

SGM/VGS Tooling & Accessories

VSC Standard Valve Seat Cutters

Part No.	Angles Degrees Top-Seat-Throat	Seat Width (mm) in.	Engines	Profile No.	Part No.	Angles Degrees Top-Seat-Throat	Seat Width (mm) in.	Engines	Profile No.
VSC-15	15 only			13	VSC3-04045	38-45-65	1,0 .040	High Performance	5
VSC-20	20 only		John Deere	14	VSC3-06045	38-45-65	1,5 .060	USA High Performance	5
VSC-30	30 only			15	VSC3-08045	38-45-65	2,0 .080	Alfa Romeo, Fiat, Ford Europe, Jaguar, Mercedes, Peugeot, Plymouth, Porsche, Renault, Rover, Saab, Volvo	5
VSC-45	45 only			17					
VSC-60	60 only			18					
VSC-75	75 only			19					
VSC-375	37.5 only		6.9 International Harvester	16	VSC4-04045	15-45-60	1,0 .040	High Performance	6
VSC-390	Flat Bottom		Flush Cutting Insert Seats	20	VSC4-06045	15-45-60	1,5 .060	Chrysler, Dodge, Plymouth	6
VSC-511	Chamfer Relief		.25 in. (6,35 mm) Radius	21	VSC4-08045	15-45-60	2,0 .080	Chrysler, Dodge	6
VSC-512	Chamfer Relief		.875 in. (22,22 mm) Radius	22	VSC5-04045	30-45-75	1,0 .040	High Performance	7
VSC-518	Chamfer Relief		.188 in. (4,77 mm) Radius	32	VSC5-06045	30-45-75	1,5 .060	Pontiac, Nissan	7
VSC-523	Chamfer Relief		.236 in. (5,99 mm) Radius	33	VSC5-08045	30-45-75	2,0 .080	Volkswagen	7
VSC-527	Chamfer Relief		.344 in. (8,73 mm) Radius	34	VSC5-09045	30-45-75	2,4 .090	Volkswagen	7
VSC-575	Chamfer Relief		75 degree bowl cutter assembly	35	VSC6-04045	20-45-75	1,0 .040	Pontiac	8
VSC-532	25-37.5-75	1,5 .060	6.9 International Harvester	31	VSC6-06045	20-45-75	1,5 .060	Pontiac	8
VSC-04030	15-30-60	1,0 .040	High Performance	1	VSC6-08045	20-45-75	2,0 .080	Pontiac	8
VSC-06030	15-30-60	1,5 .060	High Performance	1	VSC7-04030	23-30-52	1,0 .040	High Performance, Pont.	9
VSC-08030	15-30-60	2,0 .080	High Performance	1	VSC7-06030	23-30-52	1,5 .060	Ford, GMC, Plym., Pont., Renault	9
VSC-04045	30-45-60	1,0 .040	USA High Performance	2	VSC7-08030	23-30-52	2,0 .080	AMC, Chevrolet, Ford, Plym., Pont.	9
VSC-06045	30-45-60	1,5 .060	AMC, Austin, BMW, Chevrolet, Ford, Mercedes, Mitsubishi, Nissan, Volvo	2					
VSC-08045	30-45-60	2,0 .080	High Performance	2	VSC8-04045	35-45-75	1,0 .040	Motorcycle & High Performance (#4043B)	10
VSC1-04045	25-45-60	1,0 .040	Chevrolet, Ford, Ford Diesel, GMC, Mercedes	3	VSC8-06045	35-45-75	1,5 .060	Motorcycle & High Performance (Large Carbide, 12 mmR)	10
VSC1-06045	25-45-60	1,5 .060	High Performance	3	VSC9-04045	40-45	1,0 .040	Motorcycle & High Performance (#4047B)	11
VSC1-08045	25-45-60	2,0 .080	High Performance	3		12 mm Radius			
VSC2-04045	38-45-52	1,0 .040	USA High Performance	4	VSC9-06045	40-45	1,5 .060	Motorcycle & High Performance (Large Carbide, 12 mmR)	11
VSC2-06045	38-45-52	1,5 .060	High Performance	4		12 mm Radius			
VSC2-08045	38-45-52	2,0 .080	High Performance	4	VSC10-04045	40-45-70	1,0 .040	Motorcycle & High Performance (#4048B)	12
VSC-513	38-45-52	1,0 .040	USA High Performance	23		12 mm Radius			
	Longer throat length				VSC10-06045	40-45-70	1,5 .060	Motorcycle & High Performance	12
VSC-514	38-45-52	1,5 .060	USA High Performance	24					
	Longer throat length								
VSC-515	38-45-52	2,0 .080	USA High Performance	25					
	Longer throat length								

NOTE: Cutters shown are offered as a suggested starting point. Select cutters according to manufacturer recommendations. Use pages 18-24 for ordering.

VSC Form Tools



VSC-511

used for chamfer relief, cuts with a .25" (6,35 mm) radius.



VSC-512

used for throat alterations, cuts with a .875" (22,22 mm) radius.



VSC-518

used for chamfer relief, cuts with a .188" (4,77 mm) radius.



VSC-523

used for chamfer relief, cuts with a .236" (5,99 mm) radius.



VSC-527

used for chamfer relief, cuts with a .344" (8,73 mm) radius.



VSC-575

75 degree bowl cutter assembly.



VSC-K68B Cutter Blank

The VSC-K68B is a blank cutter for the VSC system. This cutter consists of an unground carbide tip silver-soldered on a cutter blank. The blank cutter can then be ground by the user to any desired angles or specifications. Great for high performance shops that use non-standard valve seat configurations.



VSC-RB Radius Cutter Blank

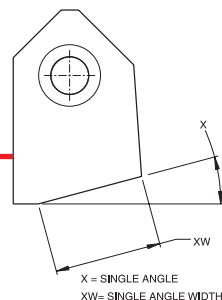
Similar to the VSC-K68B but supplied with a .5" (12,7 mm) wide carbide tip. This allows the user to grind a radius suitable to individual requirements.

Special Profile VSC Cutters

Special profile VSC cutters are available on a special order basis. These special profile cutters will be made from a blank cutter ground to your specifications. When ordering, send full description with all specifications.

SGM/VGS Tooling & Accessories

Cutter Inserts - Single Angle



Part Number	Single Angle X	Single Angle Width XW		VSC Number	SERDI Number	NEWEN Number
		mm	in.			
VSI-A14200	5	9,80	0.39	N/A	N/A	WA1-NWN5
VSI-A14300	15	8,50	0.33	VSC-15	15-A1	WA1-NWN15
VSI-A14400	20	8,20	0.32	VSC-20	20-A1	WA1-NWN20
VSI-A14500	25	8,50	0.33	N/A	N/A	WA1-NWN25
VSI-A14600	30	9,00	0.35	VSC-30	30-A1	WA1-NWN30
VSI-A14700	31	8,70	0.34	N/A	N/A	WA1-NWN31
VSI-A14800	37	9,30	0.37	N/A	N/A	WA1-NWN37
VSI-A22300	37.5	9,75	0.38	VSC-375	N/A	N/A
VSI-A22900	38	9,75	0.38	XVSC-38	N/A	N/A
VSI-A23000	39	9,75	0.38	XVSC-39	N/A	N/A
VSI-A14900	45	8,90	0.35	VSC-45	45-A1	WA1-NWN45
VSI-A16000	45.2	8,00	0.31	N/A	45.15-A1	N/A
VSI-A15000	60	8,10	0.32	VSC-60	60-A1	WA1-NWN60
VSI-A15100	70	7,70	0.30	N/A	N/A	WA1-NWN70
VSI-A15200	75	7,00	0.28	VSC-75	N/A	WA1-NWN75
VSI-A15300	78	7,30	0.29	N/A	N/A	WA1-NWN78
VSI-A15400	82	7,07	0.28	N/A	N/A	WA1-NWN82
VSI-A23700	55	8,50	0.33	N/A	N/A	N/A

Inserts for Serdi/Newen Tooling may be ordered by placing an "S" after the Sunnen part number.

