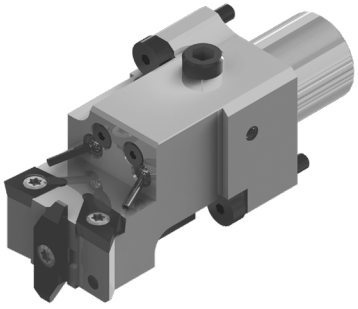
Insert Holder SCLCR09 / SDUCL11
for Backworking with AK (coolant)

Artikel.-Nr. *article-no.*	WP-STAR-SCLCR09-SDUCL11-ECOSW (APPLITEC-Platte - *insert*)	für - *for:*	SW12RII; SB12/20R; SR20JII SV20R; SR20RIV; SW20; SR38

Platte rechts - *insert right:* CC..09T3 Platte links - *insert left:* DC..11T3

Einstichplatte stirnseitig - *cut-in insert frontal :* APPLITEC ECO 25X / 26X





Schneidpositionen aller Platten sind auf dem Halter beschriftet - *Cutting positions of all inserts are marked on the holder*

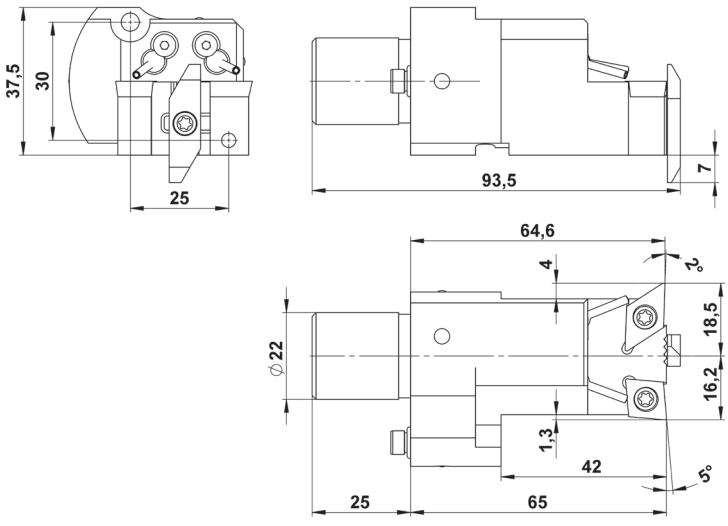
Wendeplattenhalter SCLCR09 / SDUCL11
für Rückseitenbearbeitung mit AK (Kühlung)

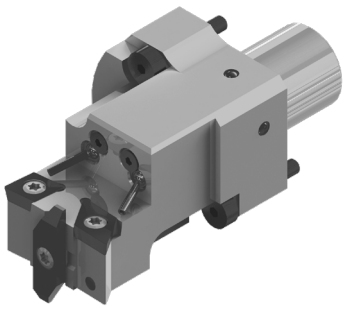
Insert Holder SCLCR09 / SDUCL11
for Backworking with IK (coolant)

Artikel.-Nr. *article-no.*	WP-STAR-SCLCR09-SDUCL11-ECOSWIK (APPLITEC-Platte - *insert*)	für - *for:*	SR38; SR32JII

Platte rechts - *insert right:* CC..09T3 Platte links - *insert left:* DC..11T3

Einstichplatte stirnseitig - *cut-in insert frontal :* APPLITEC ECO 25X / 26X





Schneidpositionen aller Platten sind auf dem Halter beschriftet - *Cutting positions of all inserts are marked on the holder*

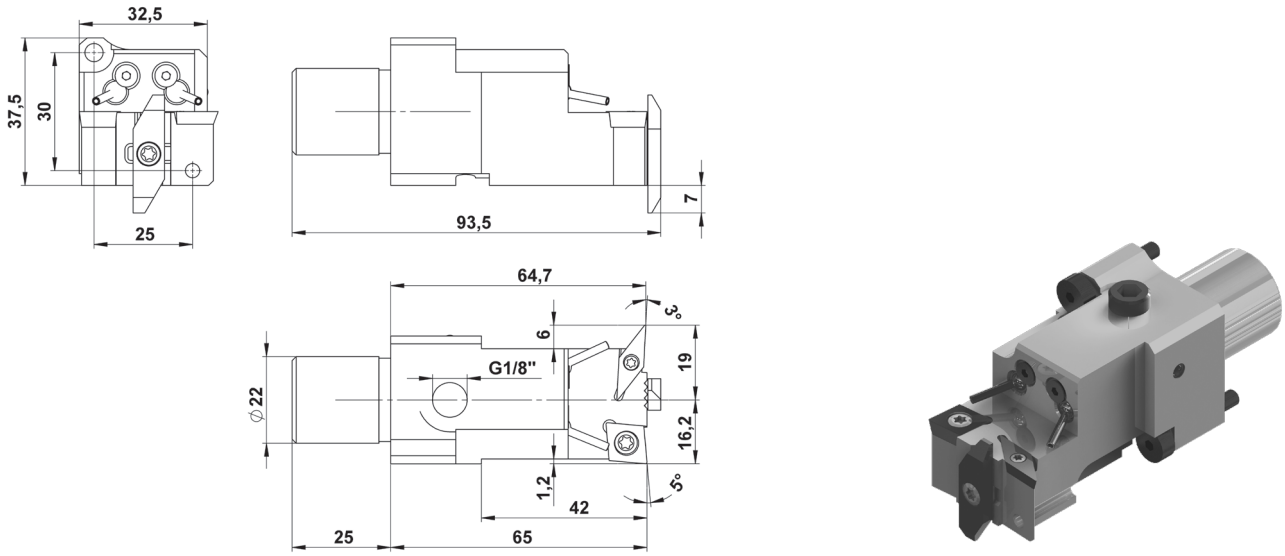
Wendeplattenhalter SCLCR09 / SVUCL11
für Rückseitenbearbeitung mit AK (Kühlung)

Insert Holder SCLCR09 / SVUCL11
for Backworking with AK (coolant)

Artikel.-Nr. *article-no.*	WP-STAR-SCLCR09-SVUCL11-ECOSW (APPLITEC-Platte - *insert*)	für - *for:*	SW12RII; SB12/20R; SR20JII SV20R; SR20RIV; SW20; SR38

Platte rechts - *insert right:* CC..09T3 Platte links - *insert left:* VC..1103

Einstichplatte stirnseitig - *cut-in insert frontal :* APPLITEC ECO 25X / 26X



Schneidpositionen aller Platten sind auf dem Halter beschriftet - *Cutting positions of all inserts are marked on the holder*

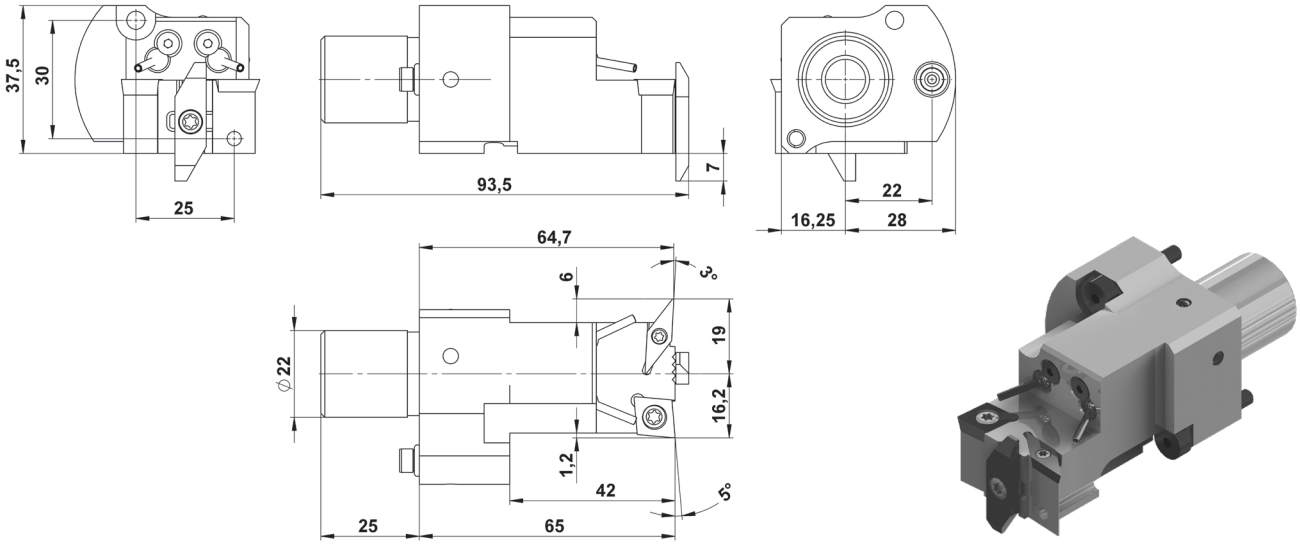
Wendeplattenhalter SCLCR09 / SVUCL11
für Rückseitenbearbeitung mit IK (Kühlung)

Insert Holder SCLCR09 / SVUCL11
for Backworking with IK (coolant)

Artikel.-Nr. *article-no.*	WP-STAR-SCLCR09-SVUCL11-ECOSWIK (APPLITEC-Platte - *insert*)	für - *for:*	SR38; SR32JII

Platte rechts - *insert right:* CC..09T3 Platte links - *insert left:* VC..1103

Einstichplatte stirnseitig - *cut-in insert frontal :* APPLITEC ECO 25X / 26X



Schneidpositionen aller Platten sind auf dem Halter beschriftet - *Cutting positions of all inserts are marked on the holder*

