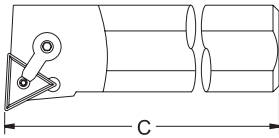


INTERNAL MACHINING TOOL DESIGNATIONS

C - Carbide
E - Carbide w/coolant through
A - Steel w/coolant through
M - Heavy metal
S - Steel

Bar Type

F - 3.0	Q - 7.0
G - 3.5	R - 8.0
H - 4.0	S - 10.0
J - 4.5	T - 12.0
K - 5.0	U - 14.0
L - 5.5	V - 16.0
M - 6.0	W - 18.0
N - 6.5	Y - 20.0
P - 6.75	X - Special

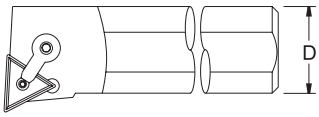


Bar Length

S 16 T - M

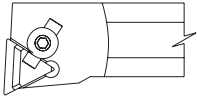
Bar Diameter

Round Shanks:
(D) shown in 1/16 inch increments

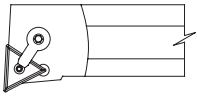


Holding Method

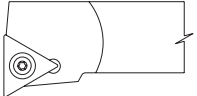
C - Clamp Lock



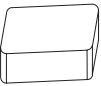
M - Multiple Lock




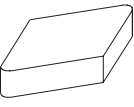
S - Screw Lock

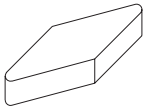


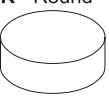
INTERNAL MACHINING TOOL DESIGNATIONS

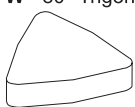
C - 80° Diamond



T - Triangle


D - 55° Diamond



V - 35° Diamond


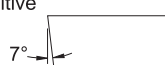
R - Round



W - 80° Trigon


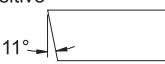
S - Square


Insert Shape

B - 5° Positive


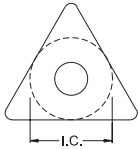
C - 7° Positive


N - 0° Negative


P - 11° Positive


Insert Clearance Angle

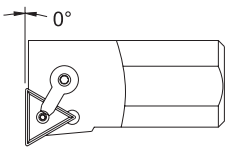
Insert I.C.:
 (I.C.) shown in 1/8 inch increments

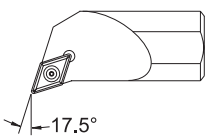


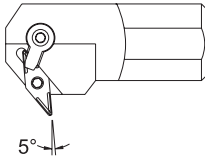
Insert Size I.C.

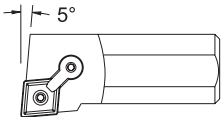
T U N R - 3

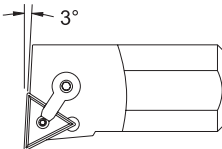
Bar Style

F - Offset Shank
 0° End Cutting Edge Angle


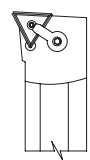
Q - Offset Shank
 17.5° End Cutting Edge Angle


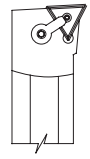
X - Offset Shank
 5° Back Cutting Edge Angle


L - Offset Shank
 5° End or Side Cut Edge Angle


U - Offset Shank
 3° End Cutting Edge Angle


Hand of Tool

R - Right Hand


L - Left Hand


INTERNAL SCREW LOCK TOOL KITS



SET-SCLCR/L-1

- Shank Diameter Range: 5/6" - 5/8"
- Minimum Bore Diameter: .310"
- With coolant thru
- Profiling boring bar for semi-finishing and finishing operations
- Kit Contains: 1-A05H-SCLCR/L-2 *
1-A06J-SCLCR/L-2 *
1-A08K-SCLCR/L-2 *
1-A10M-SCLCR/L-2 *



SET-SDQCR/L-1

- Shank Diameter Range: 3/8" - 5/8"
- Minimum Bore Diameter: .470"
- With coolant thru
- Profiling and copying boring bar for semi-finishing and finishing operations
- Kit Contains: 1-A06J-SDQCR/L-2 *
1-A08K-SDQCR/L-2 *
1-A10M-SDQCR/L-2 *



