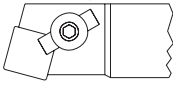
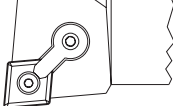
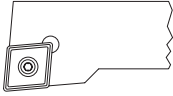


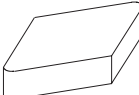
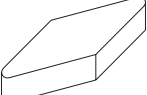
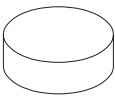

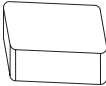

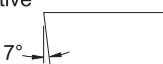

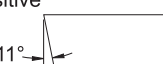
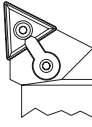
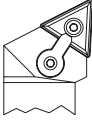

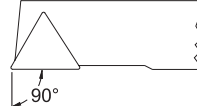
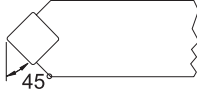
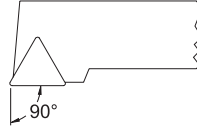
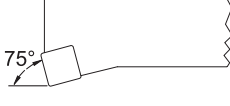
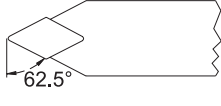
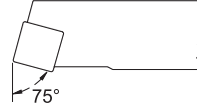
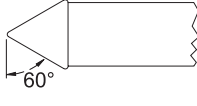
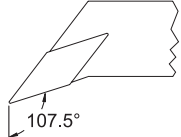
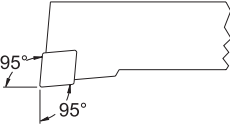
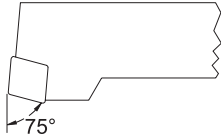

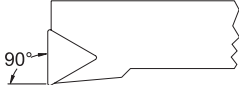
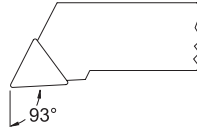
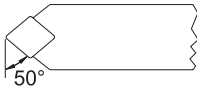
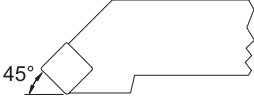


TOOLHOLDER STANDARD DESIGNATIONS

<p>C - Clamp Lock </p> <p>M - Multiple Lock </p> <p>S - Screw Lock </p> <p>Holding Method</p>	<p>C - 80° Diamond </p> <p>T - Triangle </p> <p>D - 55° Diamond </p> <p>V - 35° Diamond </p> <p>R - Round </p> <p>W - 80° Trigon </p> <p>S - Square </p> <p>Insert Shape</p>	<p>B - 5° Positive </p> <p>C - 7° Positive </p> <p>N - 0° Negative </p> <p>P - 11° Positive </p> <p>Insert Clearance Angle</p>	<p>R - Right Hand </p> <p>L - Left Hand </p> <p>N - Neutral </p> <p>Hand of Tool</p>
--	---	---	---

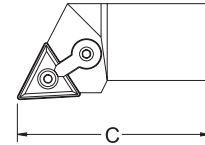
M C L N R

Tool Style

<p>A - 0° Side cutting angle, no offset </p>	<p>D - 45° Lead side cutting angle, no offset </p>	<p>G - 0° Lead side cutting with offset </p>	<p>K - 15° Lead end cutting angle, no offset </p>	<p>N - 27.5° Lead cutting angle, no offset </p>
<p>B - 15° Lead side cutting angle, no offset </p>	<p>E - 30° Lead side cutting angle </p>	<p>H - 17.5° Lead side / end cutting with offset </p>	<p>L - Neg. 5° Lead side cutting angle with offset </p>	<p>R - 15° Lead cutting angle with offset </p>
<p>C - 0° Lead end cutting angle </p>	<p>F - 0° Lead end cutting angle with offset </p>	<p>J - Neg. 3° Lead side cutting angle with offset </p>	<p>M - 40° Lead side cutting angle, no offset </p>	<p>S - 45° Lead cutting angle with offset </p>

TOOLHOLDER STANDARD DESIGNATIONS

- I - 2.5
- J - 3.5
- A - 4.0
- B - 4.5
- C - 5.0
- D - 6.0
- E - 7.0
- F - 8.0



Tool Length

1 6

Shank Size

Square Shanks:
(A) & (B) shown in 1/16 inch increments

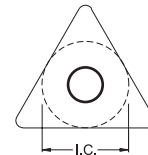
Rectangle Shanks:
First Digit: (A) shown in 1/8 inch increments
Second Digit: (B) shown in 1/4 inch increments



