



OSG GROUP COMPANY



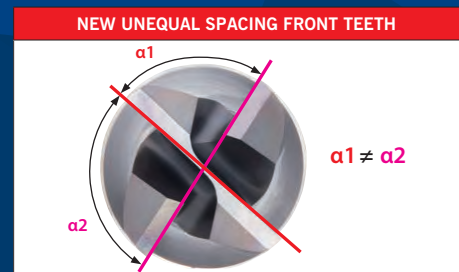
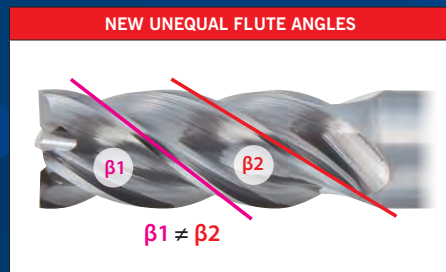
shaping your dreams



VARICUT PRO END MILL RANGE

ANTI-VIBRATION CARBIDE END MILL

1 Enhanced Design and Geometry



2 Specially Adapted Edge Preparation

3 Improved Surface Finish New Coating Technology

4 Size Range 1 to 20mm

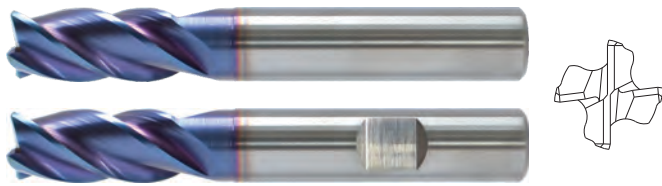
Improved Manufacturing Process resulting in:

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

Introducing the VariCut Pro End Mill Range

- Recommended
- Suitable

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		
●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○



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.

mm	DIN 6527L	SOLID CARBIDE		TYPE UNI		Z 4		COATED
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Diameter	Cutting Length	Maximum Depth Pocket	Overall Length	Shank Diameter	Neck Diameter	Chamfer	Radius	Shank	Code
1 <small>NEW</small>	2.5	-	38	4	-	0.07x45°	-	HA	03VP0100X
1.5 <small>NEW</small>	3.8	-	38	4	-	0.07x45°	-	HA	03VP0150X
2 <small>NEW</small>	5	-	38	4	-	0.1x45°	-	HA	03VP0200X
2.5 <small>NEW</small>	6	-	38	4	-	0.1x45°	-	HA	03VP0250X
3 <small>NEW</small>	8	-	57	6	-	0.15x45°	-	HB	03VP0300X
3 <small>NEW</small>	8	-	57	6	-	0.15x45°	-	HA	03VP0301X
3 <small>NEW</small>	8	-	57	6	-	-	0.2	HA	03VP0302X
3 <small>NEW</small>	8	-	57	6	-	-	0.2	HB	03VP0303X
3 <small>NEW</small>	8	-	57	6	-	-	0.5	HA	03VP0305X
3 <small>NEW</small>	8	-	57	6	-	-	0.5	HB	03VP0306X
4	11	-	57	6	-	0.2x45°	-	HB	03VP0400X
4 <small>NEW</small>	11	-	57	6	-	0.2x45°	-	HA	03VP0401X
4	11	-	57	6	-	-	0.2	HA	03VP0402X
4 <small>NEW</small>	11	-	57	6	-	-	0.2	HB	03VP0403X
4	11	-	57	6	-	-	0.5	HA	03VP0405X
4 <small>NEW</small>	11	-	57	6	-	-	0.5	HB	03VP0406X
5	13	-	57	6	-	0.2x45°	-	HB	03VP0500X
5 <small>NEW</small>	13	-	57	6	-	0.2x45°	-	HA	03VP0501X
5	13	-	57	6	-	-	0.2	HA	03VP0502X
5 <small>NEW</small>	13	-	57	6	-	-	0.2	HB	03VP0503X
5	13	-	57	6	-	-	0.5	HA	03VP0505X
5 <small>NEW</small>	13	-	57	6	-	-	0.5	HB	03VP0506X
6	13	18	57	6	5.8	0.2x45°	-	HB	03VP0600X
6 <small>NEW</small>	13	18	57	6	5.8	0.2x45°	-	HA	03VP0601X
6	13	18	57	6	5.8	-	0.2	HA	03VP0602X
6 <small>NEW</small>	13	18	57	6	5.8	-	0.2	HB	03VP0603X
6	13	18	57	6	5.8	-	0.5	HA	03VP0605X
6 <small>NEW</small>	13	18	57	6	5.8	-	0.5	HB	03VP0606X
8	19	24	63	8	7.7	0.25x45°	-	HB	03VP0800X
8 <small>NEW</small>	19	24	63	8	7.7	0.25x45°	-	HA	03VP0801X
8	19	24	63	8	7.8	-	0.2	HA	03VP0802X

