

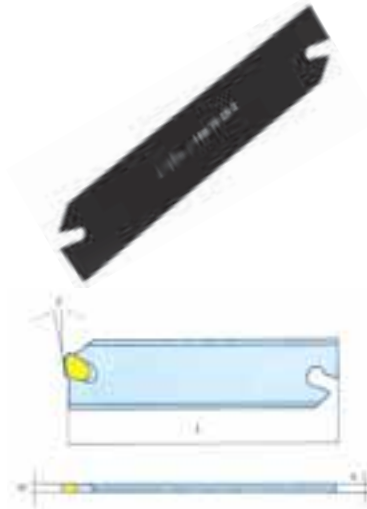
SELF LOCKING CUT-OFF AND GROOVING TOOL SYSTEM (Continued)

SERIES 559:



ADJUSTABLE BLADES

Blade Number	Type	Insert Width	Maximum Cutting Depth	Insert Style (MGT/N/R/L)	Length	Order Number	Price
MGIH 19-2	Str.	.087 & .093	1-1/2	2 + 2.4	3-3/8	5591192	
MGIH 26-2	Str.	.087 & .093	3	2 + 2.4	4-5/16	5591262	
MGIH 26-3	Str.	.120	3	3	4-5/16	5591263	
MGIH 26-4	Str.	.160	3	4	4-5/16	5591264	
MGIH 26-5	Str.	.187 & .200	3	4.8 + 5	4-5/16	5591265	
MGIH 26-6	Str.	.250	3	6	4-5/16	5591266	
MGIH 32-3	Str.	.120	4	3	5-7/8	5591323	
MGIH 32-4	Str.	.160	4	4	5-7/8	5591324	
MGIH 32-5	Str.	.187 & .200	5	4.8 + 5	5-7/8	5591325	
MGIH 32-6	Str.	.250	5	6	5-7/8	5591326	
MGIH 32-9	Str.	.375	6	9	5-7/8	5592329	



TOOL BLOCKS

Block Number	Center Height	Length	Adjustable Blade Used	Order Number	Price
MGTBN 16-2	5/8	3	MGIH 19-2	5591162	
MGTBR 19-2	3/4	4	MGIH 19-2	5592192	
MGTBL 19-2	3/4	4	MGIH 19-2	5593192	
MGTBN 16-5	5/8	3-7/16	MGIH 26-2,3,4,5,6	5591165	
MGTBN 19-5	3/4	3-7/16	MGIH 26-2,3,4,5,6	5591195	
MGTBN 20-5	25/32	3-7/16	MGIH 26-2,3,4,5,6	5591205	
MGTBN 25-5	1	3-7/16	MGIH 26-2,3,4,5,6	5591255	
MGTBR 25-6	1	4-3/4	MGIH 26-2,3,4,5,6	5592256	
MGTBL 25-6	1	4-3/4	MGIH 26-2,3,4,5,6	5593256	
MGTBN 19-6	3/4	3-15/16	MGIH 32-3,4,5,6	5591196	
MGTBN 20-6	25/32	3-15/16	MGIH 32-3,4,5,6	5591206	
MGTBN 25-6	1	4-5/16	MGIH 32-3,4,5,6	5591256	
MGTBN 32-6	1-1/4	4-5/16	MGIH 32-3,4,5,6,9	5590326	
MGTBN 38-6	1-1/2	4-5/16	MGIH 32-3,4,5,6,9	5591386	



TOOL HOLDERS

Tool Holder Number	Center Height	Insert Width	Order No.	Price
MGTHR 9.5-2	3/8	.087 & .093	5592952	
MGTHL 9.5-2	3/8	.087 & .093	5593952	
MGTHR 9.5-3	3/8	.120	5592953	
MGTHL 9.5-3	3/8	.120	5593953	
MGTHR 10-2	25/64	.087 & .093	5592102	
MGTHL 10-2	25/64	.087 & .093	5593102	
MGTHR 12-2	1/2	.087 & .093	5592122	
MGTHL 12-2	1/2	.087 & .093	5593122	
MGTHR 12-3	1/2	.120	5592123	
MGTHL 12-3	1/2	.120	5593123	
MGTHR 16-2	5/8	.087 & .093	5592162	
MGTHL 16-2	5/8	.087 & .093	5593162	
MGTHR 16-3	5/8	.120	5592163	
MGTHL 16-3	5/8	.120	5593163	
MGTHR 16-4	5/8	.160	5592164	
MGTHL 16-4	5/8	.160	5593164	