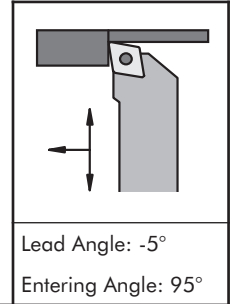
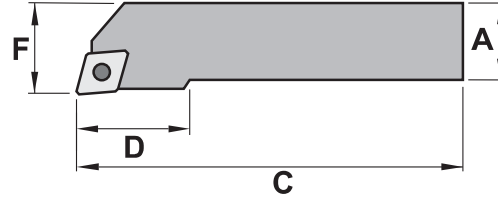
4 D

Insert Size I.C.

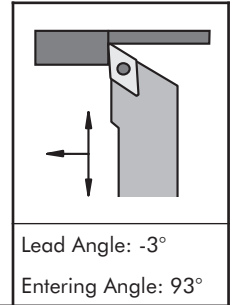
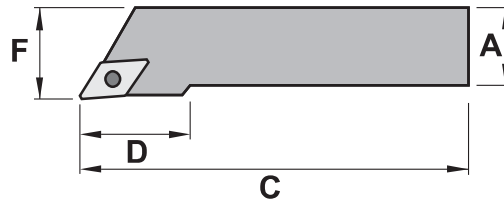
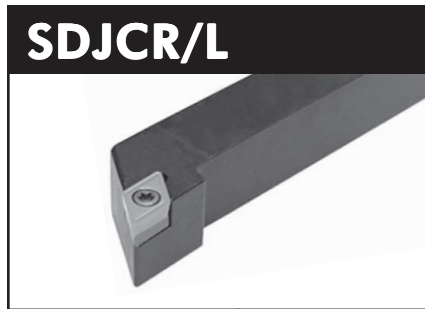
Insert I.C.:
(I.C.) shown in 1/8 inch increments



EXTERNAL SCREW LOCK TOOLS



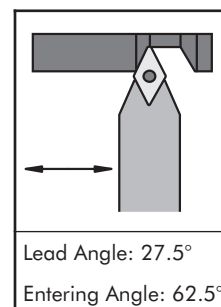
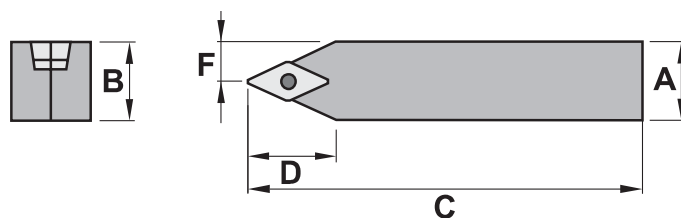
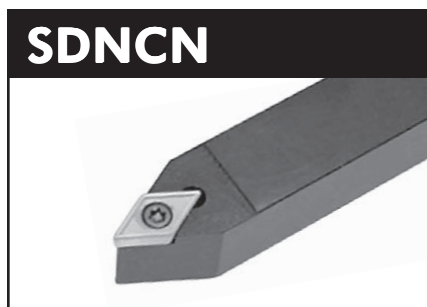
DESIGNATION	DIMENSIONS					INSERT (see pages 14-17)	SPARE PARTS			
	A	B	C	D	F		Insert Screw	Wrench	Shim	Shim Screw
SCLCR/L 6-2I	.375	.375	2.5	.39	.500	CC__-21.5_	C-1225	C-5507	---	---
SCLCR/L 8-3J	.500	.500	3.5	.63	.625		C-1440	C-5515	---	---
SCLCR/L 10-3A	.625	.625	4.0	.63	.750		C-1240	C-5515	---	---
SCLCR/L 12-3B	.750	.750	4.5	.63	1.000	CC__-43_	C-1540	C-5517	C-3614	C-1760
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					
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					