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Diameter	Cutting Length	Maximum Depth Pocket	Overall Length	Shank Diameter	Neck Diameter	Chamfer	Radius	Shank	Code
... from previous page									
8 <small>NEW</small>	19	24	63	8	7.8	-	0.2	HB	03VP0803X
8	19	24	63	8	7.8	-	0.5	HA	03VP0805X
8 <small>NEW</small>	19	24	63	8	7.8	-	0.5	HB	03VP0806X
10	22	32	72	10	9.7	0.25x45°	-	HB	03VP1000X
10 <small>NEW</small>	22	32	72	10	9.7	0.25x45°	-	HA	03VP1001X
10	22	32	72	10	9.8	-	0.3	HA	03VP1003X
10 <small>NEW</small>	22	32	72	10	9.8	-	0.3	HB	03VP1004X
10	22	32	72	10	9.8	-	0.5	HA	03VP1005X
10 <small>NEW</small>	22	32	72	10	9.8	-	0.5	HB	03VP1006X
12	26	36	83	12	11.6	0.3x45°	-	HB	03VP1200X
12 <small>NEW</small>	26	36	83	12	11.6	0.3x45°	-	HA	03VP1201X
12	26	36	83	12	11.8	-	0.5	HA	03VP1205X
12 <small>NEW</small>	26	36	83	12	11.8	-	0.5	HB	03VP1206X
12	26	36	83	12	11.8	-	1	HA	03VP1210X
12 <small>NEW</small>	26	36	83	12	11.8	-	1	HB	03VP1211X
16	32	42	92	16	15.5	0.4x45°	-	HB	03VP1600X
16 <small>NEW</small>	32	42	92	16	15.5	0.4x45°	-	HA	03VP1601X
16	32	42	92	16	15.8	-	1	HA	03VP1610X
16 <small>NEW</small>	32	42	92	16	15.8	-	1	HB	03VP1611X
16	32	42	92	16	15.8	-	2	HA	03VP1620X
16 <small>NEW</small>	32	42	92	16	15.8	-	2	HB	03VP1621X
20	38	48	104	20	19.5	0.4x45°	-	HB	03VP2000X
20 <small>NEW</small>	38	48	104	20	19.5	0.4x45°	-	HA	03VP2001X
20	38	48	104	20	19.8	-	1	HA	03VP2010X
20 <small>NEW</small>	38	48	104	20	19.8	-	1	HB	03VP2011X
20	38	48	104	20	19.8	-	2	HA	03VP2020X
20 <small>NEW</small>	38	48	104	20	19.8	-	2	HB	03VP2021X

Description	Code
Solid Carbide 4 Flute VariCut Pro End Mill Set	03VP0000X
THIS SET CONTAINS:	
5mm - 03VP0500X, 6mm - 03VP0600X, 8mm - 03VP0800X,	
10mm - 03VP1000X, 12mm - 03VP1200X	



Description	Code
Solid Carbide 4 Flute VariCut Pro End Mill Set	03VP0001X
THIS SET CONTAINS:	
6mm - 03VP0600X, 8mm - 03VP0800X, 10mm - 03VP1000X,	
12mm - 03VP1200X, 16mm - 03VP1600X	



