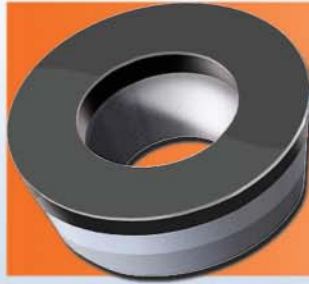
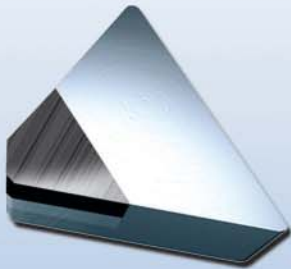


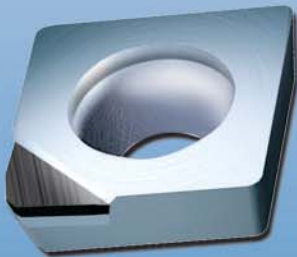
Milling



RDHX-0702MO
RDHX-1003MO
RDHX-12T3MO
(full face PCD & CBN)



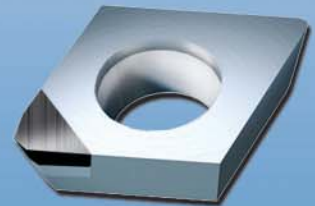
TPKN-32-PD
TPKN-43-PD
(PCD, CBN, MDC)



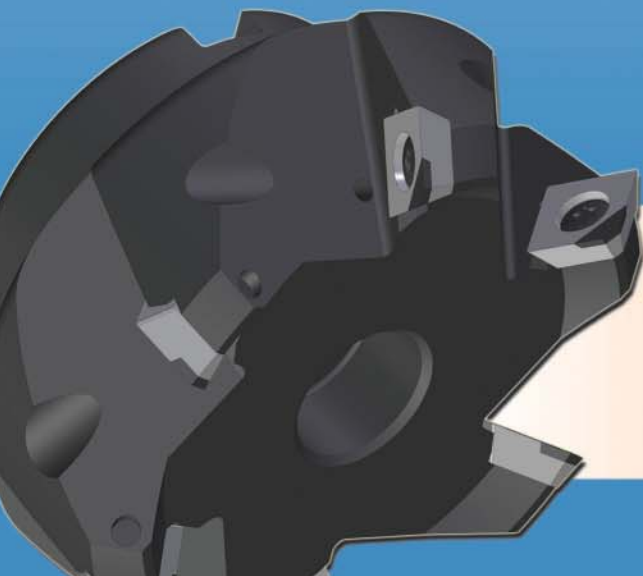
SPGT-43-ED
(positive right hand)



SPKN-42-ED
(PCD, CBN, MDC)



CPGW-43-PD
(PCD & MDC)

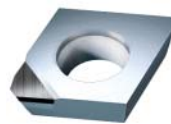


SEHW-43-AF
SDHW-43-AE
(neutral - PCD & CBN)



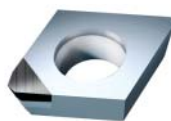
Inserts - PCD & MDC

CPGT..PD R Milling insert positive right hand



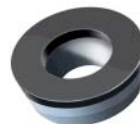
Insert	Designation	Dimensions						PDC-S	PDC	PDC-L	MDC		
		d	d ¹	s	l	l ¹	r	DP			DM		
	CPGT-43PDR-4					.177	--	■					
	CPGT-43PDR-6	.500	.217	.187	.500	.295	--	■					
	CPGT-43PDR-8					.354	--	■					

CPGW..PD R Milling insert neutral

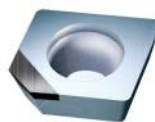


Insert	Designation	Dimensions						PDC-S	PDC	PDC-L	MDC		
		d	d ¹	s	l	l ¹	r	DP			DM		
	CPGW-43PDR-2					.079	--				■		
	CPGW-43PDR-4	.500	.217	.187	.500	.177	--	■					
	CPGW-43PDR-6					.295	--	■					

RDHX Milling insert fullface

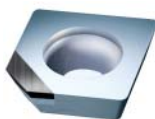


Insert	Designation	Dimensions						PDC-S	PDC	PDC-L	MDC		
		d	d ¹	s	l	l ¹	r	DP			DM		
	RDHX-0501M0	.197	.079	.059	--	--	--	■					
	RDHX-0702M0	.276	.106	.094	--	--	--	■					
	RDHX-1003M0	.394	.150	.125	--	--	--	■					
	RDHX-12T3M0	.472	.150	.156	--	--	--	■					



SDHW..AE N Milling insert neutral

Insert	Designation	Dimensions						PDC-S	PDC	PDC-L	MDC	
		d	d ¹	s	l	l ¹	r	DP			DM	
	SDHW-43AEN-4	.500	.217	.187	.500	.157	--	■				
	SDHW-43AEN-6					.236	--	■				



SEHW..AF N Milling insert neutral

Insert	Designation	Dimensions						PDC-S	PDC	PDC-L	MDC	
		d	d ¹	s	l	l ¹	r	DP			DM	
	SEHW-43AFN-4	.500	.217	.187	.500	.157	--	■				
	SEHW-43AFN-6					.236	--	■				



SEKN..AF N Milling insert neutral

Insert	Designation	Dimensions						PDC-S	PDC	PDC-L	MDC	
		d	d ¹	s	l	l ¹	r	DP			DM	
	SEKN-42AFN-4	.500	--	.125	.500	.157	--	■				
	SEKN-42AFN-6					.236	--	■				

Inserts - PCD & MDC

SPKN..ED R Milling insert right hand



Insert	Designation	Dimensions						PDC-S	PDC	PDC-L	MDC	
		d	d ¹	s	l	l ¹	r	DP			DM	
	SPKN-42EDR-2					.079	--				■	
	SPKN-42EDR-4	.500	--	.125	.500	.177	--	■				
	SPKN-42EDR-6					.295	--	■				

SPGW..ED R Milling insert right hand



Insert	Designation	Dimensions						PDC-S	PDC	PDC-L	MDC	
		d	d ¹	s	l	l ¹	r	DP			DM	
	SPGW-43EDR-2					.079	--				■	
	SPGW-43EDR-4	.500	.217	.187	.500	.177	--	■				
	SPGW-43EDR-6					.295	--	■				

SPGT..ED R Milling insert positive, right hand



Insert	Designation	Dimensions						PDC-S	PDC	PDC-L	MDC	
		d	d ¹	s	l	l ¹	r	DP			DM	
	SPGT-43EDR-8	.500	.217	.187	.500	.335	--	■				

Inserts - PCD & MDC



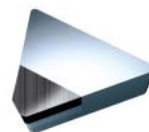
SPGW..PD R Milling insert right hand

Insert	Designation	Dimensions						PDC-S	PDC	PDC-L	MDC	
		d	d ¹	s	l	l ¹	r	DP			DM	
	SPGW-43PDR-2					.079	--				■	
	SPGW-43PDR-4	.500	.217	.187	.500	.177	--	■				
	SPGW-43PDR-6					.295	--	■				



SPGT..PD R Milling insert positive, right hand

Insert	Designation	Dimensions						PDC-S	PDC	PDC-L	MDC	
		d	d ¹	s	l	l ¹	r	DP			DM	
	SPGT-43PDR-8	.500	.217	.187	.500	.335	--	■				

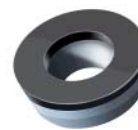


TPKN..PD R Milling insert right hand

Insert	Designation	Dimensions						PDC-S	PDC	PDC-L	MDC	
		d	d ¹	s	l	l ¹	r	DP			DM	
	TPKN-32PDR-2					.079	--				■	
	TPKN-32PDR-4	.375	--	.125	.650	.157	--	■				

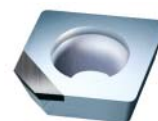
Inserts - CBN

RDHX Fullface milling insert



Insert	Designation	Dimensions						PBC-10	PBC-15	PBC-17	PBC-20	PBC-25	PBC-30	PBC-40
		d	d ¹	s	l	l ¹	r	BH			BL			
	RDHX-0702MOT-VM	.276	.106	.094	--	--	--	■	■	■	■	■	■	■
	RDHX-1003MOT-VM	.394	.150	.125	--	--	--	■	■	■	■	■	■	■
	RDHX-12T3MOT-VM	.472	.150	.156	--	--	--	■	■	■	■	■	■	■

SDHW..AE N MW milling insert



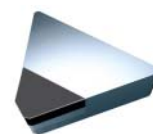
Insert	Designation	Dimensions						PBC-10	PBC-15	PBC-17	PBC-20	PBC-25	PBC-30	PBC-40
		d	d ¹	s	l	l ¹	r	BH			BL			
	SDHW-43AENT-MW	.500	.217	.187	.500	.157	--	■	■	■	■	■	■	■

SPKN..ED R MW milling insert



Insert	Designation	Dimensions						PBC-10	PBC-15	PBC-17	PBC-20	PBC-25	PBC-30	PBC-40
		d	d ¹	s	l	l ¹	r	BH			BL			
	SPKN-42EDRT-MW	.500	--	.125	.500	.157	--	■	■	■	■	■	■	■