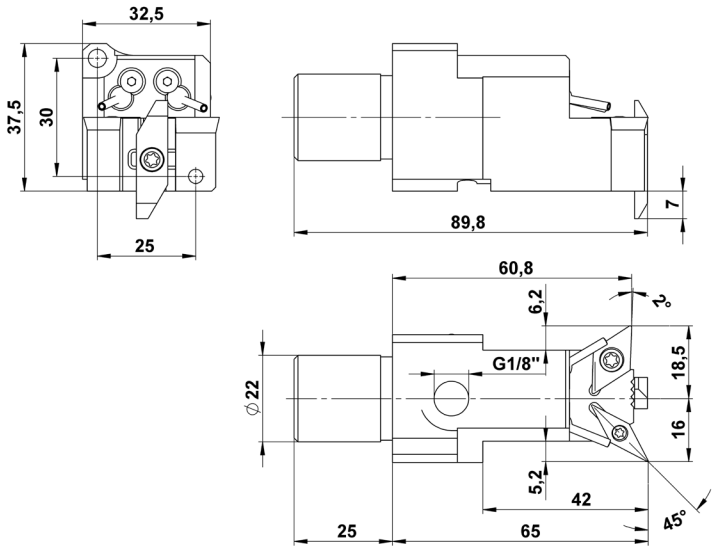
Wendeplattenhalter SVQCR11 / SDUCL11
für Rückseitenbearbeitung mit AK (Kühlung)

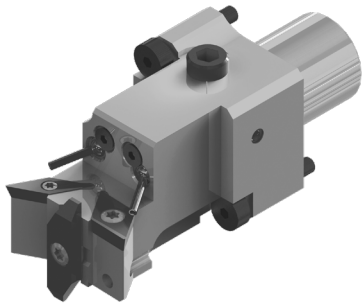
Insert Holder SVQCR11 / SDUCL11
for Backworking with AK (coolant)

Artikel.-Nr. *article-no.*	WP-STAR-SVQCR11-SDUCL11-ECOSW (APPLITEC-Platte - *insert*)	für - *for:*	SW12RII; SB12/20R; SR20JII SV20R; SR20RIV; SW20; SR38

Platte rechts - *Insert right:* VC..1103 Platte links - *Insert left:* DC..11T3

Einstichplatte stirnseitig - *cut-in insert frontal :* APPLITEC ECO 25X / 26X





Schneidpositionen aller Platten sind auf dem Halter beschriftet - *Cutting positions of all inserts are marked on the holder*

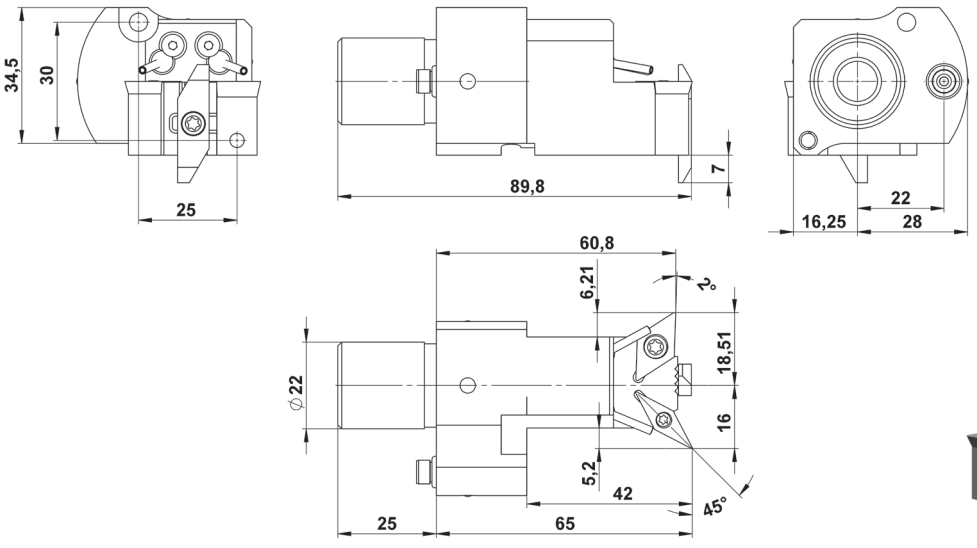
Wendeplattenhalter SVQCR11 / SDUCL11
für Rückseitenbearbeitung mit IK (Kühlung)

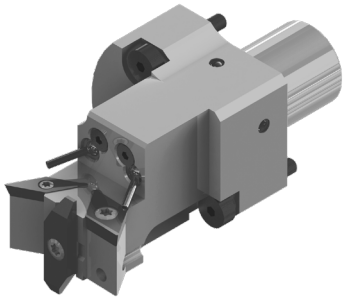
Insert Holder SVQCR11 / SDUCL11
for Backworking with IK (coolant)

Artikel.-Nr. *article-no.*	WP-STAR-SVQCR11-SDUCL11-ECOSWIK (APPLITEC-Platte-*insert*)	für - *for:*	SR38; SR32JII

Platte rechts - *Insert right:* VC..1103 Platte links - *Insert left:* DC..11T3

Einstichplatte stirnseitig - *cut-in insert frontal :* APPLITEC ECO 25X / 26X





Schneidpositionen aller Platten sind auf dem Halter beschriftet - *Cutting positions of all inserts are marked on the holder*

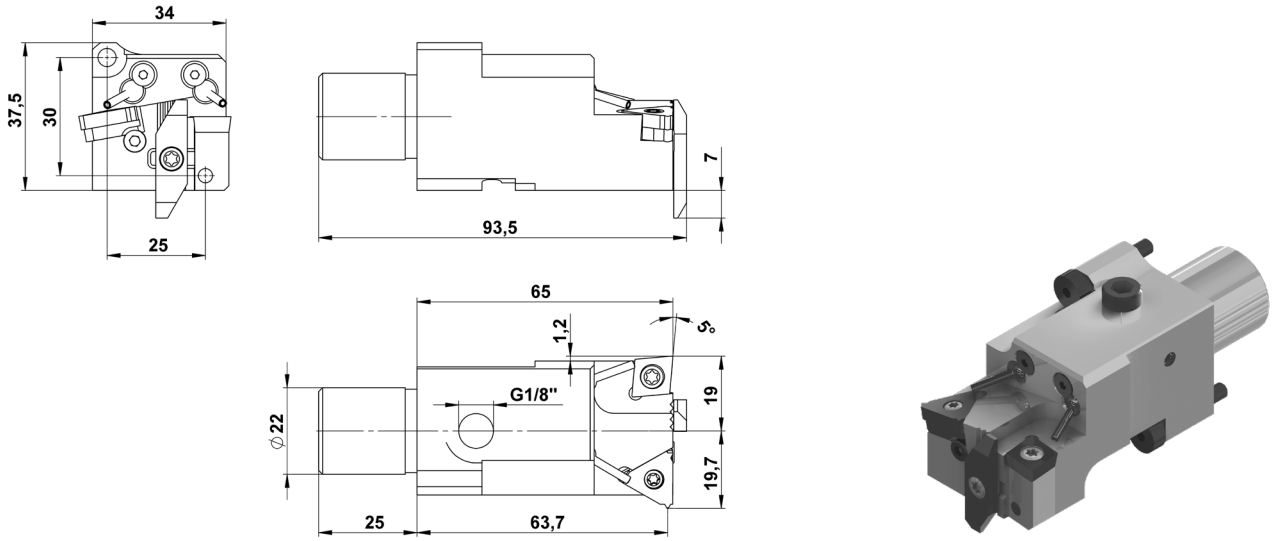
Wendeplattenhalter ER16 / SCLCL09
für Rückseitenbearbeitung mit AK (Kühlung)

Insert Holder ER16 / SCLCL09
for Backworking with AK (coolant)

Artikel.-Nr. *article-no.*	WP-STAR-ER16-SCLCL09-ECOSW (APPLITEC-Platte - *insert*)	für - *for:*	SW12RII; SB12/20R; SR20JII SV20R; SR20RIV; SW20; SR38

Platte rechts - *Insert right:* Gewindeplatte ER16 - *threading insert ER16* Platte links - *Insert left:* CC..09T3

Einstichplatte stirnseitig - *cut-in insert frontal :* APPLITEC ECO 25X / 26X



Schneidpositionen aller Platten sind auf dem Halter beschriftet - *Cutting positions of all inserts are marked on the holder*

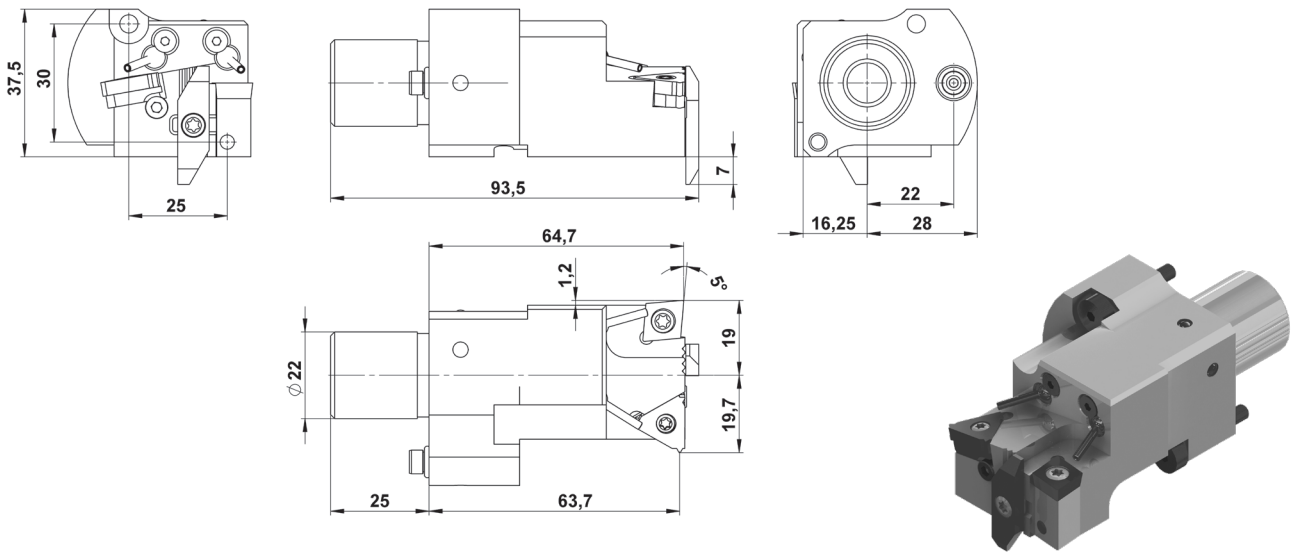
Wendeplattenhalter ER16 / SCLCL09
für Rückseitenbearbeitung mit IK (Kühlung)

Insert Holder ER16 / SCLCL09
for Backworking with IK (coolant)