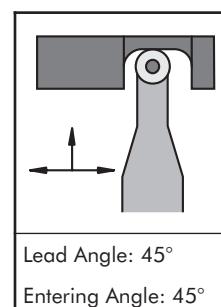
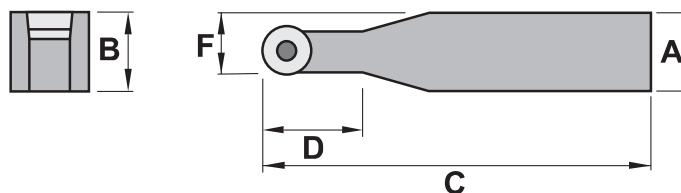
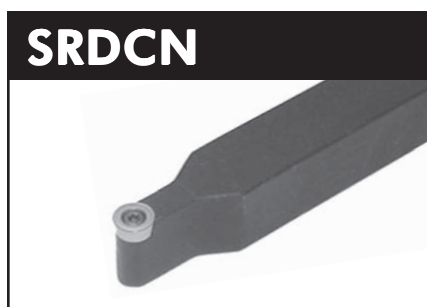
DESIGNATION	DIMENSIONS					INSERT (see pages 22-24)	SPARE PARTS			
	A	B	C	D	F		Insert Screw	Wrench	Shim	Shim Screw
SDJCR/L 6-2I	.375	.375	2.5	.59	.500	DC__-21.5_	C-1225	C-5507	---	---
SDJCR/L 8-2J	.500	.500	3.5	.67	.625		C-1335	C-5516	C-3714	C-1750
SDJCR/L 10-2A	.625	.625	4.0	.67	.750					
SDJCR/L 12-2B	.750	.750	4.5	.70	1.000	DC__-32.5_				
SDJCR/L 12-3B	.750	.750	4.5	1.00	1.000					
SDJCR/L 16-3D	1.000	1.000	6.0	1.10	1.250					

See Pages 47 to 50 for Widia's range of Indexable Inserts for Aluminum machining.

EXTERNAL SCREW LOCK TOOLS



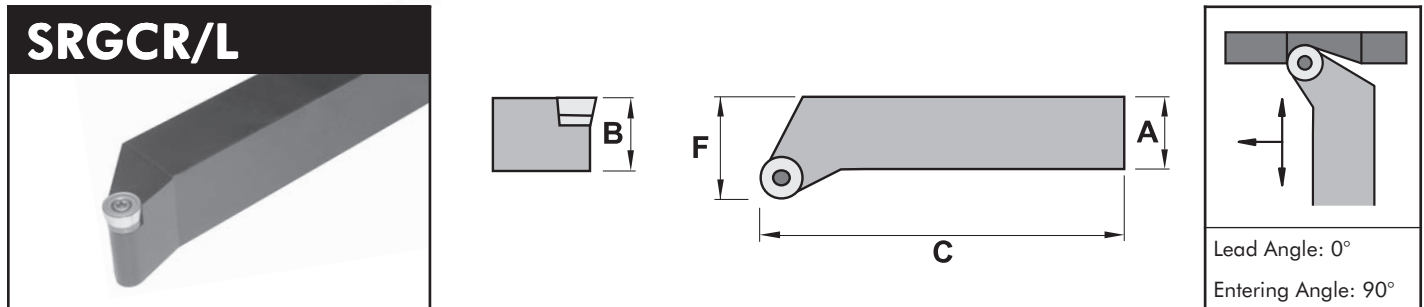
DESIGNATION	DIMENSIONS					INSERT (see pages 22-24)	SPARE PARTS			
	A	B	C	D	F		Insert Screw	Wrench	Shim	Shim Screw
SDNCN 6-2I	.375	.375	2.5	.37	.197	DC_-21.5_	C-1225	C-5507	---	---
SDNCN 8-2J	.500	.500	3.5	.49	.260					
SDNCN 10-3A	.625	.625	4.0	.63	.323	DC_-32.5_	C-1335	C-5516	C-3714	C-1750
SDNCN 12-3B	.750	.750	4.5	.74	.382					
SDNCN 16-3D	1.000	1.000	6.0	.98	.520					



