

Top-Lok™

The Top-Lok clamping system locks the inserts against both the back and side of the pocket, providing clamping integrity axially and radially.

- Precision ground inserts
- Interchangeable with similar clamping systems
- Double ended inserts provide maximum edge security

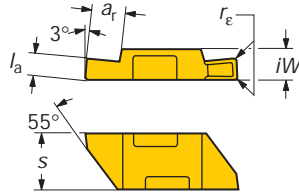
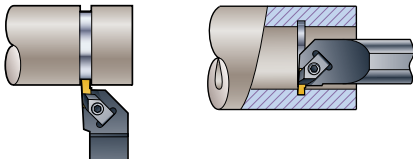
Grades for all materials



The Top-Lok system has different carbide grades to cover all types of workpiece materials from the very wear resistant grade GC3020 to the tough grade GC2145.

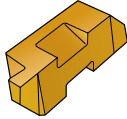
Grooving inserts

Coromant grades



Right hand shown

GC = Coated carbide
- = Uncoated cemented carbide

	Ordering code		Dimensions, inch					P		M		K		N		S			
								GC	GC	GC	GC	GC	-	GC	GC	-	-	GC	-
								2135	4125	3020	2135	4125	H13A	4125	3020	H13A	H13A	4125	H13A
	Right hand	Left hand	s	a _f	r _e	iW	l _a												
 <p>TLG Neutral precision Double ended grooving</p> <p>Tolerances, inch l_a = ± .001</p>	TLG 2031R	TLG 2031L	.219	.050	.002	.150	.031	☆	★	☆	☆	★	☆	★	☆	★	☆	★	
	TLG 2041R	TLG 2041L	.219	.050	.005	.150	.041	☆	★	☆	☆	★	☆	★	☆	★	☆	★	
	TLG 2047R	TLG 2047L	.219	.050		.150	.047	☆	★	☆	☆	★	☆	★	☆	★	☆	★	
	TLG 2058R	TLG 2058L	.219	.050	.005	.150	.058	☆	★	☆	☆	★	☆	★	☆	★	☆	★	
	TLG 2062R	TLG 2062L	.219	.110	.010	.150	.062	☆	★	☆	☆	★	☆	★	☆	★	☆	★	
	TLG 2094R	TLG 2094L	.219	.110		.150	.094	☆	★	☆	☆	★	☆	★	☆	★	☆	★	
	TLG 2125R	TLG 2125L	.219	.110		.150	.125	☆	★	☆	☆	★	☆	★	☆	★	☆	★	
	TLG 3047R	TLG 3047L	.344	.075	.005	.195	.047	☆	★	☆	☆	★	☆	★	☆	★	☆	★	
	TLG 3062R	TLG 3062L	.344	.094	.010	.195	.062	☆	★	☆	☆	★	☆	★	☆	★	☆	★	
	TLG 3072R	TLG 3072L	.344	.094		.195	.072	☆	★	☆	☆	★	☆	★	☆	★	☆	★	
	TLG 3078R	TLG 3078L	.344	.094		.195	.078	☆	★	☆ ¹⁾	☆	★	☆	★ ¹⁾	☆	★	☆	★	
	TLG 3088R	TLG 3088L	.344	.094		.195	.088	☆	★	☆ ¹⁾	☆	★	☆	★	☆	★	☆	★	
	TLG 3094R	TLG 3094L	.344	.150		.195	.094	☆	★	☆	☆	★	☆	★	☆	★	☆	★	
	TLG 3097R	TLG 3097L	.344	.150	.010 .015	.195	.097	☆	★	☆ ¹⁾	☆	★	☆	★ ¹⁾	☆	★	☆	★	
	TLG 3105R	TLG 3105L	.344	.150	.005 .010	.195	.105	☆	★		☆	★	☆	★	☆	★	☆	★	
	TLG 3110R	TLG 3110L	.344	.150	.010 .015	.195	.110	☆	★		☆	★	☆ ¹⁾	★	☆ ¹⁾	★	☆	★ ¹⁾	
	TLG 3122R	TLG 3122L	.344	.150	.005	.195	.122	☆	★		☆	★	☆	★	☆	★	☆	★	
	TLG 3125R	TLG 3125L	.344	.150	.010	.195	.125	☆	★	☆	☆	★	☆	★	☆	★	☆	★	
	TLG 3142R	TLG 3142L	.344	.150	.010 .015	.195	.142	☆	★		☆	★	☆	★	☆	★	☆	★	
	TLG 3156R	TLG 3156L	.344	.150	.005	.195	.156	☆	★	☆	☆	★	☆	★	☆	★	☆	★	
TLG 3178R	TLG 3178L	.344	.150	.010	.195	.178	☆	★		☆	★	☆	★	☆	★	☆	★		
TLG 3185R	TLG 3185L	.344	.150	.020	.195	.185	☆	★		☆	★	☆	★	☆	★	☆	★		
TLG 3189R	TLG 3189L	.344	.150	.025	.195	.189	☆	★	☆	☆	★	☆	★	☆	★	☆	★		

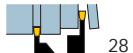
¹⁾ Grade available in right hand insert only. Left hand not available.
- Other l_a dimensions and corner radii are easily available by request.