Example: VSI-A07840 • VSI-A07840S
(Sunnen) (Serdi/Newen)

Special Angle

Special bowl cutters from 70-89° are available on a special order basis. Call for pricing and delivery.

Bowl Hog Cutters SGM-1075



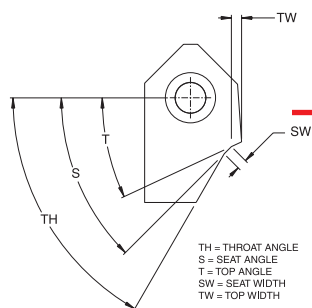
Used with Sunnen's SGM Cutter Heads to enlarge the bowl area below the valve seat for increased air flow or installation of larger diameter valves. The single-blade, 75° cutter features a .38 in. (9,65 mm) radius at the bottom to blend machined areas and provide a chatter free finish. Cutter easily adjusts to a wide range of diameters eliminating the need for multiple fixed diameter cutters.

SGM-1082



A single-blade, 82° cutter to enlarge bowl area.

Used with Sunnen's SGM Cutter Heads to enlarge the bowl area below the valve seat for increased air flow or installation of larger diameter valves. The single-blade, 82° cutter features a .38 in. (9,65 mm) radius at the bottom to blend machined areas and provide a chatter free finish. Cutter easily adjusts to a wide range of diameters eliminating the need for multiple fixed diameter cutters.



SGM/VGS Tooling & Accessories

Cutter Inserts – Three Angle

Inserts for Serdi/Newen Tooling may be ordered by placing an “S” after the Sunnen part number.

Example: VSI-A07840 • VSI-A07840S
(Sunnen) (Serdi/Newen)

SUNNEN Part Number	Top T	Angle Seat S	Throat TH	Width				Minimum Diameter		VSC Number	SERDI Number	NEWEN Number
				Seat SW		Top TW						
				mm	in.	mm	in.	mm	in.			
VSI-A20050	15	30	60	1,00	0.039	2,50	0.098	24,39	0.960	VSC-04030	10K30U60	N/A
VSI-A01332	20	30	52	1,00	0.039	1,60	0.063	25,39	1.000	N/A	10H30D52-A1	WA1-NWN3062
VSI-A22028	23	30	52	1,00	0.039	1,40	0.055	25,39	1.000	VSC7-04030	N/A	N/A
VSI-A00820	15	30	45	1,30	0.051	1,00	0.039	25,39	1.000	N/A	13E30U45-A1	WA1-NWN3023
VSI-A01240	15	30	60	1,30	0.051	2,00	0.079	25,39	1.000	N/A	13K30U60-A1	WA1-NWN3061
VSI-A01540	15	30	45	1,30	0.051	2,00	0.079	25,39	1.000	N/A	13K30U45-A1	WA1-NWN3065
VSI-A00128	15	30	60	1,50	0.059	1,40	0.055	25,39	1.000	N/A	15G30U60-A1	WA1-NWN2152
VSI-A00236	15	30	60	1,50	0.059	1,80	0.071	25,39	1.000	N/A	15J30U60-A1	WA1-NWN2153
VSI-A00736	15	30	52	1,50	0.059	1,80	0.071	25,39	1.000	N/A	15J30U52-A1	WA1-NWN3016
VSI-A01436	15	30	45	1,50	0.059	1,80	0.071	25,39	1.000	N/A	15J30U45-A1	WA1-NWN3064
VSI-A01728	15	30	45	1,50	0.059	1,40	0.055	25,39	1.000	N/A	15G30U45-A1	WA1-NWN3068
VSI-A02740	15	30	60	1,50	0.059	2,00	0.079	25,39	1.000	VSC-06030	15K30U60-A1	WA1-NWN3200
VSI-A22128	23	30	52	1,50	0.059	1,40	0.055	25,39	1.000	VSC7-06030	N/A	N/A
VSI-A01640	15	30	60	1,60	0.063	2,00	0.079	25,39	1.000	N/A	16K30U60-A1	WA1-NWN3067
VSI-A01924	15	30	45	1,60	0.063	1,20	0.047	25,39	1.000	N/A	16F30U45-A1	WA1-NWN3078
VSI-A02236	15	30	45	1,60	0.063	1,80	0.071	25,39	1.000	N/A	16J30U45-A1	WA1-NWN3194
VSI-A02336	15	30	52	1,60	0.063	1,80	0.071	25,39	1.000	N/A	16J30U52-A1	WA1-NWN3195
VSI-A02944	15	30	60	1,60	0.063	2,20	0.087	24,99	0.984	N/A	16L30U60-A1	N/A
VSI-A01028	15	30	60	1,80	0.071	1,40	0.055	25,39	1.000	N/A	18G30U60-A1	WA1-NWN3027
VSI-A02140	15	30	45	1,80	0.071	2,00	0.079	25,39	1.000	N/A	18K30U45-A1	WA1-NWN3146
VSI-A00636	15	30	60	1,90	0.075	1,80	0.071	25,39	1.000	N/A	19J30U60-A1	WA1-NWN3010
VSI-A01140	15	30	60	1,90	0.075	2,00	0.079	25,39	1.000	N/A	19K30U60-A1	WA1-NWN3029
VSI-A01820	15	30	45	1,90	0.075	1,00	0.039	25,39	1.000	N/A	19E30U45-A1	WAI -NWN3072
VSI-A00328	15	30	60	2,00	0.079	1,40	0.055	25,39	1.000	N/A	20G30U60-A1	WAI -NWN2202
VSI-A00940	15	30	45	2,00	0.079	1,60	0.063	25,39	1.000	N/A	16K30U45-A1	WAI -NWN3026
VSI-A02040	15	30	45	2,00	0.079	2,00	0.079	25,39	1.000	N/A	20K30U45-A1	WAI -NWN3084
VSI-A02424	15	30	45	2,00	0.079	1,20	0.047	25,39	1.000	N/A	20F30U45-A1	WAI -NWN3196
VSI-A20138	15	30	60	2,00	0.079	1,90	0.075	25,39	1.000	VSC-08030	20K30U45	N/A
VSI-A22228	23	30	52	2,00	0.079	1,40	0.055	25,39	1.000	VSC7-08030	N/A	N/A
VSI-A02540	15	30	60	2,20	0.087	2,00	0.079	25,39	1.000	N/A	22K30U60-A1	WA1-NWN3198
VSI-A00428	15	30	60	2,50	0.098	1,40	0.055	25,39	1.000	N/A	25G30U60-A1	WA1-NWN2252
VSI-A00528	15	30	60	3,00	0.118	1,40	0.055	25,39	1.000	N/A	30G30U60-A1	WA1-NWN2302
VSI-A02660	20	30	45	3,80	0.150	3,00	0.118	23,39	0.921	N/A	38Q30D45-A1	WA1-NWN3199
VSI-A03030	2	30.5	75	1,50	0.059	1,50	0.059	25,39	1.000	N/A	N/A	WA1-NWN5364
VSI-A03328	15	31	60	1,20	0.047	1,40	0.055	25,39	1.000	N/A	12G31U60-A1	WA1-NWN5362
VSI-A03228	11	31	60	1,50	0.059	1,40	0.055	25,39	1.000	N/A	15G31B60-A1	WA1-NWN5280
VSI-A03440	2	31	60	2,10	0.083	2,00	0.079	25,39	1.000	N/A	21K31S60-A1	WA1-NWN5363
VSI-A22828	25	37.5	75	1,50	0.059	1,40	0.055	25,39	1.000	VSC-532	N/A	N/A
VSI-A03728	30	37.5	60	1,60	0.063	1,40	0.055	25,39	1.000	N/A	16G37.5X60-A1	WA1-NWN5414
VSI-A03840	30	37.5	60	1,60	0.063	2,00	0.079	25,39	1.000	N/A	16K37.5X60-A	WA1-NWN5415
VSI-A23340	25	45.15	52	1,60	0.063	2,00	0.079	25,39	1.000	N/A	16K45.15V52-A1	N/A
VSI-A23436	25	45.15	52	2,30	0.091	1,80	0.071	25,39	1.000	N/A	23,45.15V52-A1	N/A
VSI-A23829	15	45.15	60	2,00	0.079	1,45	0.057	25,29	0.996	N/A	352001-A1	N/A