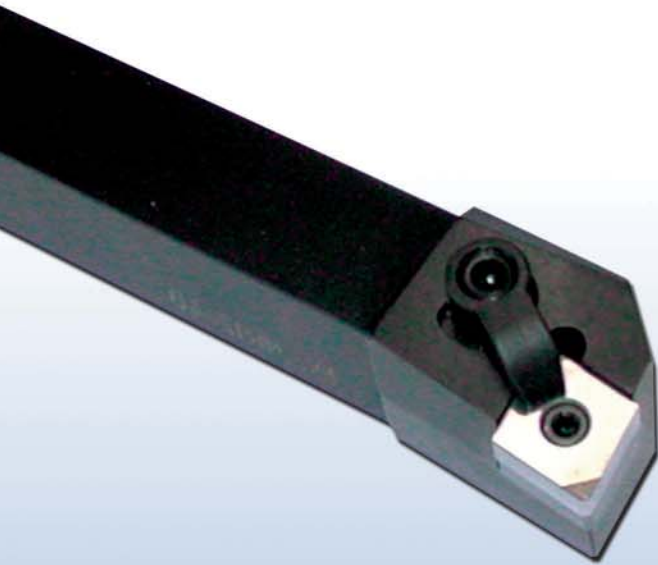
TPKN..PD R MW milling insert



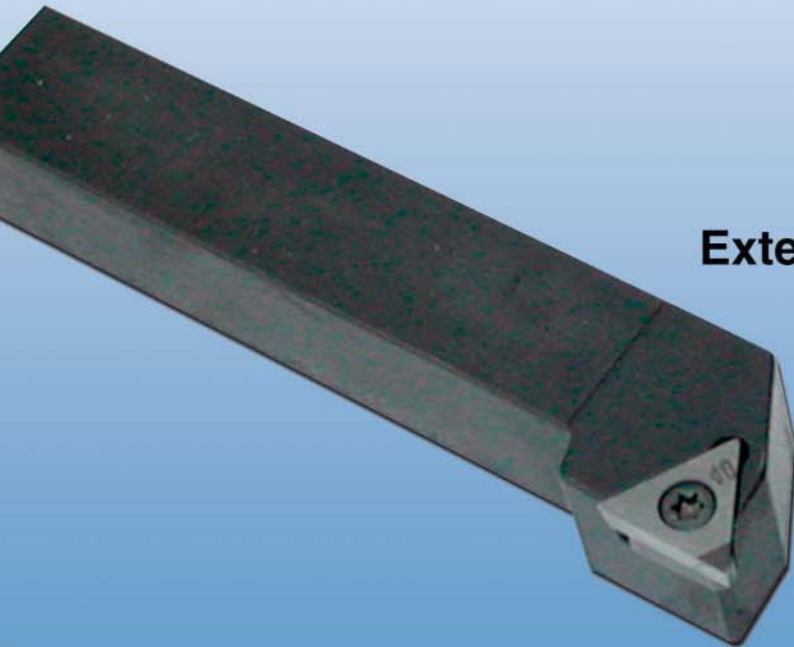
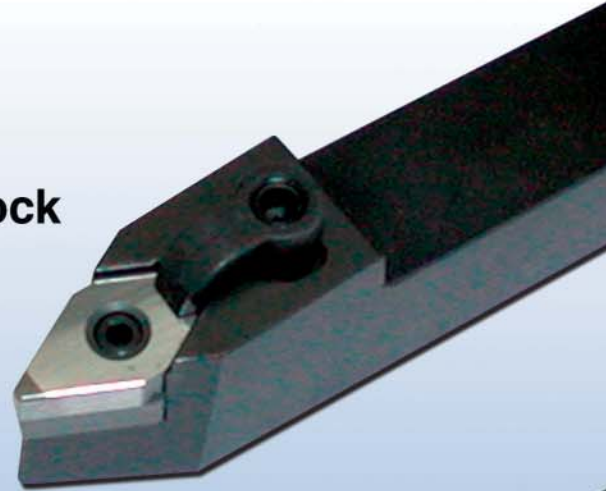
Insert	Designation	Dimensions						PBC-10	PBC-15	PBC-17	PBC-20	PBC-25	PBC-30	PBC-40
		d	d ¹	s	l	l ¹	r				BL			
	TPKN-32PDRT-MW	.375	--	.125	.650	.157	--	■	■	■	■	■	■	■
	TPKN-43PDRT-MW	.500	--	.187	.866	.157	--	■	■	■	■	■	■	■

Note: RDHX-070202MOT-VM: E= sharp cutting edge, T= T-Land

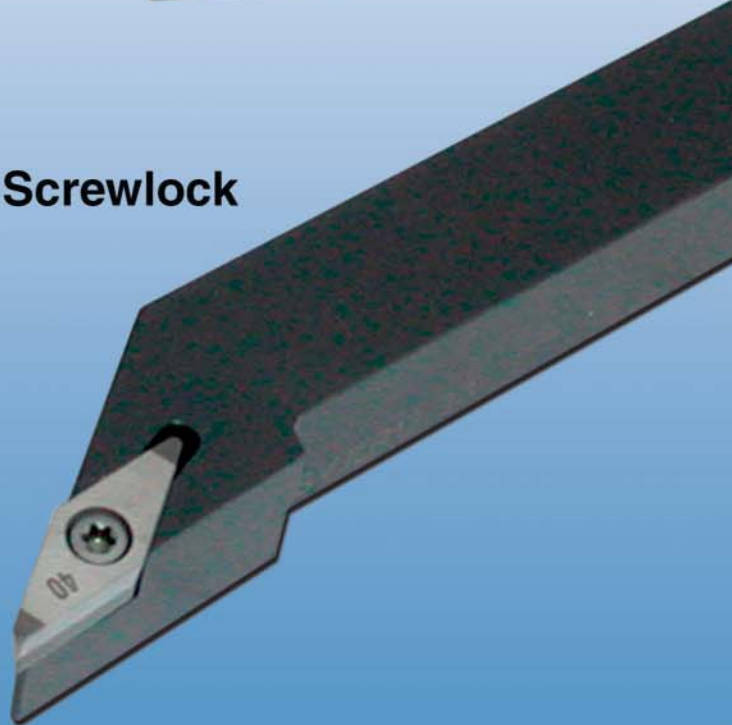
Tools



External Pinlock



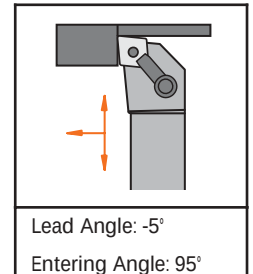
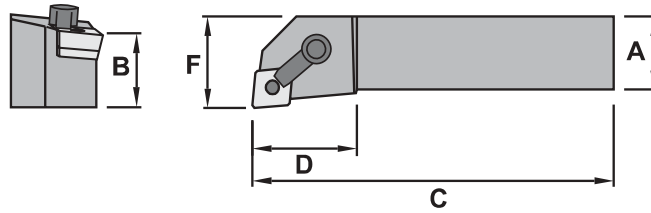
External Screwlock



**Internal Screwlock
Carbide Shank**

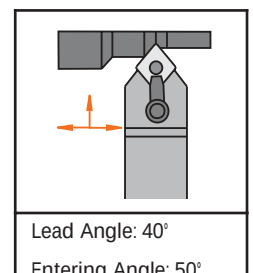
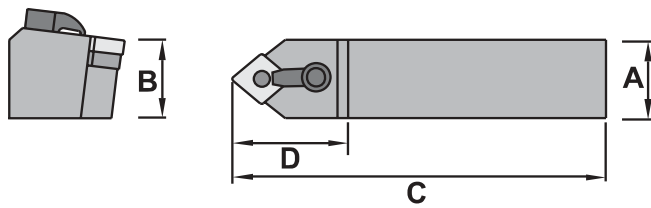


External Pinlock



Designation	A	B	C	D	F	Insert	shim	pin	clamp	clamp screw
MCLNR/L 12-4B	.750	.750	4.5	1.13	1.000	CNM_-43_	ICSN-432	NL-46	CL-20	XNS-48
MCLNR/L 16-4D	1.000	1.000	6.0	1.13	1.250					
MCLNR/L 20-4D	1.250	1.250	6.0	1.13	1.500					
MCLNR/L 85-4D	1.000	1.250	6.0	1.13	1.250					

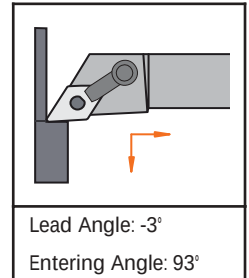
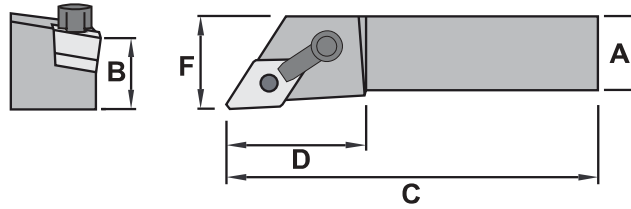
R/L= please choose right or left hand designation