OSG GROUP COMPANY *shaping your dreams*

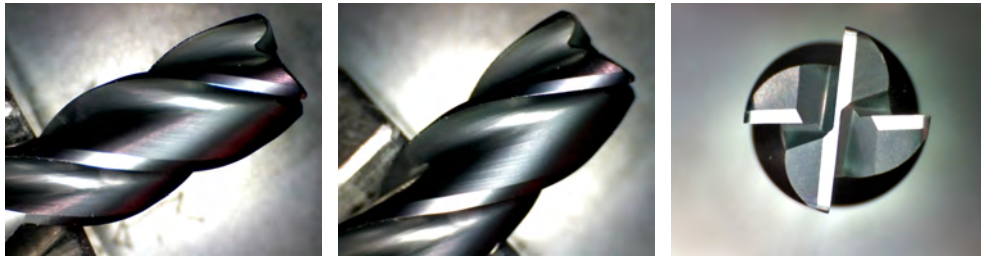
V A R I C U T P R O E N D M I L L R A N G E

TEST RESULTS

**MAKING
MANUFACTURING
BETTER!**

10mm in **M200 Alloy Steel** after 60 metres, 1.5xD depth of cut,
Side milling with 2mm stepover, $V_c = 120\text{m/min}$, Feed = 0.090mm/tooth

03VP

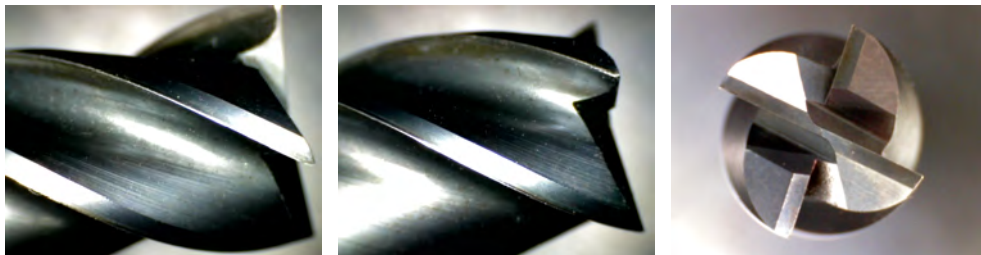


Competitor

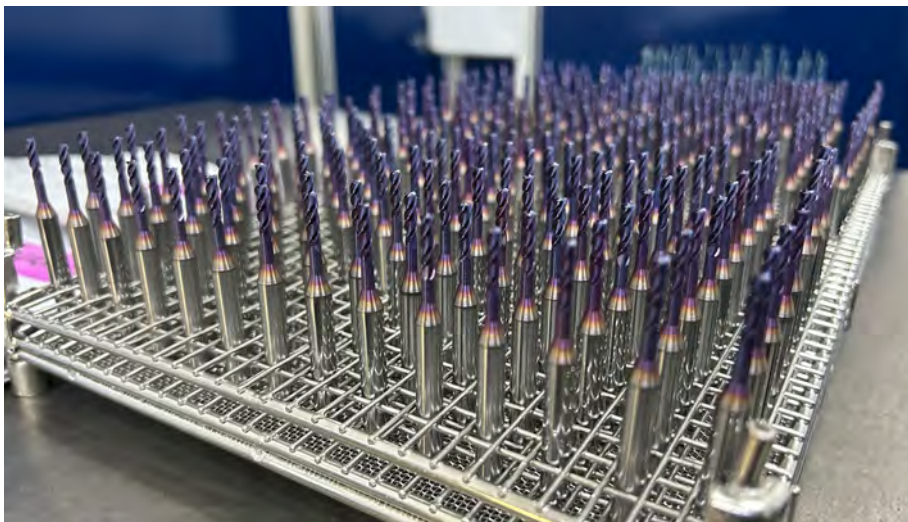


10mm in **316 Stainless Steel** after 60 metres, 1.5xD depth of cut,
Side milling with 2mm stepover, $V_c = 80\text{m/min}$, Feed = 0.057mm/tooth

03VP



Competitor





Manufacturers & Suppliers
of Drills, Reamers, End Mills,
Bore Cutters, Taps & Dies,
Toolbits, Solid Carbide Tooling,
Carbide Insert Tooling,
Custom Tools and
Surface Coatings

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ISO 9001

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