Tool Holder Number	Center Height	Insert Width	Order No.	Price
MGTHR 19-2	3/4	.087 & .093	5590192	
MGTHL 19-2	3/4	.087 & .093	5594192	
MGTHR 19-3	3/4	.120	5592193	
MGTHL 19-3	3/4	.120	5593193	
MGTHR 19-4	3/4	.160	5592194	
MGTHL 19-4	3/4	.160	5593194	
MGTHR 19-5	3/4	.187 & .200	5592195	
MGTHL 19-5	3/4	.187 & .200	5593195	
MGTHR 25-3	1	.120	5592253	
MGTHL 25-3	1	.120	5593253	
MGTHR 25-4	1	.160	5592254	
MGTHL 25-4	1	.160	5593254	
MGTHR 25-5	1	.187 & .200	5592255	
MGTHL 25-5	1	.187 & .200	5593255	

• N = Neutral • R = Right Hand • L = Left Hand

CUTTING TOOLS - INDEXABLE

CUT-OFF SYSTEM SERIES 559:



SELF LOCKING CUT-OFF AND GROOVING TOOL SYSTEM

Inserts are held securely by a tapered locking system. The unique design of inserts reduces machining forces, permits maximum speeds and feeds, thus resulting in greater productivity. Inserts are available in Standard and Coated carbide grades. Inserts can be used directly with tool holders but when used with a tool block, it is necessary to purchase an adjustable blade. One tool block accepts different adjustable blades for cutting different thicknesses.



CARBIDE INSERTS

Insert No.	Lead Angle	Width	Gen. Purpose		Steel		Coated	
			Order No.	Price	Order No.	Price	Order No.	Price
MGTN-2	0°	.087	5592001		5592011		5592021	
MGTR-2	0°	.087	5592002		5592012		5592022	
MGTL-2	8°	.087	5592003		5592013		5592023	
MGTN-2.4	0°	.093	5592401		5592411		5592421	
MGTR-2.4	8°	.093	5592402		5592412		5592422	
MGTL-2.4	8°	.093	5592403		5592413		5592423	
MGTN-3	0°	.120	5593001		5593011		5593021	
MGTR-3	8°	.120	5593002		5593012		5593022	
MGTL-3	8°	.120	5593003		5593013		5593023	
MGTN-4	0°	.160	5594001		5594011		5594021	
MGTR-4	8°	.160	5594002		5594012		5594022	
MGTL-4	8°	.160	5594003		5594013		5594023	
MGTN-4.8	0°	.187	5594801		5594811		5594821	
MGTR-4.8	8°	.187	5594802		5594812		5594822	
MGTL-4.8	8°	.187	5594803		5594813		5594823	
MGTN-5	0°	.200	5595001		5595011		5595021	
MGTR-5	8°	.200	5595002		5595012		5595022	
MGTL-5	8°	.200	5595003		5595013		5595023	
MGTN-6	0°	.250	5596001		5596011		5596021	
MGTR-6	8°	.250	5596002		5596012		5596022	
MGTL-6	8°	.250	5596003		5596013		5596023	
MGTN-9	0°	.375	5599001		5599011		5599021	
MGTR-9	4°	.375	5599002		5599012		5599022	
MGTL-9	4°	.375	5599003		5599013		5599023	

N = Neutral R = Right Hand L = Left Hand

CUT-OFF SETS

SERIES 559:



Includes: Tool Block, Adjustable Blade & 10 TiN Coated Inserts



Includes: Adjustable Blade & 10 TiN Coated Inserts

Set No. 3	Set No. 4	Set No. 5
Tool Blade 26-3 Tool Block 19-5 10 Inserts MGTN-3	Tool Blade 26-4 Tool Block 19-5 10 Inserts MGTN-4	Tool Blade 26-5 Tool Block 19-5 10 Inserts MGTN-5
Order No. 6895903	Order No. 6895904	Order No. 6895905
Price:	Price:	Price:

Description	Order No.	Price
26-2 Blade + 10 MGTN-2TN Inserts	6895722	
26-3 Blade + 10 MGTN-3TN Inserts	6895723	
32-4 Blade + 10 MGTN-4TN Inserts	6895734	
32-5 Blade + 10 MGTN-5TN Inserts	6895735	
32-6 Blade + 10 MGTN-6TN Inserts	6895736	

QUALITY INDEXABLE TOOLS



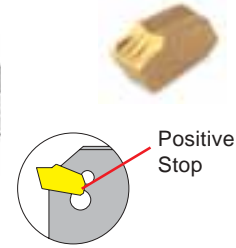
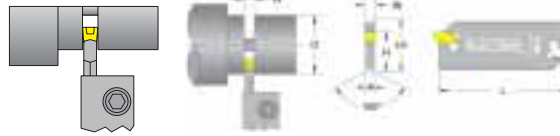
The Choice Is Yours!!!