Designation	A	B	C	D	Insert	shim	pin	clamp	clamp screw
MCMNN 12-4B	.750	.750	4.5	1.28	CNM_-43_	ICSN-432	NL-46	CL-20	XNS-48
MCMNN 16-4D	1.000	1.000	6.0	1.28					
MCMNN 20-4D	1.250	1.250	6.0	1.39					
MCMNN 85-4D	1.000	1.250	6.0	1.28					

External Pinlock

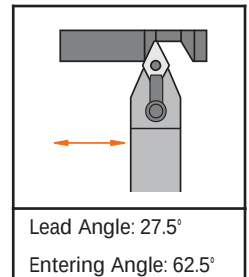
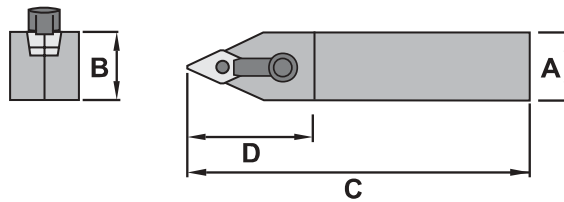
MDJNR/L



Designation	A	B	C	D	F	Insert	shim	pin	clamp	clamp screw
MDJNR/L 12-4B	.750	.750	4.5	1.25	1.000	DNM_-43_	IDSN-432	NL-46	CL-20	XNS-48
MDJNR/L 16-4D	1.000	1.000	6.0	1.25	1.250					
MDJNR/L 20-4D	1.250	1.250	6.0	1.25	1.500					
MDJNR/L 24-4D	1.500	1.500	6.0	1.25	2.000					
MDJNR/L 85-4D	1.000	1.250	6.0	1.25	1.250					
MDJNR/L 12-44B	.750	.750	4.5	1.44	1.000	DNM_-44_	IDSN-432	NL-46	CL-20	XNS-48
MDJNR/L 16-44D	1.000	1.000	6.0	1.50	1.250					
MDJNR/L 20-44E	1.250	1.250	7.0	1.62	1.500					

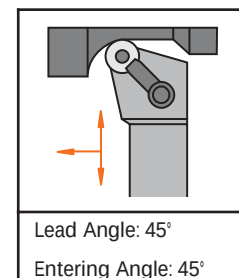
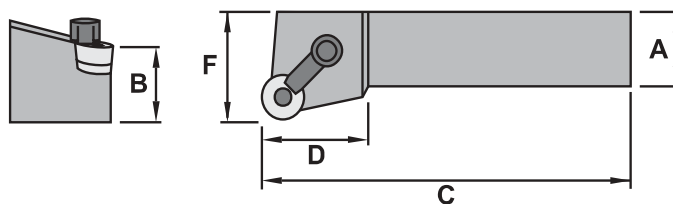
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MDPNN



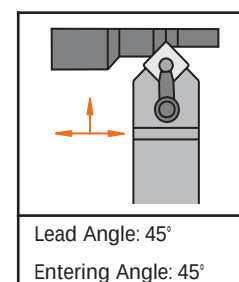
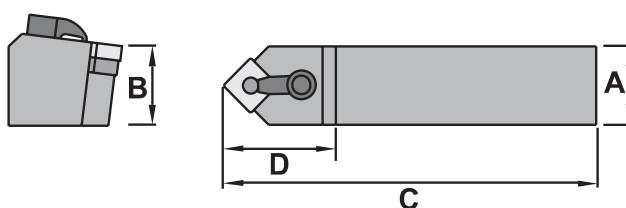
Designation	A	B	C	D	Insert	shim	pin	clamp	clamp screw
MDPNN 12-4B	.750	.750	4.5	1.62	DNM_-43_	IDSN-432	NL-46	CL-20	XNS-48
MDPNN 16-4D	1.000	1.000	6.0	1.62					
MDPNN 20-4D	1.250	1.250	6.0	1.62					
MDPNN 12-44B	.750	.750	4.5	1.62	DNM_-44_	IDSN-432	NL-46	CL-20	XNS-48
MDPNN 16-44D	1.000	1.000	6.0	1.62					
MDPNN 20-44E	1.250	1.250	7.0	1.62					

External Pinlock

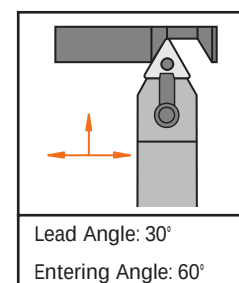
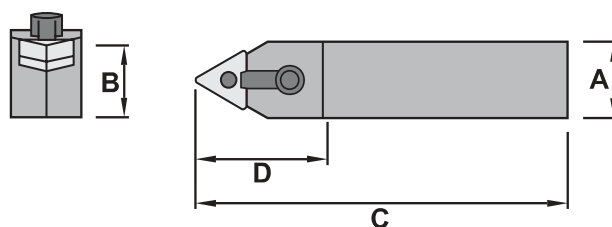


Designation	A	B	C	D	F	Insert	shim	pin	clamp	clamp screw
MRGNR/L 12-3B	.750	.750	4.5	.81	1.000	RNMG-32	--	NL-33	CL-6	XNS-36
MRGNR/L 12-4B	.750	.750	4.5	1.06	1.000	RNMG-43	IRSN-43	NL-46	CL-20	XNS-48
MRGNR/L 16-4D	1.000	1.000	6.0	1.06	1.250					
MRGNR/L 20-4D	1.250	1.250	6.0	1.06	1.500					
MRGNR/L 85-4D	1.000	1.250	6.0	1.06	1.250					
MRGNR/L 86-4D	1.000	1.500	6.0	1.06	1.250					

R/L= please choose right or left hand designation

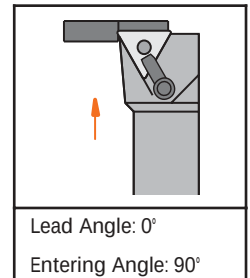
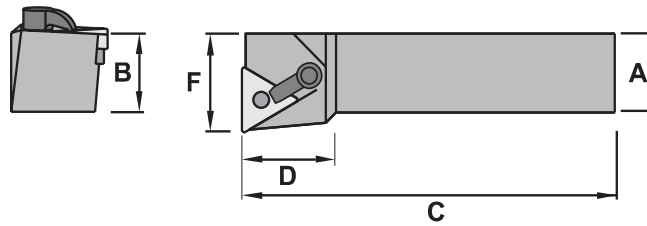


Designation	A	B	C	D	Insert	shim	pin	clamp	clamp screw
MSDNN 12-4B	.750	.750	4.5	1.30	SNM_-43_	ISSN-432	NL-46	CL-20	XNS-48
MSDNN 16-4D	1.000	1.000	6.0	1.30					
MSDNN 85-4D	1.000	1.250	6.0	1.30					



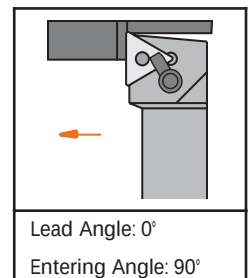
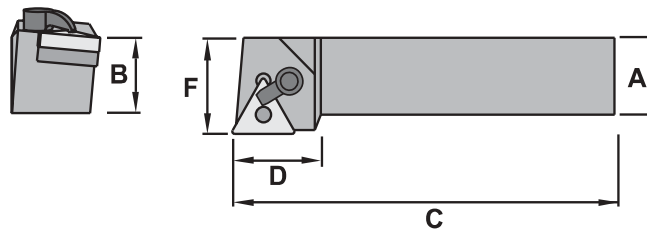
Designation	A	B	C	D	Insert	shim	pin	clamp	clamp screw
MTENN 12-3B	.750	.750	4.5	1.15	TNM_-33_	ITSN-322	NL-34L	CL-20	XNS-48
MTENN 16-3D	1.000	1.000	6.0	1.15					
MTENN 16-4D	1.000	1.000	6.0	1.50	TNM_-43_	ITSN-433	NL-63	CL-20	XNS-48

External Pinlock



Designation	A	B	C	D	F	Insert	shim	pin	clamp	clamp screw
MTFNR/L 12-3B	.750	.750	4.5	1.00	1.000	TNM_-33_	ITSN-322	NL-34L	CL-20	XNS-48
MTFNR/L 16-3D	1.000	1.000	6.0	1.00	1.250					
MTFNR/L 16-4D	1.000	1.000	6.0	1.00	1.250	TNM_-43_	ITSN-433	NL-46	CL-20	XNS-48
MTFNR/L 20-4D	1.250	1.250	6.0	1.00	1.500					
MTFNR/L 85-4D	1.000	1.250	6.0	1.00	1.250					
MTFNR/L 86-4D	1.000	1.500	6.0	1.00	1.250					