Ordering example: 10 pieces TLG 2031R 4125
TLG 2031L 4125

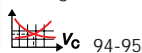
R = Right hand, L = Left hand

★ = First choice

External holders

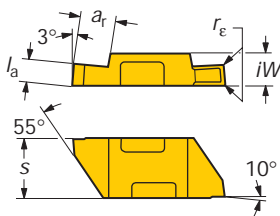
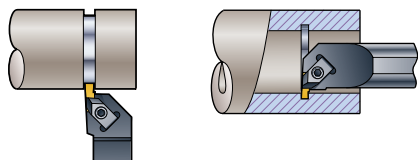


Cutting data



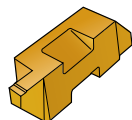
Grooving inserts

Coromant grades



Right hand shown

GC = Coated carbide/Cermet
- = Uncoated cemented carbide

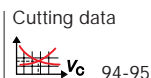
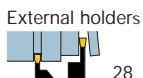
	Ordering code		Dimensions, inch					P			M			K		N		S		
								GC	GC	GC	GC	GC	-	GC	GC	-	-	-	GC	-
								2135	4125	3020	2135	4125	H13A	4125	3020	H13A	H13A	4125	H13A	
	Right hand	Left hand	s	a _r	r _ε	iW	l _a													
 <p>TLGP Positive precision Double ended grooving</p> <p>Tolerances, inch l_a = ± .001</p>	TLGP 2031R	TLGP 2031L	.219	.050	.002	.150	.031	☆	★		☆	★	☆	☆		☆	☆	☆	★	
	TLGP 2041R	TLGP 2041L	.219	.050	.005	.150	.041	☆	★		☆	★	☆	☆		☆	☆	☆	★	
	TLGP 2047R	TLGP 2047L	.219	.050		.150	.047	☆	★		☆	★	☆	☆		☆	☆	☆	★	
	TLGP 2058R	TLGP 2058L	.219	.050	.005	.150	.058	☆	★		☆	★	☆	☆		☆	☆	☆	★	
	TLGP 2062R	TLGP 2062L	.219	.110	.010	.150	.062	☆	★		☆	★	☆	☆		☆	☆	☆	★	
	TLGP 2094R	TLGP 2094L	.219	.110		.150	.094	☆	★		☆	★	☆	☆		☆	☆	☆	★	
	TLGP 2125R	TLGP 2125L	.219	.110		.150	.125	☆	★		☆	★	☆	☆		☆	☆	☆	★	
	TLGP 3047R	TLGP 3047L	.344	.075	.005	.195	.047	☆	★	☆ ¹⁾	☆	★	☆	☆	★ ¹⁾			☆	★	
	TLGP 3062R	TLGP 3062L	.344	.094	.010	.195	.062	☆	★	☆	☆	★	☆	☆	★			☆	★	
	TLGP 3072R	TLGP 3072L	.344	.094		.195	.072	☆	★		☆	★	☆	☆		☆	☆	☆	★	
	TLGP 3078R	TLGP 3078L	.344	.094		.195	.078	☆	★		☆	★	☆	☆		☆	☆	☆	★	
	TLGP 3088R	TLGP 3088L	.344	.094		.195	.088	☆	★		☆	★	☆	☆		☆	☆	☆	★	
	TLGP 3094R	TLGP 3094L	.344	.150		.195	.094	☆	★	☆	☆	★	☆	☆	★			☆	★	
	TLGP 3097R	TLGP 3097L	.344	.150	.010 .015	.195	.097	☆	★	☆ ¹⁾	☆	★	☆	☆	★ ¹⁾			☆	★	
	TLGP 3105R	TLGP 3105L	.344	.150	.005 .010	.195	.105	☆	★	☆ ²⁾	☆	★	☆	☆	★ ²⁾			☆	★	
	TLGP 3110R	TLGP 3110L	.344	.150	.010 .015	.195	.110	☆	★		☆	★	☆	☆		☆	☆	☆	★	
	TLGP 3122R	TLGP 3122L	.344	.150	.005	.195	.122	☆	★		☆	★	☆	☆		☆	☆	☆	★	
	TLGP 3125R	TLGP 3125L	.344	.150	.010	.195	.125	☆	★	☆	☆	★	☆	☆	★	☆	☆	☆	★	
	TLGP 3142R	TLGP 3142L	.344	.150	.010 .015	.195	.142	☆	★		☆	★	☆	☆		☆	☆	☆	★	
	TLGP 3156R	TLGP 3156L	.344	.150	.005	.195	.156	☆	★	☆ ¹⁾	☆	★	☆	☆	★ ¹⁾	☆	☆	☆	★	
TLGP 3178R	TLGP 3178L	.344	.150	.010	.195	.178	☆	★		☆	★	☆	☆		☆	☆	☆	★		
TLGP 3185R	TLGP 3185L	.344	.150	.020	.195	.185	☆	★		☆	★	☆	☆		☆	☆	☆	★		
TLGP 3189R	TLGP 3189L	.344	.150	.025	.195	.189	☆	★	☆ ¹⁾	☆	★	☆	☆	★ ¹⁾	☆	☆	☆	★		