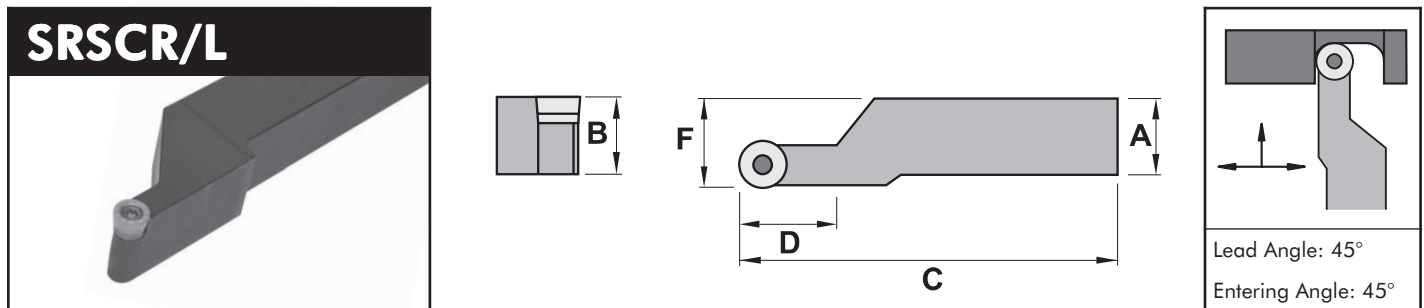
DESIGNATION	DIMENSIONS					INSERT (see page 29)	SPARE PARTS			
	A	B	C	D	F		Insert Screw	Wrench	Shim	Shim Screw
SRDCN 8-08J	.500	.500	3.5	.50	.407	RCMT-0803MO	C-1230	C-5508	---	---
SRDCN 10-10A	.625	.625	4.0	.63	.510	RCMT-10T3M0	C-1335	C-5516	C-3811	C-1750
SRDCN 12-10B	.750	.750	4.5	1.00	.570					
SRDCN 16-12D	1.000	1.000	6.0	1.00	.756	RCMT-1204M0	C-1335	C-5516	C-3814	C-1750
SRDCN 20-12D	1.250	1.250	6.0	1.00	.861					

See Pages 47 to 50 for Widia's range of Indexable Inserts for Aluminum machining.

EXTERNAL SCREW LOCK TOOLS



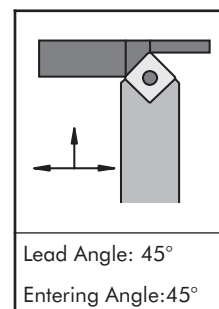
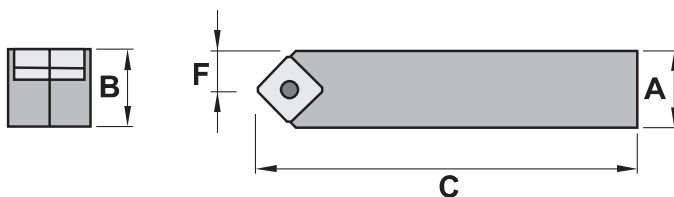
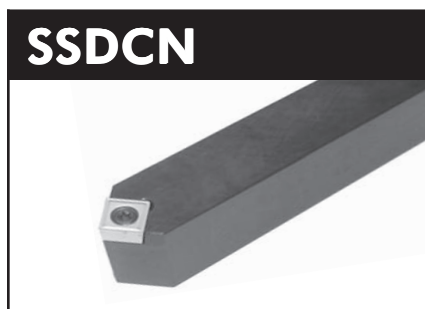
DESIGNATION	DIMENSIONS				INSERT (see page 29)	SPARE PARTS			
	A	B	C	F		Insert screw	Wrench	Shim	Shim Screw
SRGCR/L 12-10B	.750	.750	4.5	1.000	RCMT-10T3M0	C-1335	C-5516	C-3811	C-1750
SRGCR/L 16-10D	1.000	1.000	6.0	1.250					
SRGCR/L 16-12D	1.000	1.000	6.0	1.250	RCMT-1204M0	C-1335	C-5516	C-3814	C-1750
SRGCR/L 85-12D	1.000	1.250	6.0	1.250					
SRGCR/L 20-12D	1.250	1.250	6.0	1.500					



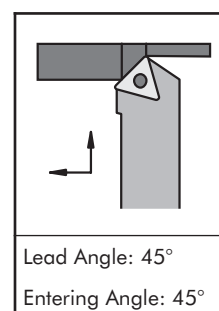
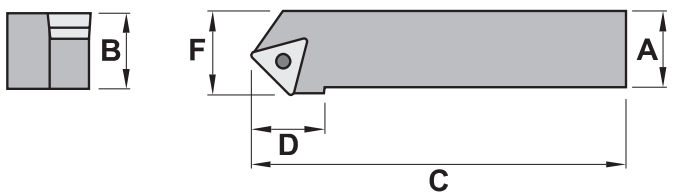
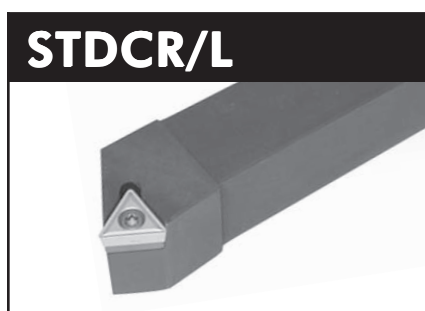
DESIGNATION	DIMENSIONS					INSERT (see page 29)	SPARE PARTS			
	A	B	C	D	F		Insert Screw	Wrench	Shim	Shim Screw
SRSCR/L 16-10D	1.000	1.000	6.0	.75	1.250	RCMT-10T3M0	C-1335	C-5516	C-3811	C-1750
SRSCR/L 20-10D	1.250	1.250	6.0	.75	1.500					
SRSCR/L 12-12B	.750	.750	4.5	.75	1.000	RCMT-1204M0	C-1335	C-5516	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					