Artikel.-Nr. *article-no.*	WP-STAR-ER16-SCLCL09-ECOSWIK (APPLITEC-Platte - *insert*)	für - *for:*	SR38; SR32JII

Platte rechts - *insert right:* Gewindeplatte ER16 - *threading insert ER16* Platte links - *insert left:* CC..09T3

Einstichplatte stirnseitig - *cut-in insert frontal :* APPLITEC ECO 25X / 26X



Schneidpositionen aller Platten sind auf dem Halter beschriftet - *Cutting positions of all inserts are marked on the holder*

VHM - Bohrstangen
Carbide Boring Bars



Bohrstangen aus Voll-Hartmetall (VHM)

Carbide Boring Bars

- VHM-Bohrstangen mit Wendeschneidplatten, zur Innen- und Außenbearbeitung
- höchste Maßgenauigkeit und beste Oberflächengüte
- durch die Ausführung in VHM und durch Kühlmittelbohrungen zur Innenkühlung speziell für tiefe Bohrungen, punktgenaue Kühlmittelzufuhr
- Bohr-Ø ab 5mm, Bohrtiefe bis 10 x D
- sehr gute Schwingungsdämpfung
- angeschliffene Fläche - kein Ausrichten erforderlich

- *Carbide boring bars with inserts for internal and external machining*
- *Highest precision and surface quality*
- *Especially for deep bores*
- *Bore Ø >5mm, drilling depth until 10xD*
- *Very good vibration damping*
- *Ground flat - no adjusting required*

Neue Kopfgeometrie
für erhöhte Steifigkeit und bessere Spanabfuhr

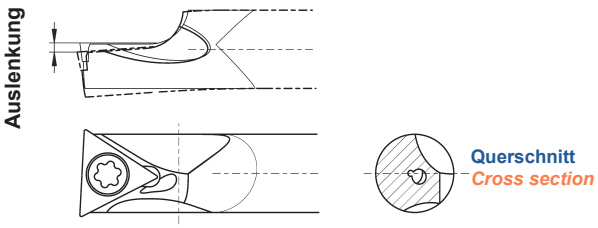
New Design for highest stiffness and a better removal of chips

Vergütete Köpfe!

Tempered heads!

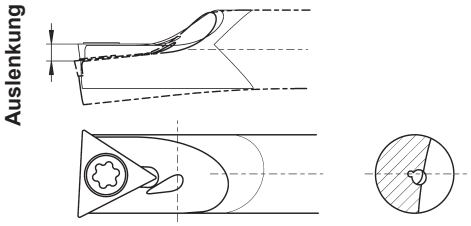
Stabilität und Präzision - *Stability and precision*

Neue Kopfgeometrie:
New geometry:



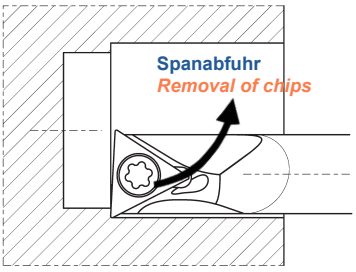
Höchste Steifigkeit durch Verkürzung des Lasthebels und günstigeres Biegeprofil
Highest stiffness as a result of a shorter load arm and a better profile

Herkömmliche Bohrstange:
***Conventional** boring bar:*



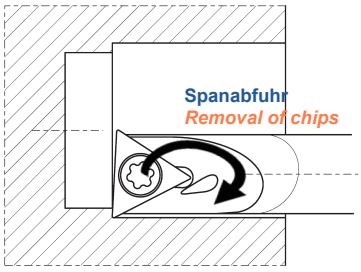
Oberflächenqualität und Sicherheit - *Surface quality and safety*

Neues Spankammerdesign
für verbesserte Spanabfuhr:
New chip space design for better removal of chips



Ideale Spanabfuhr verbessert die Oberflächenqualität und reduziert den Werkzeugverschleiß
Perfect removal of chips effects a better surface quality and reduces tool wear

Herkömmliche Bohrstange:
***Conventional** boring bar*

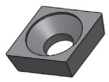
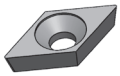
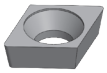
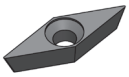


VHM - Bohrstangen
mit Innenkühlung, für höchste Präzision

Carbide Boring Bars
also with inner coolant for highest precision

Übersicht: Halter für Platten . . .

Overview: Holders for Inserts . . .

	Platten - *Inserts*		Seite - *Page*
	CC . . 0301 / 0401 / 0602 / 09T3 CP . . 04T1 / 05T1		60 - 61
	DC . .0702 / 11T3		61 - 62
	JC . .0301	(70° - Platte) *(70° - Insert)*	63
	TB . . 0601 TC . . 0902 / 1102 TP . . 07T1 / 0802 / 0902		63 - 64
	VC . . 0702 / 1103		65 - 67
	WB . . 0601 WC . . 0201		67 - 68

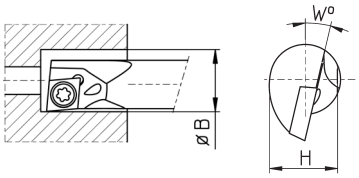
Alle Schrauben für Wendeplattenhalter s. S. 72
All screws for insert holders see page 72

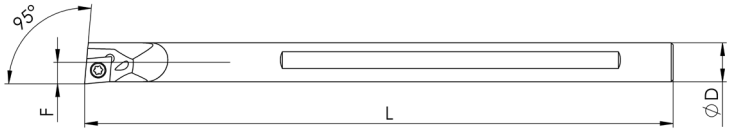
VHM - Bohrstangen
mit Innenkühlung, für höchste Präzision

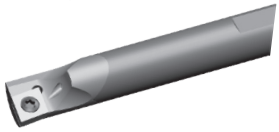
Carbide Boring Bars
also with inner coolant, for highest precision

C/E ...SCLC R/L ...SCLP R/L

Freiwinkel 7° / 11° *Clearance angle 7° / 11°*







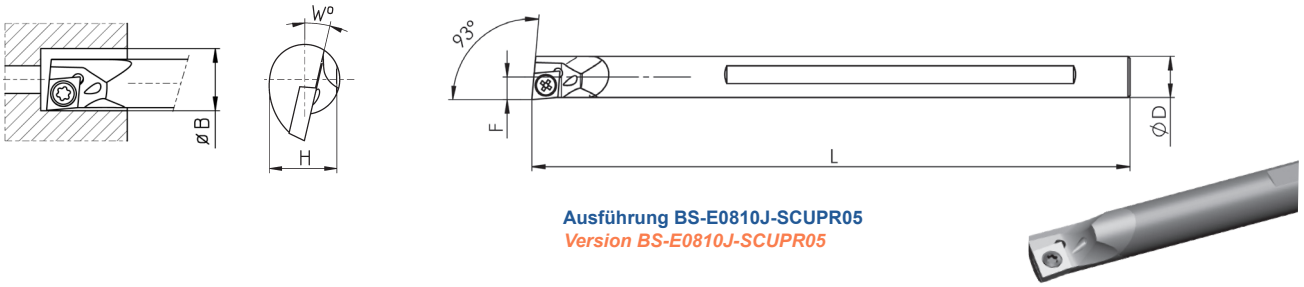
Artikel.-Nr. *article-no.*	Platte *insert*	D	L	F	W [°]	H	Bmin	IK	Schraube *screw*	Schlüssel *spanner*
BS-C04G-SCLCR/L03	CC... 0301	4	90	2,5	14	3,6	4,8	--	A12-W6016024	T6
BS-E04G-SCLCR/L03	CC... 0301	4	90	2,5	14	3,6	4,8	✓*	A12-W6016024	T6
BS-C05H-SCLCR/L03	CC... 0301	5	100	3	11	4,5	5,8	--	A12-W6016024	T6
BS-E05H-SCLCR/L03	CC... 0301	5	100	3	11	4,5	5,8	✓*	A12-W6016024	T6
BS-E06J-SCLCR/L04	CC... 0401	6	110	3,5	7	5,5	6,9	✓	A12-W5420033	T6
BS-E06J-SCLPR/L04	CP... 04T1	6	110	3,5	7	5,5	6,9	✓	A12-W5420030	T6
BS-C07K-SCLCR/L04	CC... 0401	7	125	4	10	6,5	7,9	--	A12-W5420033	T6
BS-E07K-SCLCR/L04	CC... 0401	7	125	4	7	6,5	7,9	✓*	A12-W5420033	T6
BS-E08K-SCLCR/L06	CC... 0602	8	125	4	10	7,5	8,9	✓	A12-W6025040	T8
BS-E08K-SCLPR/L04	CP... 04T1	8	125	4,5	7	7,5	8,9	✓	A12-W5420035	T6
BS-E10K-SCLCR/L06	CC... 0602	10	125	5,5	7	9,5	11	✓	A12-W6025040	T8
BS-E10M-SCLCR/L06	CC... 0602	10	150	5,5	7	9,5	11	✓	A12-W6025040	T8
BS-E12M-SCLCR/L06	CC... 0602	12	150	6,5	7	11,5	12	✓	A12-W6025049	T8
BS-E12Q-SCLCR/L06	CC... 0602	12	180	7,5	7	11,5	14	✓	A12-W6025049	T8
BS-E12Q-SCLCR/L09	CC... 09T3	12	180	7,5	11	11,5	14	✓	A12-W6040060	T15
BS-E16J-SCLCR/L06	CC... 0602	16	110	9	7	15,5	17,5	✓	A12-W6025060	T8
BS-E16M-SCLCR/L06	CC... 0602	16	150	9	7	15,5	17,5	✓	A12-W6025060	T8
BS-E16R-SCLCR/L09	CC... 09T3	16	200	9	7	15,5	17,5	✓	A12-W6040070	T15
BS-E20S-SCLCR/L06	CC... 0602	20	250	11	7	19,5	21,7	✓	A12-W6025060	T8
BS-E20R-SCLCR/L09	CC... 09T3	20	200	12,5	7	19,5	23,2	✓	A12-W6040070	T15
BS-E20S-SCLCR/L09	CC... 09T3	20	250	11	7	19,5	21,7	✓	A12-W6040082	T15