SGM/VGS Tooling & Accessories

Cutter Inserts – Three Angle

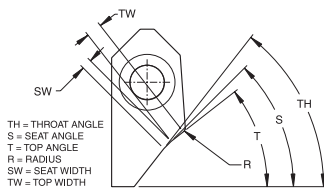
SUNNEN Part Number	Top T	Angle Seat S	Throat TH	Width				Minimum Diameter		VSC Number	SERDI Number	NEWEN Number
				Seat SW		Top TW						
				mm	in.	mm	in.	mm	in.			
VSI-A03524	20	37.5	52	1,80	0.071	1,20	0.047	25,39	1.000	N/A	18F37.5D52-A1	WA1-NWN5006
VSI-A03928	30	37.5	60	1,90	0.075	1,40	0.055	25,39	1.000	N/A	19G37.5X60-A1	WA1-NWN5416
VSI-A04040	30	37.5	60	2,00	0.079	2,00	0.079	25,39	1.000	N/A	20K37.5X60-A1	WA1-NWN5417
VSI-A04112	18	37.5	52	2,10	0.083	0,60	0.024	25,39	1.000	N/A	21G37.5C52-A1	WA1-NWN5418
VSI-A08020	32	45	60	0,80	0.031	1,00	0.039	25,39	1.000	N/A	N/A	WA1-NWN4183
VSI-A21128	15	45	60	1,00	0.039	1,40	0.055	25,39	1.000	VSC4-04045	N/A	N/A
VSI-A21736	20	45	75	1,00	0.039	1,80	0.071	25,39	1.000	VSC6-04045	N/A	N/A
VSI-A04220	25	45	60	1,00	0.039	1,00	0.039	25,39	1.000	N/A	10E45V60-A1	WA1-NWN1101
VSI-A04328	25	45	60	1,00	0.039	1,40	0.055	25,39	1.000	N/A	10G45V60-A1	WA1-NWN1102
VSI-A04436	25	45	60	1,00	0.039	1,80	0.071	25,39	1.000	N/A	10J45V60-A1	WA1-NWN1103
VSI-A04560	25	45	60	1,00	0.039	3,00	0.118	23,39	0.921	N/A	10Q45V60-A1	WA1-NWN1105
VSI-A20228	25	45	60	1,00	0.039	1,40	0.055	25,39	1.000	VSC1-04045	N/A	N/A
VSI-A05424	30	45	60	1,00	0.039	1,20	0.047	25,39	1.000	N/A	10F45X60-A1	WA1-NWN4028
VSI-A07136	30	45	60	1,00	0.039	1,80	0.071	25,39	1.000	N/A	10J45X60-A1	WA1-NWN4090
VSI-A09040	30	45	60	1,00	0.039	2,00	0.079	25,39	1.000	VSC-04045	10K45X60-A1	WA1-NWN4303
VSI-A21426	30	45	75	1,00	0.039	1,30	0.051	25,39	1.000	VSC5-04045	10H45X75	N/A
VSI-A05532	35	45	52	1,00	0.039	1,60	0.063	25,39	1.000	N/A	10H45F52-A1	WA1-NWN4029
VSI-A05632	35	45	55	1,00	0.039	1,60	0.063	25,39	1.000	N/A	10H45F55-A1	WA1-NWN4030
VSI-A05732	35	45	60	1,00	0.039	1,60	0.063	25,39	1.000	N/A	10H45F60-A1	WA1-NWN4031
VSI-A20524	38	45	52	1,00	0.039	1,20	0.047	25,39	1.000	VSC2-04045	N/A	N/A
VSI-A20832	38	45	65	1,00	0.039	1,60	0.063	25,39	1.000	VSC3-04045	N/A	N/A
VSI-A07924	30	45	60	1,20	0.047	1,20	0.047	25,39	1.000	N/A	12F45X60-A1	WA1-NWN4182
VSI-A05820	30	45	60	1,30	0.051	1,00	0.039	25,39	1.000	N/A	13E45X60-A1	WA1-NWN4032
VSI-A06040	30	45	52	1,30	0.051	2,00	0.079	25,39	1.000	N/A	13K45X52-A1	WA1-NWN4034
VSI-A06140	30	45	60	1,30	0.051	2,00	0.079	25,39	1.000	N/A	13K45X60-A1	WA1-NWN4035
VSI-A08224	30	45	60	1,30	0.051	1,20	0.047	25,39	1.000	N/A	13F45X60-A1	WA1-NWN4221
VSI-A09932	30	45	60	1,30	0.051	1,60	0.063	25,39	1.000	N/A	13H45X60-A1	WA1-NWN4480
VSI-A05940	37	45	52	1,30	0.051	2,00	0.079	25,39	1.000	N/A	13K45G52-A1	WA1-NWN4033
VSI-A06220	30	45	60	1,40	0.055	1,00	0.039	25,39	1.000	N/A	14E45X60-A1	WA1-NWN4036
VSI-A07240	30	45	60	1,40	0.055	2,00	0.079	25,39	1.000	N/A	41065-A1	WA1-NWN4093
VSI-A05240	15	45	60	1,50	0.059	2,00	0.079	25,39	1.000	N/A	15K45U60-A1	WA1-NWN4015
VSI-A05336	15	45	60	1,50	0.059	1,80	0.071	25,39	1.000	N/A	15J45U60-A1	WA1-NWN4025
VSI-A21228	15	45	60	1,50	0.059	1,40	0.055	25,39	1.000	VSC4-06045	N/A	N/A
VSI-A21828	20	45	75	1,50	0.059	1,40	0.055	25,39	1.000	VSC6-06045	N/A	N/A
VSI-A02828	25	45	60	1,50	0.059	1,40	0.055	25,39	1.000	N/A	15G30U60-A1	WA1-NWN4003
VSI-A08428	25	45	52	1,50	0.059	1,40	0.055	25,39	1.000	N/A	15G45V52-A1	WA1-NWN4241
VSI-A20328	25	45	60	1,50	0.059	1,40	0.055	25,39	1.000	VSC1-06045	N/A	N/A
VSI-A06436	30	45	60	1,50	0.059	1,80	0.071	25,39	1.000	N/A	15J45X60-A1	WA1-NWN4038
VSI-A07036	30	45	52	1,50	0.059	1,80	0.071	25,39	1.000	N/A	15J45X52-A1	WA1-NWN4077
VSI-A07320	30	45	60	1,50	0.059	1,00	0.039	25,39	1.000	N/A	15E45X60-A1	WA1-NWN4094
VSI-A07840	30	45	60	1,50	0.059	2,00	0.079	25,39	1.000	VSC-06045	15K45X60-A1	WA1-NWN4177
VSI-A08128	30	45	60	1,50	0.059	1,40	0.055	25,39	1.000	N/A	15G45X60-A1	WA1-NWN4216
VSI-A12460	30	45	60	1,50	0.059	3,00	0.118	23,39	0.921	N/A	15Q45X60-A1	N/A
VSI-A21526	30	45	75	1,50	0.059	1,30	0.051	25,39	1.000	VSC5-06045	15H45X75	N/A
VSI-A06336	37	45	52	1,50	0.059	1,80	0.071	25,39	1.000	N/A	15J45G52-A1	WA1-NWN4037
VSI-A20624	38	45	52	1,50	0.059	1,20	0.047	25,39	1.000	VSC2-06045	N/A	N/A
VSI-A20924	38	45	65	1,50	0.059	1,20	0.047	25,39	1.000	VSC3-06045	N/A	N/A
VSI-A07440	15	45	60	1,60	0.063	2,00	0.079	25,39	1.000	N/A	16K45U60-A1	WA1-NWN4117
VSI-A10032	15	45	60	1,60	0.063	1,60	0.063	25,39	1.000	N/A	16H45U60-A1	WA1-NWN4481
VSI-A04620	25	45	60	1,60	0.063	1,00	0.039	25,39	1.000	N/A	16E45V60-A1	WA1-NWN1161
VSI-A04728	25	45	60	1,60	0.063	1,40	0.055	25,39	1.000	N/A	16G45V60-A1	WA1-NWN1162
VSI-A04836	25	45	60	1,60	0.063	1,80	0.071	25,39	1.000	N/A	16J45V60-A1	WA1-NWN1163
VSI-A06520	30	45	60	1,60	0.063	1,00	0.039	25,39	1.000	N/A	16E45X60-A1	WA1-NWN4039
VSI-A06640	30	45	60	1,60	0.063	2,00	0.079	25,39	1.000	N/A	16K45X60-A1	WA1-NWN4040