See Pages 47 to 50 for Widia's range of Indexable Inserts for Aluminum machining.

EXTERNAL SCREW LOCK TOOLS



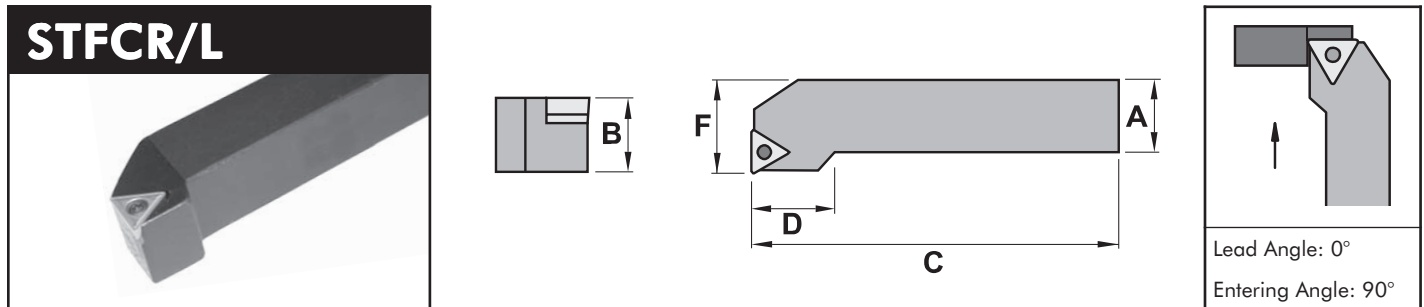
DESIGNATION	DIMENSIONS				INSERT (see pages 30-31)	SPARE PARTS			
	A	B	C	F		Insert screw	Wrench	Shim	Shim Screw
SSDCN 8-3J	.500	.500	3.5	.263	SC__-32.5_	C-1240	C-5515	---	---
SSDCN 10-3A	.625	.625	4.0	.325		C-1540	C-5517	C-3514	C-1760
SSDCN 12-4B	.750	.750	4.5	.388	SC__-43_				



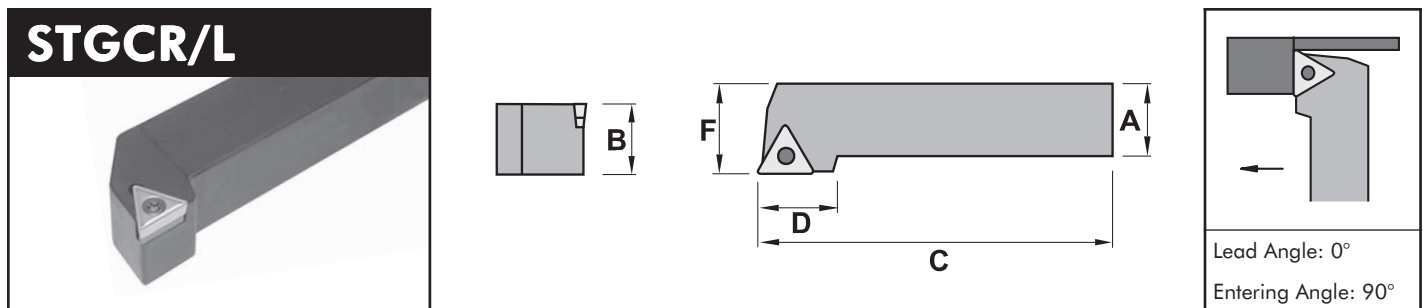
DESIGNATION	DIMENSIONS					INSERT (see pages 37-38)	SPARE PARTS			
	A	B	C	D	F		Insert Screw	Wrench	Shim	Shim Screw
STDCR/L 6-2I	.375	.375	2.5	.41	.433	TC__-21.5_	C-1225	C-5507	---	---
STDCR/L 8-2J	.500	.500	3.5	.57	.512		C-1335	C-5516	C-3414	C-1750
STDCR/L 10-3A	.625	.625	4.0	1.00	.669	TC__-32.5_				
STDCR/L 12-3B	.750	.750	4.5	1.00	.866					
STDCR/L 16-3D	1.000	1.000	6.0	1.00	1.063					

See Pages 47 to 50 for Widia's range of Indexable Inserts for Aluminum machining.