*** mit innerer Kühlmittelzufuhr auf Anfrage**

**** with inner coolant on request***

E...SCUC R/L ..SCUP R/L

Freiwinkel 7° *Clearance angle 7°*

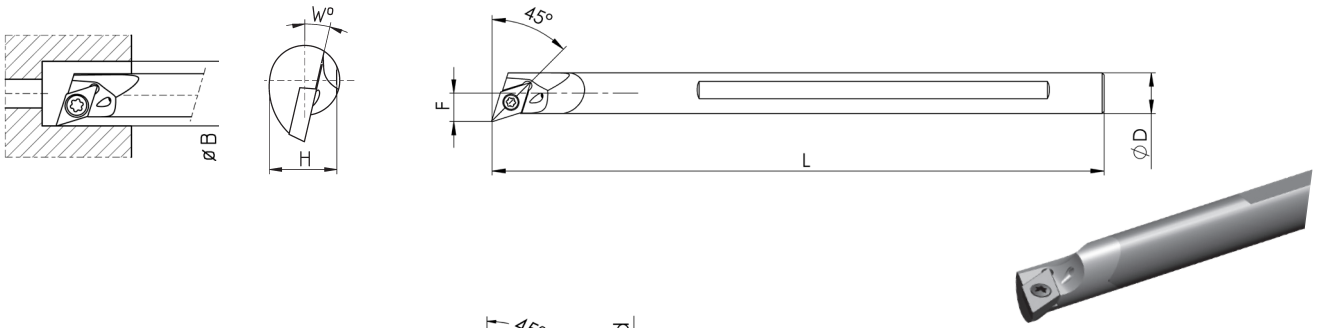


Ausführung BS-E0810J-SCUPR05
Version BS-E0810J-SCUPR05

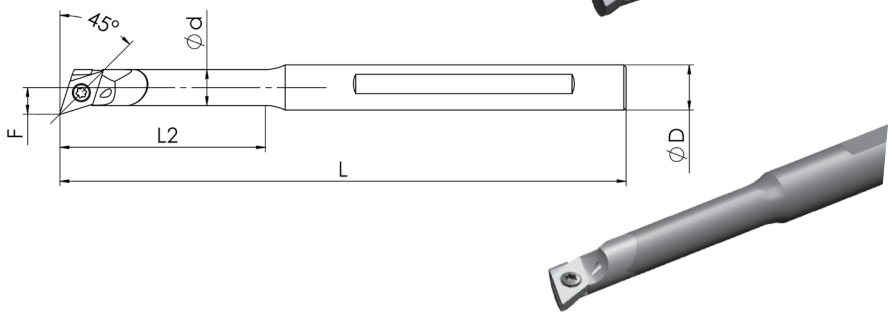
Artikel.-Nr. *article-no.*	Platte *insert*	D	d	L	L_2	F	W [°]	H	Bmin	IK	Schraube *screw*	Schlüssel *spanner*
BS-E08K-SCUCR/L06	CC... 0602	8	--	125	--	4,8	10	7,5	9,2	✓	A12-W6025040	T8

E...SDQC R/L

Freiwinkel 7° *Clearance angle 7°*



Ausführung BS-E0810K-SDQCR07
Version BS-E0810K-SDQCR07



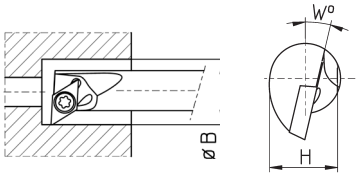
Artikel.-Nr. *article-no.*	Platte *insert*	D	d	L	L_2	F	W [°]	H	Bmin	IK	Schraube *screw*	Schlüssel *spanner*
BS-E0810K-SDQCR/L07	DC... 0702	10	8	125	45	7	10	9,5	10,4	✓	A12-W6025040	T8
BS-E10K-SDQCR/L07	DC... 0702	10	--	125	--	7	10	9,5	12,5	✓	A12-W6025049	T8
BS-E10M-SDQCR/L07	DC... 0702	10	--	150	--	7	10	9,5	12,5	✓	A12-W6025049	T8
BS-E12M-SDQCR/L07	DC... 0702	12	--	150	--	9	6	11,5	15,5	✓	A12-W6025049	T8
BS-E12Q-SDQCR/L07	DC... 0702	12	--	180	--	9	6	11,5	15,5	✓	A12-W6025049	T8
BS-E16R-SDQCR/L07	DC... 0702	16	--	200	--	11	6	15,5	19,5	✓	A12-W6025060	T8
BS-E16R-SDQCR/L11	DC... 11T3	16	--	200	--	11,5	8	15,5	20,2	✓	A12-W6040070	T15

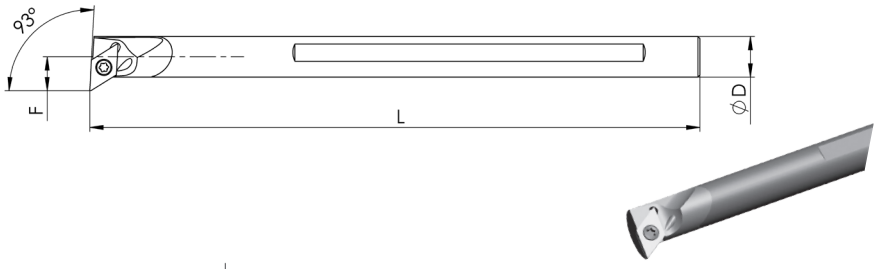
VHM - Bohrstangen
mit Innenkühlung, für höchste Präzision

Carbide Boring Bars
also with inner coolant, for highest precision

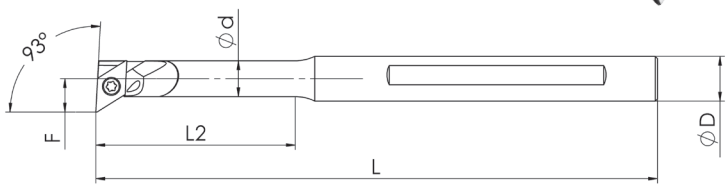
E...SDUC R/L

Freiwinkel 7° *Clearance angle 7°*





(Ausführung BS-E0810K-SDQCR07)
(Version BS-E0810K-SDQCR07)



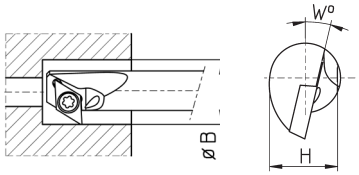
Artikel.-Nr. *article-no.*	Platte *insert*	D	d	L	L_2	F	W [°]	H	Bmin	IK	Schraube *screw*	Schlüssel *spanner*
BS-E08K-SDUCR/L07	DC... 0702	8	--	125	--	7,5	15	7,5	12,4	✓	A12-W6025049	T8
BS-E0810K-SDUCR/L07	DC... 0702	10	8	125	44	7,5	10	9,5	12,2	--*	A12-W6025049	T8
BS-E10K-SDUCR/L07	DC... 0702	10	--	125	--	7	10	9,5	12,5	✓	A12-W6025049	T8
BS-E10M-SDUCR/L07	DC... 0702	10	--	150	--	8,5	13	9,5	14	✓	A12-W6025060	T8
BS-E10M-SDUCR/L07-F	DC... 0702	10	--	150	--	7	13	9,5	12,5	✓	A12-W6025060	T8
BS-E12M-SDUCR/L07	DC... 0702	12	--	150	--	9,5	10	11,5	16	✓	A12-W6025060	T8
BS-E12Q-SDUCR/L07	DC... 0702	12	--	180	--	9	10	11,5	15,5	✓	A12-W6025060	T8
BS-E16R-SDUCR/L07	DC... 0702	16	--	200	--	11,5	10	15,5	20	✓	A12-W6025078	T8
BS-E16R-SDUCR/L07-F	DC... 0702	16	--	200	--	11	10	15,5	19,5	✓	A12-W6025078	T8
BS-E16R-SDUCR/L011	DC... 11T3	16	--	200	--	12	8	15,5	20,5	✓	A12-W6040078	T15
BS-E20R-SDUCR/L011	DC... 11T3	20	--	200	--	14	6	19,5	25,2	✓	A12-W6040078	T15

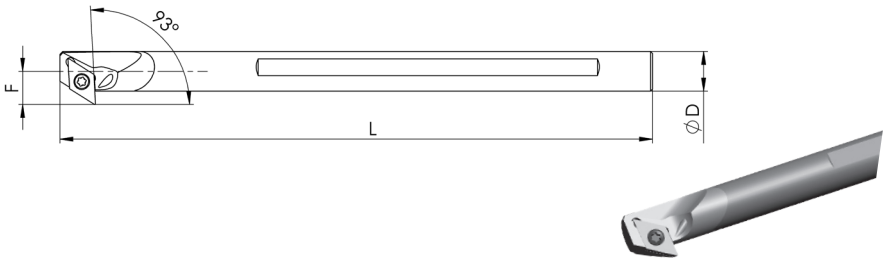
*** mit innerer Kühlmittelzufuhr auf Anfrage**

**** with inner coolant on request***

E...SDZC R/L

Freiwinkel 7° *Clearance angle 7°*



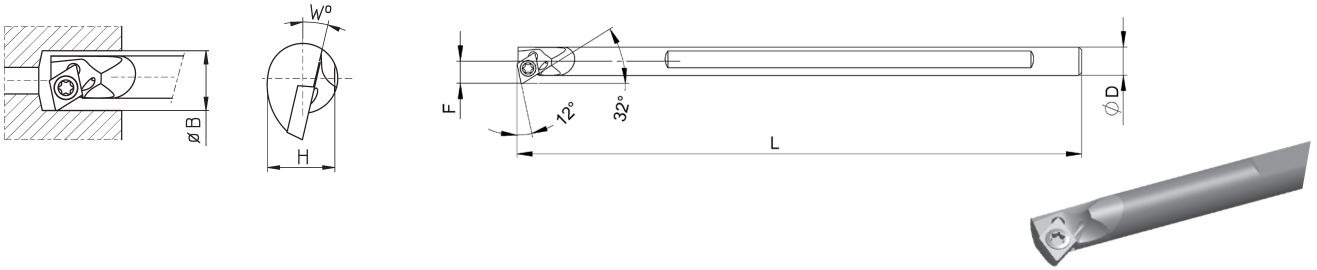


Artikel.-Nr. *article-no.*	Platte *insert*	D	L	F	W [°]	H	Bmin	IK	Schraube *screw*	Schlüssel *spanner*
BS-E08K-SDZCR/L07	DC... 0702	8	125	7,5	15	7,5	12,4	✓	A12-W6025049	T8
BS-E10M-SDZCR/L07	DC... 0702	10	150	8,5	13	9,5	14	✓	A12-W6025060	T8
BS-E12M-SDZCR/L07	DC... 0702	12	150	9,5	10	11,5	16	✓	A12-W6025060	T8
BS-E16R-SDZCR/L07	DC... 0702	16	200	11,5	10	15,5	20	✓	A12-W6025078	T8

