

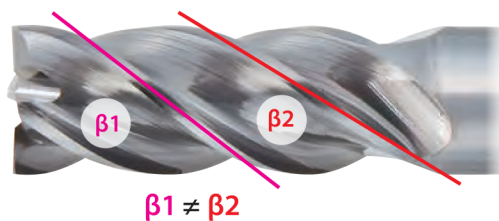
NEW

VARICUT PRO END MILL RANGE

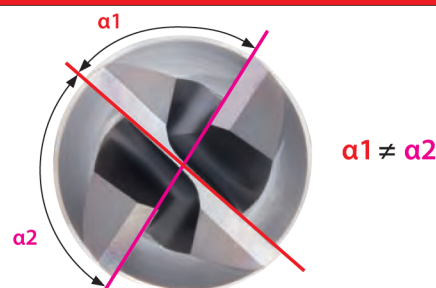
ANTI-VIBRATION CARBIDE END MILL

25%
DISCOUNT

NEW UNEQUAL FLUTE ANGLES



NEW UNEQUAL SPACING FRONT TEETH



Introducing the **NEW** VariCut Pro

- Enhanced Design and Geometry
- Specially Adapted Edge Preparation
- Improved Surface Finish
- New Coating Technology
- Unique Manufacturing Procedure

Resulting in:

- Longer Tool Life
- Improved Feeds and Speeds
- Excellent Surface Finish in a wider range of Materials
- More Versatile Machining Capabilities

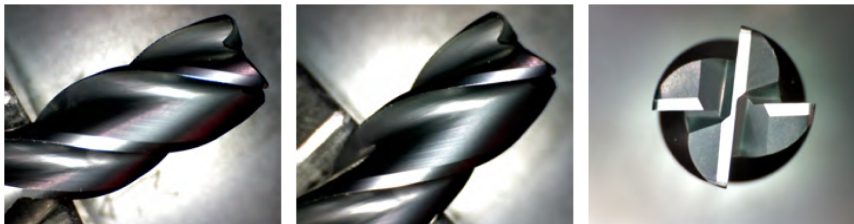


TEST RESULTS

10mm in M200 after 60 metres

1.5xD Depth of Cut, Side Milling with 2mm stepover, $V_c = 120\text{m/min}$, 0.090mm/tooth Feed Rate

03VP



Competitor



10mm in SS 316 L after 60 metres

1.5xD Depth of Cut, Side Milling with 2mm stepover, $V_c = 80\text{m/min}$, 0.057mm/tooth Feed Rate

03VP



Competitor



Tel: 0861 707 707, **WhatsApp:** 076 750 1329

Email: sales@kilton.co.za

www.kilton.co.za www.onlinetoolshop.kilton.co.za

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TOOLS FOR LIFE

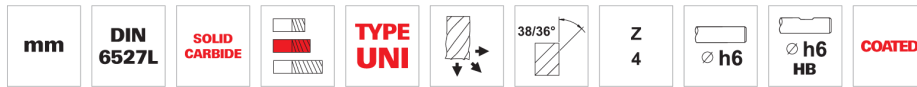
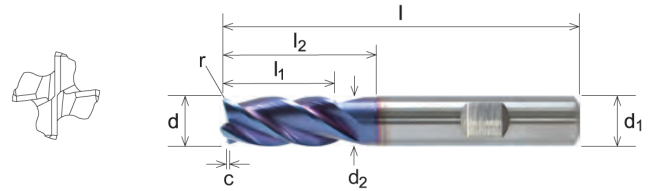
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RIDGID



Solid Carbide 4 Flute VariCut Pro End Mills

For roughing and finishing with high metal removal rates eliminating the use of multiple tools. Designed for tougher materials including Stainless steel and Titanium.



P						M				K				Ti			Ni			Cu				N				Syn			H			
1.1	1.2	1.3	1.4	1.5	1.6	2.1	2.2	2.3	2.4	3.1	3.2	3.3	3.4	4.1	4.2	4.3	5.1	5.2	5.3	6.1	6.2	6.3	6.4	7.1	7.2	7.3	7.4	8.1	8.2	8.3	9.1	9.2	9.3	9.4

