



T-MINI Boring bars

- Minimum bore diameter as small as .197" (5mm)
- Carbide and steel shanks
- Right hand and left hand

T-MINI Inserts

Shapes:

- CCGT
- TBGT
- WBGT
- VCMT/VCGT

Sizes:

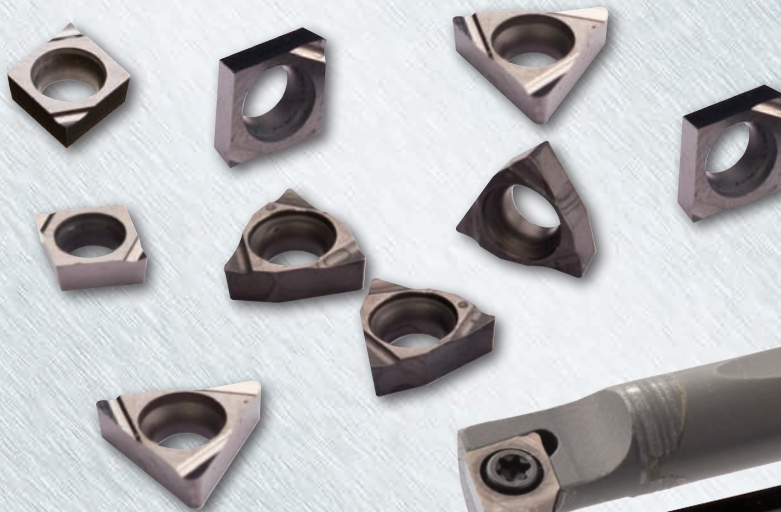
- .138" - .250" (3.50mm - 6.35mm)

Grade:

- CT3000 - Uncoated Cermet
 - TT9020 - PVD coated carbide **NEW!**
- Right hand and left hand styles

T-MINI Sleeves

- Inch: .625" OD
- .750" OD **NEW!**
- Metric: 16mm OD



INDEXABLE SYSTEM OF BORING BARS AND INSERTS FOR SMALL COMPONENT MACHINING

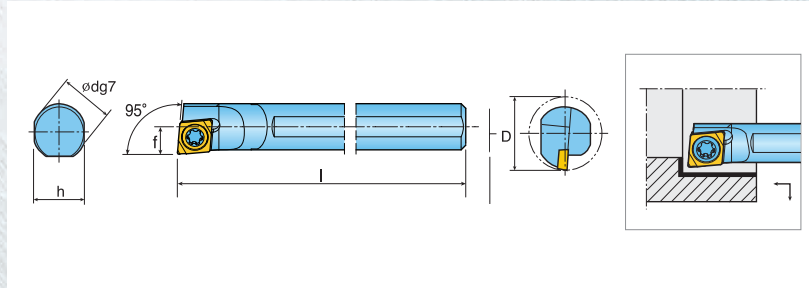
To meet the increasing demand for boring small parts such as machined medical implant devices and micro-sized electronic components, Ingersoll introduces a new line of miniature, indexable boring bars and inserts.

The unique T•MINI boring bar configuration improves chip evacuation and can be applied in boring applications where the minimum bore diameter is as small as .197" (5mm). Optional 16mm and .625" sleeves are available to provide a simple and secure means of holding of the boring bars.

T•MINI inserts feature sharp cutting edges that help lower cutting forces and vibration. This enables precision turning and excellent surface finish capabilities. Inserts are available in ground and pressed versions depending on the shape, and contain a smooth, homogenous surface finish that prevents chipping while extending tool life.



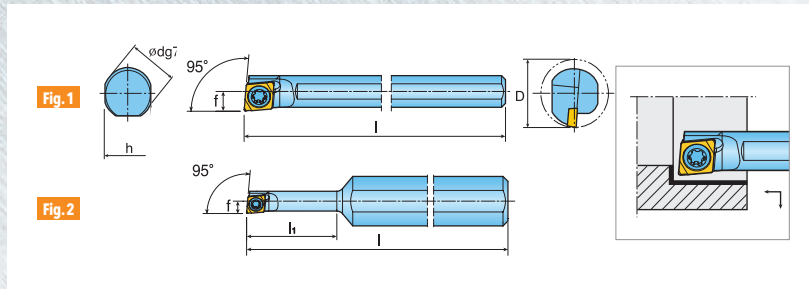
C-SCLCR/L (CARBIDE SHANK)