E...SJXC R/L

Freiwinkel 7° *Clearance angle 7°*

Vorteil: Für außergewöhnlich tiefes Einstechmaß (vgl. F) bei sehr kleinem Bmin
Advantage: For exceptionally large recess depth (see F) at very low Bmin

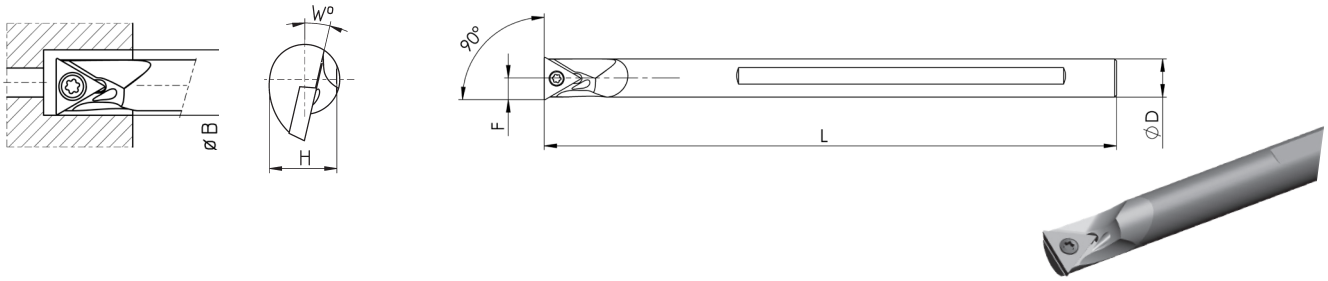


Artikel.-Nr. *article-no.*	Platte *insert*	D	L	F	W [°]	H	Bmin	IK	Schraube *screw*	Schlüssel *spanner*
BS-E04G-SJXCR/L03	JC... 0301	4	90	3,5	10	3,6	5,8	✓*	A12-W6016028	T6
BS-E05H-SJXCR/L03	JC... 0301	5	100	4	7	4,5	6,8	✓*	A12-W6016028	T6

*** mit innerer Kühlmittelzufuhr auf Anfrage** **** with inner coolant on request***

E...STFC R/L

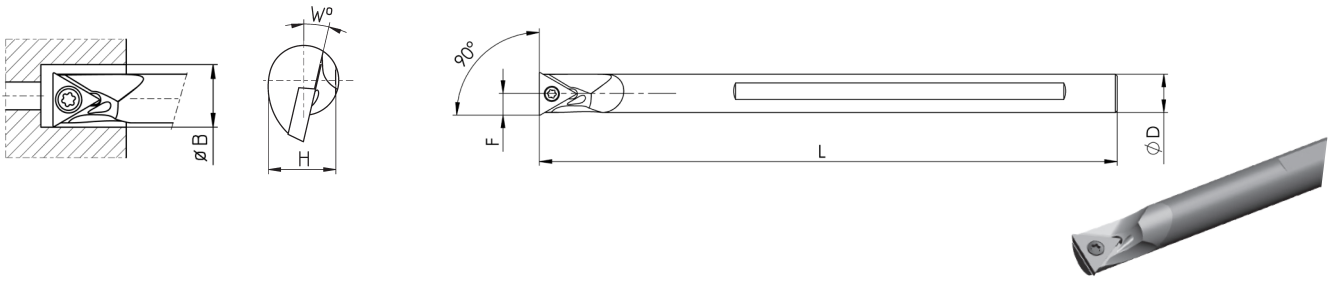
Freiwinkel 7° *Clearance angle 7°*



Artikel.-Nr. *article-no.*	Platte *insert*	D	L	F	W [°]	H	Bmin	IK	Schraube *screw*	Schlüssel *spanner*
BS-E08K-STFCR/L09	TC... 0902	8	125	5,5	11	7,5	9,4	✓	A12-W6022043	T7
BS-E10M-STFCR/L09	TC... 0902	10	150	6,5	9	4,5	12	✓	A12-W6022050	T7

E...STFP R/L

Freiwinkel 11° *Clearance angle 11°*



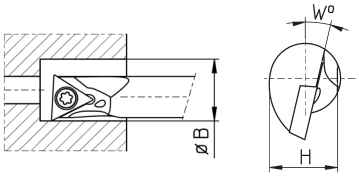
Artikel.-Nr. *article-no.*	Platte *insert*	D	L	F	W [°]	H	Bmin	IK	Schraube *screw*	Schlüssel *spanner*
BS-E08K-STFPR/L08	TP.. 0802	8	125	5	10	7,5	9,4	✓	A12-W6022043	T7
BS-E10K-STFPR/L09	TP.. 0902	10	150	6	7	9,5	11,5	✓	A12-W6025050	T8

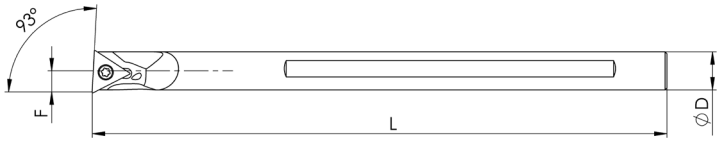
VHM - Bohrstangen
mit Innenkühlung, für höchste Präzision

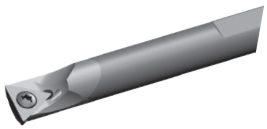
Carbide Boring Bars
also with inner coolant, for highest precision

E...STUB R/L

Freiwinkel 5° *Clearance angle 5°*



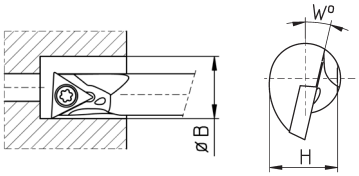


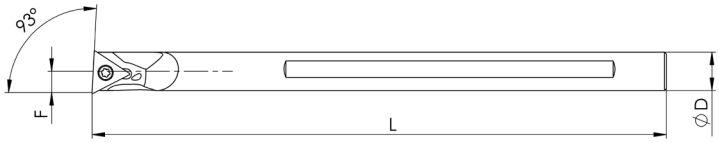


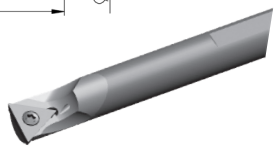
Artikel.-Nr. *article-no.*	Platte *insert*	D	L	F	W [°]	H	Bmin	IK	Schraube *screw*	Schlüssel *spanner*
BS-E06J-STUBR/L06	TB.. 0601	6	110	3,7	10	5,5	7,1	✓	A12-W5420030	T6
BS-E07K-STUBR/L06	TB.. 0601	7	125	4,2	10	6,5	8,1	✓	A12-W5420035	T6
BS-E08K-STUBR/L06	TB.. 0601	8	125	4,7	10	7,5	9,1	✓	A12-W5420040	T6

E...STUC R/L ...STUP R/L

Freiwinkel 7° / 11° *Clearance angle 7° / 11°*



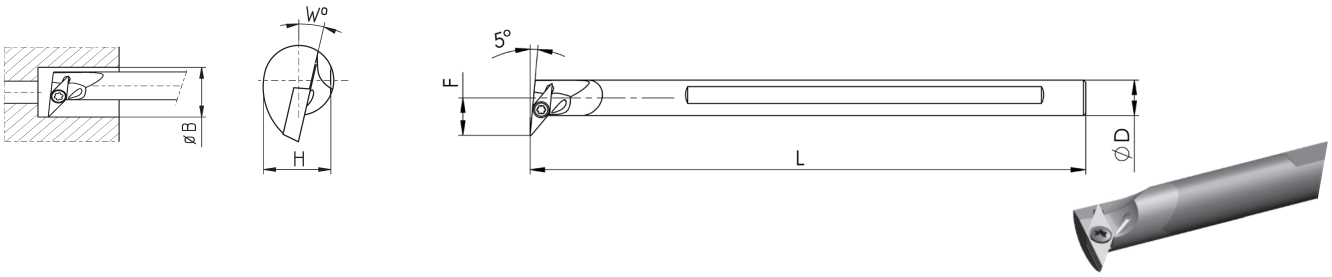




Artikel.-Nr. *article-no.*	Platte *insert*	D	L	F	W [°]	H	Bmin	IK	Schraube *screw*	Schlüssel *spanner*
BS-E06J-STUPR/L07	TP.. 07T1	6	110	3,6	7	5,5	7,1	✓	A12-W5420030	T6
BS-E08K-STUPR/L07	TP.. 07T1	8	125	4,6	7	7,5	9	✓	A12-W5420035	T6
BS-E08K-STUPR/L09	TP.. 0902	8	125	5,5	7	7,5	9,9	✓	A12-W6025040	T8
BS-E08K-STUCR/L09	TC.. 0902	8	125	5,5	11	7,5	9,9	✓	A12-W6022043	T7
BS-E10K-STUCR/L09	TC.. 0902	10	125	6,5	7	9,5	12	✓	A12-W6022050	T7
BS-E10M-STUCR/L11	TC.. 1102	10	150	5,5	7	9,5	11,3	✓	A12-W6025049	T8
BS-E12M-STUCR/L11	TC.. 1102	12	150	6,5	7	11,5	13	✓	A12-W6025060	T8
BS-E16R-STUCR/L11	TC.. 1102	16	200	8,5	7	15,5	17,2	✓	A12-W6025060	T8