d	l ₁	l ₂	l	d ₁	d ₂	c	r		Code	Price
4	9	14	57	6	3.8	0.2 x 45°	-	x	03VP0400X	R 543.10
4	9	14	57	6	3.8	-	0.2	-	03VP0402X	R 564.80
4	9	14	57	6	3.8	-	0.5	-	03VP0405X	R 564.80
5	13	18	57	6	4.8	0.2 x 45°	-	x	03VP0500X	R 539.00
5	13	18	57	6	4.8	-	0.2	-	03VP0502X	R 560.50
5	13	18	57	6	4.8	-	0.5	-	03VP0505X	R 560.50
6	13	18	57	6	5.8	0.2 x 45°	-	x	03VP0600X	R 526.80
6	13	18	57	6	5.8	-	0.2	-	03VP0602X	R 547.80
6	13	18	57	6	5.8	-	0.5	-	03VP0605X	R 547.80
8	19	24	63	8	7.7	0.25 x 45°	-	x	03VP0800X	R 735.10
8	19	24	63	8	7.8	-	0.2	-	03VP0802X	R 764.50
8	19	24	63	8	7.8	-	0.5	-	03VP0805X	R 764.50
10	22	32	72	10	9.7	0.25 x 45°	-	x	03VP1000X	R 984.80
10	22	32	72	10	9.8	-	0.3	-	03VP1003X	R 1 024.10
10	22	32	72	10	9.8	-	0.5	-	03VP1005X	R 1 024.10
12	26	36	83	12	11.6	0.3 x 45°	-	x	03VP1200X	R 1 334.00
12	26	36	83	12	11.8	-	0.5	-	03VP1205X	R 1 387.30
12	26	36	83	12	11.8	-	1	-	03VP1210X	R 1 387.30
16	32	42	92	16	15.5	0.4 x 45°	-	x	03VP1600X	R 2 223.50
16	32	42	92	16	15.8	-	1	-	03VP1610X	R 2 312.40
16	32	42	92	16	15.8	-	2	-	03VP1620X	R 2 312.40
20	38	48	104	20	19.5	0.4 x 45°	-	x	03VP2000X	R 3 708.10
20	38	48	104	20	19.8	-	1	-	03VP2010X	R 3 856.40
20	38	48	104	20	19.8	-	2	-	03VP2020X	R 3 856.40

ALL PRICES EXCLUDE VAT



OSG GROUP COMPANY shaping your dreams

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RIDGID



PFERD



RUWAG



SOMTA

CUTTING DATA

Parameters based on ideal conditions. Please adjust parameters accordingly to real applications.