DESIGNATION	R	L	d	Dimensions (inch)			ϕD min	Insert	Screw	Wrench
				h	l	f				
C04G-SCLCR/L 03-D05	•	•	.157 (4mm)	.148	3.54	.098	.197 (5mm)	CC□T1.10.9□□ (CC□T 0301□□)	TS 16031I	T 6
C05H-SCLCR/L 03-D06	•	•	.197 (5mm)	.187	3.94	.098	.236 (6mm)	CC□T1.41.1□□ (CC□T 0401□□)	TS 20038I/ HG-P	T 6P
C06J-SCLCR/L 04-D07	•	•	.236 (6mm)	.217	4.33	.098	.276 (7mm)			
C07K-SCLCR/L 04-D08	•	•	.276 (7mm)	.256	4.92	.098	.315 (8mm)			

• Marked: Standard items
L-hand insert for R-hand toolholder, R-hand insert for L-hand toolholder

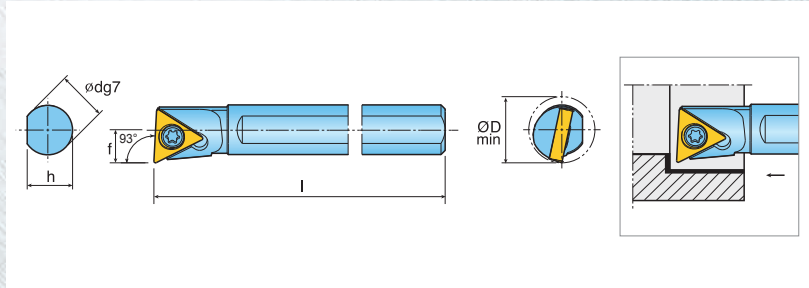
S-SCLCR/L (STEEL SHANK)



DESIGNATION	R	L	d	Dimensions (inch)			ϕD min	Insert	Screw	Wrench	SHAPE
				h	l	l1					
S04F-SCLCR/L 03-D05	•	•	.157 (4mm)	.148	3.15	.098	.197 (5mm)	CC□T1.10.9□□ (CC□T 0301□□)	TS 16031I	T 6	Fig 1
S05G-SCLCR/L 03-D06	•	•	.197 (5mm)	.187	3.54	.118	.236 (6mm)	CC□T1.41.1□□ (CC□T 0401□□)	TS 20038I/ HG-P	T 6P	Fig 1
S06H-SCLCR/L 04-D07	•	•	.236 (6mm)	.217	3.94	.138	.276 (7mm)				
S07J-SCLCR/L 04-D08	•	•	.276 (7mm)	.256	4.33	.157	.315 (8mm)				
S10H-SCLCR/L 03-D05	•	•	.394 (10mm)	.354	3.94	.591	.197 (5mm)	CC□T1.10.9□□ (CC□T 0301□□)	TS 16031I	T 6	Fig 2

• Marked: Standard items
L-hand insert for R-hand toolholder, R-hand insert for L-hand toolholder

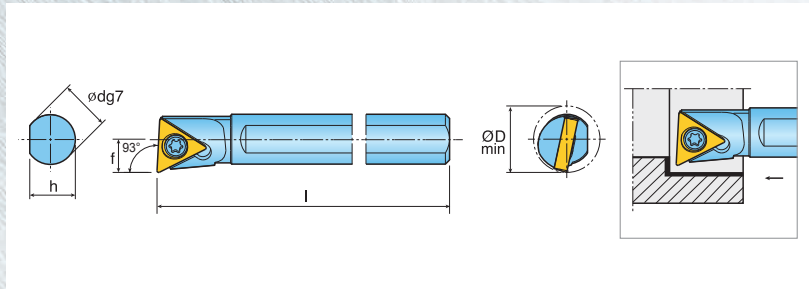
C-STUBR/L (CARBIDE SHANK)



DESIGNATION	R	L	Dimensions (inch)					ϕD_{min}	Insert	Screw	Wrench
			d	h	l	f					
C06J-STUBR/L 06-D08	•	•	.236 (6mm)	.217	4.33	.157	.315 (8mm)	TB□T1.21□□ (TB□T 0601□□)	TS 20043I/ HG-P	T 6P	