CUT-OFF SYSTEM SERIES 915:



SGIH SLOT GRIP CUT-OFF BLADES FOR CUT-OFF SGTN INSERTS



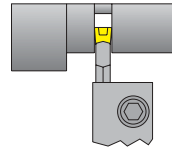
Description	Order No.	Price	Insert Use	W		D Max	A	L	H	H1
				Inches	Metric					
SGIH19-2	6162950		SGT(N/R/L)-2	.087	2	1.57"	.063	3.38	.618	0.75
SGIH26-2	6162951		SGT(N/R/L)-2	.087	2	2.0"	.063			
SGIH26-3	6162952		SGT(N/R/L)-3	.122	3	3.0"	.094			
SGIH26-4	6162953		SGT(N/R/L)-4	.161	4	3.15"	.125	4.33	.842	1.02
SGIH26-5	6162954		SGT(N/R/L)-5	.201	5	3.15"	.156			
SGIH26-6	6162955		SGT(N/R/L)-6	.252	6	3.15"	.203			
SGIH32-3	6162956		SGT(N/R/L)-3	.122	3	3.94"	.094			
SGIH32-4	6162957		SGT(N/R/L)-4	.161	4	3.94"	.125			
SGIH32-5	6162958		SGT(N/R/L)-5	.201	5	4.71"	.156	5.90	.984	1.25
SGIH32-6	6162959		SGT(N/R/L)-6	.252	6	4.72"	.203			
SGIH32-8	6162960		SGT(N/R/L)-8	.315	8	5.51"	.268			
SGIH32-9	6162961		SGT(N/R/L)-9	.138	9	5.51"	.312			

SLOT GRIP POSITIVE STOP BLADE

Improved blade design featuring a "Positive Stop". Inserts are securely held in Slot Grip Blades by a tapered locking system featuring a "Positive Stop" that prevents insert drift and the blade pocket from spreading once the insert is firmly in place.

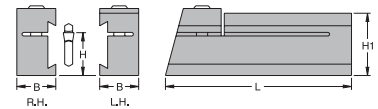
The inserts' cutting edge location repeats accurately and, as a result, prevents insert splitting under heavy feed and shock loads. The blade and insert geometry permits free chip flow, minimizing insert breakage due to chip build-up. Clearance angle ranges from 4° to 7°.

SGTBR R/L CUT-OFF TOOLHOLDERS

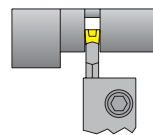


Right or Left Hand Toolholder
for Cut-Off SGIH Blades

Description	Order No.		Price	H	H1	B	L	Blade Used	Screw Used
	RH	LH							
SGTBR/L19-2	6162990	6162991		0.750	1.00	.750	4.00	SGIH 19-2	ASHCSFP-060-100-025-MA
SGTBR/L25, 4-6	6162992	6162993		1.000	1.25	.782	4.75	SGIH 26-2 THRU SGIH 26-6	ASHCSFP-060-100-030-MA

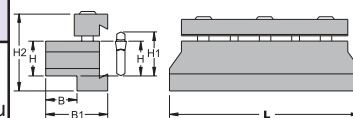


SGTBN NEUTRAL CUT-OFF TOOLHOLDERS



Neutral Hand Cut-Off Toolholder
for Cut-Off SGIH blades

Description	Order No.	Price	H	H1	H2	B	B1	L	Used Blade
SGTBN12,7-2	6162970		0.500	0.75	1.375	0.500	1.000	3.0	SGIH19-2
SGTBN16-2	6162971		0.625	0.75	1.375	0.625	1.000	3.0	
SGTBN16-5	6162972		0.625	1.02	1.750	0.625	1.250	3.5	SGIH26-2 thru
SGTBN19-5	6162973		0.750	1.02	2.000	0.750	1.375	3.5	SGIH26-6
SGTBN19-6	6162974		0.750	1.25	2.000	0.750	1.375	4.5	SGIH32-3
SGTBN25,4-6	6162975		1.000	1.25	2.125	0.875	1.500	4.5	thru
SGTBN31,8-6	6162976		1.250	1.25	2.375	1.125	1.750	4.5	SGIH32-9
SGTBN38,1-6	6162977		1.500	1.25	2.875	1.625	2.250	4.5	

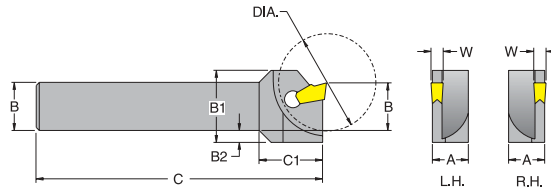




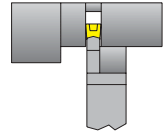
CUT-OFF SYSTEM SERIES 915:



SGTHN R/L CUT-OFF TOOLHOLDERS TOOLHOLDER FOR CUT-OFF SGTN INSERTS



Description	Order No.		Price	A	B	Max. Dia.	B1	B2	C1	C	W	Insert Used
	RH	LH										
SGTHR/L 9,5-2	6163000	6163001		.375	0.375	1.109	0.750	.187	0.703	3.375	.087 &	SGTN/ R/L-2-2,4
SGTHR/L 12,7-2	6163002	6163003		.391	0.500	1.172	0.828	.156	0.703	4.328	.093	
SGTHR/L 16-2	9163004	9163005		.391	0.625	1.172	0.750	-	0.703	4.328		SGTN/ R/L-3
SGTHR/L 19-2	9163006	9163007		.469	0.750	1.266	0.937	-	0.781	4.328		
SGTHR/L 9,5-3	9163008	6163009		.375	0.375	1.109	0.750	.187	0.703	3.375		SGTN/ R/L-4
SGTHR/L 12,7-3	9163010	6163011		.391	0.500	1.266	0.828	.234	0.828	4.328		
SGTHR/L 16-3	9163012	6163013		.469	0.625	1.266	0.937	.156	0.781	4.328	.120	SGTN/ R/L-3
SGTHR/L 19-3	9163014	6163015		.469	0.750	1.406	0.937	-	0.828	4.328		
SGTHR/L 25,4-3	9163016	6163017		.984	1.000	2.062	1.187	-	0.984	5.875		SGTN/ R/L-4
SGTHR/L 16-4	9163018	6163019		.469	0.625	1.328	0.937	.156	0.828	4.328		
SGTHR/L 19-4	9163020	6163021		.469	0.750	1.531	0.937	-	0.906	4.328	.160	SGTN/ R/L-4,8-5
SGTHR/L 25,4-4	9163022	6163023		.984	1.000	2.500	1.187	-	1.187	5.875		
SGTHR/L 19-5	9163024	9163025		.469	0.750	1.531	0.937	-	0.906	4.328	.187 &	SGTN/ R/L-4,8-5
SGTHR/L 25,4-5	6163026	6163027		.984	1.000	3.000	1.187	-	1.328	5.875	.200	

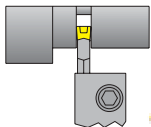


The square shank design of the Cut-Off toolholder ensures a precise center line of the insert with respect to the center of the working part, when the toolholder is mounted directly on the CNC turret.

Inserts are securely held in Slot Grip blades by a tapered locking system. No additional clamping devices are required. Slot Grip Cut-Off toolholders come in a broad selection of shank sizes.

SGT SLOT GRIP CUT-OFF AND GROOVING SETS POSITIVE STOP

Blade Set



Description	Order No.	Price	Max. Dia	Insert Width	Lgth	12 pc. Set Includes		(1)
						(1) Blade	(10) Inserts	
SGIH26-3S	6185360		3.0	.120	4.312	SGIH26-3	SGTN-3-DC656	Storage Box
SGIH32-3S	6185364		4.0	.120	5.875	SGIH32-3	SGTN-3-DC656	

Inserts are securely held in slot grip positive stop blades by a tapered locking system featuring a "Positive Stop" that prevents insert drift and the blade pocket from spreading once the insert is firmly in place.



NEUTRAL Cut-Off and Grooving Toolholder Set for SGIH blades.



Description	Order	Price	Shank	Insert	13 pc. Set Includes		(10) Inserts	(1)
					(1) Toolholder	(1) Blade		
SGTBN19-5S	6185326		.750	.120	SGTBN19-5	SGIH26-3	SGTN-3-DC-656	Storage Box
SGTBN25,4-6S	6185330		1.00	.120	SGTBN25,4-6	SGIH32-3	DC-656	

- Includes:**
- 1 Toolholder
 - 1 Blade
 - 10 Inserts



While we show only the most popular DORIAN items, we can supply their entire range of products; please inquire.

THE NEW FORCE IN HIGH PRODUCTION PARTING AND GROOVING

Valenite brings you the most advanced system available for parting, grooving, undercutting and profiling:

A total system, combining our flexible toolholder family with super-tough one and two-edge inserts

TOOLHOLDERS

Engineered for optimal performance in virtually every application.

- Expanded versatility with toolholders that accept VSG one-edge or VTG two-edge inserts
 - Designed to optimize all of your applications:
 - Parting blades
 - Deep-groove/parting toolholders
 - Turning/grooving boring bars
 - Face grooving and turning holders
 - High-production Connection Tooling System:
 - Wedge clamp anvil (VSG)
 - Screw clamp anvil (VTG)
- Compatible with our VM Connection Tools



INSERTS VSG

One-edge and VTG two-edge, advanced geometries, state-of-the-art coatings, unbeatable value...