1) Grade available in right hand insert only. Left hand not available.
2) Grade available in left hand insert only. Right hand not available.
- Other l_a dimensions and corner radii are easily available by request.

Ordering example: 10 pieces TLGP 2031R 4125
TLGP 2031L 4125

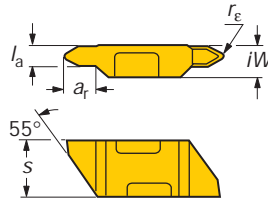
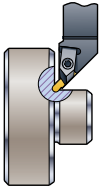
R = Right hand, L = Left hand

★ = First choice



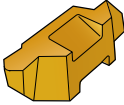
Undercutting inserts

Coromant grades



Right hand shown

GC = Coated carbide

	Ordering code		Dimensions, inch					P	M	K	N	S
								GC		GC	GC	
	Right hand	Left hand	s	a _r	r _ε	iW	l _a	4125	4125	4125		4125
 <p>TLU 45° undercutting Neutral precision. Double ended</p>	TLU 3094R	TLU 3094L	.344	.125	.020	.195	.094	☆				☆
	TLU 3125R	TLU 3125L	.344	.188	.047	.195	.125	☆	☆	☆		☆
	TLU 3156R	TLU 3156L	.344	.188	.047	.195	.156	☆	☆	☆		☆

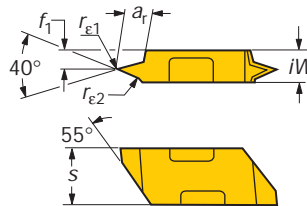
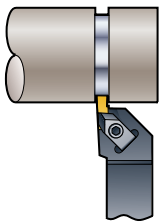
Other l_a dimensions and corner radii are easily available by request.

Ordering example: 10 pieces **TLU 3094R 4125**
TLU 3094L 4125

R = Right hand, L = Left hand

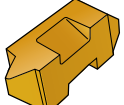
Grooving inserts

Coromant grades



Right hand shown

GC = Coated carbide/Cermet

	Ordering code		Dimensions, inch							P	M	K	N	S
										GC		GC	GC	
	Right hand	Left hand	s	f ₁	a _r	r _{ε1}	iW	r _{ε2}	4125	4125	4125		4125	
 <p>TLV Poly-Vee Neutral double ended</p>	TLV 3RJ	TLV 3LJ	.344	.125	.087	.012	.195	.008	☆	☆	☆		☆	

Other l_a dimensions and corner radii are easily available by request.