• Marked: Standard items
L-hand insert for R-hand toolholder, R-hand insert for L-hand toolholder

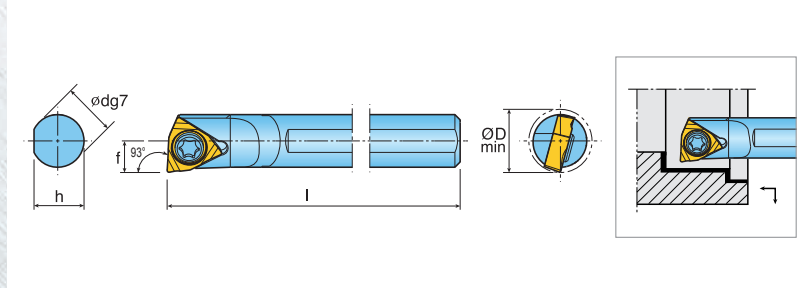
S-STUBR/L (STEEL SHANK)



DESIGNATION	R	L	Dimensions (inch)					ϕD_{min}	Insert	Screw	Wrench
			d	h	l	f					
S06H-STUBR/L 06-D08	•	•	.236 (6mm)	.217	3.94	.157	.315 (8mm)	TB□T1.21□□ (TB□T 0601□□)	TS 20043I/ HG-P	T 6P	

• Marked: Standard items
L-hand insert for R-hand toolholder, R-hand insert for L-hand toolholder

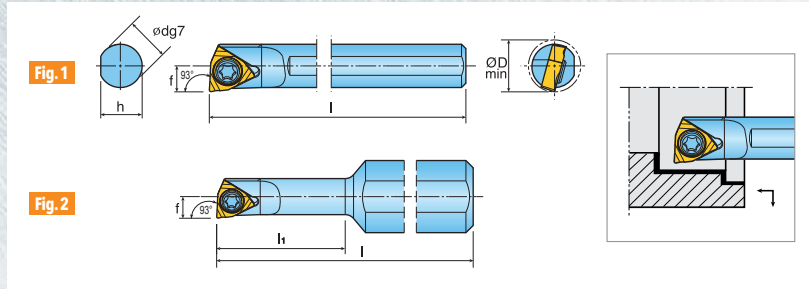
C-SWUBR/L (CARBIDE SHANK)



DESIGNATION	R	L	d	Dimensions (inch)				Insert	Screw	Wrench
				h	l	f	ØD min			
C05H-SWUBR/L 06-D06	•	•	.197 (5mm)	.187	3.94	.118	.236 (6mm)	 WB□T1.21□□ (WB□T 0601□□)	 TS 200381/ HG-P	 T 6P
C06J-SWUBR/L 06-D07	•	•	.236 (6mm)	.217	4.33	.138	.276 (7mm)			
C07K-SWUBR/L 06-D08	•	•	.276 (7mm)	.256	4.92	.157	.315 (8mm)			

• Marked: Standard items
 L-hand insert for R-hand toolholder, R-hand insert for L-hand toolholder

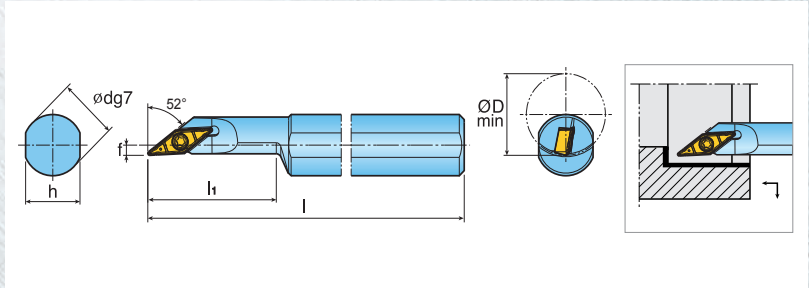
S-SWUBR/L (STEEL SHANK)