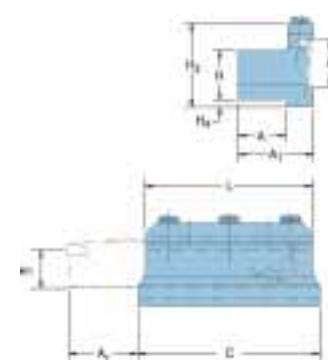
- Quick selection for every job: parting, grooving, turning, profiling, undercutting, face grooving
- New VTG two-edge inserts
- State-of-the-art coated grades engineered specifically for your application
- Expanded range of one-edge inserts
- Advanced top-form geometries for improved chip control

Grade	3 Digit	ANSI Class	ISO Class	Used In	Material	Application	Materials
VP5735	57G	C5,C6	P25-50, M25-40, S25-40	Groove	TiCN/Oxide/TiN MTCVD		Steel, Cast Iron
VP5820	58D	C2, C5,C6	P15-40, M15-35, K20-40, S20-35, N15-30	Groove	TiAlN/TiN PVD	Roughing to General Finishing	Steels, Stainless Steels, Irons, High Temp & Nonferrous Alloys
VPUK20	UKD	C2	M10-25, K10-30, N5-25, S10-20	M,T,G	Uncoated	Finish, Semi-finish, & General Roughing	Cast Irons, High Temp Alloys, Aluminum Alloys, and Non-ferrous

GROOVING - THREADING

VG TB TOOL BLOCKS

Insert No.	Ar	Dimensions in.									Order No.	Price
		A	A1	H	H1	H2	H4	C	L	B		
VG TB 10 16	1.57	0.63	1.30	0.63	0.62	1.34	0.16	3.15	2.76	0.75	4858321	
VG TB 12 21	1.38	0.73	1.46	0.75	0.84	1.79	0.43	3.15	2.76	1.02	4858322	
VG TB 16 21	3.15	1.03	1.70	1.00	0.84	1.75	0.2	4.72	4.32	1.02	4858323	
VG TB 16 25	2.36	0.98	1.71	1.00	0.98	1.79	0.43	4.72	4.33	1.26	4858324	
VG TB 20 25	2.36	1.23	1.96	1.25	0.98	2.15	0.21	4.72	4.33	1.26	4858326	
VG TB 24 25	2.36	1.48	2.21	1.50	0.98	2.40	0.20	4.72	4.33	1.26	4862415	



- Note:** 1. The blade height, H1 must match the H1 - dimension of the tool block.
 Example: **Blade** - VG101 16 15, **Tool block** VG TB 10 16
 2. Blade height refers to dimension H1 from the base of the blade to the insert cutting edge.

VG101 VSG

DOUBLE ENDED CUT OFF BLADES

VG101 blades are used with VG TB & V Cut tool blocks.

Insert No.	Ar	Seat Size	Dimensions in.					Order No.	Price
			W	A	B	C	H1		
VG101.16 15	0.750	15	0.059	0.047	0.750	3.38	0.620	4858171	
VG101.21 15	0.750	15	0.059	0.047	1.020	4.33	0.840	4858173	
VG101.25 15	1.250	15	0.059	0.047	1.250	5.90	0.980	4858178	
VG101.21 20	1.378	20	.073-.088	0.059	1.020	4.33	0.840	4858174	
VG101.16 20	1.500	20	.073-.088	0.059	0.750	3.38	0.620	4858172	
VG101.25 20	2.000	20	.073-.088	0.079	1.260	5.91	0.980	4856536	
VG101.21 25	1.378	25	.098-.133	0.079	1.020	4.33	0.840	4858175	
VG101.25 25	2.362	25	.098-.133	0.079	1.260	5.91	0.980	4858179	
VG101.21 30	1.378	30	.118-.163	0.093	1.020	4.33	0.840	4858176	
VG101.25 30	2.362	30	.118-.163	0.093	1.260	5.91	0.980	4858180	
VG101.21 40	1.378	40	.156-.203	0.132	1.020	4.33	0.840	4858177	
VG101.25 40	2.362	40	.156-.203	0.132	1.260	5.91	0.980	4858181	
VG101.25 50	2.362	50	.197-.250	0.171	1.260	5.91	0.980	4858182	
VG101.25 60	2.362	60	.236-.315	0.211	1.260	5.91	0/980	4858183	

Insert key must be ordered separately

Double Ended Parting Blades (VG TB tool block required)

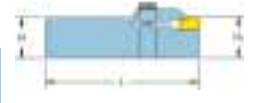
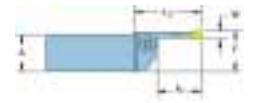
- Ideal for parting off bars and tubes.
- Economical system for many applications.



