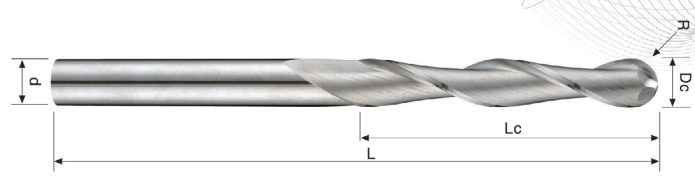
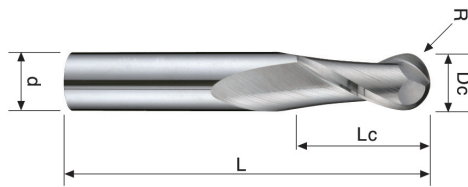




Ball Nose End Mills



VERTEX®



Work Material / Velocity m/min

ORDER NO.	GR.1 Non alloyed steels Alloyed Steels	GR.3 Hardened steels < 48 HRC	GR.6 Iron	GR.9 Copper	GR.10 Aluminium	GR.11 Plastics
VBB12	40-120	30-50	40-80	60-120	60-300	80-120
VBB80	25-70	20-30	25-60	60-120	60-300	80-120

Standard Length(Order No. VBB12-Dia)

Unit:mm

ORDER NO.	Dc h10	R ±0.01	Lc mm	L mm	d h6	CODE NO.
VBB12-0.3	0.3	0.15R	0.6	38	3	6008-100
VBB12-0.4	0.4	0.20R	0.8	38	3	6008-101
VBB12-0.5	0.5	0.25R	1.0	38	3	6008-102
VBB12-0.6	0.6	0.30R	1.2	38	3	6008-103
VBB12-0.7	0.7	0.35R	1.4	38	3	6008-104
VBB12-0.8	0.8	0.40R	1.6	38	3	6008-105
VBB12-0.9	0.9	0.45R	2.0	38	3	6008-106
VBB12-1.0	1.0	0.50R	3.0	38	3	6008-107
VBB12-1.5	1.5	0.75R	5.0	38	3	6008-108
VBB12-2.0	2.0	1.00R	6.0	38	3	6008-109
VBB12-2.5	2.5	1.25R	7.0	38	3	6008-110
VBB12-3.0	3.0	1.50R	9.0	38	3	6008-111
VBB12-3.5	3.5	1.75R	12.0	50	4	6008-112
VBB12-4.0	4.0	2.00R	14.0	50	4	6008-113
VBB12-4.5	4.5	2.25R	16.0	50	5	6008-114
VBB12-5.0	5.0	2.50R	16.0	50	5	6008-115
VBB12-5.5	5.5	2.75R	16.0	50	6	6008-116
VBB12-6.0	6.0	3.00R	20.0	63	6	6008-117
VBB12-7.0	7.0	3.50R	20.0	63	8	6008-118
VBB12-8.0	8.0	4.00R	20.0	63	8	6008-119
VBB12-9.0	9.0	4.50R	22.0	72	10	6008-120

Standard Length(Order No. VBB12-Dia)

Unit:mm

ORDER NO.	Dc h10	R ±0.01	Lc mm	L mm	d h6	CODE NO.
VBB12-10.0	10.0	5.00R	22.0	72	10	6008-121
VBB12-11.0	11.0	5.50R	26.0	75	12	6008-122
VBB12-12.0	12.0	6.00R	26.0	75	12	6008-123
VBB12-14.0	14.0	7.00R	32.0	89	14	6008-124
VBB12-16.0	16.0	8.00R	32.0	89	16	6008-125
VBB12-18.0	18.0	9.00R	38.0	100	18	6008-126
VBB12-20.0	20.0	10.00R	38.0	100	20	6008-127

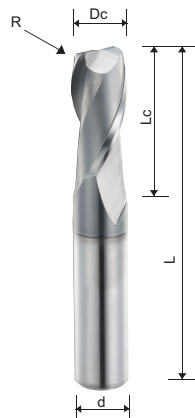
Long Length(Order No. VBB80-Dia)

Unit:mm

ORDER NO.	Dc h10	R ±0.01	Lc mm	L mm	d h6	CODE NO.
VBB80-3	3	1.5R	20	57	3	6008-140
VBB80-4	4	2.0R	20	57	4	6008-141
VBB80-5	5	2.5R	25	63	5	6008-142
VBB80-6	6	3.0R	28	75	6	6008-143
VBB80-8	8	4.0R	30	75	8	6008-144
VBB80-10	10	5.0R	32	75	10	6008-145
VBB80-12	12	6.0R	50	100	12	6008-146
VBB80-14	14	7.0R	57	127	14	6008-147
VBB80-16	16	8.0R	57	127	16	6008-148
VBB80-20	20	10.0R	57	127	20	6008-149



End Mills With Corner Radius



Type of Operation



Standard Length(Order No. VB625X-Dia)

ORDER NO.	R ±0.01	Lc mm	L mm	d h6	CODE NO.
VB625-405	4.00x0.5R	11	50	6	6008-150
VB625-605	6.00x0.5R	16	50	6	6008-151
VB625-610	6.00x1.0R	16	50	6	6008-152
VB625-805	8.00x0.5R	20	60	8	6008-153
VB625-810	8.00x1.0R	20	60	8	6008-154
VB625-105	10.00x0.5R	22	72	10	6008-155
VB625-110	10.00x1.0R	22	72	10	6008-156
VB625-120	10.00x2.0R	22	72	10	6008-157
VB625-121	12.00x1.0R	26	75	12	6008-158
VB625-122	12.00x2.0R	26	75	12	6008-159

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
60-250	25-80	60-120	40-100	30-150	30-180	50-300	100-600