

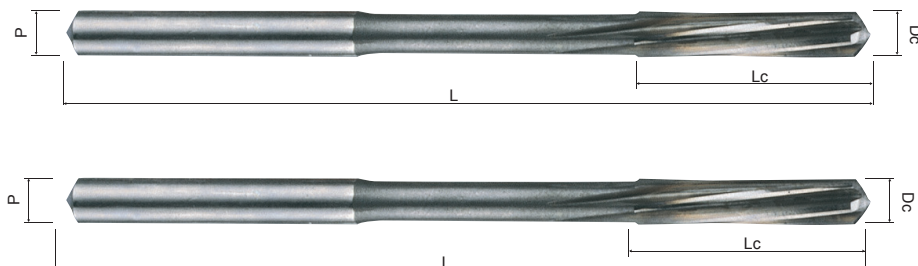


# Machine Reamers

In Steps of 0.5mm



Carbide



## Work Material / Velocity m/min

GR.1 Non alloyed steels Alloyed Steels	GR.2 Heat resistant steels Stainless steels	GR.3 Hardened steels < 48 HRC	GR.4 Hardened steels 48-56 HRC	GR.6 Iron	GR.7 Titanium	GR.8 Nickel	GR.9 Copper	GR.10 Aluminium
7-25	7-15	5-10	5-10	10-22	10-25	5-20	30-45	20-50

- ※ 2.0-9.0 VHM Solid Carbide
- ※ 10.0-20.0 HM Carbide Tipped

## Straight Shank(Order No. VR301-Dc)

Unit:mm

ORDER NO.	Dc H7	Lc mm	L mm	d mm	Z teeth	CODE NO.
VR301-2.0	2.0	11	49	2.0	4	6007-390
VR301-2.5	2.5	14	57	2.5	4	6007-391
VR301-3.0	3.0	15	61	3.0	4	6007-392
VR301-3.5	3.5	18	70	3.5	4	6007-393
VR301-4.0	4.0	19	75	4.0	4	6007-394
VR301-4.5	4.5	21	80	4.5	4	6007-395
VR301-5.0	5.0	23	86	5.0	6	6007-396
VR301-5.5	5.5	26	93	5.5	6	6007-397
VR301-6.0	6.0	26	93	6.0	6	6007-398
VR301-7.0	7.0	31	109	7.0	6	6007-400
VR301-8.0	8.0	33	117	8.0	6	6007-402
VR301-9.0	9.0	36	125	9.0	6	6007-404
VR301-10.0	10.0	38	133	10.0	6	6007-406

※ 2.0-9.0 VHM Solid Carbide ※ 10.0-20.0 HM Carbide Tipped

ORDER NO.	Dc H7	Lc mm	L mm	d mm	Z teeth	CODE NO.
VR301-11.0	11.0	41	142	10.0	6	6007-408
VR301-12.0	12.0	44	151	10.0	6	6007-410
VR301-13.0	13.0	44	151	10.0	6	6007-412
VR301-14.0	14.0	47	160	12.5	6	6007-414
VR301-15.0	15.0	50	162	12.5	6	6007-416
VR301-16.0	16.0	52	170	12.5	6	6007-418
VR301-17.0	17.0	54	175	14.0	6	6007-419
VR301-18.0	18.0	56	182	14.0	6	6007-420
VR301-19.0	19.0	58	189	16.0	6	6007-421
VR301-20.0	20.0	60	195	16.0	6	6007-422

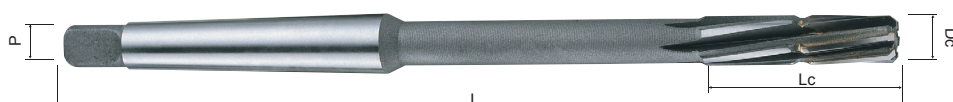
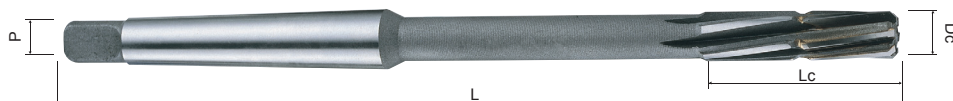