R/L= please choose right or left hand designation



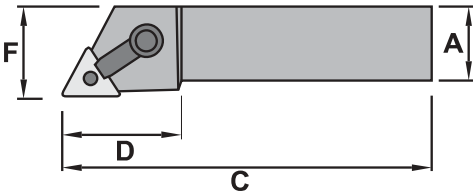
Designation	A	B	C	D	F	Insert	shim	pin	clamp	clamp screw
MTGNR/L 12-3B	.750	.750	4.5	1.06	1.000	TNM_-33_	ITSN-322	NL-34L	CL-20	XNS-48
MTGNR/L 16-3D	1.000	1.000	6.0	1.06	1.250					
MTGNR/L 16-4D	1.000	1.000	6.0	1.22	1.250	TNM_-43_	ITSN-433	NL-46	CL-20	XNS-48
MTGNR/L 20-4D	1.250	1.250	6.0	1.22	1.500					
MTGNR/L 85-4D	1.000	1.250	6.0	1.22	1.250					
MTGNR/L 86-4D	1.000	1.500	6.0	1.22	1.250					

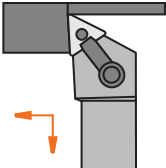
R/L= please choose right or left hand designation

External Pinlock









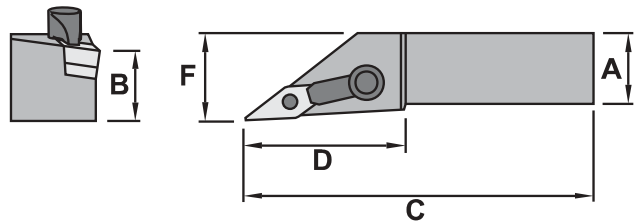
Lead Angle: -3°
Entering Angle: 93°

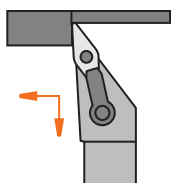
Designation	A	B	C	D	F	Insert	shim	pin	clamp	clamp screw
MTJNR/L 12-3B	.750	.750	4.5	1.03	1.000	TNM_-33_	ITSN-322	NL-34L	CL-20	XNS-48
MTJNR/L 16-3D	1.000	1.000	6.0	1.03	1.250					
MTJNR/L 16-4D	1.000	1.000	6.0	1.25	1.250	TNM_-43_	ITSN-433	NL-46	CL-20	XNS-48
MTJNR/L 20-4D	1.250	1.250	6.0	1.25	1.500					

R/L= please choose right or left hand designation

MVJNR/L







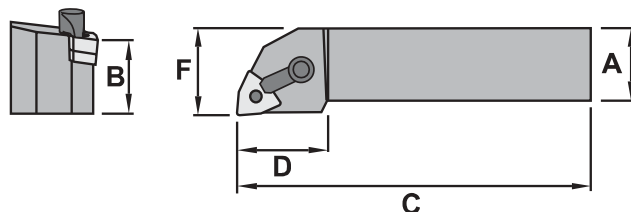
Lead Angle: -3°
Entering Angle: 93°

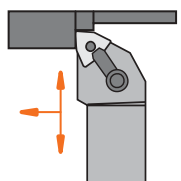
Designation	A	B	C	D	F	Insert	shim	pin	clamp	clamp screw
MVJNR/L 12-3B	.750	.750	4.5	1.62	1.000	VNM_-33_	IVSN-322	NL-34L	CL-22	XNS-48
MVJNR/L 16-3D	1.000	1.000	6.0	1.62	1.250					
MVJNR/L 20-3D	1.250	1.250	6.0	1.62	1.500					

R/L= please choose right or left hand designation

MWLNR/L







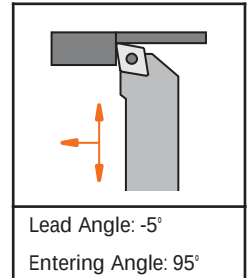
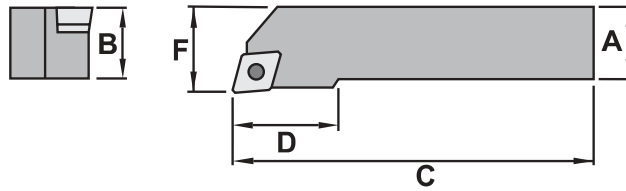
Lead Angle: -5°
Entering Angle: 95°

Designation	A	B	C	D	F	Insert	shim	pin	clamp	clamp screw
MWLNR/L 12-4B	.750	.750	4.5	1.07	1.000	WNM_-43_	IWSN-432	NL-46	CL-20	XNS-48
MWLNR/L 16-4D	1.000	1.000	6.0	1.07	1.250					
MWLNR/L 20-4D	1.250	1.250	6.0	1.07	1.500					
MWLNR/L 24-4E	1.500	1.500	7.0	1.07	2.000					

R/L= please choose right or left hand designation

External Screwlock

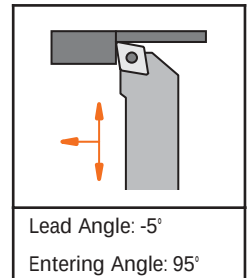
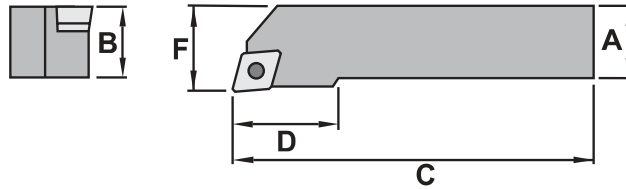
SCLCR/L



Designation	A	B	C	D	F	Insert	insert screw	wrench	shim	shim screw
SCLCR/L 6-2I	.375	.375	2.5	.39	.500	CC__-21.5_	C-1425	C-5507	--	--
SCLCR/L 8-3J	.500	.500	3.5	.39	.625	CC__-32.5_	C-1440	C-5515	--	--
SCLCR/L 10-3A	.625	.625	4.0	.63	.750		C-1240	C-5515	--	--
SCLCR/L 12-3B	.750	.750	4.5	.63	1.000					
SCLCR/L 16-3D	1.000	1.000	6.0	.63	1.250					
SCLCR/L 12-4B	.750	.750	4.5	1.00	1.000	CC__-43_	C-1540	C-5517	C-3614	C-1760
SCLCR/L 16-4D	1.000	1.000	6.0	1.00	1.250					
SCLCR/L 20-4D	1.250	1.250	6.0	1.00	1.500					

R/L= please choose right or left hand designation

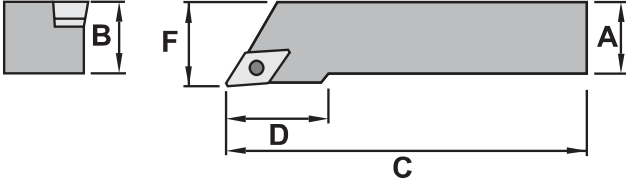
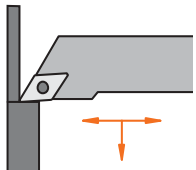
SCLPR/L



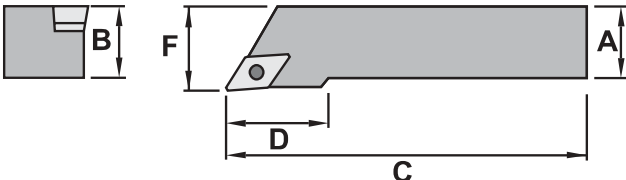
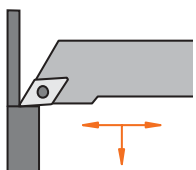
Designation	A	B	C	D	F	Insert	insert screw	wrench	shim	shim screw
SCLPR/L 6-2I	.375	.375	2.5	.500	.500	CP__-21.5_	C-1425	C-5507	--	--
SCLPR/L 8-2J	.500	.500	3.5	.500	.625					
SCLPR/L 10-2A	.625	.625	4.0	.500	.750					
SCLPR/L 12-2B	.750	.750	4.5	.500	.875					
SCLPR/L 10-3A	.625	.625	4.0	.625	.750	CP__-32.5_	C-1240	C-5515	--	--
SCLPR/L 12-3B	.750	.750	4.5	.625	1.000					

R/L= please choose right or left hand designation

External Screwlock

SDJCR/L										
  						Lead Angle: -3° Entering Angle: 93°				
Designation	A	B	C	D	F	Insert	insert screw	wrench	shim	shim screw
SDJCR/L 6-2I	.375	.375	2.5	.59	.500	DC__-21.5_	C-1225	C-5507	--	--
SDJCR/L 8-2J	.500	.500	3.5	.67	.625					
SDJCR/L 10-2A	.625	.625	4.0	.67	.750					
SDJCR/L 12-2B	.750	.750	4.5	.70	1.000					
SDJCR/L 12-3B	.750	.750	4.5	.940	1.000	DC__-32.5_	C-1335	C-5516	C-3714	C-1750
SDJCR/L 16-3D	1.000	1.000	6.0	1.10	1.250					

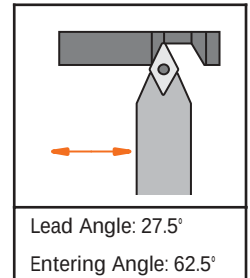
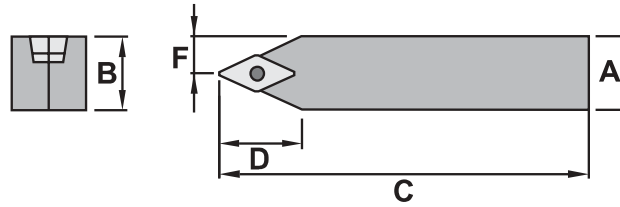
R/L= please choose right or left hand designation