fz
 $ap = d$
 $ae = 0.5 \times d$

For slotting use $fz \times 0.7$
 fz
 $ap = d$
 $ae = d$

☒ Recommended
☐ Suitable

Material		Ø	Vc m/min	4	5	6	8	10	12	16	20
				fz (mm/tooth)	fz (mm/tooth)	fz (mm/tooth)	fz (mm/tooth)	fz (mm/tooth)	fz (mm/tooth)	fz (mm/tooth)	fz (mm/tooth)
P	1.1 Free Cutting Steel	< 120 HB	140-175	0.023-0.038	0.027-0.045	0.033-0.055	0.045-0.075	0.054-0.090	0.062-0.103	0.076-0.126	0.086-0.143
	1.2 Structural Steel	< 200 HB	140-165	0.023-0.038	0.027-0.045	0.033-0.055	0.045-0.075	0.054-0.090	0.062-0.103	0.076-0.126	0.086-0.143
	1.3 Plain Carbon Steel	< 250 HB	130-140	0.019-0.032	0.023-0.038	0.027-0.045	0.037-0.061	0.044-0.074	0.050-0.084	0.062-0.104	0.071-0.118
	1.4 Alloy Steel	< 250 HB	120-130	0.017-0.029	0.020-0.034	0.025-0.041	0.034-0.056	0.041-0.068	0.047-0.078	0.057-0.095	0.065-0.108
	1.5 Low Alloy Steel	250 - 350 HB	120-130	0.017-0.029	0.020-0.034	0.025-0.041	0.034-0.056	0.041-0.068	0.047-0.078	0.057-0.095	0.065-0.108
	1.6 Low Alloy Steel	> 350 HB	110-130	0.017-0.029	0.020-0.034	0.025-0.041	0.034-0.056	0.041-0.068	0.047-0.078	0.057-0.095	0.065-0.108
M	2.1 Free Machining Stainless Steel	< 250 HB	90-103	0.019-0.032	0.023-0.038	0.027-0.045	0.037-0.061	0.044-0.074	0.050-0.084	0.062-0.104	0.071-0.118
	2.2 Austenitic Stainless Steel	< 320 HB	90-103	0.019-0.032	0.023-0.038	0.027-0.045	0.037-0.061	0.044-0.074	0.050-0.084	0.062-0.104	0.071-0.118
	2.3 Ferritic and Martensitic Stainless Steel	< 300 HB	65-85	0.013-0.022	0.016-0.026	0.019-0.031	0.026-0.043	0.031-0.051	0.035-0.059	0.044-0.073	0.049-0.081
	2.4 Precipitation Hardened Stainless Steel	320 - 410 HB	63-80	0.013-0.022	0.016-0.026	0.019-0.031	0.026-0.043	0.031-0.051	0.035-0.059	0.044-0.073	0.049-0.081
K	3.1 Lamellar Graphite Cast Iron	< 150 HB	130-140	0.023-0.038	0.027-0.045	0.033-0.055	0.045-0.075	0.054-0.090	0.062-0.103	0.076-0.126	0.086-0.143
	3.2 Lamellar Graphite Cast Iron	150 - 300 HB	120-140	0.019-0.032	0.023-0.038	0.027-0.045	0.037-0.061	0.044-0.074	0.050-0.084	0.062-0.104	0.071-0.118
	3.3 Nodular Graphite, Malleable Cast Iron	< 200 HB	130-140	0.023-0.038	0.027-0.045	0.033-0.055	0.045-0.075	0.054-0.090	0.062-0.103	0.076-0.126	0.086-0.143
	3.4 Nodular Graphite, Malleable Cast Iron	200 - 300 HB	115-140	0.015-0.026	0.018-0.030	0.023-0.038	0.031-0.051	0.037-0.061	0.042-0.070	0.052-0.086	0.058-0.096
Ti	4.1 Titanium unalloyed	< 200 HB	60-70	0.015-0.026	0.018-0.030	0.023-0.038	0.031-0.051	0.037-0.061	0.042-0.070	0.052-0.086	0.058-0.096
	4.2 Titanium alloyed	< 270 HB	50-63	0.013-0.022	0.016-0.026	0.019-0.031	0.026-0.043	0.031-0.051	0.035-0.059	0.044-0.073	0.049-0.081
Ni	5.1 Nickel unalloyed	< 150 HB	30-70	0.019-0.032	0.023-0.038	0.027-0.045	0.037-0.061	0.044-0.074	0.050-0.084	0.062-0.104	0.071-0.118
	5.2 Nickel alloyed	< 270 HB	30-60	0.019-0.032	0.023-0.038	0.027-0.045	0.037-0.061	0.044-0.074	0.050-0.084	0.062-0.104	0.071-0.118
Cu	6.1 Copper	< 100 HB	230-250	0.032-0.053	0.038-0.063	0.053-0.088	0.053-0.088	0.060-0.100	0.060-0.100	0.068-0.113	0.075-0.125
	6.2 Beta Brass, Bronze	< 200 HB	220-240	0.032-0.053	0.038-0.063	0.053-0.088	0.053-0.088	0.060-0.100	0.060-0.100	0.068-0.113	0.075-0.125
	6.3 Alpha Brass	< 200 HB	220-240	0.032-0.053	0.038-0.063	0.053-0.088	0.053-0.088	0.060-0.100	0.060-0.100	0.068-0.113	0.075-0.125
	6.4 High Strength Bronze	< 470 HB	170-190	0.016-0.027	0.019-0.031	0.026-0.044	0.026-0.044	0.030-0.050	0.030-0.050	0.034-0.056	0.038-0.063
N	7.1 Aluminium Magnesium unalloyed	< 100 HB	425-450	0.032-0.053	0.038-0.063	0.075-0.125	0.150-0.250	0.150-0.250	0.150-0.250	0.225-0.375	0.375-0.625
	7.2 Aluminium Alloy < 5% Si	< 150 HB	170-185	0.032-0.053	0.038-0.063	0.075-0.125	0.150-0.250	0.150-0.250	0.150-0.250	0.225-0.375	0.375-0.625
	7.3 Aluminium Alloy 5 to 10% Si	< 120 HB	100-120	0.032-0.053	0.038-0.063	0.075-0.125	0.150-0.250	0.150-0.250	0.150-0.250	0.225-0.375	0.375-0.625
	7.4 Aluminium Alloy > 10% Si		90-110	0.032-0.053	0.038-0.063	0.075-0.125	0.150-0.250	0.150-0.250	0.150-0.250	0.225-0.375	0.375-0.625
Syn	8.1 Duroplastics (short chipping)		230-250	0.011-0.019	0.014-0.023	0.017-0.028	0.023-0.038	0.027-0.045	0.033-0.055	0.044-0.073	0.055-0.091
	8.2 Thermoplastics (long chipping)		220-250	0.011-0.019	0.014-0.023	0.017-0.028	0.023-0.038	0.027-0.045	0.033-0.055	0.044-0.073	0.055-0.091
	8.3 Fibre Reinforced Synthetic Materials		90-100	0.011-0.019	0.014-0.023	0.017-0.028	0.023-0.038	0.027-0.045	0.033-0.055	0.044-0.073	0.055-0.091