# Machine Reamers Carbide Tipped



**VERTEX®**



## Work Material / Velocity m/min

GR.1 Non alloyed steels Alloyed Steels	GR.2 Heat resistant steels Stainless steels	GR.3 Hardened steels < 48 HRC	GR.4 Hardened steels 48-56 HRC	GR.6 Iron	GR.7 Titanium	GR.8 Nickel	GR.9 Copper	GR.10 Aluminium
7-25	7-15	5-10	5-10	10-22	10-25	5-20	30-45	20-50



## Taper Shank(Order No. VR303-Dc)

Unit:mm

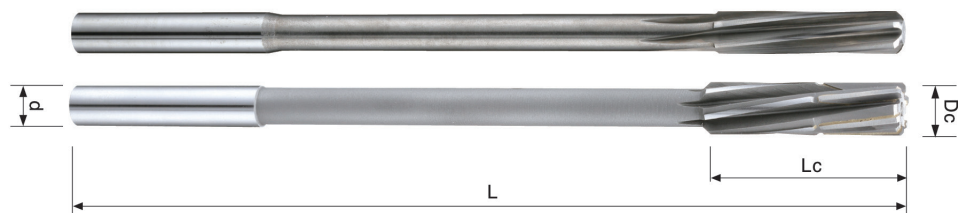
ORDER NO.	Dc H7	Lc mm	L mm	d MT-#	Z teeth	CODE NO.
VR303-10.0	10.0	38	168	MT-1	6	6007-430
VR303-11.0	11.0	41	175	MT-1	6	6007-431
VR303-12.0	12.0	44	182	MT-1	6	6007-432
VR303-13.0	13.0	44	182	MT-1	6	6007-433
VR303-14.0	14.0	47	189	MT-1	6	6007-434
VR303-15.0	15.0	50	204	MT-2	6	6007-435
VR303-16.0	16.0	52	210	MT-2	6	6007-436
VR303-17.0	17.0	54	214	MT-2	6	6007-437
VR303-18.0	18.0	56	219	MT-2	6	6007-438
VR303-19.0	19.0	58	223	MT-2	6	6007-439
VR303-20.0	20.0	60	228	MT-2	6	6007-440
VR303-22.0	22.0	64	237	MT-2	6	6007-441
VR303-24.0	24.0	68	268	MT-3	8	6007-442

ORDER NO.	Dc H7	Lc mm	L mm	d mt	Z teeth	CODE NO.
VR303-25.0	25.0	68	268	3	8	6007-443
VR303-26.0	26.0	70	273	3	8	6007-444
VR303-28.0	28.0	71	277	3	8	6007-445
VR303-30.0	30.0	73	281	3	8	6007-446
VR303-32.0	32.0	77	317	4	8	6007-447
VR303-35.0	35.0	78	321	4	8	6007-448
VR303-36.0	36.0	79	325	4	8	6007-449
VR303-38.0	38.0	81	329	4	8	6007-450
VR303-40.0	40.0	81	329	4	8	6007-451





# Machine Reamers Long Length

**VERTEX®****Carbide**

## Work Material / Velocity m/min

GR.1 Non alloyed steels Alloyed Steels	GR.2 Heat resistant steels Stainless steels	GR.3 Hardened steels < 48 HRC	GR.4 Hardened steels 48-56 HRC	GR.6 Iron	GR.7 Titanium	GR.8 Nickel	GR.9 Copper	GR.10 Aluminium
7-25	7-15	5-10	5-10	10-22	10-25	5-20	30-45	20-50