SGM/VGS Tooling & Accessories

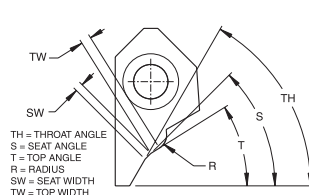
Cutter Inserts – Three Angle

SUNNEN Part Number	Top T	Angle Seat S	Throat TH	Width				Minimum Diameter		VSC Number	SERDI Number	NEWEN Number
				Seat SW		Top TW						
				mm	in.	mm	in.	mm	in.			
VSI-A07524	30	45	52	1,60	0.063	1,20	0.047	25,39	1.000	N/A	16F45X52-A1	WA1-NWN4135
VSI-A07624	30	45	60	1,60	0.063	1,20	0.047	25,39	1.000	N/A	16F45X60-A1	WA1-NWN4136
VSI-A08660	30	45	60	1,60	0.063	3,00	0.118	23,39	0.921	N/A	16Q45X60-A1	WA1-NWN4258
VSI-A08740	30	45	52	1,60	0.063	2,00	0.079	25,39	1.000	N/A	16K45X52-A1	WA1-NWN4266
VSI-A09432	30	45	60	1,60	0.063	1,60	0.063	25,39	1.000	N/A	16H45X60-A1	WA1-NWN4343
VSI-A09636	30	45	52	1,60	0.063	1,80	0.071	25,39	1.000	N/A	16J45X52-A1	WA1-NWN4361
VSI-A09728	30	45	60	1,60	0.063	1,40	0.055	25,39	1.000	N/A	16G45X60-A1	WA1-NWN4391
VSI-A10132	30	45	52	1,60	0.063	1,60	0.063	25,39	1.000	N/A	16H45X52-A1	WA1-NWN4482
VSI-A09836	32	45	55	1,70	0.067	1,80	0.071	25,39	1.000	N/A	17J45E65-A1	WA1-NWN4479
VSI-A06732	30	45	60	1,80	0.071	1,60	0.063	25,39	1.000	N/A	18H45X60-A1	WA1-NWN4041
VSI-A10260	30	45	60	1,80	0.071	3,00	0.118	23,39	0.921	N/A	18Q45X60-A1	WA1-NWN4483
VSI-A08836	25	45	52	1,90	0.075	1,80	0.071	25,39	1.000	N/A	19J45V52-A1	WA1-NWN4271
VSI-A06840	30	45	60	1,90	0.075	2,00	0.079	25,39	1.000	N/A	19K45X60-A1	WA1-NWN4042
VSI-A07736	30	45	52	1,90	0.075	1,80	0.071	25,39	1.000	N/A	19J45X52-A1	WA1-NWN4146
VSI-A08924	30	45	52	1,90	0.075	1,20	0.047	25,39	1.000	N/A	19F45X52-A1	WA1-NWN4299
VSI-A09124	30	45	60	1,90	0.075	1,20	0.047	25,39	1.000	N/A	19F45X60-A1	WA1-NWN4306
VSI-A09332	30	45	60	1,90	0.075	1,60	0.063	25,39	1.000	N/A	19H45X60-A1	WA1-NWN4339
VSI-A10340	30	45	52	1,90	0.075	2,00	0.079	25,39	1.000	N/A	19K45X52-A1	WA1-NWN4484
VSI-A21328	15	45	60	2,00	0.079	1,40	0.055	25,39	1.000	VSC4-08045	N/A	N/A
VSI-A21928	20	45	75	2,00	0.079	1,40	0.055	25,39	1.000	VSC6-08045	N/A	N/A
VSI-A04928	25	45	60	2,00	0.079	1,40	0.055	25,39	1.000	N/A	20G45V60-A1	WA1-NWN1202
VSI-A20428	25	45	60	2,00	0.079	1,40	0.055	25,39	1.000	VSC1-08045	N/A	N/A
VSI-A05130	30	45	60	2,00	0.079	1,50	0.059	25,39	1.000	N/A	42001-A1	WA1-NWN4006
VSI-A06924	30	45	60	2,00	0.079	1,20	0.047	25,39	1.000	N/A	20F45X60-A1	WA1-NWN4043
VSI-A08332	30	45	70	2,00	0.079	1,60	0.063	25,39	1.000	N/A	20H45X70-A1	WA1-NWN4236
VSI-A09236	30	45	55	2,00	0.079	1,78	0.07	25,23	0.993	N/A	N/A	WA1-NWN4338
VSI-A10432	30	45	75	2,00	0.079	1,60	0.063	25,39	1.000	VSC5-08045	20H45X75-A1	WA1-NWN4485
VSI-A12632	30	45	60	2,00	0.079	1,60	0.063	25,39	1.000	VSC-08045	20H45X60-A1	N/A
VSI-A20724	38	45	52	2,00	0.079	1,20	0.047	25,39	1.000	VSC2-08045	N/A	N/A
VSI-A21024	38	45	65	2,00	0.079	1,20	0.047	25,39	1.000	VSC3-08045	N/A	N/A
VSI-A10512	30	45	60	2,20	0.087	0,60	0.024	25,39	1.000	N/A	22G45X60-A1	WA1-NWN4486
VSI-A09540	30	45	60	2,30	0.091	2,00	0.079	25,39	1.000	N/A	23K45X60-A1	WA1-NWN4348
VSI-A21626	30	45	75	2,40	0.094	1,30	0.051	25,39	1.000	VSC5-09045	23H45X75	N/A
VSI-A05028	25	45	60	2,50	0.098	1,40	0.055	25,39	1.000	N/A	25G45V60-A1	WA1-NWN1252
VSI-A10640	30	45	60	2,50	0.098	2,00	0.079	25,39	1.000	N/A	25K45X60-A1	WA1-NWN4487
VSI-A12730	2	45.5	75	1,50	0.059	1,50	0.059	25,39	1.000	N/A	N/A	WA1-NWN5185
VSI-A13024	30	46	55	1,20	0.047	1,20	0.047	25,39	1.000	N/A	12F46X55-A1	WA1-NWN4603
VSI-A12816	35	46	55	1,60	0.063	0,80	0.031	25,39	1.000	N/A	16D46F55-A1	WA1-NWN4601
VSI-A13124	30	46	52	1,90	0.075	1,20	0.047	25,39	1.000	N/A	19F46X52-A1	WA1-NWN4604
VSI-A12916	30	46	55	2,20	0.087	0,80	0.031	25,39	1.000	N/A	22D46X55-A1	WA1-NWN4602