DESIGNATION	R	L	d	Dimensions (inch)					Insert	Screw	Wrench	SHAPE
				h	l	l1	f	ØD min				
S05G-SWUBR/L 06-D06	•	•	.197 (5mm)	.187	3.54	-	.118	.236 (6mm)	 WB□T1.21□□ (WB□T 0601□□)	 TS 200381/ HG-P	 T 6P	Fig 1
S06H-SWUBR/L 06-D07	•	•	.236 (6mm)	.217	4.33	-	.138	.276 (7mm)				
S07J-SWUBR/L 06-D08	•	•	.276 (7mm)	.256	4.33	-	.157	.315 (8mm)				
S10H-SWUBR/L 06-D06	•	•	.394 (10mm)	.354	3.94	.709	.118	.236 (6mm)				Fig 2

• Marked: Standard items
 L-hand insert for R-hand toolholder, R-hand insert for L-hand toolholder

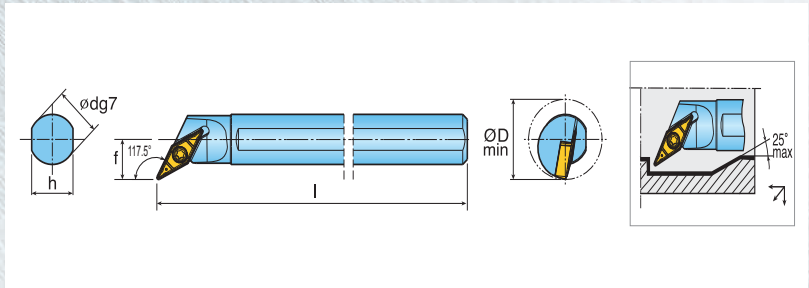
S-SVJCR/L (STEEL SHANK)






DESIGNATION	R	L	d	Dimensions (inch)					ϕD_{min}	 Insert	 Screw	 Wrench
				h	l	l ₁	f					
S12M-SVJCR/L 08-D16	•	•	.472 (12mm)	.433	5.91	1.02	.079	.630 (16mm)	VC□T1.51.5□□ (VC□T 0802□□)	TS 20038I/ HG-P	T 6P	
S16Q-SVJCR/L 08-D20	•	•	.630 (16mm)	.591	7.09	1.42	.079	.787 (20mm)				

• Marked: Standard items

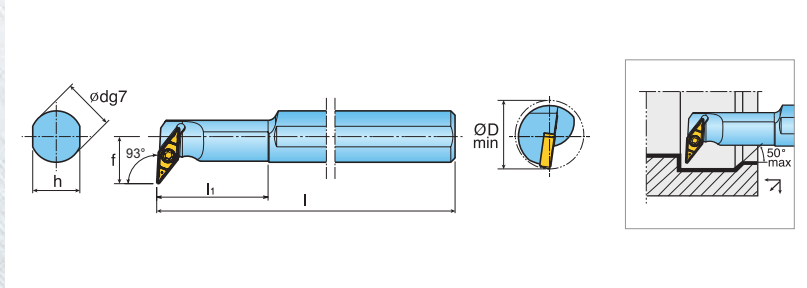
S-SVPCR/L (STEEL SHANK)



DESIGNATION	R	L	d	Dimensions (inch)					ϕD_{min}	 Insert	 Screw	 Wrench
				h	l	f						
S10K-SVPCR/L 08-D16	•	•	.394 (10mm)	.354	4.92	.236	.630 (16mm)	VC□T1.51.5□□ (VC□T 0802□□)	TS 20038I/ HG-P	T 6P		
S12M-SVPCR/L 11-D20	•	•	.472 (12mm)	.433	5.91	.394	.787 (20mm)	VC□T 22□□ (VC□T 1103□□)	SO 25065I	T 7		

• Marked: Standard items

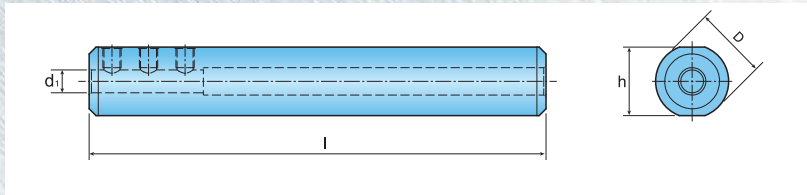
S-SVUCR/L (STEEL SHANK)