VG109 TOOLHOLDERS

Double Grooving and Parting Toolholder

Insert No.	Ar	Seat Size	Dimensions in. (mm)							Order No.		Price
			W	A	F	H	H1	L	L2	RH	LH	
VG109 R/L 08 20	0.590	20	.073-.088	0.500	0.750	0.500	0.500	4.50	1.319	4858443	4858429	
VG109 R/L 10 20	0.590	20	.073-.088	0.625	0.875	0.625	0.625	4.50	1.319	4858445	4858431	
VG109 R/L 08 25	0.790	25	.098-.133	0.500	0.750	0.500	0.500	4.50	1.575	4858444	4858430	
VG109 R/L 10 25	0.790	25	.098-.133	0.625	0.875	0.625	0.625	4.50	1.575	4858446	4862416	
VG109 R/L 12 25	0.790	25	.098-.133	0.750	1.000	0.750	0.750	5.00	1.575	4858447	4858433	
VG109 R/L 12 30	0.790	30	.118-.163	0.750	1.000	0.750	0.750	5.00	1.614	4858448	4858434	
VG109 R/L 16 30	0.790	30	.118-.163	1.000	1.250	1.000	1.000	6.00	1.614	4858450	4858436	
VG109 R/L 12 40	0.980	40	.156-.203	0.750	1.000	0.750	0.750	5.00	1.850	4858449	4858435	
VG109 R/L 16 40	0.980	40	.156-.203	1.000	1.250	1.000	1.000	6.00	1.850	4858451	4858437	
VG109 R/L 20 40	0.980	40	.156-.203	1.250	1.500	1.250	1.250	6.00	1.850	4858454	4858440	
VG109 R/L 16 50	1.260	50	.197-.250	1.000	1.250	1.000	1.000	6.00	2.244	4858452	4858438	
VG109 R/L 16 60	1.260	60	.236-.315	1.000	1.250	1.000	1.000	6.00	2.283	4858453	4858439	
VG109 R/L 20 60	1.260	60	.236-.315	1.250	1.500	1.250	1.250	6.00	2.283	4858455	4858441	
VG109 R/L 24 80	1.500	80	.315-.394	1.450	1.500	1.500	1.500	8.75	2.760	4858456	4858442	



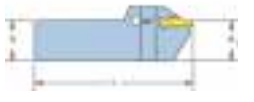
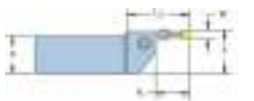
- Excellent for deep grooving operations.
- Screw clamp for secure insert seating and lower vibration.



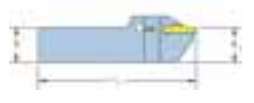
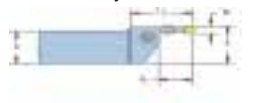
VG110 TOOLHOLDERS

VTG System Grooving and Turning Toolholders

Insert No.	Ar	Seat Size	Dimensions in. (mm)							Order No.		Price
			W	A	F	H	H1	L	L2	RH	LH	
VG110 R/L 08 20	0.320	20	0.079	0.500	0.512	0.500	0.500	4.50	1.004	4858408	4858387	
VG110 R/L 10 20	0.320	20	0.079	0.625	0.669	0.625	0.625	4.50	1.004	4858409	4858388	
VG110 R/L 12 20	0.320	20	0.079	0.750	0.827	0.750	0.750	4.50	1.004	4858411	4858390	
VG110 R/L 16 20	0.320	20	0.079	1.000	1.028	1.000	1.000	5.00	1.004	4858415	4858394	
VG110 R/L 10 25	0.400	25	.098-.118	0.625	0.669	0.625	0.625	4.50	1.004	4858410	4858389	
VG110 R/L 12 25	0.400	25	.098-.118	0.750	0.827	0.750	0.750	4.50	1.142	4858412	4858391	
VG110 R/L 16 25	0.400	25	.098-.118	1.000	1.024	1.000	1.000	5.00	1.142	4858416	4858395	
VG110 R/L 20 25	0.400	25	.098-.118	1.250	1.299	1.250	1.250	6.00	1.142	4858422	4858401	
VG110 R/L 12 30	0.400	30	.118-.125	0.750	0.827	0.750	0.750	4.50	1.181	4858413	4858392	
VG110 R/L 16 30	0.400	30	.118-.125	1.000	1.024	1.000	1.000	5.00	1.181	4858417	4858396	
VG110 R/L 20 30	0.400	30	.118-.125	1.250	1.299	1.250	1.250	6.00	1.181	4858423	4858402	
VG110 R/L 12 40	0.510	40	.157-.187	0.750	0.827	0.750	0.750	4.50	1.338	4858414	4858393	
VG110 R/L 16 40	0.510	40	.157-.187	1.000	1.024	1.000	1.000	5.00	1.338	4858418	4858397	
VG110 R/L 20 40	0.510	40	.157-.187	1.250	1.299	1.250	1.250	6.00	1.338	4858424	4858403	
VG110 R/L 16 50	0.510	50	.197-.236	1.000	1.024	1.000	1.000	5.00	1.338	4858419	4858398	
VG110 R/L 20 50	0.510	50	.197-.236	1.250	1.299	1.250	1.250	6.00	1.338	4858425	4858404	
VG110 R/L 24 50	0.510	50	.197-.236	1.500	1.614	1.500	1.500	8.00	1.338	4858427	4858406	
VG110 R/L 16 60	0.630	60	.236-.250	1.000	1.024	1.000	1.000	5.00	1.535	4858420	4858399	
VG110 R/L 20 60	0.630	60	.236-.250	1.250	1.299	1.250	1.250	6.00	1.535	4858426	4858405	
VG110 R/L 24 60	0.630	60	.236-.250	1.500	1.614	1.500	1.500	8.00	1.535	4858428	4858407	
VG110 R/L 16 80	0.630	80	0.315	1.000	1.028	1.000	1.000	6.00	1.614	4858421	4858400	