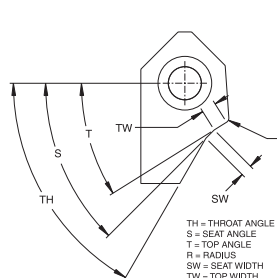
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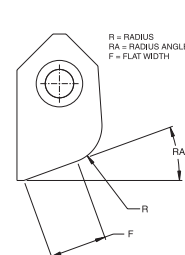
Mini



Radius



Radius Inserts



SGM/VGS Tooling & Accessories

Cutter Inserts – Three Angle

Three Angle Inserts, Small

SUNNEN Part Number	Top T	Angle Seat S	Throat TH	Width				Radius R		Minimum Diameter		VSC Number	SERDI Number	NEWEN Number
				Seat SW		Top TW								
				mm	in.	mm	in.	mm	in.	mm	in.			
VSI-A23128	38	45	52	1,300	.051	1,500	.059	0,50	0.020	18,24	0.718	VSC-717	N/A	N/A
VSI-A23228	38	45	52	1,000	.039	1,500	.059	0,50	0.020	18,24	0.718	VSC-718	N/A	N/A

Three Angle Inserts, Mini

SUNNEN Part Number	Top T	Angle Seat S	Throat TH	Width				Radius R		Minimum Diameter		VSC Number	SERDI Number	NEWEN Number
				Seat SW		Top TW								
				mm	in.	mm	in.	mm	in.	mm	in.			
VSI-A16196	32	45	60	0,80	0.031	1,00	0.039	1,50	0.059	13,51	0.532	N/A	40805-A2	WA2-NWN4496
VSI-A16796	15	45	75	1,00	0.039	1,00	0.039	1,50	0.059	13,51	0.532	N/A	41003-A2	WA2-NWN5448
VSI-A16696	20	45	60	1,00	0.039	1,00	0.039	1,50	0.059	13,51	0.532	N/A	41200-A2	WA2-NWN5442
VSI-A16596	30	45	75	1,00	0.039	1,00	0.039	1,50	0.059	13,51	0.532	N/A	41181-A2	WA2-NWN5439
VSI-A16296	32	45	60	1,00	0.039	1,00	0.039	1,50	0.059	13,51	0.532	N/A	41156-A2	WA2-NWN4497
VSI-A22796	38	45	52	1,00	0.039	1,50	0.059	1,50	0.059	13,51	0.532	VSC-718	N/A	N/A
VSI-A16396	38	45	60	1,10	0.043	1,00	0.039	1,50	0.059	13,51	0.532	N/A	41026-A2	WA2-NWN4498
VSI-A16996	32	45	60	1,20	0.047	1,00	0.039	1,50	0.059	13,51	0.532	N/A	41182-A2	N/A
VSI-A16896	30	45	60	1,30	0.051	1,00	0.039	1,50	0.059	13,51	0.532	N/A	41046-A2	WA2-NWN5449
VSI-A22696	38	45	52	1,30	0.051	1,50	0.059	1,50	0.059	13,51	0.532	VSC-717	N/A	N/A
VSI-A16496	30	45	60	1,50	0.059	1,00	0.039	1,50	0.059	13,51	0.532	N/A	41091-A2	WA2-NWN5436

Three Angle Inserts, Radius

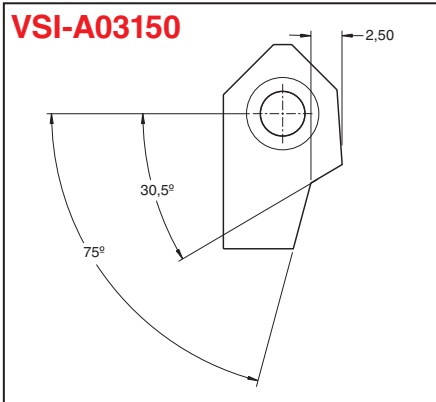
SUNNEN Part Number	Top T	Angle Seat S	Throat TH	Width				Radius R		Minimum Diameter		VSC Number	SERDI Number	NEWEN Number
				Seat SW		Top TW								
				mm	in.	mm	in.	mm	in.	mm	in.			
VSI-A10726	32	45	60	0,80	0.031	1,00	0.039	1,00	0.039	25,39	1.000	N/A	40805-A1	WA1-NWN4496
VSI-A11642	15	45	75	1,00	0.039	1,60	0.063	0,80	0.031	25,19	0.992	N/A	N/A	WA1-NWN5122
VSI-A12240	15	45	75	1,00	0.039	0,90	0.035	1,50	0.059	25,39	1.000	N/A	41003-A1	WA1-NWN5448
VSI-A11938	20	45	60	1,00	0.039	1,00	0.039	1,50	0.059	25,39	1.000	N/A	41200-A1	WA1-NWN5442
VSI-A11032	30	45	60	1,00	0.039	1,00	0.039	1,50	0.059	25,39	1.000	N/A	41001-A1	WA1-NWN5043
VSI-A11832	30	45	75	1,00	0.039	1,00	0.039	1,50	0.059	25,39	1.000	N/A	41181-A1	WA1-NWN5439
VSI-A12532	32	45	60	1,00	0.039	1,10	0.043	1,50	0.059	25,39	1.000	N/A	41156-A1	N/A
VSI-A10926	38	45	60	1,10	0.043	0,90	0.035	1,50	0.059	25,39	1.000	N/A	41026-A1	WA1-NWN449
VSI-A08530	32	45	60	1,20	0.047	1,50	0.059	0,50	0.020	25,39	1.000	N/A	N/A	WA1-NWN4247
VSI-A10832	32	45	60	1,20	0.047	1,10	0.043	1,50	0.059	25,39	1.000	N/A	41182-A1	WA1-NWN4497
VSI-A12332	30	45	60	1,30	0.051	1,00	0.039	1,50	0.059	25,39	1.000	N/A	41046-A1	WA1-NWN5449
VSI-A11732	30	45	60	1,50	0.059	1,00	0.039	1,50	0.059	25,39	1.000	N/A	41091-A1	WA1-NWN5436

Radius Inserts

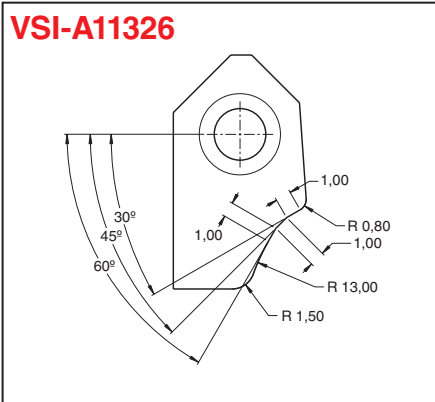
SUNNEN Part Number	Radius Angle S	Radius R		Flat Width F		VSC Number	SERDI Number	NEWEN Number
		mm	in.	mm	in.			
VSI-A13300	15	4,00	0.16	5,50	0.22	N/A	R4-15-A1	WA1-NWN5121
VSI-A13500	15	5,00	0.20	5,00	0.20	VSC-518	R5-15-A1	WA1-NWN5428
VSI-A13600	15	7,00	0.28	4,10	0.16	N/A	R7-15-A1	WA1-NWN5429
VSI-A13400	30	4,00	0.16	5,70	0.22	N/A	R4-30-A1	WA1-NWN5168
VSI-A13200	30	5,00	0.20	6,00	0.24	N/A	R5-30-A1	WA1-NWN5079
VSI-A13700	30	7,00	0.28	4,40	0.17	N/A	R7-30-A1	WA1-NWN5430