SDJPR/L										
  						Lead Angle: -3° Entering Angle: 93°				
Designation	A	B	C	D	F	Insert	insert screw	wrench	shim	shim screw
SDJPR/L 6-2I	.375	.375	2.5	.625	.500	DP__-21.5_	C-1425	C-5507	--	--
SDJPR/L 8-2J	.500	.500	3.5	.625	.625					
SDJPR/L 10-2A	.625	.625	4.0	.625	.750					
SDJPR/L 12-3B	.750	.750	4.5	.875	.875	DP__-32.5_	C-1335	C-5516	C-3714	C-1750

R/L= please choose right or left hand designation

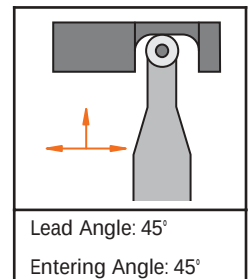
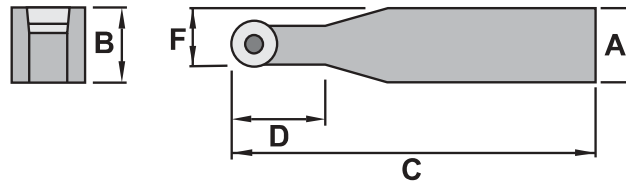
External Screwlock

SDNCN



Designation	A	B	C	D	F	Insert	insert screw	wrench	shim	shim screw
SDNCN 6-2I	.375	.375	2.5	.37	.197	DC__-21.5_	C-1225	C-5507	--	--
SDNCN 8-2J	.500	.500	3.5	.49	.260					
SDNCN 10-3A	.625	.625	4.0	.63	.323	DC__-32.5_	C-1335	C-5516	C-3714	C-1750
SDNCN 12-3B	.750	.750	4.5	.74	.382					
SDNCN 16-3D	1.000	1.000	6.0	.98	.520					

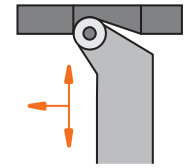
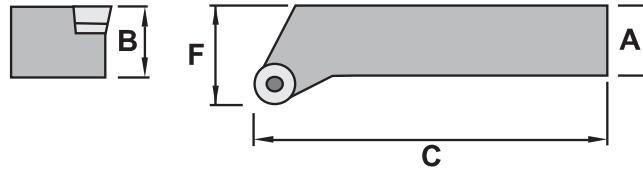
SRDCN



Designation	A	B	C	D	F	Insert	insert screw	wrench	shim	shim screw
SRDCN 8-08J	.500	.500	3.5	.50	.407	RCMT-0803MO	C-1230	C-5508	--	--
SRDCN 10-10A	.625	.625	4.0	.63	.510	RCMT-10T3MO	C-1335	C-5516	C-3811	C-1750
SRDCN 12-10B	.750	.750	4.5	1.00	.570					
SRDCN 16-12D	1.000	1.000	6.0	1.00	.756	RCMT-1204MO	C-1335	C-5516	C-3814	C-1750
SRDCN 20-12D	1.250	1.250	6.0	1.00	.861					

External Screwlock

SRGCR/L



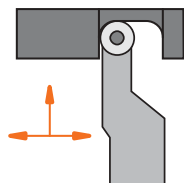
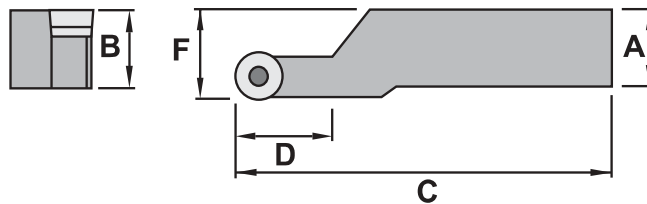
Lead Angle: 45°

Entering Angle: 45°

Designation	A	B	C	F	Insert	insert screw	wrench	shim	shim screw
SRGCR/L 12-10B	.750	.750	4.5	1.000	RCMT-10T3MO	C-1335	C-5516	C-3811	C-1750
SRGCR/L 16-10D	1.000	1.000	6.0	1.250					
SRGCR/L 16-12D	1.000	1.000	6.0	1.250	RCMT-1204MO	C-1335	C-5516	C-3814	C-1750
SRGCR/L 85-12D	1.000	1.250	6.0	1.250					
SRGCR/L 20-12D	1.250	1.250	6.0	1.500					

R/L= please choose right or left hand designation

SRSCR/L



Lead Angle: 45°

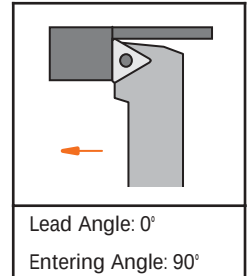
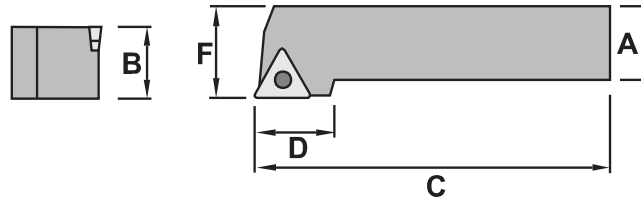
Entering Angle: 45°

Designation	A	B	C	D	F	Insert	insert screw	wrench	shim	shim screw
SRSCR/L 16-10D	1.000	1.000	6.0	.750	1.250	RCMT-10T3MO	C-1335	C-5516	C-3811	C-1750
SRSCR/L 20-10D	1.250	1.250	6.0	.750	1.500					
SRSCR/L 12-12B	.750	.750	4.5	.750	1.000	RCMT-1204MO	C-1335	C-5516	C-3814	C-1750
SRSCR/L 16-12D	1.000	1.000	6.0	1.00	1.250					
SRSCR/L 20-12D	1.250	1.250	6.0	1.00	1.500					

R/L= please choose right or left hand designation

External Screwlock

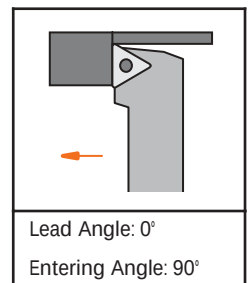
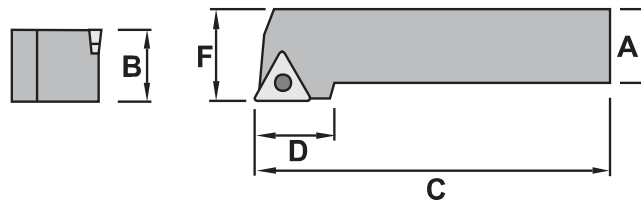
STGCR/L



Designation	A	B	C	D	F	Insert	insert screw	wrench	shim	shim screw
STGCR/L 6-2I	.375	.375	2.5	.50	.500	TC__-21.5_	C-1225	C-5507	--	--
STGCR/L 8-2J	.500	.500	3.5	.56	.625					
STGCR/L 10-3A	.625	.625	4.0	1.00	.750	TC__-32.5_	C-1335	C-5516	C-3414	C-1750
STGCR/L 12-3B	.750	.750	4.5	1.00	1.000					
STGCR/L 16-3D	1.000	1.000	6.0	1.00	1.250					

R/L= please choose right or left hand designation

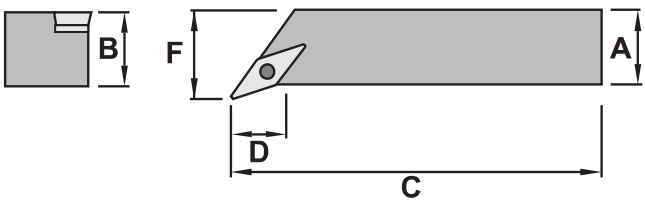
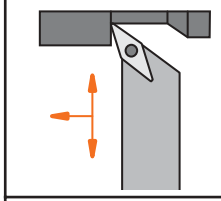
STGPR/L



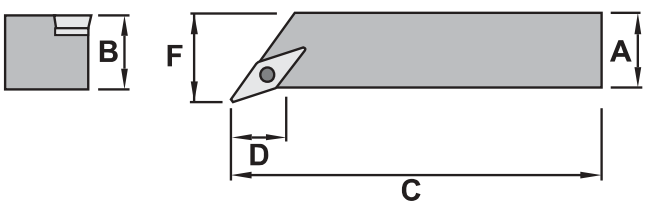
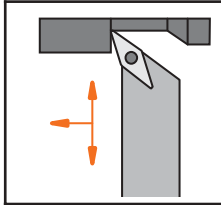
Designation	A	B	C	D	F	Insert	insert screw	wrench	shim	shim screw
STGPR/L 6-2I	.375	.375	2.5	.625	.500	TP__-21.5_	C-1425	C-5507	--	--
STGPR/L 8-2J	.500	.500	3.5	.625	.625					
STGPR/L 10-2A	.625	.625	4.0	.625	.750					
STGPR/L 12-2B	.750	.750	4.5	.625	1.000	TP__-32.5_	C-1440	C-5515	--	--
STGPR/L 10-3A	.625	.625	4.0	.750	.750					
STGPR/L 12-3B	.750	.750	4.5	.750	1.000					