DESIGNATION	R	L	Dimensions (inch)						Insert	Screw	Wrench
			d	h	l	l1	f	ØD min			
S12M-SVUCR/L 08-D16	•	•	.472 (12mm)	.433	5.91	1.02	.433	.630 (16mm)	VC□T1.51.5□□ (VC□T 0802□□)	TS 20038I/HG-P	T 6P
S16Q-SVUCR/L 11-D20	•	•	.630 (16mm)	.591	7.09	1.26	.610	.787 (20mm)	VC□T 22□□	SO 25065I	T 7
S20R-SVUCR/L 11-D25	•	•	.787 (20mm)	.709	7.87	1.57	.689	.984 (25mm)	(VC□T 1103□□)		

• Marked: Standard items

TSL (SLEEVE)

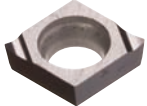
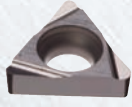
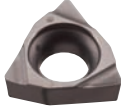




DESIGNATION	STOCK	Dimensions				Screw	Wrench				
		d1	h	l	D						
Metric	TSL 16-04	•	.157 (4mm)	15	100	SS M4 x 0.7 x 4	L-W2				
	TSL 16-05	•	.197 (5mm)	15	100						
	TSL 16-06	•	.236 (6mm)	15	100						
	TSL 16-07	•	.276 (7mm)	15	100						
Inch	TSL15.88-04-MINI	•	.157" (4mm)	.591"	3.94"	SS M4 x 0.7 x 4	L-W2				
	TSL15.88-05-MINI	•	.197" (5mm)	.591"	3.94"						
	TSL15.88-06-MINI	•	.236" (6mm)	.591"	3.94"						
	TSL15.88-07-MINI	•	.276" (7mm)	.591"	3.94"						
	TSL19.05-04-MINI	•	.157" (4mm)	.669"	3.94"			SS M4 x 0.7 x 4	L-W2		
	TSL19.05-05-MINI	•	.197" (5mm)	.669"	3.94"						
	TSL19.05-06-MINI	•	.236" (6mm)	.669"	3.94"						
	TSL19.05-07-MINI	•	.276" (7mm)	.669"	3.94"						
	TSL19.05-10-MINI	•	.394" (10mm)	.669"	3.94"					SS M3 x 0.5 x 3	L-W1.5
	TSL19.05-12-MINI	•	.472" (12mm)	.669"	3.94"						

• Marked: Standard items

INSERTS

- P** Carbon Steel C: 0.45%
- M** Austenitic Stainless Steel
- K** High Tensile Cast Iron
- N** Aluminum
- S** Inconel
- H** Hardened Steel