SGM/VGS Cutter Inserts

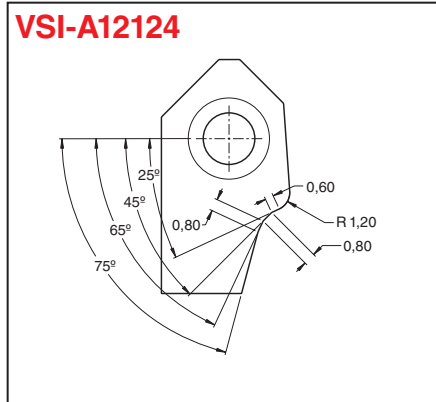
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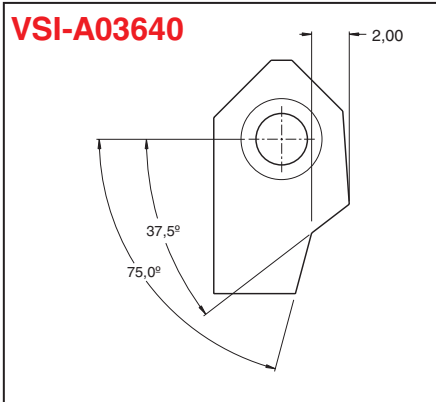
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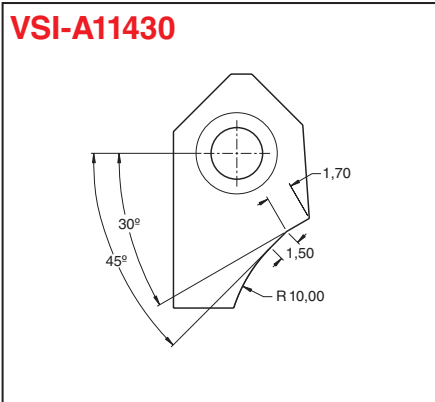
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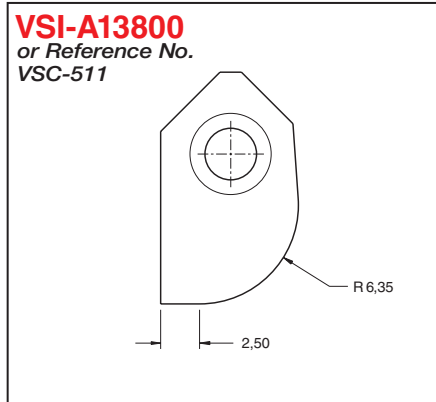
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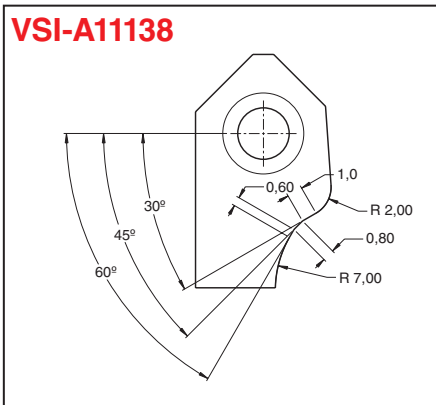
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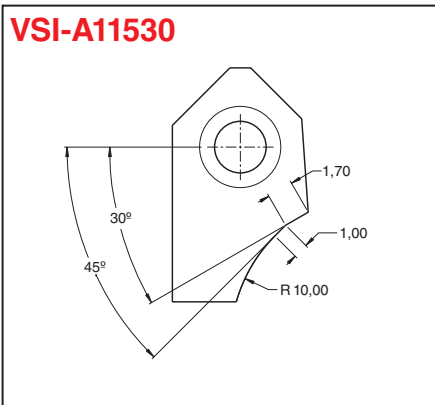
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VSC-511



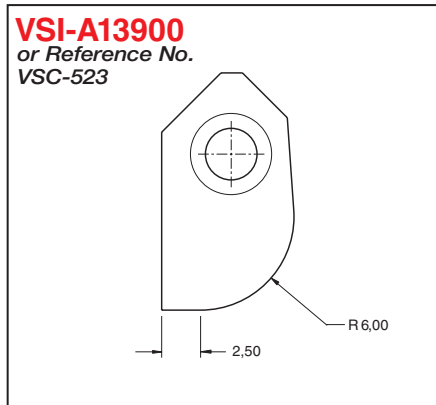
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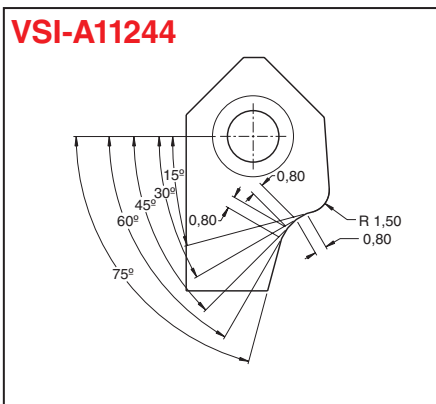
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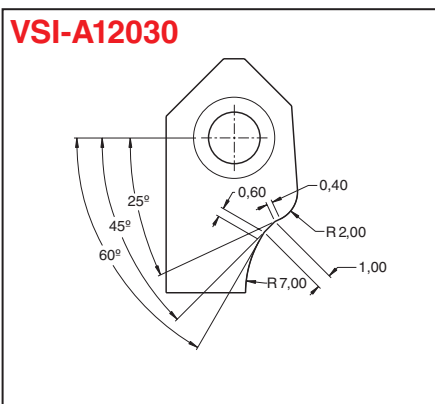
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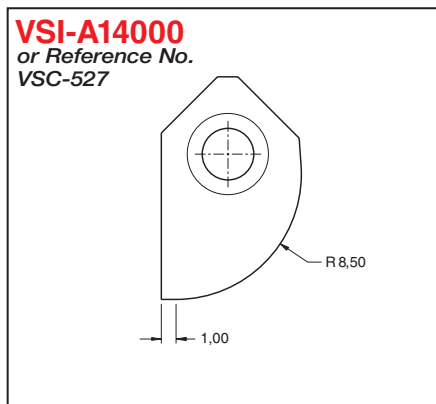
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VSI-A12030



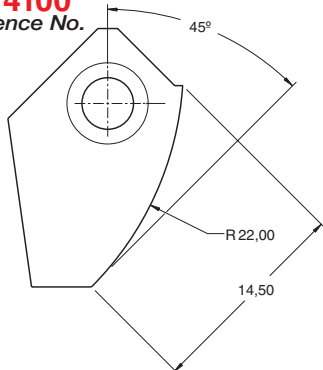
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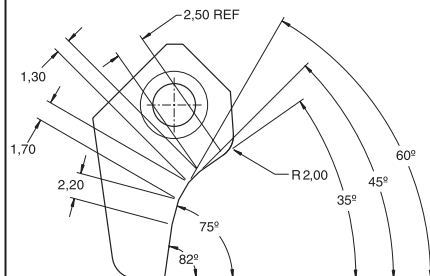
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SGM/VGS Cutter Inserts