Ordering example: 10 pieces **TLV 3RJ 4125**
TLV 3LJ 4125

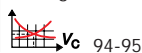
R = Right hand, L = Left hand

External holders


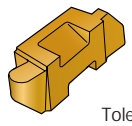


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Cutting data



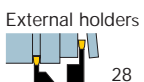
94-95

Grooving inserts		TLR		TLRP		Coromant grades													
						P		M		K		N		S					
		Ordering code		Dimensions, inch				GC	GC	GC	GC	GC	-	GC	GC	-	GC	-	
		Right hand	Left hand	s	a _r	r _ε	iW	2135	4125	3020	2135	4125	H13A	4125	3020	H13A	H13A	4125	H13A
 <p>Full radius Neutral precision Double ended</p> <p>Tolerances, inch l_a = ± .001</p> <p>TLR</p>	TLR 3031R	TLR 3031L	.344	.094	.031	.195	☆	★	☆	☆	★	☆	☆	★	☆	★	☆	☆	★
	TLR 3047R	TLR 3047L	.344	.150	.047	.195	☆	★	☆	☆	★	☆	☆	★	☆	★	☆	☆	★
	TLR 3062R	TLR 3062L	.344	.150	.062	.195	☆	★	☆	☆	★	☆	☆	★	☆	★	☆	☆	★
	TLR 3078R	TLR 3078L	.344	.150	.078	.195	☆	★	☆	☆	★	☆	☆	★	☆	★	☆	☆	★
	TLR 3094R	TLR 3094L	.344	.150	.094	.195	☆	★	☆ ¹⁾	☆	★	☆	☆	★	☆	★	☆	☆	★
 <p>Full radius 5° positive precision Double ended</p> <p>Tolerances, inch l_a = ± .001</p> <p>TLRP</p>	TLRP 3031R	TLRP 3031L	.344	.094	.031	.195	☆	★	☆	☆	★	☆	☆	★	☆	★	☆	☆	★
	TLRP 3047R	TLRP 3047L	.344	.150	.047	.195	☆	★	☆	☆	★	☆	☆	★	☆	★	☆	☆	★
	TLRP 3062R	TLRP 3062L	.344	.150	.062	.195	☆	★	☆ ¹⁾	☆	★	☆	☆	★	☆	★	☆	☆	★
	TLRP 3078R	TLRP 3078L	.344	.150	.078	.195	☆	★	☆	☆	★	☆	☆	★	☆	★	☆	☆	★
	TLRP 3094R	TLRP 3094L	.344	.150	.094	.195	☆	★	☆	☆	★	☆	☆	★	☆	★	☆	☆	★

1) Grade available in right hand insert only. Left hand not available.
 - Other l_a dimensions and corner radii are easily available by request.

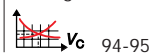
Ordering example: 10 pieces TLR 3031R 4125
 TLR 3031L 4125

R = Right hand, L = Left hand
 ★ = First choice



28

Cutting data



In CANADA, call us toll-free
 1-800-268-0703



In the UNITED STATES call us toll-free
 1-800-SANDVIK (1-800-726-3845)

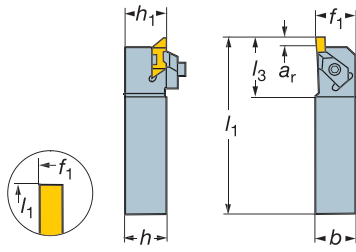
Shank tools

Top-Lok™ screw clamp design



Inserts:
TL

TLSR/L-S



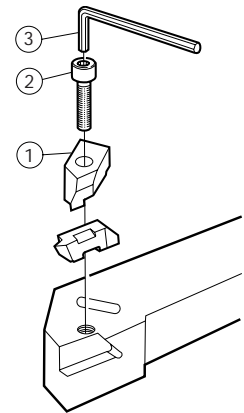
Right hand styles shown

Note:
Right hand tools use right hand inserts.
Left hand tools use left hand inserts

	Ordering code	Dimensions, inch/mm							Gauge insert		
		a_r	b	$f_1^{(2)}$	h	h_1	l_1	l_3			
	Inch								TLG 2	7/64	
	TLSR/L 62D-S		.125	.375	.375	.375	.375	6.00			.880
	82D-S		.125	.500	.500	.500	.500	6.00			.880
	TLSR 102D-S		.125	.625	.625	.625	.625	6.00			.880
	TLSR/L 83D-S		.180	.500	.500	.500	.500	6.00			.880
	103D-S		.180	.625	.625	.625	.625	6.00			.880
	123D-S		.180	.750	.750	.750	.750	6.00	1.300		
	Metric									TLG 2	7/64
	TLSR/L 0808M2-S		.125	8	8	8	8	150	22.2		
	1010M2-S		.125	10	10	10	10	150	22.2		
1212M2-S		.125	12	12	12	12	150	22.2			
TLSR/L 1616M3-S		.180	16	16	16	16	150	33.0	TLG 3	5/32	

²⁾ f_1 dimension qualified over sharp point of insert.

Ordering example: 2 pieces TLSR-62D-S
2 pieces TLSL-62D-S
R = Right hand, L = Left hand



Spare parts

Insert size

	Clamp for right hand holder	Clamp for left hand holder	Clamping screw	Key (size)
TLG 2	C2R	C2L	10440 (6-32)	3021 011-764 (7/64)
TLG 3	C3R	C3L	10090 (10-32)	3021 010-040 (5/32)

Inserts