E...SVLC R/L

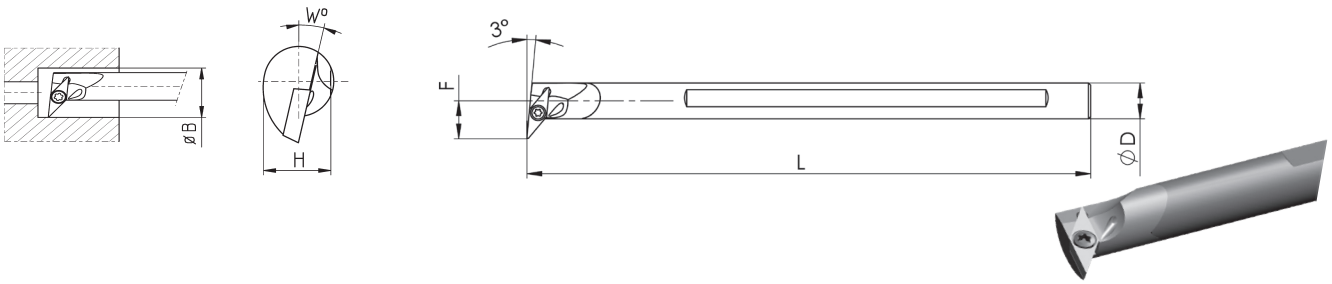
Freiwinkel 7° *Clearance angle 7°*



Artikel.-Nr. *article-no.*	Platte *insert*	D	L	F	W [°]	H	Bmin	IK	Schraube *screw*	Schlüssel spanner
BS-E08K-SVLCR/L07	VC.. 0702	8	125	8,5	10	7,5	12,9	✓	A12-W5420048	T6
BS-E10M-SVLCR/L07	VC.. 0702	10	150	8	8	9,5	15	✓	A12-W5420055	T6
BS-E12M-SVLCR/L07	VC.. 0702	12	150	9,5	6	11,5	17	✓	A12-W5420055	T6

E...SVUC R/L

Freiwinkel 7° *Clearance angle 7°*

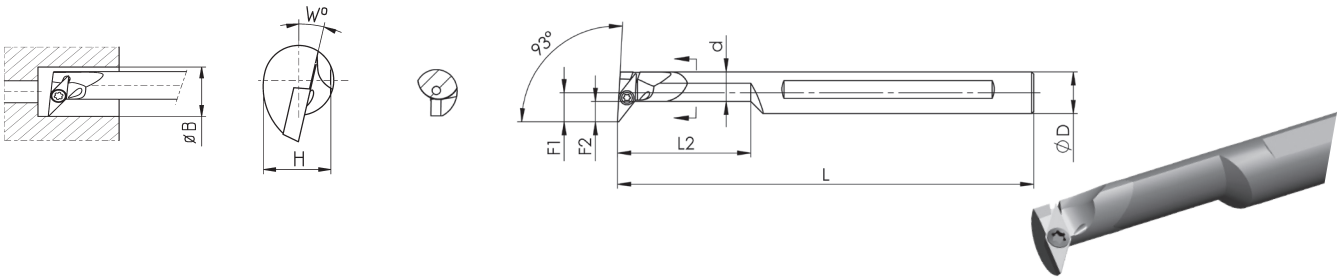


Artikel.-Nr. *article-no.*	Platte *insert*	D	L	F	W [°]	H	Bmin	IK	Schraube *screw*	Schlüssel spanner
BS-E12M-SVUCR/L11	VC.. 1103	12	150	13	6	11,5	19,5	✓	A12-W6025060	T7

E...SVLC R/L - EX ...SVUC R/L - EX

Freiwinkel 7° *Clearance angle 7°*

Vorteil: Sehr große Einstichtiefe bei hoher Schaftsteifigkeit
Advantage: Very large recess depth with high shaft rigidity



Artikel.-Nr. *article-no.*	Platte *insert*	D	d	L	L2	F1	F2	W [°]	H	Bmin	IK	Schraube *screw*	Schlüssel spanner
BS-E10M-SVLCR/L07-EX *	VC.. 0702	10	7	150	32	7	5	10	9,5	12,5	✓	A12-W5420055	T6
BS-E10M-SVUCR/L07-EX	VC.. 0702	10	7	150	32	7	5	10	9,5	12,5	✓	A12-W5420055	T6
BS-E16M-SVUCR/L11-EX	VC.. 1103	16	11,5	150	60	12	8	6	15,5	20	✓	A12-W6025078	T6

*** Anstellwinkel 95°**

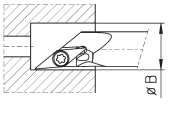
*** work angle 95°**

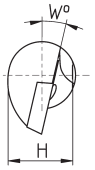
VHM - Bohrstangen
mit Innenkühlung, für höchste Präzision

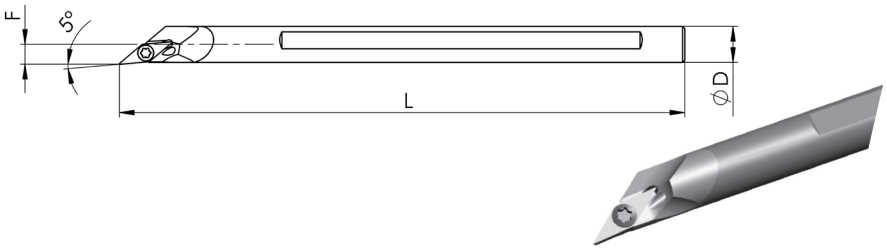
Carbide Boring Bars
also with inner coolant, for highest precision

E...SVOC R/L

Freiwinkel 7° *Clearance angle 7°*



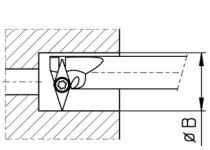


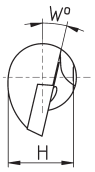


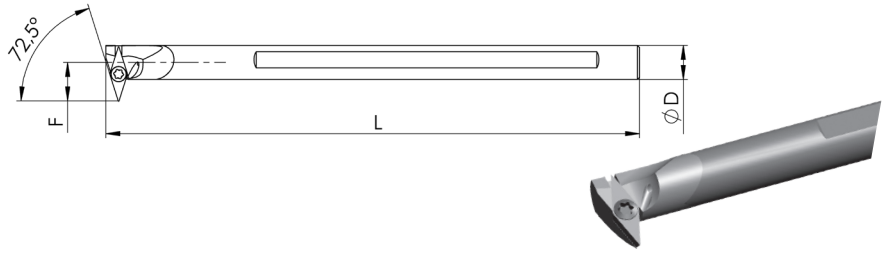
Artikel.-Nr. *article-no.*	Platte *insert*	D	L	F	W [°]	H	Bmin	IK	Schraube *screw*	Schlüssel spanner
BS-E08K-SVOCR/L07	VC.. 0702	8	125	4,5	10	7,5	8,9	✓	A12-W5420040	T6
BS-E10M-SVOCR/L07	VC.. 0702	10	150	5,5	8	9,5	11	✓	A12-W5420040	T6
BS-E12M-SVOCR/L07	VC.. 0702	12	150	6,5	6	11,5	13	✓	A12-W5420040	T6

E...SVVC R/L

Freiwinkel 7° *Clearance angle 7°*



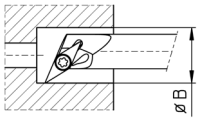


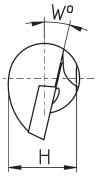


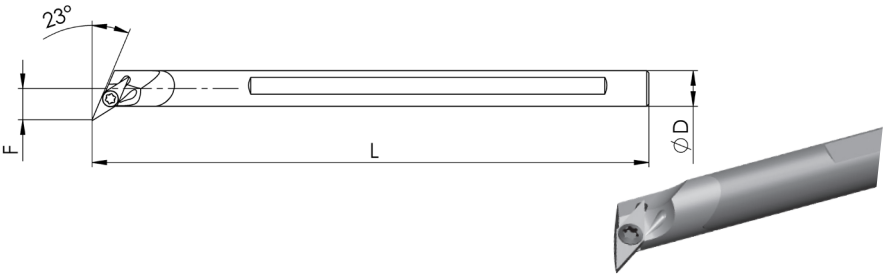
Artikel.-Nr. *article-no.*	Platte *insert*	D	L	F	W [°]	H	Bmin	IK	Schraube *screw*	Schlüssel spanner
BS-E08K-SVVCR/L07	VC.. 0702	8	125	9	10	7,5	13,5	✓	A12-W5420048	T6
BS-E10M-SVVCR/L07	VC.. 0702	10	150	10	8	9,5	15,5	✓	A12-W5420055	T6
BS-E12M-SVVCR/L07	VC.. 0702	12	150	11	6	11,5	17,5	✓	A12-W5420055	T6

E...SVXC R/L

Freiwinkel 7° *Clearance angle 7°*



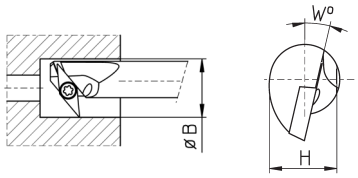


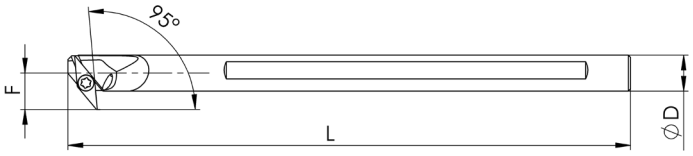


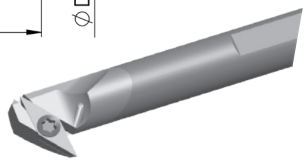
Artikel.-Nr. *article-no.*	Platte *insert*	D	L	F	W [°]	H	Bmin	IK	Schraube *screw*	Schlüssel spanner
BS-E08K-SVXCR/L07	VC.. 0702	8	125	7	10	7,5	11,4	✓	A12-W5420040	T6
BS-E10M-SVXCR/L07	VC.. 0702	10	150	8	8	9,5	13,5	✓	A12-W5420048	T6
BS-E12M-SVXCR/L07	VC.. 0702	12	150	9	6	11,5	15,5	✓	A12-W5420048	T6