EXTERNAL SCREW LOCK TOOLS



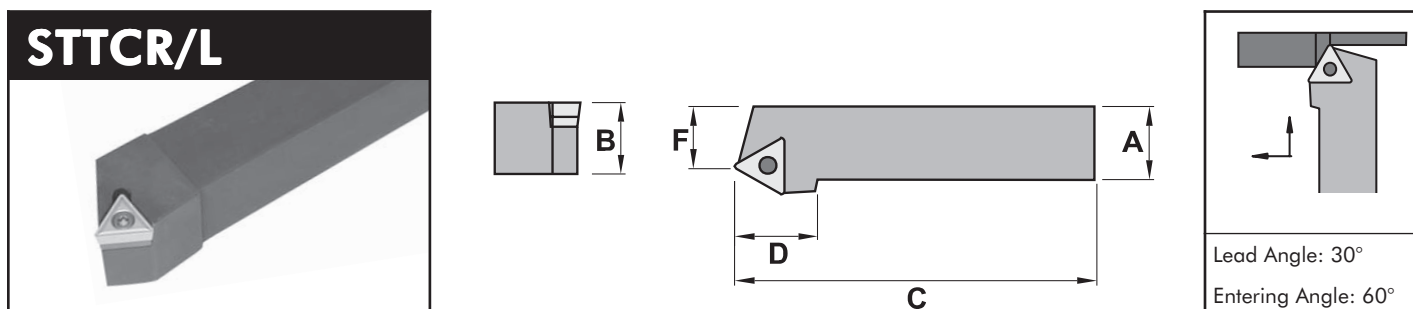
DESIGNATION	DIMENSIONS					INSERT (see pages 37-38)	SPARE PARTS			
	A	B	C	D	F		Insert Screw	Wrench	Shim	Shim Screw
STFCR/L 6-2I	.375	.375	2.5	.40	.500	TC__-21.5_	C-1225	C-5507	---	---
STFCR/L 8-2J	.500	.500	3.5	.68	.625					
STFCR/L 10-3A	.625	.625	4.0	1.00	.750	TC__-32.5_	C-1335	C-5516	C-3414	C-1750
STFCR/L 12-3B	.750	.750	4.5	1.00	1.000					
STFCR/L 16-3D	1.000	1.000	6.0	1.00	1.250					



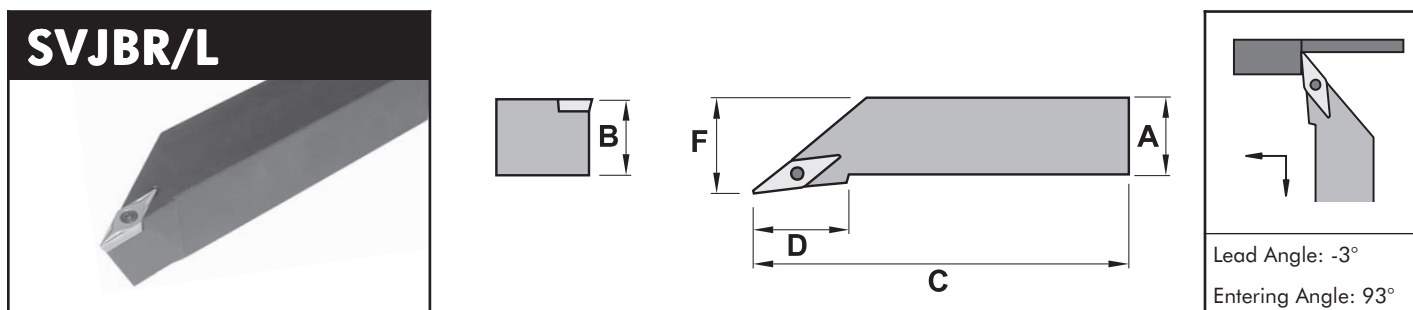
DESIGNATION	DIMENSIONS					INSERT (see pages 37-38)	SPARE PARTS			
	A	B	C	D	F		Insert Screw	Wrench	Shim	Shim Screw
STGCR/L 6-2I	.375	.375	2.5	.50	.500	TC__-21.5_	C-1225	C-5507	----	---
STGCR/L 8-2J	.500	.500	3.5	.56	.625					
STGCR/L 10-3A	.625	.625	4.0	1.00	.750	TC__-32.5_	C-1335	C-5516	C-3414	C-1750
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					