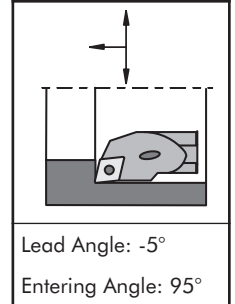
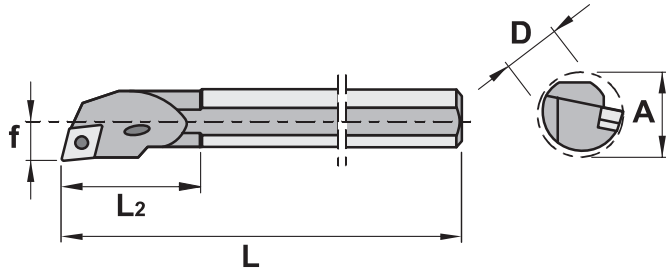
SET-SDUCR/L-1

- Shank Diameter Range: 3/8" - 5/8"
- Minimum Bore Diameter: .470"
- With coolant thru
- Profiling and copying boring bar for semi-finishing and finishing operations
- Kit Contains: 1-A06J-SDUCR/L-2 *
1-A08K-SDUCR/L-2 *
1-A10M-SDUCR/L-2 *

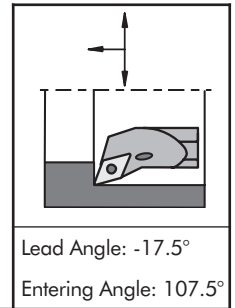
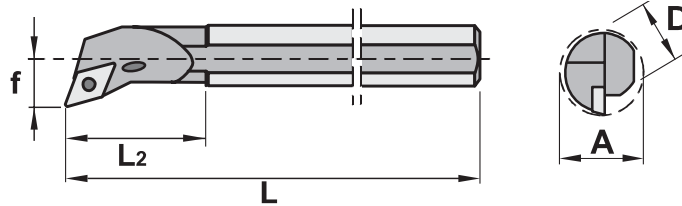


* For individual boring bar specifications, please see the next page.

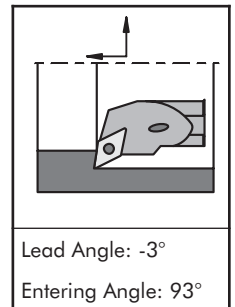
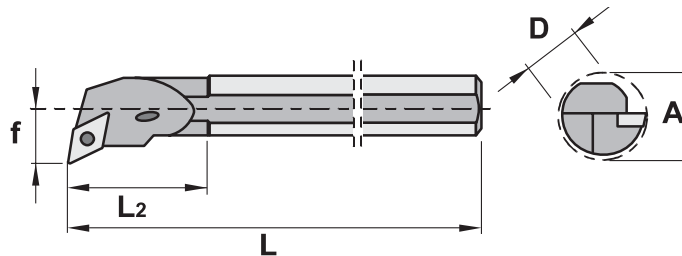
INTERNAL SCREW LOCK TOOLS



DESIGNATION	DIMENSIONS					INSERT (see pages 14-17)	SPARE PARTS	
	Min. Bore A	D	L	L ₂	f		Insert Screw	Wrench
A05H-SCLCR/L-2	.310	.313	4.0	.98	.171	CC_-21.5_	C-1425	C-5507
A06J-SCLCR/L-2	.470	.375	4.5	1.25	.234		C-1225	
A08K-SCLCR/L-2	.550	.500	5.0	1.49	.281			
A10M-SCLCR/L-2	.700	.625	6.0	1.96	.359			

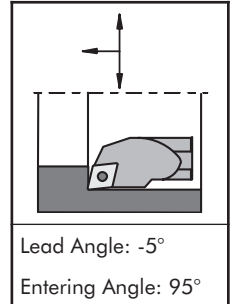
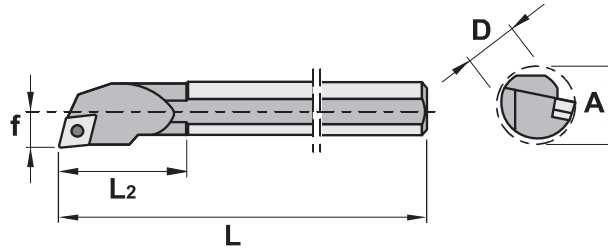


DESIGNATION	DIMENSIONS					INSERT (see pages 22-24)	SPARE PARTS	
	Min. Bore A	D	L	L ₂	f		Insert Screw	Wrench
A06J-SDQCR/L-2	.470	.375	4.5	1.25	.266	DC_-21.5_	C-1425	C-5507
A08K-SDQCR/L-2	.550	.500	5.0	1.49	.368		C-1225	
A10M-SDQCR/L-2	.700	.625	6.0	1.96	.433			