fz
 $ap = 1.5 \times d$
 $ae = 0.2 \times d$

For slotting use $fz \times 0.7$
 fz
 $ap = 0.5 \times d$
 $ae = d$

☒ Recommended
☐ Suitable

Material			$\varnothing$	4	5	6	8	10	12	16	20
			Vc m/min	fz (mm/tooth)	fz (mm/tooth)	fz (mm/tooth)	fz (mm/tooth)	fz (mm/tooth)	fz (mm/tooth)	fz (mm/tooth)	fz (mm/tooth)
P	● 1.1 Free Cutting Steel	< 120 HB	140-175	0.033-0.055	0.045-0.075	0.056-0.094	0.064-0.106	0.075-0.125	0.075-0.125	0.090-0.150	0.090-0.150
	● 1.2 Structural Steel	< 200 HB	140-165	0.033-0.055	0.045-0.075	0.056-0.094	0.064-0.106	0.075-0.125	0.075-0.125	0.090-0.150	0.090-0.150
	● 1.5 Low Alloy Steel	250 - 350 HB	120-130	0.023-0.038	0.030-0.050	0.045-0.075	0.060-0.100	0.068-0.113	0.075-0.125	0.083-0.138	0.083-0.138
	● 1.6 Low Alloy Steel	> 350 HB	110-130	0.023-0.038	0.030-0.050	0.045-0.075	0.060-0.100	0.068-0.113	0.075-0.125	0.083-0.138	0.083-0.138
M	● 2.2 Austenitic Stainless Steel	< 320 HB	90-103	0.017-0.028	0.023-0.038	0.030-0.050	0.034-0.056	0.045-0.075	0.049-0.081	0.060-0.100	0.064-0.106
	● 2.4 Precipitation Hardened Stainless Steel	320 - 410 HB	63-80	0.014-0.023	0.018-0.030	0.023-0.038	0.026-0.044	0.032-0.053	0.038-0.063	0.056-0.094	0.064-0.106
K	● 3.1 Lamellar Graphite Cast Iron	< 150 HB	130-140	0.033-0.055	0.045-0.075	0.056-0.094	0.064-0.106	0.075-0.125	0.075-0.125	0.090-0.150	0.090-0.150
	● 3.2 Lamellar Graphite Cast Iron	150 - 300 HB	120-140	0.033-0.055	0.045-0.075	0.056-0.094	0.064-0.106	0.075-0.125	0.075-0.125	0.090-0.150	0.090-0.150
	● 3.3 Nodular Graphite, Malleable Cast Iron	< 200 HB	130-140	0.033-0.055	0.045-0.075	0.056-0.094	0.064-0.106	0.075-0.125	0.075-0.125	0.090-0.150	0.090-0.150
	● 3.4 Nodular Graphite, Malleable Cast Iron	200 - 300 HB	115-140	0.033-0.055	0.045-0.075	0.056-0.094	0.064-0.106	0.075-0.125	0.075-0.125	0.090-0.150	0.090-0.150
Ti	● 4.1 Titanium unalloyed	< 200 HB	60-70	0.015-0.025	0.019-0.031	0.023-0.038	0.026-0.044	0.034-0.056	0.038-0.063	0.060-0.100	0.075-0.125
Ni	● 5.1 Nickel unalloyed	< 150 HB	30-70	0.011-0.019	0.018-0.030	0.021-0.035	0.026-0.044	0.030-0.050	0.034-0.056	0.056-0.094	0.064-0.106
	● 9.1 Hardened Steel	< 32 HRC	110-130	0.023-0.038	0.030-0.050	0.045-0.075	0.060-0.100	0.068-0.113	0.075-0.125	0.083-0.138	0.083-0.138
H	● 9.2 Hardened Steel	33 - 41 HRC	90-100	0.019-0.031	0.026-0.044	0.038-0.063	0.049-0.081	0.053-0.088	0.053-0.088	0.060-0.100	0.060-0.100
	○ 9.3 Hardened Steel	42 - 50 HRC	80-100	0.019-0.031	0.026-0.044	0.038-0.063	0.049-0.081	0.053-0.088	0.053-0.088	0.060-0.100	0.060-0.100

This promotion is valid from 01-31 August 2023 and available on pre-order only.

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