## Straight Shank(Order No. VRC02-Dia)

Unit:mm

ORDER NO.	Dc h7	Lc mm	L mm	d h6	Z teeth	CODE NO.
VRC02-3.0	3.0	15	100	3.0	4	6008-820
VRC02-3.5	3.5	18	112	3.5	4	6008-821
VRC02-4.0	4.0	19	119	4.0	4	6008-822
VRC02-4.5	4.5	21	126	4.5	4	6008-823
VRC02-5.0	5.0	23	132	5.0	6	6008-824
VRC02-6.0	6.0	26	139	6.0	6	6008-825
VRC02-7.0	7.0	31	156	7.0	6	6008-826
VRC02-8.0	8.0	33	165	8.0	6	6008-827

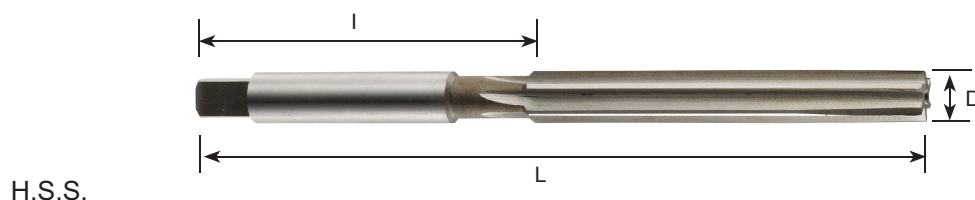
## Straight Shank(Order No. VRC02-Dia)

Unit:mm

ORDER NO.	Dc h7	Lc mm	L mm	d h6	Z teeth	CODE NO.
VRC02-9.0	9.0	36	175	9.0	6	6008-828
VRC02-10.0	10.0	38	184	10.0	6	6008-829
VRC02-12.0	12.0	44	205	10.0	6	6008-830
VRC02-14.0	14.0	47	214	12.5	6	6008-831
VRC02-16.0	16.0	52	227	12.5	6	6008-832
VRC02-18.0	18.0	56	241	14.0	6	6008-833
VRC02-20.0	20.0	60	254	16.0	6	6008-834



# Hand Reamers - HSS

**H.S.S.**

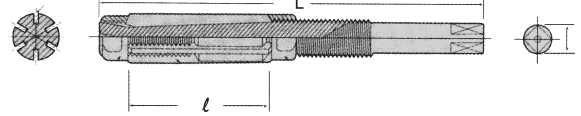
ORDER NO.	BLADE D	Total Length L	BLADE I	BLADE N	CODE NO.
VHM-03	3	72	40	6	6009-001
VHM-04	4	80	40	6	6009-002
VHM-05	5	90	45	6	6009-003
VHM-06	6	100	50	6	6009-004
VHM-07	7	105	55	6	6009-005
VHM-08	8	115	60	6	6009-006
VHM-09	9	125	65	6	6009-007
VHM-10	10	130	70	6	6009-008
VHM-11	11	140	75	6	6009-009
VHM-12	12	150	75	6	6009-010





# Adjustable Reamers

Unique Quality, World Standard



## Features Adjustable Reamers

- Because of you can get diameter adjust, one Adjustable reamers function possible as dozens of solid reamers.
- The spare blades save you a lot of economization