- Insert clamping designed to resist axial forces when turning
- Increased speed/feed without encountering vibration problems
- Uses two edge inserts for economy.



VSG-GG ONE EDGE INSERTS

First Choice for Parting and Grooving Operations

Insert No.	Seat Size			0	Grades / Order No.				
		W* in (mm)	R in (mm)		VP5820	VP5735	Price	VPUK20	Price
VSG 2.5 N 25 GG	25	0.103 (2.625)	0.012 (0.30)	0°	4802697	4802663		4802731	
VSG 3.0 N 30 GG	30	0.123 (3.125)	0.012 (0.30)	0°	4802701	4802667		4802735	
VSG 3.0 L5 30 GG	30	0.123 (3.125)	0.012 (0.30)	5°	4802699	4802665		4802733	
VSG 3.0 R5 30 GG	30	0.123 (3.125)	0.012 (0.30)	5°	4802703	4802669		4802737	
VSG 4.0 N 40 GG	40	0.162 (4.125)	0.016 (0.40)	0°	4802711	4802677		4802744	
VSG 4.0 L540 GG	40	0.162 (4.125)	0.012 (0.30)	5°	4812835	4812808		4812863	
VSG 4.0 R5 40 GG	40	0.162 (4.125)	0.012 (0.30)	5°	4802713	4802679		4802746	
VSG 4.7 N 40 GG	40	0.189* (4.800)	0.012 (0.30)	0°	4802714	4802680		4802747	
VSG 4.7 R5 40 GG	40	0.189* (4.800)	0.012 (0.30)	5°	4802715	4802681		4802748	
VSG 5.0 N 50 GG	50	0.202 (5.125)	0.015 (0.38)	0°	4802718	4802684		4802751	
VSG 5.0 L5 50 GG	50	0.202 (5.125)	0.012 (0.30)	5°	4812840	4812811		4812866	
VSG 5.0 R5 50 GG	50	0.202 (5.125)	0.012 (0.30)	5°	4812842	4812813		4812868	
VSG 6.0 N 60 GG	60	0.241 (6.125)	0.015 (0.38)	0°	4802723	4802688		4802754	
VSG 6.0 L5 60 GG	60	0.241 (6.125)	0.012 (0.30)	5°	4802721	4802686		4802752	
VSG 6.0 R5 60 GG	60	0.241 (6.125)	0.012 (0.30)	5°	4812847	4812816		4812871	
VSG 8.0 N 80 GG	80	0.320 (8.100)	0.024 (0.60)	0°	4802727	4802692		4802758	

- Strong geometry ideal for interrupted cuts
- For parting off and grooving of steel and cast irons



Width Tolerance: ± 0.005" (±0.125mm), Radius Tolerance ± 0.004" (±0.1mm) = ±0.004" (±0.10mm)

VSG LG ONE EDGE INSERTS
Light Grooving / Cut Off

Optimized for Lower Radial Feed Rates

Insert No.	Seat Size	Dimensions in. (mm)		0	Grades / Order No.				
		W* in (mm)	R in (mm)		VP5735	VP5820	Price	VPUK20	Price
VSG 1.5 N 15 LG	15	0.063* (1.570)	0.008 (0.20)	0°	4814668	4814669		4814670	
VSG 2.0 N 20 LG	20	0.083 (2.125)	0.008 (0.20)	0°	4814672	4814673		4814674	
VSG 3.0 N 30 LG	30	0.123 (3.125)	0.012 (0.30)	0°	4802668	4802702		4802736	
VSG 3.0 L8 30 LG	30	0.123 (3.125)	-	8°	4812804	4812829		4812859	
VSG 3.0 R8 30 LG	30	0.123 (3.125)	-	8°	4802670	4802704		4802738	
VSG 3.0 L15 30 LG	30	0.123 (3.125)	-	15°	4812803	4812828		4812858	
VSG 3.0 R15 30 LG	30	0.123 (3.125)	-	15°	4812806	4812831		4812861	
VSG 4.0 N 40 LG	40	0.162 (4.125)	0.012 (0.30)	0°	4802678	4802712		4802745	
VSG 4.0 L15 40 LG	40	0.162 (4.125)	-	15°	4812807	4812834		4812862	
VSG 4.0 R15 40 LG	40	0.162 (4.125)	0.012 (0.30)	15°	4812809	4812836		4812864	