See Pages 47 to 50 for Widia's range of Indexable Inserts for Aluminum machining.

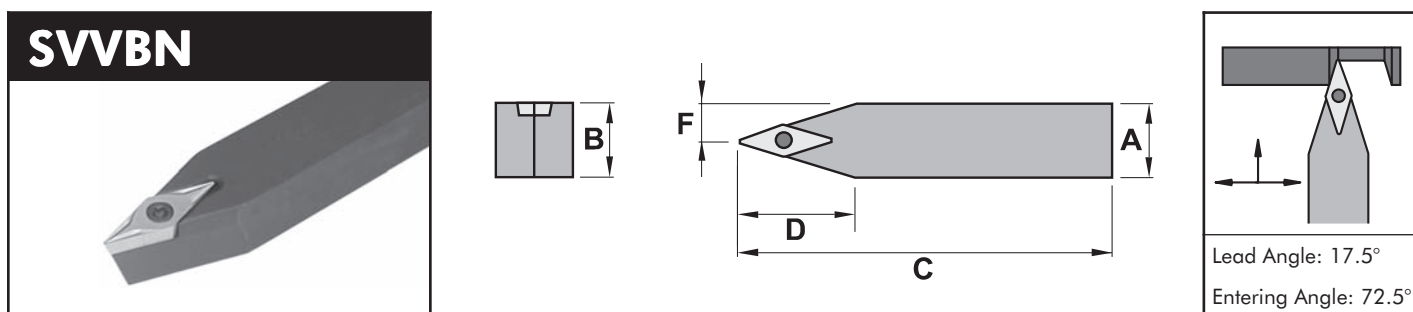
EXTERNAL SCREW LOCK TOOLS



DESIGNATION	DIMENSIONS					INSERT (see pages 37-38)	SPARE PARTS			
	A	B	C	D	F		Insert Screw	Wrench	Shim	Shim Screw
STTCR/L 12-3B	.750	.750	4.5	1.00	.718	TC_-32.5_	C-1335	C-5516	C-3414	C-1750
STTCR/L 16-3D	1.000	1.000	6.0	1.00	.860					



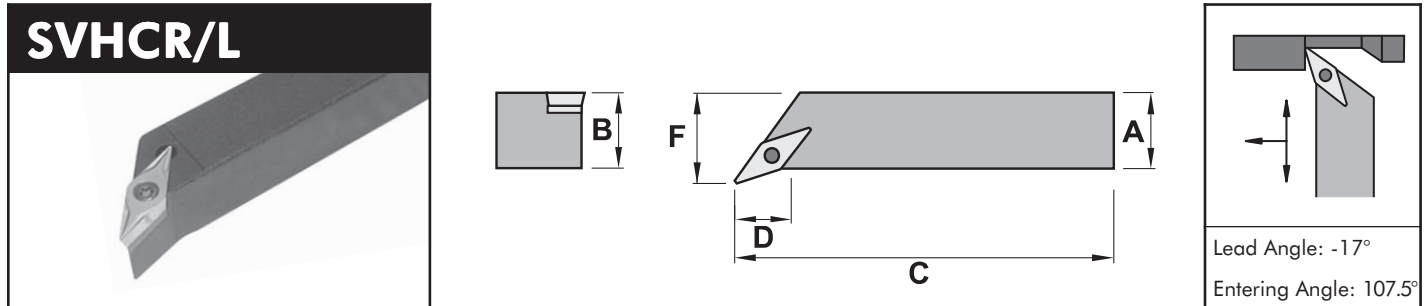
DESIGNATION	DIMENSIONS					INSERT (see page 44)	SPARE PARTS			
	A	B	C	D	F		Insert Screw	Wrench	Shim	Shim Screw
SVJBR/L 12-3B	.750	.750	4.5	1.61	1.000	VBMT-33_	C-1335	C-5516	C-3718	C-1750
SVJBR/L 16-3D	1.000	1.000	6.0	1.61	1.250					