R/L= please choose right or left hand designation

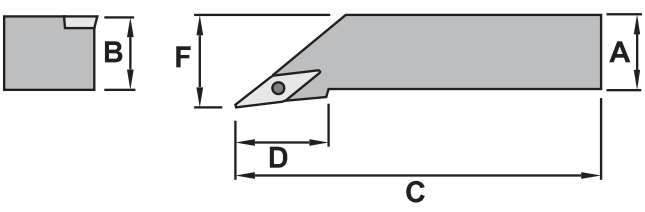
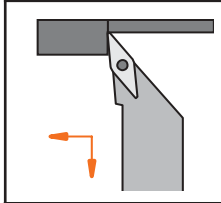
External Screwlock

SVHBR/L										
										
							Lead Angle: -17° Entering Angle: 107.5°			
Designation	A	B	C	D	F	Insert	insert screw	wrench	shim	shim screw
SVHBR/L 12-3B	.750	.750	4.5	1.000	1.000	VB__-33__	C-1440	C-5516	C-3718	C-1750
SVHBR/L 16-3D	1.000	1.000	6.0	1.000	1.250					

R/L= please choose right or left hand designation

SVHCR/L										
										
							Lead Angle: -17° Entering Angle: 107.5°			
Designation	A	B	C	D	F	Insert	insert screw	wrench	shim	shim screw
SVHCR/L 12-3B	.750	.750	4.5	.740	1.000	VC__-33__	C-1335	C-5516	C-3718	C-1750
SVHCR/L 16-3D	1.000	1.000	6.0	.740	1.250					

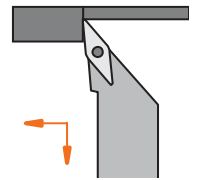
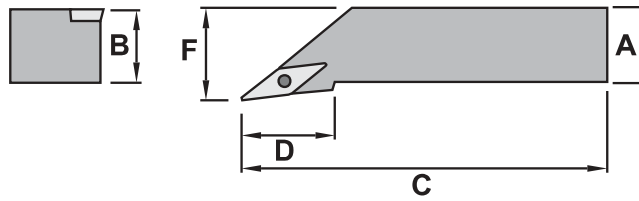
R/L= please choose right or left hand designation

SVJBR/L										
										
							Lead Angle: -3° Entering Angle: -93°			
Designation	A	B	C	D	F	Insert	insert screw	wrench	shim	shim screw
SVJBR/L 12-3B	.750	.750	4.5	1.61	1.00	VB__-33__	C-1335	C-5516	C-3718	C-1750
SVJBR/L 16-3D	1.000	1.000	6.0	1.61	1.25					

R/L= please choose right or left hand designation

External Screwlock

SVJCR/L

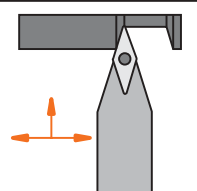
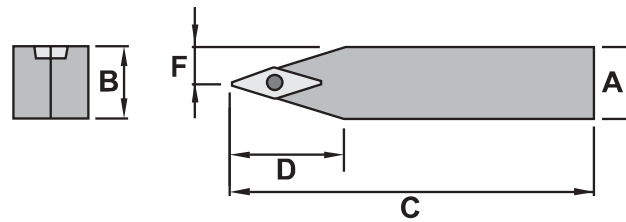


Lead Angle: -3°
Entering Angle: 93°

Designation	A	B	C	D	F	Insert	insert screw	wrench	shim	shim screw
SVJCR/L 6-2	.375	.375	3.0	.875	.500	VC__-22__	C-1225	C-5507	--	--
SVJCR/L 8-2J	.500	.500	3.5	.875	.625					
SVJCR/L 10-2A	.625	.625	4.0	.875	.750					
SVJCR/L 12-2B	.750	.750	4.5	.875	.875					
SVJCR/L 12-3B	.750	.750	4.5	1.61	1.000	VC__-33__	C-1335	C-5516	C-3718	C-1750
SVJCR/L 16-3D	1.000	1.000	6.0	1.61	1.250					
SVJCR/L 20-3D	1.250	1.250	6.0	1.61	1.500					

R/L= please choose right or left hand designation

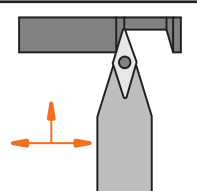
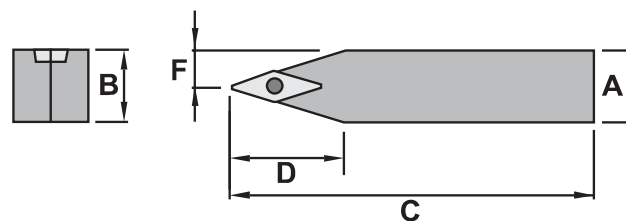
SVVBN



Lead Angle: 17.5°
Entering Angle: 72.5°

Designation	A	B	C	D	F	Insert	insert screw	wrench	shim	shim screw
SVVBN 12-3B	.750	.750	4.5	1.21	.398	VB__-33__	C-1335	C-5516	C-3718	C-1750
SVVBN 20-3D	1.250	1.250	6.0	1.61	.648					

SVVCN



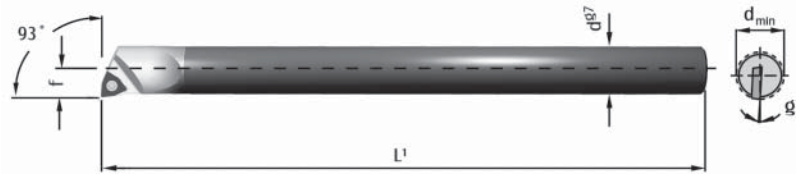
Lead Angle: 17.5°
Entering Angle: 72.5°

Designation	A	B	C	D	F	Insert	insert screw	wrench	shim	shim screw
SVVCN 12-3B	.750	.750	4.5	1.63	.398	VC__-33__	C-1335	C-5516	C-3718	C-1750
SVVCN 16-3D	1.000	1.000	6.0	1.63	.523					
SVVCN 20-3D	1.250	1.250	6.0	1.63	.648					

Internal Screwlock

Boring Bar, Solid Carbide, Design C...SWUC, right or left hand

Boring bar with cylindrical solid carbide shank



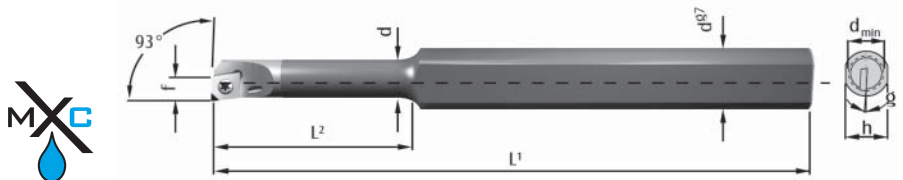
Inch

Designation Right hand	Designation Left hand	d min	d ⁹⁷	d ⁹⁷ mm	f	L¹	g	Insert
C03A-SWUCR-12	C03A-SWUCL-12	.228	.188	4.78	.114	4.000	17°	WCGW-1.21..
C04A-SWUCR-12	C04A-SWUCL-12	.312	.250	6.35	.156	4.000	17°	WCGW-1.21..
*E04A-SWUCR-12	*E04A-SWUCL-12	.312	.250	6.35	.156	4.000	17°	WCGW-1.21..

*This item is supplied with coolant

Boring Bar, Solid Carbide, Design E...SEUP, right or left hand

Boring bar with cylindrical solid carbide shank,
two clamping surfaces and internal coolant feed

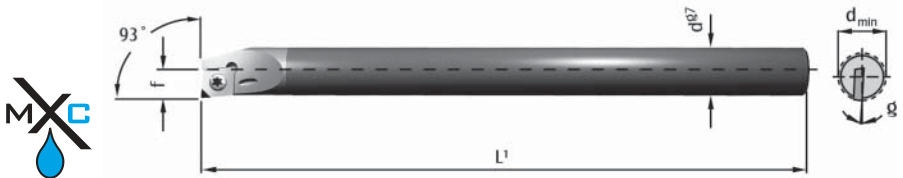


Metric

Designation	d min	d	f	L¹	L²	d ⁹⁷	d ⁹⁷ mm	h	g	Insert
E0610H-SEUPR/L-04	.268	.236	.134	3.94	1.42	.394	10	.31	9°	EPH.. 1.51..
E0710K-SEUPR/L-04	.331	.276	.173	4.92	1.65	.394	10	.31	5°	EPH.. 1.51..
E0810K-SEUPR/L-04	.374	.315	.193	4.92	1.89	.394	10	.31	5°	EPH.. 1.51..