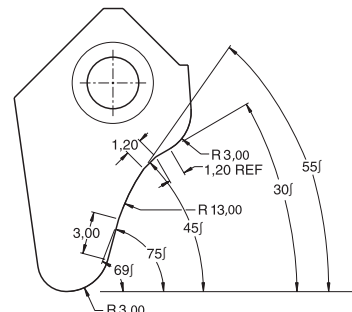
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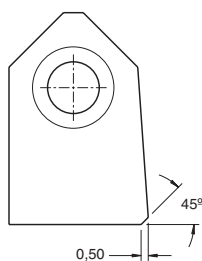
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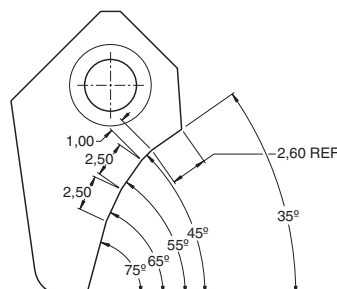
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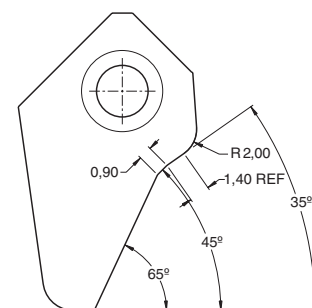
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VSC-390



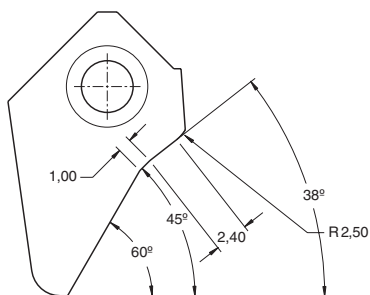
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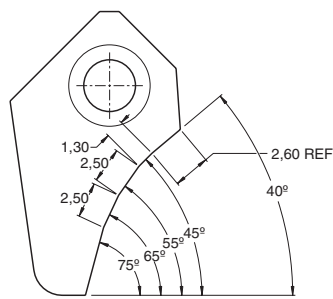
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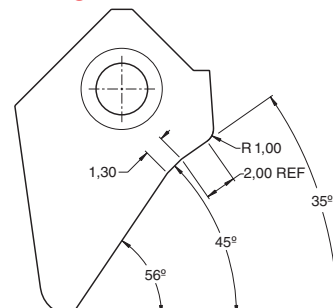
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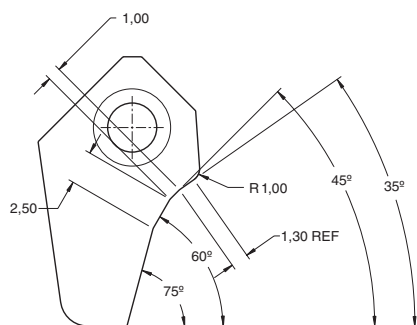
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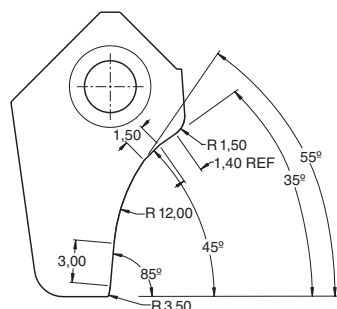
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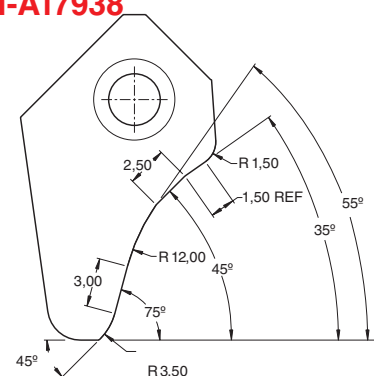
VSI-A17130



VSI-A17536



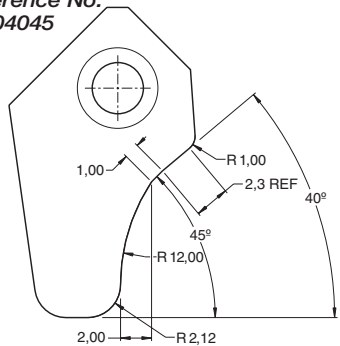
VSI-A17938



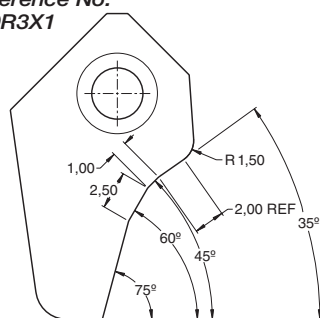
To convert from metric to inch, divide by 25.4. 1,0 mm = .039". 1,50 mm = .059". 2,0 mm = .079".

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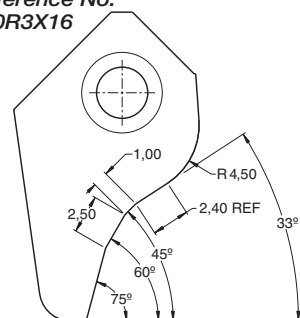
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or Reference No.
VSC9-04045



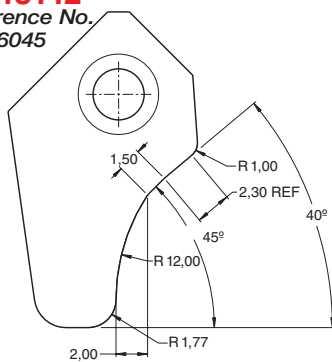
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VSC-0R3X1