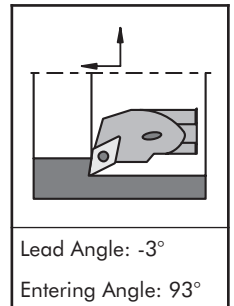
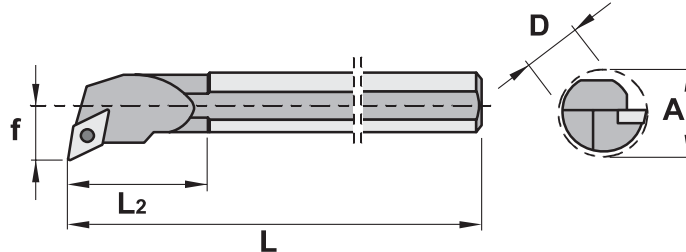


DESIGNATION	DIMENSIONS					INSERT (see pages 22-24)	SPARE PARTS	
	Min. Bore A	D	L	L ₂	f		Insert Screw	Wrench
A06J-SDUCR/L-2	.470	.375	4.5	1.25	.266	DC_-21.5_	C-1425	C-5507
A08K-SDUCR/L-2	.550	.500	5.0	1.49	.368		C-1225	
A10M-SDUCR/L-2	.700	.625	6.0	1.96	.433			

INTERNAL SCREW LOCK TOOLS



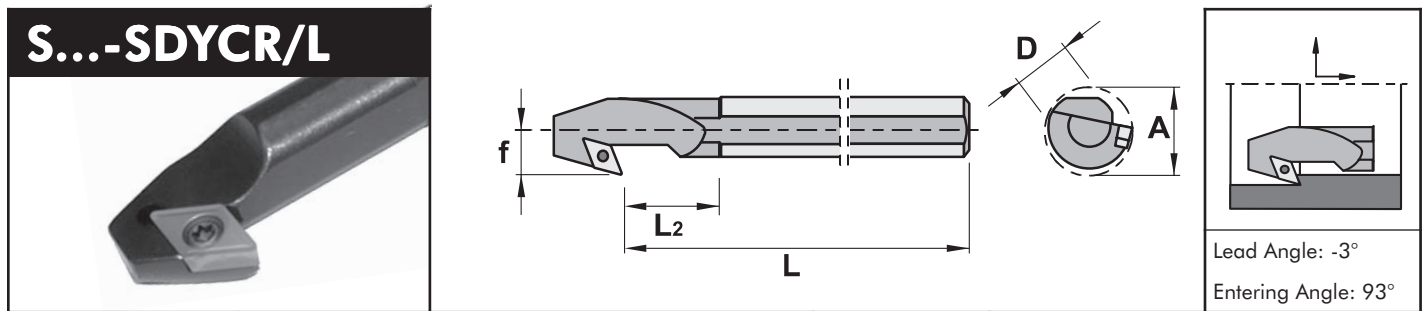
DESIGNATION	DIMENSIONS					INSERT (see pages 14-17)	SPARE PARTS			
	Min. Bore A	D	L	L ₂	f		Insert Screw	Wrench	Shim	Shim Screw
S04F-SCLPR/L-1	.313	.250	3.15	.67	.177	CPG_-1.51.2_	214.80.058	214.80.062	---	---
S06M-SCLCR/L-2	.500	.375	6.0	.830	.250	CC_-21.5_	C-1425	C-5507	---	---
S08M-SCLCR/L-2	.625	.500	6.0	.910	.312					
S10R-SCLCR/L-2	.812	.625	8.0	1.060	.406					
S10R-SCLCR/L-3	.812	.625	8.0	1.060	.406	CC_-32.5_	C-1440	C-5515	---	---
S12S-SCLCR/L-3	1.000	.750	10.0	1.580	.500					
S16T-SCLCR/L-3	1.280	1.000	12.0	1.810	.640					
S16T-SCLCR/L-4	1.280	1.000	12.0	3.000	.640	CC_-43_	C-1250	C-5520	---	---
S20U-SCLCR/L-4	1.530	1.250	14.0	3.000	.765					
S24V-SCLCR/L-4	1.780	1.500	15.75	3.000	.890					