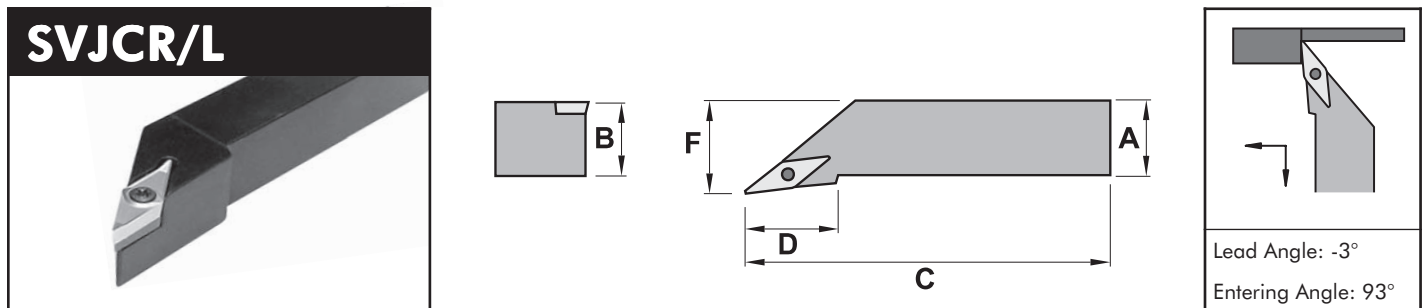
DESIGNATION	DIMENSIONS					INSERT (see page 44)	SPARE PARTS			
	A	B	C	D	F		Insert Screw	Wrench	Shim	Shim Screw
SVVBN 12-3B	.750	.750	4.5	1.21	.398	VBMT-33_	C-1335	C-5516	C-3718	C-1750
SVVBN 16-3D	1.000	1.000	6.0	1.61	.523					

See Pages 47 to 50 for Widia's range of Indexable Inserts for Aluminum machining.

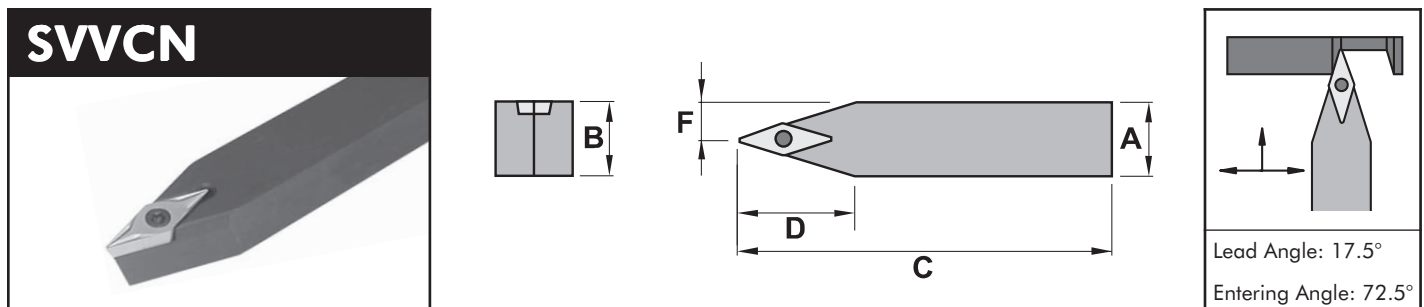
EXTERNAL SCREW LOCK TOOLS



DESIGNATION	DIMENSIONS					INSERT (see page 50)	SPARE PARTS			
	A	B	C	D	F		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	.756	1.250					



DESIGNATION	DIMENSIONS					INSERT (see page 50)	SPARE PARTS			
	A	B	C	D	F		Insert Screw	Wrench	Shim	Shim Screw
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					



DESIGNATION	DIMENSIONS					INSERT (see page 50)	SPARE PARTS			
	A	B	C	D	F		Insert Screw	Wrench	Shim	Shim Screw
SWCN 12-3B	.750	.750	4.5	1.21	.398	VC_-33_	C-1335	C-5516	C-3718	C-1750
SWCN 16-3D	1.000	1.000	6.0	1.61	.523					
SWCN 20-3D	1.250	1.250	6.0	2.01	.648					

See Pages 47 to 50 for Widia's range of Indexable Inserts for Aluminum machining.