INSERT	ANSI DESIGNATION	ISO DESIGNATION	Dimensions (inches)				Grade	CT3000	PV3010	T18115	T18125	T19225	T15080	T19020
			I.C.	Rad	Feed (ipr)	DOC								
 CCGT 03, 04	CCGT 0301003 R-FF	CCGT 1.10.9XR-FF	0.138	0.001	.001 - .004	.002 - .012	●●●●							●●●●
	CCGT0301003 L-FF	CCGT 1.10.9XL-FF	0.138	0.001	.001 - .004	.002 - .012	●●●●							●●●●
	CCGT 030101 R-FF	CCGT 1.10.9XR-FF	0.138	0.004	.001 - .005	.003 - .016	●●●●							●●●●
	CCGT 030101 L-FF	CCGT 1.10.9XL-FF	0.138	0.004	.001 - .005	.003 - .016	●●●●							●●●●
	CCGT 030102 R-FF	CCGT 1.10.90.5R-FF	0.138	0.008	.001 - .006	.004 - .016	●●●●							●●●●
	CCGT 030102 L-FF	CCGT 1.10.90.5L-FF	0.138	0.008	.001 - .006	.004 - .016	●●●●							●●●●
	CCGT 030104 R-FF	CCGT 1.10.91R-FF	0.138	0.016	.002 - .008	.004 - .016	●●●●							●●●●
	CCGT 030104 L-FF	CCGT 1.10.91L-FF	0.138	0.016	.002 - .008	.004 - .016	●●●●							●●●●
	CCGT 0401003 R-FF	CCGT 1.41.1XR-FF	0.169	0.001	.001 - .004	.002 - .016	●●●●							●●●●
	CCGT 0401003 L-FF	CCGT 1.41.1XL-FF	0.169	0.001	.001 - .004	.002 - .016	●●●●							●●●●
	CCGT 040101 R-FF	CCGT 1.41.10R-FF	0.169	0.004	.001 - .005	.004 - .020	●●●●							●●●●
	CCGT 040101 L-FF	CCGT 1.41.10L-FF	0.169	0.004	.001 - .005	.004 - .020	●●●●							●●●●
	CCGT 040102 R-FF	CCGT 1.41.10.5R-FF	0.169	0.008	.001 - .005	.004 - .020	●●●●							●●●●
	CCGT 040102 L-FF	CCGT 1.41.10.5L-FF	0.169	0.008	.001 - .005	.004 - .020	●●●●							●●●●
CCGT 040104 R-FF	CCGT 1.41.11R-FF	0.169	0.016	.002 - .008	.004 - .020	●●●●							●●●●	
CCGT 040104 L-FF	CCGT 1.41.11L-FF	0.169	0.016	.002 - .008	.004 - .020	●●●●							●●●●	
 TBGT 06	TBGT 0601003 R-FF	TBGT 1.21XR-FF	0.156	0.001	.001 - .004	.002 - .012	●●●●							●●●●
	TBGT 0601003 L-FF	TBGT 1.21XL-FF	0.156	0.001	.001 - .004	.002 - .012	●●●●							●●●●
	TBGT 060101 R-FF	TBGT 1.210R-FF	0.156	0.004	.001 - .005	.003 - .016	●●●●							●●●●
	TBGT 060101 L-FF	TBGT 1.210L-FF	0.156	0.004	.001 - .005	.003 - .016	●●●●							●●●●
	TBGT 060102 R-FF	TBGT 1.210.5R-FF	0.156	0.008	.001 - .006	.004 - .016	●●●●							●●●●
	TBGT 060102 L-FF	TBGT 1.210.5L-FF	0.156	0.008	.001 - .006	.004 - .016	●●●●							●●●●
	TBGT 060104 R-FF	TBGT 1.211R-FF	0.156	0.016	.002 - .008	.004 - .016	●●●●							●●●●
TBGT 060104 L-FF	TBGT 1.211L-FF	0.156	0.016	.002 - .008	.004 - .016	●●●●							●●●●	
 WBGT 06	WBGT 0601003 R-FF	WBGT 1.21XR-FF	0.156	0.001	.001 - .004	.002 - .012	●●●●							●●●●
	WBGT 0601003 L-FF	WBGT 1.21XL-FF	0.156	0.001	.001 - .004	.002 - .012	●●●●							●●●●
	WBGT 060101 R-FF	WBGT 1.210R-FF	0.156	0.004	.001 - .005	.003 - .016	●●●●							●●●●
	WBGT 060101 L-FF	WBGT 1.210L-FF	0.156	0.004	.001 - .005	.003 - .016	●●●●							●●●●
	WBGT 060102 R-FF	WBGT 1.210.5R-FF	0.156	0.008	.001 - .006	.004 - .016	●●●●							●●●●
	WBGT 060102 L-FF	WBGT 1.210.5L-FF	0.156	0.008	.001 - .006	.004 - .016	●●●●							●●●●
	WBGT 060104 R-FF	WBGT 1.211R-FF	0.156	0.016	.002 - .008	.004 - .016	●●●●							●●●●
WBGT 060104 L-FF	WBGT 1.211L-FF	0.156	0.016	.002 - .008	.004 - .016	●●●●							●●●●	
 VCGT 11	VCGT 110301 SA	VCGT 220 SA	0.250	0.004	.0005 - .008	.004 - .060								●●●●
	VCGT 110302 SA	VCGT 220.5 SA	0.250	0.008	.0008 - .008	.008 - .060								●●●●
	VCGT 110304 SA	VCGT 221 SA	0.250	0.016	.002 - .008	.008 - .060								●●●●
 VCMT 08,11	VCMT 080202 PC	VCMT 1.51.51 PC	0.187	0.008	.001 - .006	.008 - .060	●●●●		●●●●	●●●●	●●●●			
	VCMT 080204 PC	VCMT 1.51.51 PC	0.187	0.016	.002 - .008	.008 - .060	●●●●	●●●●	●●●●	●●●●	●●●●			
	VCMT 110304 PC	VCMT 221 PC	0.250	0.016	.002 - .008	.004 - .067	●●●●			●●●●	●●●●			