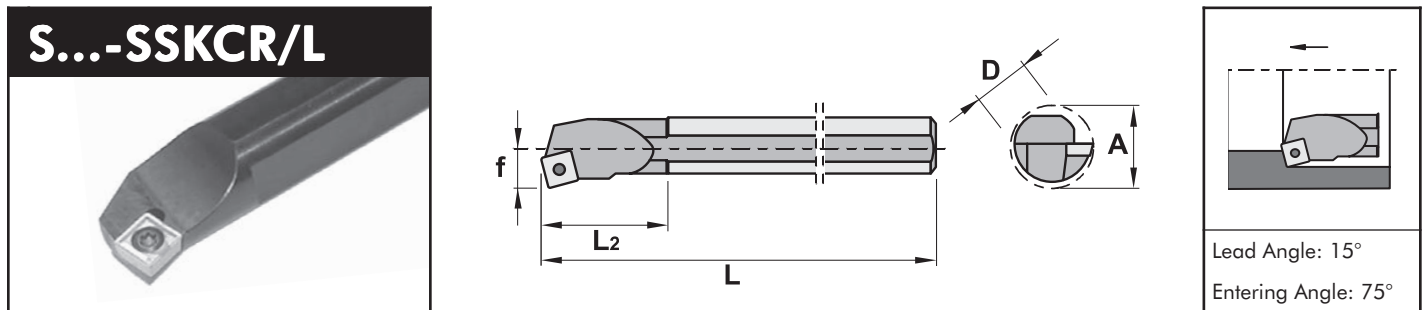
DESIGNATION	DIMENSIONS					INSERT (see pages 22-24)	SPARE PARTS			
	Min. Bore A	D	L	L ₂	f		Insert Screw	Wrench	Shim	Shim Screw
S06M-SDUCR/L-2	.750	.375	6.0	.830	.375	DC_-21.5_	C-1425	C-5507	---	---
S08M-SDUCR/L-2	.875	.500	6.0	.910	.406					
S10R-SDUCR/L-2	1.000	.625	8.0	1.060	.500					
S12S-SDUCR/L-3	1.250	.750	10.0	1.580	.625	DC_-32.5_	C-1240	C-5515	---	---
S16T-SDUCR/L-3	1.500	1.000	12.0	1.810	.750					
S20U-SDUCR/L-3	1.750	1.250	14.0	1.890	.765					

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

INTERNAL SCREW LOCK TOOLS



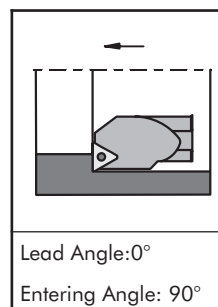
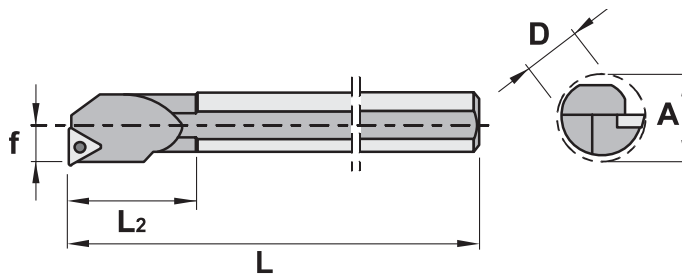
DESIGNATION	DIMENSIONS					INSERT (see pages 22-24)	SPARE PARTS			
	Min. Bore A	D	L	L ₂	f		Insert Screw	Wrench	Shim	Shim Screw
S12S-SDYCR/L-2	1.250	.750	10.0	.760	.625	DC_-21.5_	C-1225	C-5507	---	---
S16T-SDYCR/L-2	1.500	1.000	12.0	1.000	.750		C-1335	C-5516	C-3714	C-1750
S20U-SDYCR/L-3	1.750	1.250	14.0	1.270	1.270	DC_-32.5_				



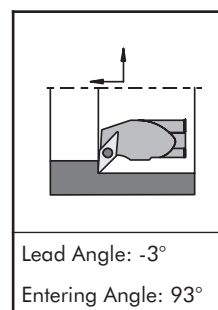
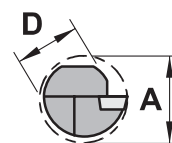
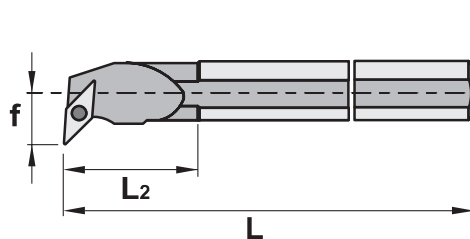
DESIGNATION	DIMENSIONS					INSERT (see pages 30-31)	SPARE PARTS	
	Min. Bore A	D	L	L ₂	f		Insert Screw	Wrench
S10R-SSKCR/L-3	.812	.625	8.0	1.060	.406	SC_-32_	C-1440	
S12S-SSKCR/L-3	1.000	.750	10.0	1.580	.500			C-5515
S16T-SSKCR/L-3	1.280	1.000	12.0	1.810	.640		C-1240	