Boring Bar, Solid Carbide, Design E...SEUP, right or left hand

Boring bar with cylindrical solid carbide shank
and internal coolant feed



Inch

Designation Right hand	Designation Left hand	d min	d ⁹⁷	d ⁹⁷ mm	f	L¹	g	Insert
E04H-SEUPR-15	E04H-SEUPL-15	.290	.250	6.35	.142	4	5°	EPH.. 1.51..
E05K-SEUPR-15	E05K-SEUPL-15	.350	.312	7.94	.173	5	5°	EPH.. 1.51..
E06M-SEUPR-2	E06M-SEUPL-2	.400	.375	9.53	.205	6	5°	EPH.. 21.2..

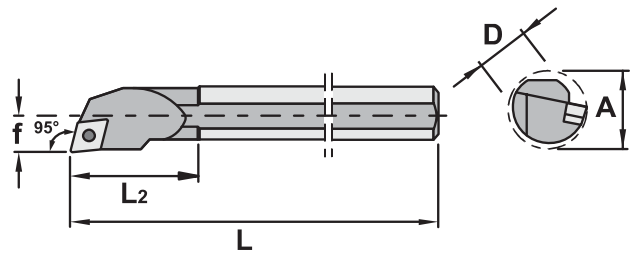
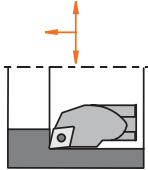
Metric

Designation Right hand	Designation Left hand	d min	d ⁹⁷	d ⁹⁷ mm	f	L¹	g	Insert
E06F-SEUPR-04	E06F-SEUPL-04	.268	.236	6	.134	3.15	9°	EPH.. 1.51..
E07H-SEUPR-04	E07H-SEUPL-04	.331	.276	7	.173	3.94	5°	EPH.. 1.51..
E08H-SEUPR-04	E08H-SEUPL-04	.374	.315	8	.193	3.94	5°	EPH.. 1.51..
E10K-SEUPR-06	E10K-SEUPL-06	.453	.394	10	.228	4.92	5°	EPH.. 21.2..
E12M-SEUPR-06	E12M-SEUPL-06	.531	.472	12	.272	5.91	3°	EPH.. 21.2..
E16R-SEUPR-06	E16R-SEUPL-06	.728	.630	16	.386	7.87	0°	EPH.. 21.2..

Note: for right hand boring bars use left hand wiper inserts, for left hand boring bars use right hand wiper inserts

Internal Screwlock

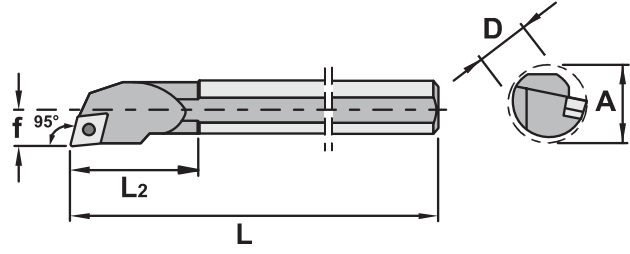
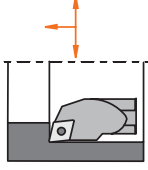
Boring Bar, Solid Carbide Shank, Design C_-SCLCR/L

C_-SCLCR/L								
								
							Lead Angle: -5° Entering Angle: 95°	
Designation	Min. Bore A	D	L	L ²	F	Insert	insert screw	wrench
C06M-SCLCR/L 2	.500	.375	6.00	.550	.250	CC_-21.5_	C-1425	C-5507
C08M-SCLCR/L 2	.625	.500	6.00	.650	.312			
C10R-SCLCR/L 3	.750	.625	8.00	.740	.406	CC_-32.5_	C-1440	C-5515
C12S-SCLCR/L 3	1.000	.750	10.00	.740	.500			
C16T-SCLCR/L 3	1.280	1.000	12.00	.740	.640			
C16T-SCLCR/L 4	1.280	1.000	12.00	.850	.640	CC_-43_	C-1550	C-5525

R/L= please choose right or left hand designation

These bars are also available with coolant through

Boring Bar, Solid Carbide Shank, Design C_-SCLPR/L

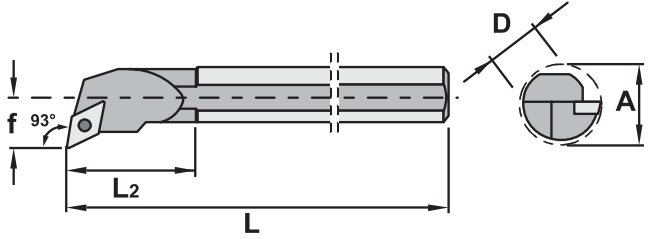
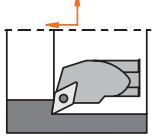
C_-SCLPR/L								
								
							Lead Angle: -5° Entering Angle: 95°	
Designation	Min. Bore A	D	L	L ²	F	Insert	insert screw	wrench
C06M-SCLPR/L 2	.500	.375	6.00	.550	.250	CP_-21.5_	C-1425	C-5507
C08R-SCLPR/L 2	.625	.500	8.00	.650	.312			
C10S-SCLPR/L 2	.750	.625	10.00	.740	.406			
C12S-SCLPR/L 3	1.000	.750	10.00	.740	.500	CP_-32.5_	C-1440	C-5515
C16T-SCLPR/L 3	1.280	1.000	12.00	.740	.640			

R/L= please choose right or left hand designation

These bars are also available with coolant through

Internal Screwlock

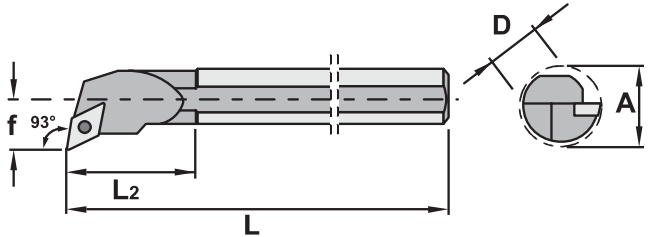
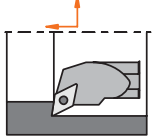
Boring Bar, Solid Carbide Shank, Design C_-SDUCR/L

C_-SDUCR/L								
								
							Lead Angle: -3° Entering Angle: 93°	
Designation	Min. Bore A	D	L	L ²	F	Insert	insert screw	wrench
C06M-SDUCR/L 2	.624	.375	6.00	.650	.375	DC_-21.5_	C-1425	C-5507
C08M-SDUCR/L 2	.750	.500	6.00	.650	.437			
C10R-SDUCR/L 2	.937	.625	8.00	.650	.500			
C12S-SDUCR/L 3	1.000	.750	10.00	.900	.562	DC_-32.5_	C-1440	C-5515
C16T-SDUCR/L 3	1.250	1.000	12.00	.900	.750			

R/L= please choose right or left hand designation

These bars are also available with coolant through

Boring Bar, Solid Carbide Shank, Design C_-SDUPR/L

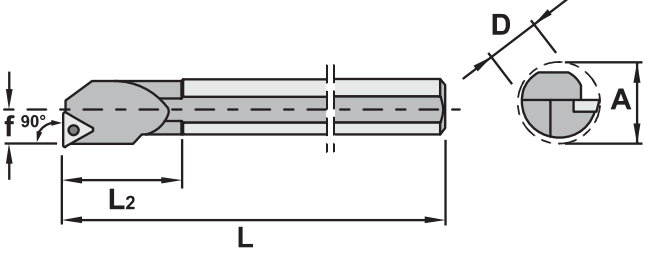
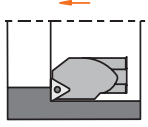
C_-SDUPR/L								
								
							Lead Angle: -3° Entering Angle: 93°	
Designation	Min. Bore A	D	L	L ²	F	Insert	insert screw	wrench
C06M-SDUPR/L 2	.600	.375	6.00	.650	.375	DP_-21.5_	C-1425	C-5507
C08R-SDUPR/L 2	.730	.500	8.00	.650	.437			
C10S-SDUPR/L 2	.850	.625	10.00	.650	.500			
C12S-SDUPR/L 3	.980	.750	10.00	.740	.562	DP_-32.5_	C-1440	C-5515
C16T-SDUPR/L 3	1.300	1.000	12.00	.740	.750			

R/L= please choose right or left hand designation

These bars are also available with coolant through

Internal Screwlock

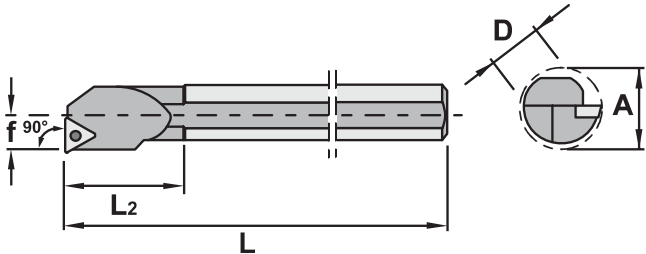
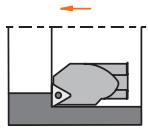
Boring Bar, Solid Carbide Shank, Design C_-STFCR/L