ORDER NO.	Range of Adjustment (mm)	Overall Length (mm)	Blade Length (mm)	Weight (kgs)	CODE NO.
VAR-635	6.35~7.15	83	35	0.013	6009-021
VAR-715	7.15~7.95	91	35	0.017	6009-022
VAR-795	7.95~8.70	107	38	0.026	6009-023
VAR-870	8.70~9.50	112	38	0.030	6009-024
VAR-950	9.50~10.25	121	38	0.037	6009-025
VAR-1025	10.25~11	127	38	0.045	6009-026
VAR-1100	11~12	134	42	0.059	6009-027
VAR-1200	12~13.5	141	42	0.071	6009-028
VAR-1350	13.5~15	146	45	0.090	6009-029
VAR-1500	15~16.75	166	53	0.129	6009-030
VAR-1675	16.75~18.25	172	56	0.172	6009-031
VAR-1825	18.25~19.75	178	64	0.227	6009-032
VAR-1975	19.75~21.50	188	67	0.292	6009-033
VAR-2150	21.50~23.75	204	76	0.393	6009-034
VAR-2375	23.75~27	230	83	0.525	6009-035
VAR-2700	27~30.25	254	86	0.785	6009-036
VAR-3025	30.25~34.25	280	98	0.945	6009-037
VAR-3425	34.25~38	305	109	1.36	6009-038
VAR-3800	38~46	356	113	2.11	6009-039
VAR-4600	46~56	407	128	3.60	6009-040
VAR-5600	56~70	457	124	6.14	6009-041
VAR-7000	70~85	509	135	9.87	6009-042

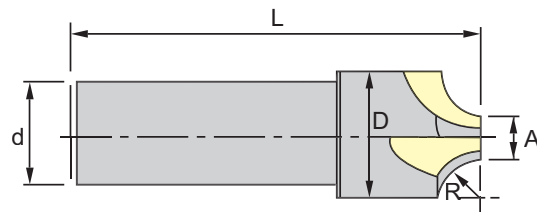


## Outside Radius Shape End Mills

Suit For:

**MATERIAL: H.S.S.**

Plastic molds and cutting radius shape work piece.



ORDER NO.	R	End D. A	O.D.	Total L	Shank d	Blade No. N	CODE NO.
VCR-010	1	6	8	55	10	3	6009-061
VCR-020	2	6	10	60	12	3	6009-062
VCR-030	3	6	12	60	12	3	6009-063
VCR-040	4	6	14	65	12	3	6009-064
VCR-050	5	7	17	70	16	4	6009-065
VCR-060	6	8	20	75	16	4	6009-066
VCR-070	7	8	22	75	16	4	6009-067
VCR-080	8	9	25	85	20	4	6009-068
VCR-090	9	9	27	85	20	4	6009-069
VCR-100	10	10	30	95	25	4	6009-070





# Counterbore End Mills



**MATERIAL: H.S.S.**



ORDER NO.	Dimension mm	Guide d	Blade O.D.	Shank D	Weight (g)	CODE NO.
VCB-03	3	3.2	5.9	6	18	6009-081
VCB-04	4	4.2	7.4	6	21.5	6009-082
VCB-05	5	5.2	8.9	6	22.5	6009-083
VCB-06	6	6.2	10.4	8	33.5	6009-084
VCB-08	8	8.2	13.4	10	61	6009-085
VCB-10	10	10.3	16.8	12	88	6009-086
VCB-12	12	12.3	18.8	12	120	6009-087
VCB-14	14	14.3	24	12	165	6009-088
VCB-16	16	16.3	26	12	186	6009-089
VCB-18	18	18.3	28	12	195	6009-090



# Metal Slitting Saws

**MATERIAL: SKH-9**



**INSIDE DIA. 1" (25.4mm)**

ORDER NO.	Thickness	ØO.D.	CODE NO.
VSS-7505	0.5 m/m	75	6009-131
VSS-7508	0.8 m/m	75	6009-132
VSS-7510	1.0 m/m	75	6009-133
VSS-7512	1.2 m/m	75	6009-134
VSS-7515	1.5 m/m	75	6009-135
VSS-7518	1.8 m/m	75	6009-136
VSS-7520	2.0 m/m	75	6009-137

ORDER NO.	Thickness	ØO.D.	CODE NO.
VSS-1005	0.5 m/m	100	6009-151
VSS-1008	0.8 m/m	100	6009-152
VSS-1010	1.0 m/m	100	6009-153
VSS-1012	1.2 m/m	100	6009-154
VSS-1015	1.5 m/m	100	6009-155
VSS-1018	1.8 m/m	100	6009-156
VSS-1020	2.0 m/m	100	6009-157