- Generates lower cutting forces resulting in reduced vibration
- For stainless steels, ductile and work hardening materials

Width Tolerance: ± 0.004" (±0.1mm), Radius Tolerance ± 0.004" (±0.1mm) ±0.003" (±0.076mm)

VTG GG TWO EDGE INSERTS
General Grooving / Cut Off

First Choice for Parting and Grooving Operations on ALL Materials

Insert No.	Seat Size	Dimensions in. (mm)			0	Grades / Order No.		
		W in (mm)	R in (mm)	Ar in (mm)		VP5735	VP5820	Price
VTG 2.0 N 20 GG	20	0.081 (2.05)	0.008 (0.20)	0.748 (19.0)	0°	4802759	4802777	
VTG 2.0 L5 20 GG	20	0.081 (2.05)	0.008 (0.20)	0.748 (19.0)	5°	-	4802776	
VTG 2.0 R5 20 GG	20	0.081 (2.05)	0.008 (0.20)	0.748 (19.0)	5°	-	4802778	
VTG 2.5 N 25 GG	25	0.100 (2.55)	0.008 (0.20)	0.744 (18.9)	0°	4802761	4802780	
VTG 2.5 L5 25 GG	25	0.100 (2.55)	0.008 (0.20)	0.744 (18.9)	5°	-	4802779	
VTG 2.5 R5 25 GG	25	0.100 (2.55)	0.008 (0.20)	0.744 (18.9)	5°	-	4802781	
VTG 3.0 N 30 GG	30	0.120 (3.05)	0.008 (0.20)	0.744 (18.9)	0°	4802763	4802783	
VTG 3.0 L5 30 GG	30	0.120 (3.05)	0.008 (0.20)	0.740 (18.8)	5°	4802762	4802782	
VTG 3.0 R5 30 GG	30	0.120 (3.05)	0.008 (0.20)	0.740 (18.8)	5°	4802765	4802785	
VTG 4.0 N 40 GG	40	0.159 (4.05)	0.008 (0.20)	0.949 (24.1)	0°	4802767	4802787	
VTG 4.0 L5 40 GG	40	0.159 (4.05)	0.008 (0.20)	0.949 (24.1)	5°	4812766	4812786	
VTG 4.0 R5 40 GG	40	0.159 (4.05)	0.008 (0.20)	0.949 (24.1)	5°	4812769	4812789	
VTG 5.0 N 50 GG	50	0.199 (5.05)	0.008 (0.20)	0.949 (24.1)	0°	4802770	4802790	
VTG 6.0 L5 60 GG	60	0.238 (6.05)	0.016 (0.40)	0.925 (23.5)	0°	4802772	4802792	



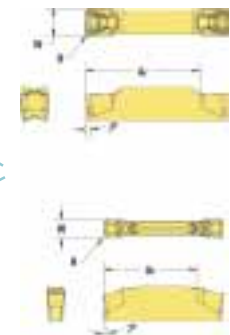
- Positive geometry eliminates risk of edge build-up - good for stainless steel
- Lower cutting forces resulting in reduced vibration
- Recommended for thin walled tubes and small diameters

*Width Tolerance: ± 0.002" (±0.05mm), Radius Tolerance ± 0.004" (±0.1mm)

VTG TG TWO EDGE INSERTS
Turn Grooving

Excellent Choice for General Plunge Turning

Insert No.	Seat Size	Dimensions in. (mm)			0	Grades / Order No.		
		W in (mm)	R in (mm)	Ar in (mm)		VP5735	VP5820	Price
VTG 3.0 N 20 TG	30	0.021 (3.05)	0.016 (0.40)	0.724 (18.4)	0°	4802764	4802784	
VTG 4.0 L5 20 TG	40	0.159 (4.05)	0.031 (0.80)	0.921 (23.4)	0°	4802768	4802788	
VTG 5.0 R5 20 TG	50	0.199 (5.05)	0.031 (0.80)	0.906 (23.0)	0°	4802771	4802791	
VTG 6.0 N 25 TG	60	0.238 (6.05)	0.031 (0.80)	0.906 (23.0)	0°	4802773	4802793	
VTG 8.0 L5 25 TG	80	0.317 (8.05)	0.047 (1.20)	1.090 (27.60)	0°	4802774	4802794	



- Medium feed rate capability with good chip control
- Positive geometry minimizes edge build up
- Recommended on steels and stainless steels



While we show only the most popular VALENITE items we can supply their entire range of products; please inquire.