C_-STFCR/L 							 Lead Angle: 0° Entering Angle: 90°	
Designation	Min. Bore A	D	L	L ²	F	Insert	insert screw	wrench
C06M-STFCR/L 2	.500	.375	6.00	.550	.250	TC__-21.5_	C-1425	C-5507
C08M-STFCR/L 2	.625	.500	6.00	.650	.312			
C10R-STFCR/L 2	.750	.625	8.00	.740	.406			
C12S-STFCR/L 3	1.000	.750	10.00	.740	.500	TC__-32.5_	C-1440	C-5515
C16T-STFCR/L 3	1.280	1.000	12.00	.740	.640			
C20U-STFCR/L 3	1.530	1.250	14.00	.850	.765			

R/L= please choose right or left hand designation

These bars are also available with coolant through

Boring Bar, Solid Carbide Shank, Design C_-STFPR/L

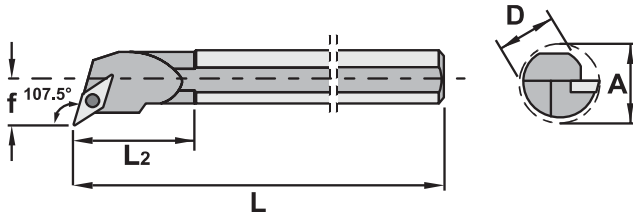
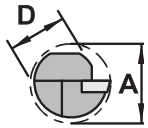
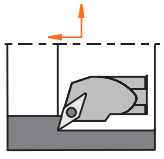
C_-STFPR/L 						 Lead Angle: 0° Entering Angle: 90°		
Designation	Min. Bore A	D	L	L ²	F	Insert	insert screw	wrench
C05K-STFPR/L 18	.415	.312	5.00	.550	.219	TP__-1.8__	C-1425	C-5507
C06M-STFPR/L 2	.480	.375	6.00	.550	.250	TP__-21.5_	C-1425	C-5507
C08R-STFPR/L 2	.600	.500	8.00	.650	.312			
C10S-STFPR/L 3	.770	.625	10.00	.740	.406	TP__-32.5_	C-1440	C-5515
C12S-STFPR/L 3	.930	.750	10.00	.740	.500			
C16T-STFPR/L 3	1.200	1.000	12.00	.740	.640			

R/L= please choose right or left hand designation

These bars are also available with coolant through

Internal Screwlock

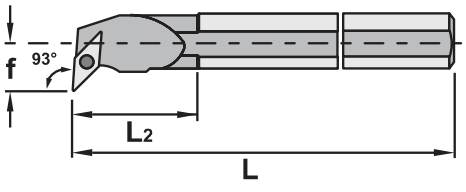
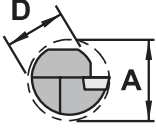
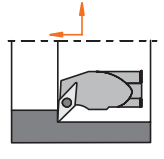
Boring Bar, Solid Carbide Shank, Design C_-SVQCR/L

C_-SVQCR/L									
									
									
							Lead Angle: -17.5° Entering Angle: 107.5°		
Designation	Min. Bore A	D	L	L ²	F	Insert	insert screw	wrench	
C10R-SVQCR/L 2	.750	.625	8.00	.740	.406	VC_-22_	C-1425	C-5507	
C12S-SVQCR/L 2	.875	.750	10.00	.740	.500		C-1425	C-5507	
C16T-SVQCR/L 3	1.150	1.000	12.00	.840	.640	VC_-33_	C-1440	C-5515	

R/L= please choose right or left hand designation

These bars are also available with coolant through

Boring Bar, Solid Carbide Shank, Design C_-SVUCR/L

C_-SVUCR/L									
									
									
							Lead Angle: -3° Entering Angle: 93°		
Designation	Min. Bore A	D	L	L ²	F	Insert	insert screw	wrench	
C12S-SVUCR/L 2	.875	.750	10.00	.740	.500	VC_-22_	C-1425	C-5507	
C16T-SVUCR/L 3	1.140	1.000	12.00	.740	.640	VC_-33_	C-1440	C-5515	

R/L= please choose right or left hand designation

These bars are also available with coolant through

External Grooving

10 grades CBN,
2 grades - PCD & MDC
2.5 - 5mm widths



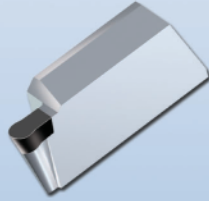
Internal Grooving

10 grades CBN,
2 grades - PCD & MDC
1.5 - 2.5mm widths



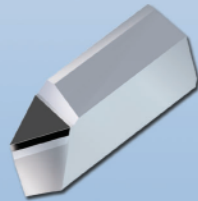
External Copying

10 grades CBN,
2 grades - PCD & MDC
8 different 60° partial profile



External Threading

10 grades CBN,
2 grades - PCD & MDC

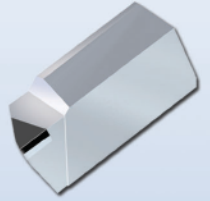


MDC= Monocrystalline Diamond
(Natural Diamond)

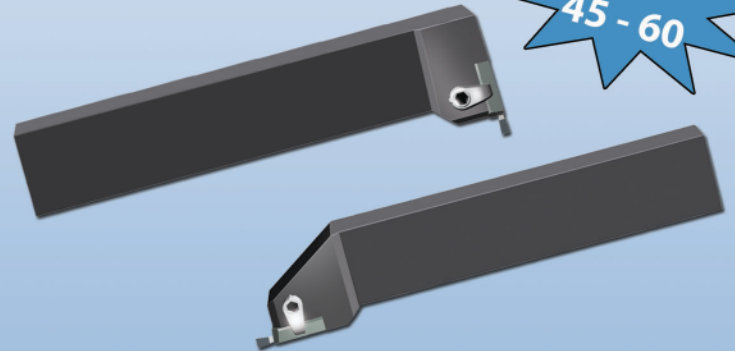
FormCut

External Profiling

10 grades CBN,
2 grades - PCD & MDC
different radii and wipers avail.



Internal holders available in
5/8", 3/4" & 1" sizes



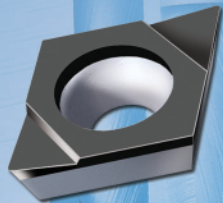
pages
45 - 60

External holders available in
3/4", 1", & 1.25" sizes

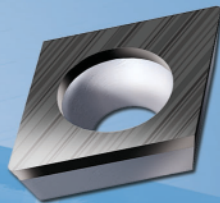
MiniCut

3/16" & 1/4" I.C. sizes
available in PCD & CBN!

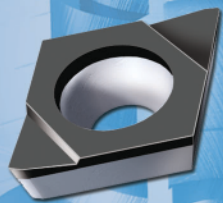
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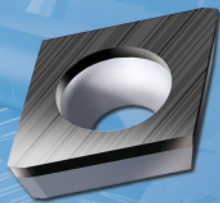
EPHT
(full face)



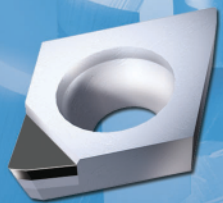
EPHW
(full face)



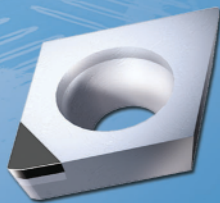
EPHT
(full face,
wiper)



EPHW
(full face,
wiper)



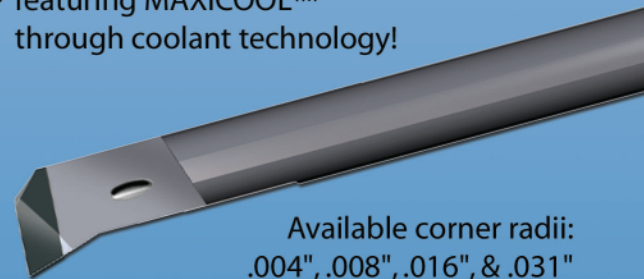
EPHT
(wiper)



EPHW
(wiper)

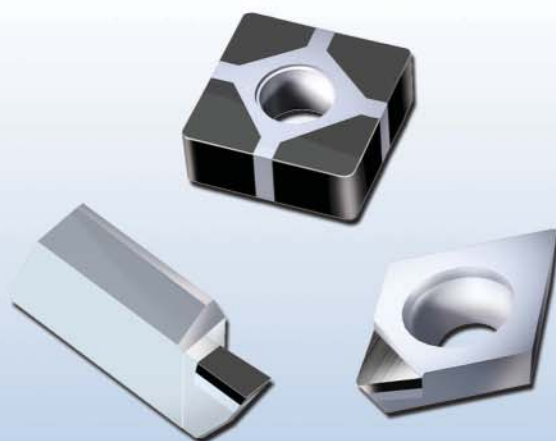
Tipped carbide boring bars!

- able to achieve depths of up to 7 x D!
- solid tungsten carbide design
- 75° positive insert style produces excellent cutter performance!
- featuring MAXICOOL™ through coolant technology!



Available corner radii:
.004", .008", .016", & .031"





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