E...SVZC R/L

Freiwinkel 7° *Clearance angle 7°*



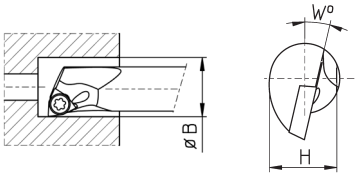


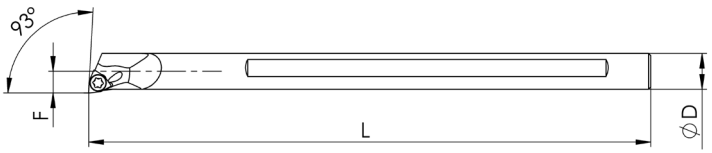


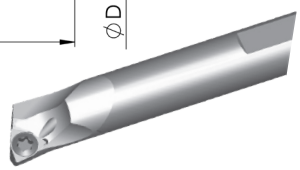
Artikel.-Nr. *article-no.*	Platte *insert*	D	L	F	W [°]	H	Bmin	IK	Schraube *screw*	Schlüssel *spanner*
BS-E08K-SVZCR/L07	VC.. 0702	8	125	8	10	7,5	12,4	✓	A12-W5420048	T6
BS-E10M-SVZCR/L07	VC.. 0702	10	150	9	8	9,5	14,5	✓	A12-W5420048	T6
BS-E12M-SVZCR/L07	VC.. 0702	12	150	10	6	11,5	16,5	✓	A12-W5420055	T6

C/E...SWUB R/L

Freiwinkel 5° *Clearance angle 5°*







Artikel.-Nr. *article-no.*	Platte *insert*	D	L	F	W [°]	H	Bmin	IK	Schraube *screw*	Schlüssel *spanner*
BS-E05F-SWUBR/L06	WBGT 0601	5	80	3	17	4,5	5,8	✓*	A12-W5420030	T6
BS-E055F-SWUBR/L06	WBGT 0601	5,5	80	3,25	15	5	6,4	--	A12-W5420030	T6
BS-E06F-SWUBR/L06	WBGT 0601	6	80	3,5	15	5,5	6,9	✓	A12-W5420030	T6
BS-E07F-SWUBR/L06	WBGT 0601	7	80	4	13	6,5	7,8	✓*	A12-W5420033	T6
BS-E08K-SWUBR/L06	WBGT 0601	8	125	4,5	12	6,5	9	✓	A12-W5420035	T6

*** mit innerer Kühlmittelzufuhr auf Anfrage**

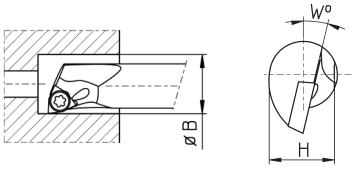
**** with inner coolant on request***

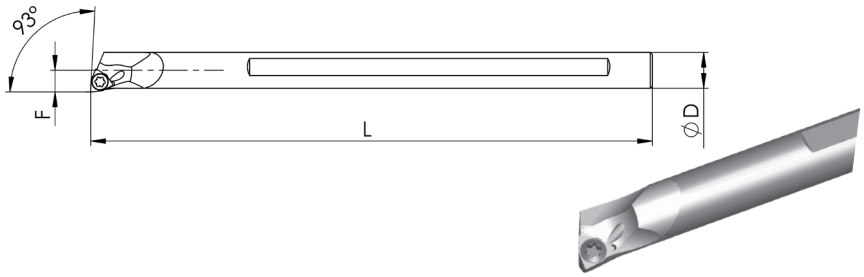
VHM - Bohrstangen
mit Innenkühlung, für höchste Präzision

Carbide Boring Bars
also with inner coolant, for highest precision

E...SWUC R/L

Freiwinkel 7° *Clearance angle 7°*





Artikel.-Nr. *article-no.*	Platte *insert*	D	L	F	W [°]	H	Bmin	IK	Schraube *screw*	Schlüssel *spanner*
BS-E06J-SWUCR/L02	WCGX 0201	6	110	3,9	17	5,5	7,3	✓	A12-W5420030	T6
BS-E08K-SWUCR/L02	WCGX 0201	8	125	4,9	12	7,5	9,4	✓	A12-W5420033	T6
BS-E10M-SWUCR/L02	WCGX 0201	10	150	5,9	12	9,5	10,4	✓	A12-W5420040	T6

VHM - Bohrstangensatz

Carbide Boring Bars Set

E - SCLCR/L06 - Satz *set* in Plastik-Box, mit Schraubendreher *in plastic box incl. screwdriver*

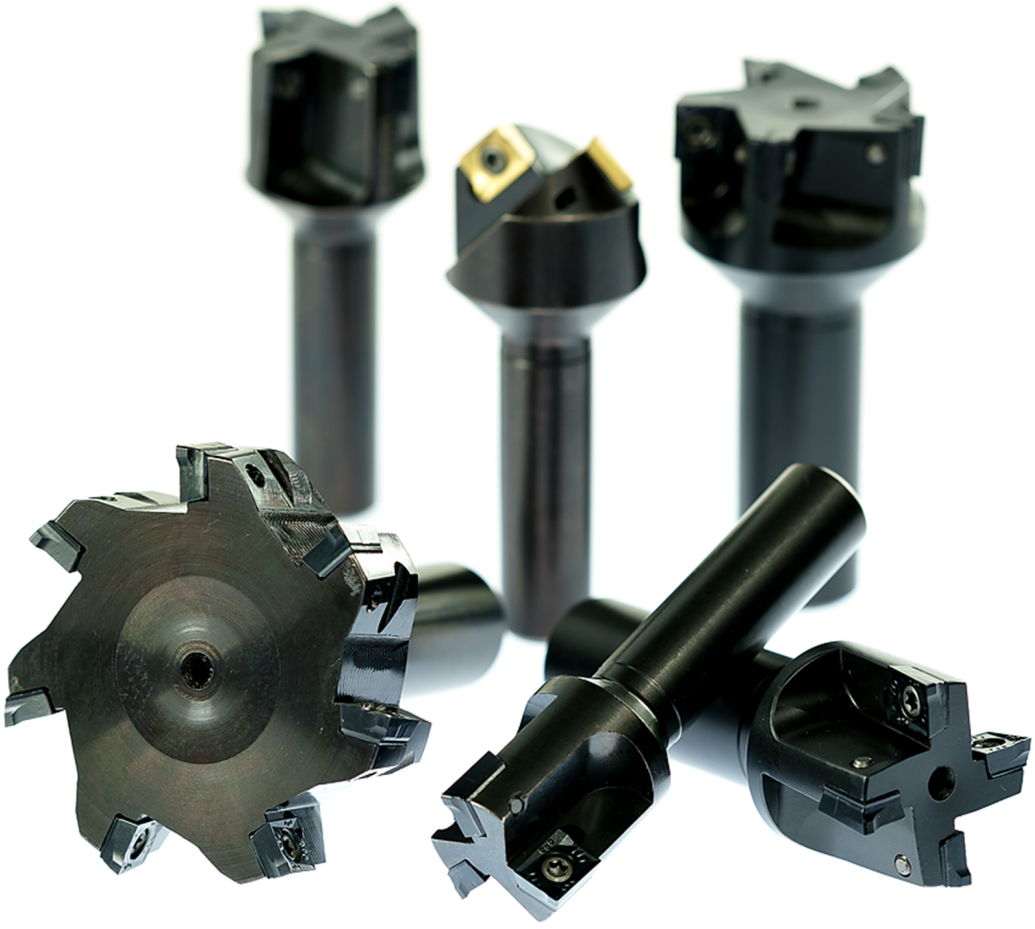
Artikel.-Nr. *article-no.*	Satz bestehend aus *set, includes*	D	L
SET-E-SCLCR/L06	BS-E08K-SCLC R/L 06	8	125
	BS-E10K-SCLC R/L 06	10	125
	BS-E12M-SCLC R/L 06	12	150



E - SDUCR/L07 - Satz *set* in Plastik-Box, mit Schraubendreher *in plastic box incl. screwdriver*

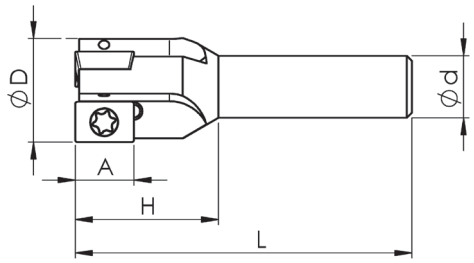
Artikel.-Nr. *article-no.*	Satz bestehend aus *set includes*	D	L
SET-E-SDUCR/L07	BS-E0810H-SDUC R/L 07	8	100
	BS-E10K-SDUC R/L 07	10	125
	BS-E12M-SDUC R/L 07	12	150

Schaftfräser
End Mills



Schaftfräser für Wendeplatten

End Mills for Inserts





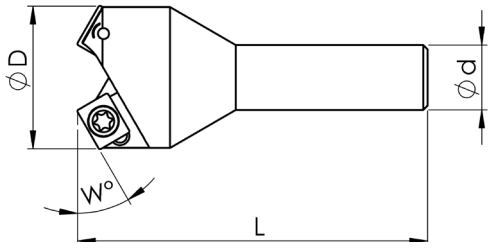
Optimiert für den Einsatz mit angetriebenen Werkzeugen bei CNC-Maschinen