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

INTERNAL SCREW LOCK TOOLS



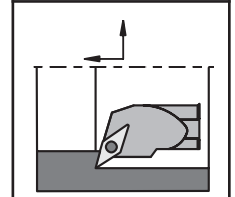
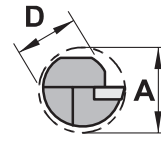
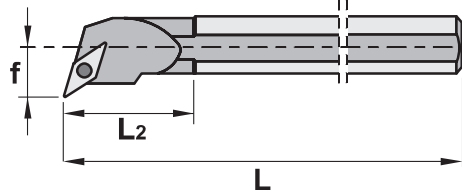
DESIGNATION	DIMENSIONS					INSERT (see pages 37-38)	SPARE PARTS			
	Min. Bore A	D	L	L ₂	f		Insert Screw	Wrench	Shim	Shim Screw
S06M-STFCR/L-2	.500	.375	6.0	.850	.250	TC_-21.5_	C-1425	C-5507	---	---
S08M-STFCR/L-2	.625	.500	6.0	.800	.312		C-1225			
S10R-STFCR/L-2	.812	.625	8.0	.960	.406					
S12S-STFCR/L-2	1.000	.750	10.0	1.420	.500					
S12S-STFCR/L-3	1.000	.750	10.0	1.420	.500	TC_-32.5_	C-1240	C-5515	---	---
S16T-STFCR/L-3	1.280	1.000	12.0	1.930	.640					
S20U-STFCR/L-3	1.530	1.250	14.0	1.970	.765					
S24V-STFCR/L-3	1.780	1.500	15.75	2.360	.890		C-1335	C-5516	C-3414	C-1750



DESIGNATION	DIMENSIONS					INSERT (see page 44)	SPARE PARTS			
	Min. Bore A	D	L	L ₂	f		Insert Screw	Wrench	Shim	Shim Screw
S20U-SVUBR/L-3	2.000	1.250	14.0	3.000	1.000	VBMT-33_	C-1335	C-5516	C-3718	C-1750
S24V-SVUBR/L-3	2.250	1.500	15.75	3.000	1.125					
S32W-SVUBR/L-3	2.750	2.000	17.75	4.000	1.375					

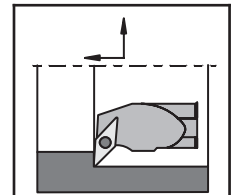
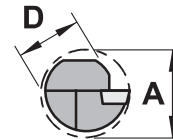
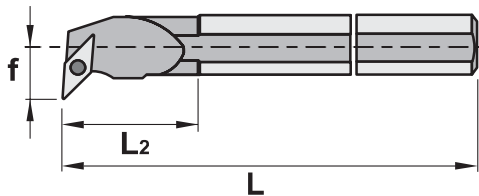
See Pages 47 to 50 for Widia's range of Indexable Inserts for Aluminum machining.

INTERNAL SCREW LOCK TOOLS



Lead Angle: -17.50°
Entering Angle: 107.5°

DESIGNATION	DIMENSIONS					INSERT (see page 50)	SPARE PARTS			
	Min. Bore A	D	L	L ₂	f		Insert Screw	Wrench	Shim	Shim Screw
S16T-SVQCR/L-3	1.375	1.000	12.0	.91	.750	VC_-33_	C-1240	C-5515	---	---
S20U-SVQCR/L-3	1.625	1.250	14.0	1.06	.875		C-1335	C-5516	C-3718	C-1750
S24V-SVQCR/L-3	2.000	1.500	15.75	1.37	1.063					



Lead Angle: -3°
Entering Angle: 93°

DESIGNATION	DIMENSIONS					INSERT (see page 50)	SPARE PARTS			
	Min. Bore A	D	L	L ₂	f		Insert Screw	Wrench	Shim	Shim Screw
S20U-SVUCR/L-3	2.000	1.250	14.0	3.000	1.000	VC_-33_	C-1335	C-5516	C-3718	C-1750
S24V-SVUCR/L-3	2.250	1.500	15.75	3.000	1.125					
S32W-SVUCR/L-3	2.750	2.000	17.75	4.000	1.375					

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