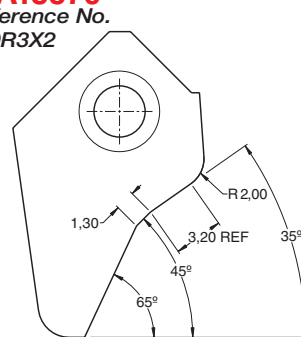
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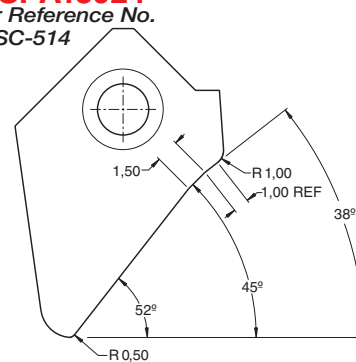
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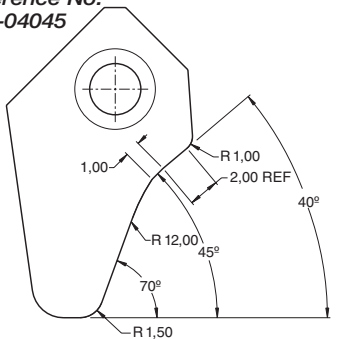
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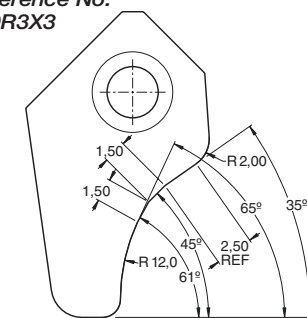
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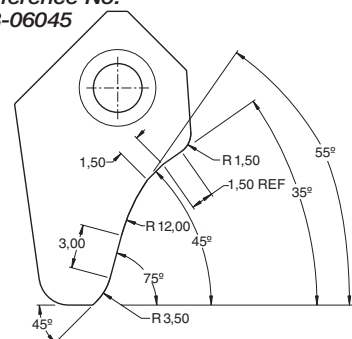
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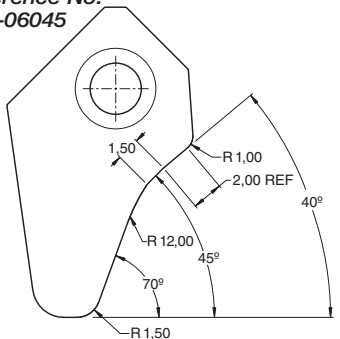
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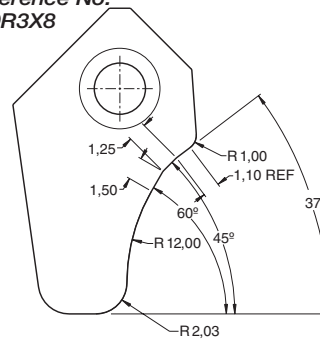
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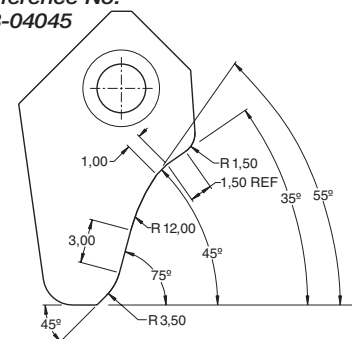
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VSI-A18726
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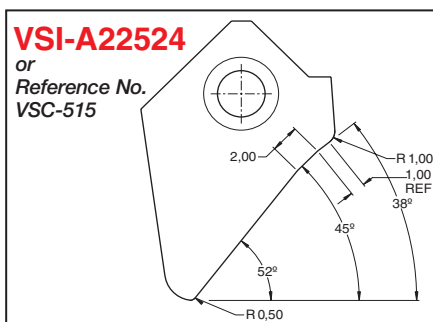
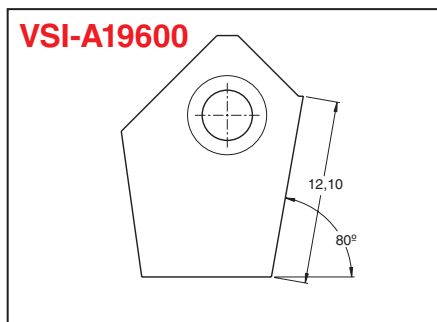
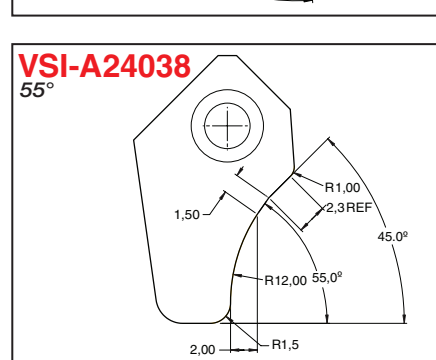
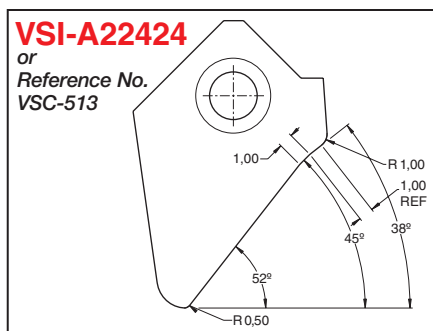
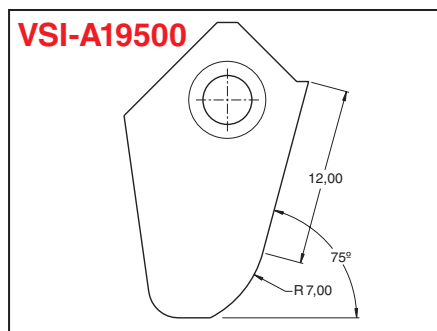
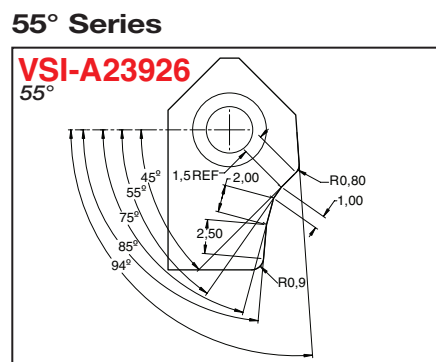
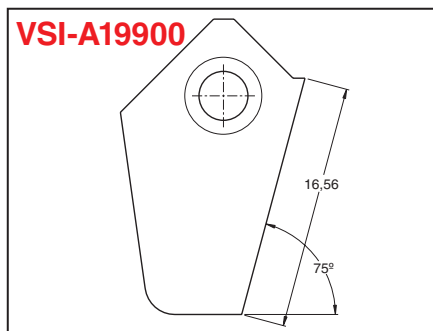
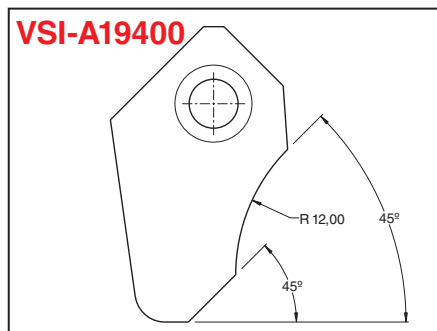
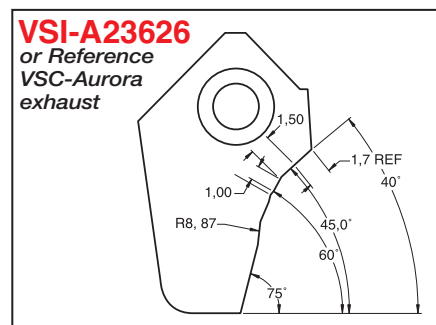
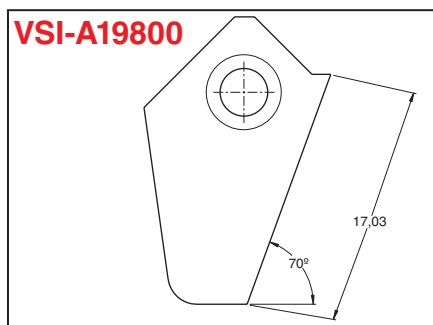
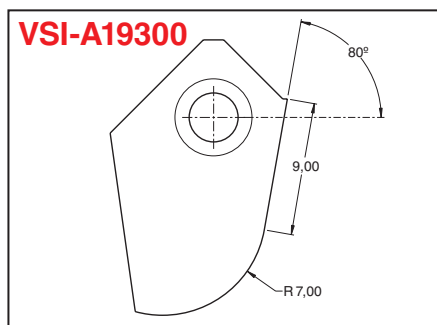
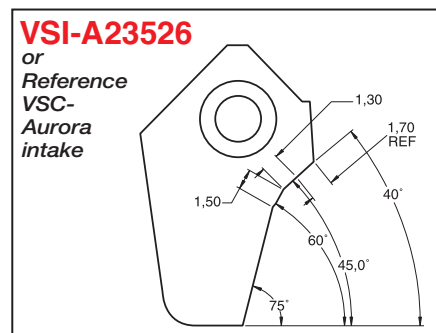
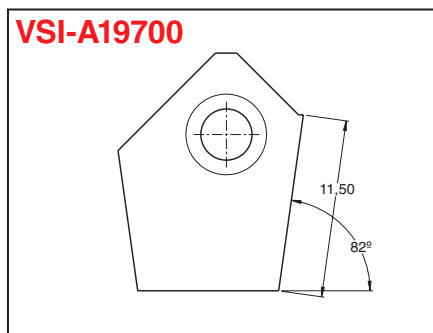
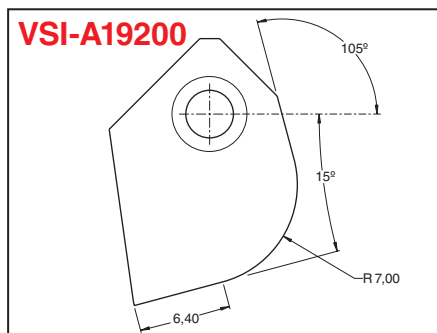


VSI-A19138
or Reference No.
VSC8-04045



To convert from metric to inch, divide by 25.4. 1,0 mm = .039". 1,50 mm = .059". 2,0 mm = .079".

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