Optimized for use with driven tools for CNC machines

Artikel.-Nr. *article-no.*	D	d	A	H	L	Z	Platte *insert*	Schraube *screw*	Schlüssel *spanners*
PRA-SFA012.003	12	10	8	18	65	1	APKT 0803 PD-R	A12-W4025055	T8
PRA-SFA012.004	12	12	8	18	65	1	APKT 0803 PD-R	A12-W4025055	T8
PRA-SFA016.006	16	16	8	18	65	2	APKT 0803 PD-R	A12-W4025055	T8
PRA-SFA016.007	16	16	8	18	85	3	APKT 0803 PD-R	A12-W4025055	T8
PRA-SFA016.008	16	10	8	18	65	2	APKT 0803 PD-R	A12-W4025055	T8
PRA-SFA016.009	16	12	8	18	65	2	APKT 0803 PD-R	A12-W4025055	T8
PRA-SFA020.012	20	16	8	18	65	3	APKT 0803 PD-R	A12-W4025055	T8
PRA-SFA020.013	20	10	8	18	65	3	APKT 0803 PD-R	A12-W4025055	T8
PRA-SFA020.014	20	12	8	18	65	3	APKT 0803 PD-R	A12-W4025055	T8
PRA-SFA025.011	25	16	8	18	65	4	APKT 0803 PD-R	A12-W4025055	T8
PRA-SFA025.012	25	10	8	18	65	4	APKT 0803 PD-R	A12-W4025055	T8
PRA-SFA025.013	25	12	8	18	65	4	APKT 0803 PD-R	A12-W4025055	T8
PRA-SFA030.007	30	16	8	18	65	4	APKT 0803 PD-R	A12-W6025060	T8
PRA-SFA032.007	32	16	8	18	65	5	APKT 0803 PD-R	A12-W6025060	T8
PRA-SFA032.008	32	12	8	18	65	5	APKT 0803 PD-R	A12-W6025060	T8
PRA-SFA040.003	40	16	8	22	65	6	APKT 0803 PD-R	A12-W6025060	T8
PRA-SFA050.001	50	16	8	22	65	7	APKT 0803 PD-R	A12-W6025060	T8

Fasfräser für Wendeplatten

Chamfer Mills for Inserts





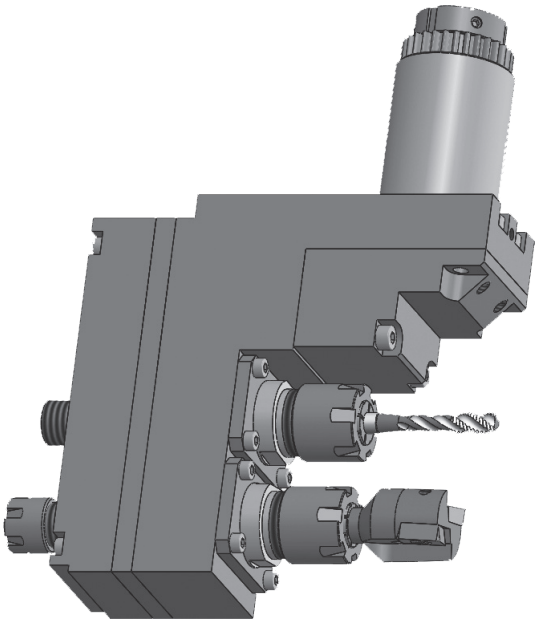
Artikel.-Nr. *article-no.*	D	d	W	L	Z	Platte *insert*	Schraube *screw*	Schlüssel *spanners*
PRA-FSS016.003	16	12	45°	65	2	SDMT 0803	A12-W4025055	T8
PRA-FSA012.003	12	12	30°	65	1	APKT 0803	A12-W4025055	T8
PRA-FSA012.004	12	12	45°	65	1	APKT 0803	A12-W4025055	T8

Anwendungsbeispiele

Samples of Applications

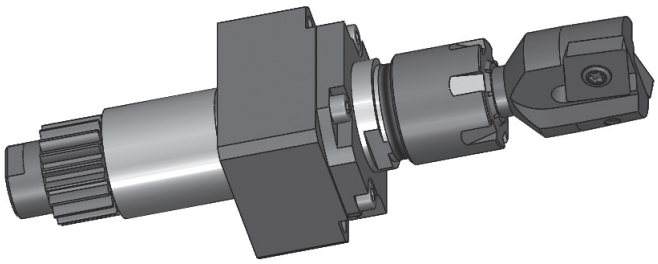
Schaft und Fasfräser im Einsatz mit angetriebenen Werkzeugen für CNC-Drehmaschinen

End Mills and Chamfer Mills in use with driven tools for CNC machines



Schaft- und Fasfräser mit Schaftdurchmesser von 10 - 16 mm
Besonders geeignet zur Nutzung in ER16 Werkzeughaltern / angetriebenen Werkzeugen

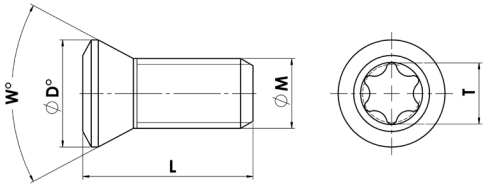
Particularly suitable for end mills and chamfer mills with shank diameters of 10 - 12 mm to use in ER16 tool holders / life tools

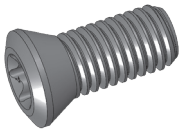


Schrauben für Wendeplattenhalter

Screws for Insert Tools

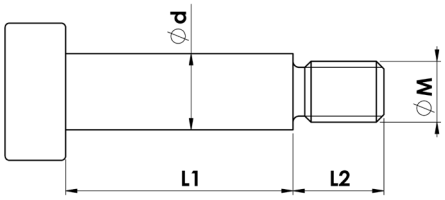


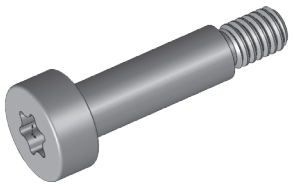




Artikel.-Nr. *article-no.*	M	L	W	T	D
A12-W6016024	M1,6	2,4	60	T6	2,6
A12-W6016026	M1,6	2,6	60	T6	2,6
A12-W6016028	M1,6	2,8	60	T6	2,6
A12-W6018026	M1,8	2,6	60	T6	2,74
A12-W6018033	M1,8	3,3	60	T6	2,74
A12-W4020033	M2	3,3	40	T6	2,8
A12-W4020035	M2	3,5	40	T6	2,7
A12-W4020039	M2	3,9	40	T6	2,6
A12-W4020045	M2	4,5	40	T6	2,6
A12-W6020030	M2	3	54	T6	2,8
A12-W5420033	M2	3,3	54	T6	2,8
A12-W5420035	M2	3,5	54	T6	2,8
A12-W5420040	M2	4	54	T6	2,8
A12-W5420048	M2	4,8	54	T6	2,8
A12-W5420055	M2	5,5	54	T6	2,8
A12-W4022045	M2,2	4,5	40	T7	3
A12-W6022045	M2,2	4,3	60	T7	3,1
A12-W6022048	M2,2	5	60	T7	3,1
A12-W4025045	M2,5	4,5	40	T8	3,5
A12-W4025055	M2,5	5,5	40	T8	3,5
A12-W5625042	M2,5	4,2	56	T8	3,5
A12-W6025042	M2,5	3,1	60	T8	3,5
A12-W6025045	M2,5	4	60	T8	3,5
A12-W6025055	M2,5	4,9	60	T8	3,5
A12-W6025060	M2,5	6	60	T8	3,5
A12-W6025078	M2,5	7,8	60	T8	3,5
A12-W4530070	M3	7	45	T8	4,1
A12-W6030082	M3	8,2	60	T9	4,5
A12-W6030100	M3	10	60	T9	5,2
A12-W6035090	M3,5	9	60	T15	5,16
A12-W6035105	M3,5	10,5	60	T15	5,65
A12-W6035120	M3,5	12	60	T10	4,6
A12-W4040075	M4	7,5	40	T15	5,1
A12-W4040095	M4	9,5	40	T15	5,1
A12-W4540089	M4	8,9	45	T15	5,05
A12-W6040060	M4	6	60	T15	5,1
A12-W6040070	M4	7	60	T15	5,1
A12-W6040075	M4	7,5	60	T15	5,1
A12-W6040082	M4	8,2	60	T15	5,65
A12-W6040108	M4	10,8	60	T15	5,7
A12-W5645110	M4,5	11	56	T20	6,9

Passschrauben für Rückseitenhalter /
Fitting Screws for Backworking Tool Holders





Artikel.-Nr. *article-no.*	M	d	L1	L2
PS4045035	M4	4,5	3,5	10
PS4045095	M4	4,5	9,5	10
PS4045155	M4	4,5	15,5	10
PS4046035	M4	4,6	3,5	10
PS4046145	M4	4,6	14,5	10
PS4046160	M4	4,6	16	10
PS4048075	M4	4,8	7,5	10
PS4048180	M4	4,8	18	10
PS4050165	M4	5,0	16,5	10
PS5055030	M5	5,5	3	11
PS5055055	M5	5,5	5,5	11
PS5055145	M5	5,5	14,5	11
PS5055165	M5	5,5	16,5	11
PS5055215	M5	5,5	21,5	11
PS5055435	M5	5,5	43,5	11

Drehmomentschlüssel
für Wendeplattenhalter

- Schont Schrauben und Wendeplatten
- Zur jeweiligen Klinge passender, farblich gekennzeichneter Drehmomentadapter

Torque Screwdriver
for Insert Tool Holders

- Protects screws and inserts
- For each socket adequate, color-coded torque adapter



Ausführung A - *version A*



Ausführung B - *version B*

Ausführung A - *version A*

Artikel.-Nr. *article-no.*		Inhalt - content
SET-DMS-1	**Torx (TX)**	TX6 TX7 TX8 TX9 TX10 TX15 TX20

Auch für Torx Plus (IP) verwendbar. Original Torx Plus-Schlüssel werden jedoch empfohlen.
Also suitable for Torx Plus (IP). Original Torx Plus spanners are recommended.

Ausführung B - *version B*

Artikel.-Nr. *article-no.*		Inhalt - content
SET-DMS-2	**Torx (TX)**	TX6 TX7 TX8 TX9 TX10 TX15 TX20 TX25
	Torx Plus (IP)	6IP 7IP 8IP 9IP 10IP 15IP 20IP 25IP
	Sechskant *hexagonal*	H02 H02.5 H03 H04

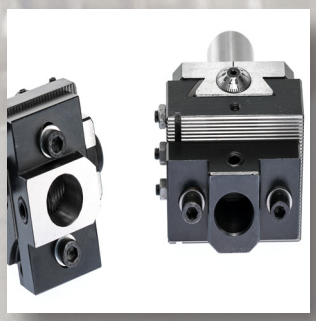
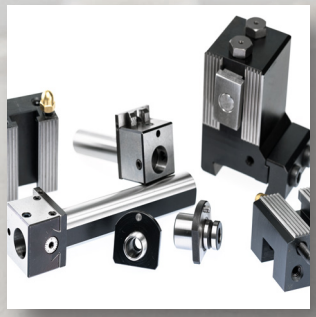
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