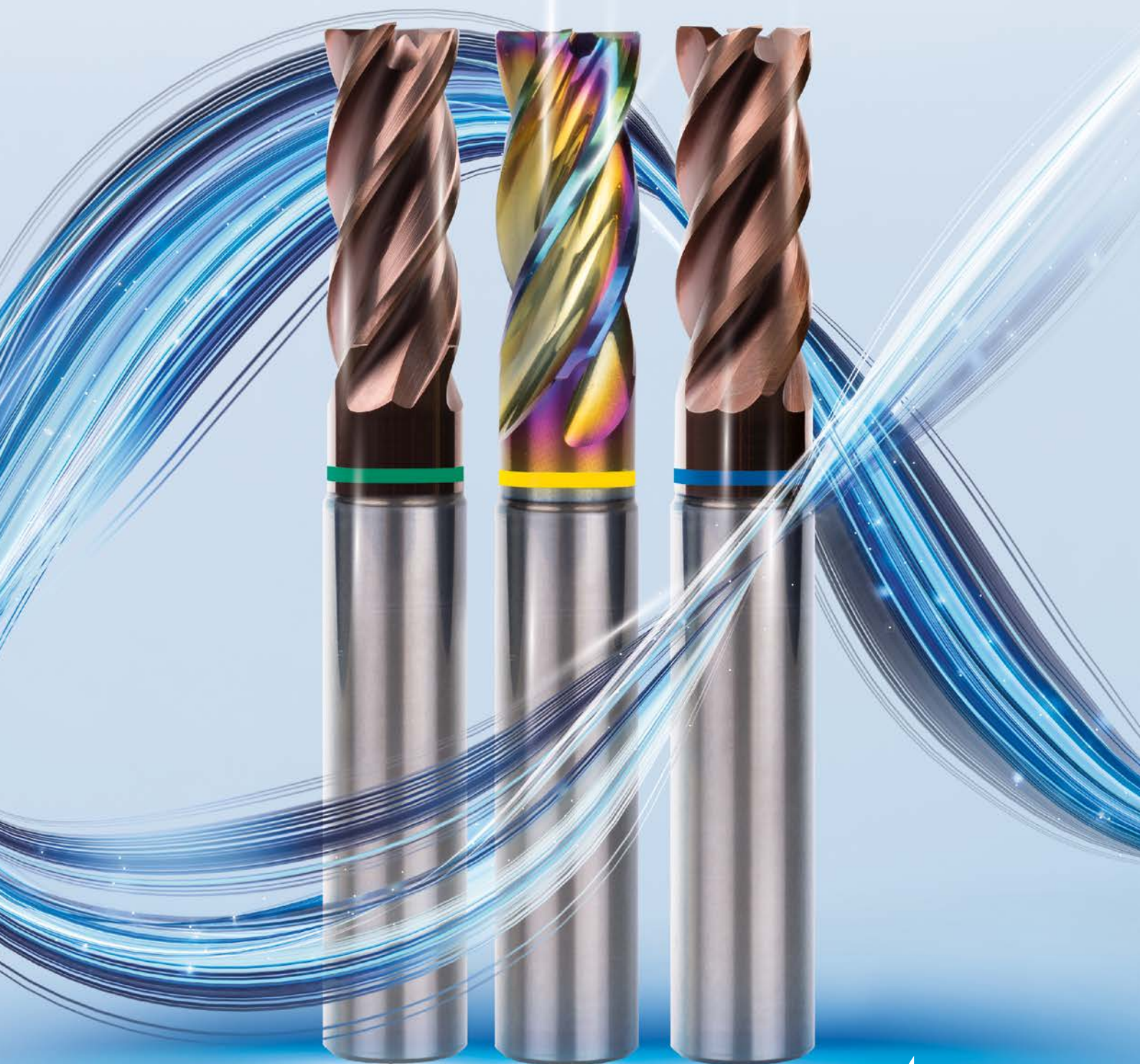


Speedcut Alpha



maykestag

PERFORMANCE
IN PRECISION

Speedcut Alpha

THE FUTURE IS NOW!

New requirements, faster processes and better results. All these changes have an impact on the world of machining. The Speedcut Alpha line represents the latest generation of Maykestag-tools and sets new standards in efficiency and quality.

A NEW GENERATION IN A CLASS OF ITS OWN

ALLROUND	SPECIALISTS IN QUALITY LEVELS AND THEIR DEVELOPMENT
	NexGen
Turbo  Cut	 Speedcut 4.0 → Speedcut  Alpha
	 Speedcut →  Speedcut ⁺

WHERE ARE OUR TOOLS USED



GENERAL CONTRACT
MANUFACTURING



AGRICULTURAL
SUPPLIERS



GENERAL
TOOLMAKING



MEDICAL
TECHNOLOGY



FORGED PARTS
MANUFACTURERS



AUTOMOTIVE MANUFACT-
URERS AND SUPPLIERS



AIRCRAFT
INDUSTRY



HYDRAULICS MANUFAC-
TURERS AND SUPPLIERS



ALUMINIUM
ALUMINIUM INDUSTRY



PLASTICS
INDUSTRY



MECHANICAL
ENGINEERING



AND MANY
MORE



// www.mayspeedguide.com



THE MATERIAL

ALUMINUM

Discover the future of sustainable progress with aluminum! As an indispensable raw material, aluminum is playing an increasingly important role in our modern world. Its outstanding properties make it an invaluable element in the circular economy of materials. With 100% recyclability without any compromise on quality, aluminum is a true pioneer in environmental friendliness. It enables seamless integration into the materials cycle and thus makes a significant contribution to reducing waste and environmental impact.

LIGHT METAL

Approx. one third of the density of steel

CORROSION RESISTANT

Natural oxide layer protects against corrosion

GOOD ELECTRICAL CONDUCTOR

Frequently used in the electronics and electrical industry

FLEXIBLE & MALLEABLE

Suitable for packaging, vehicle bodies & aircraft



THE MATERIAL GROUP

STEEL & HIGH-ALLOY STEEL

As one of the most important materials of our time, steel plays a central role in countless applications - from mechanical and automotive engineering to construction. Its outstanding properties such as high strength, versatility and durability make it indispensable for modern production processes. Thanks to innovative alloys and heat treatments, steel can be optimally adapted to specific requirements, making it a high-performance and reliable material. In addition, steel is 100% recyclable and enables a resource-conserving circular economy that helps to reduce waste and environmental pollution.

HIGH STRENGTH & RESILIENCE

Robust and durable for demanding applications

OPTIMUM MACHINABILITY

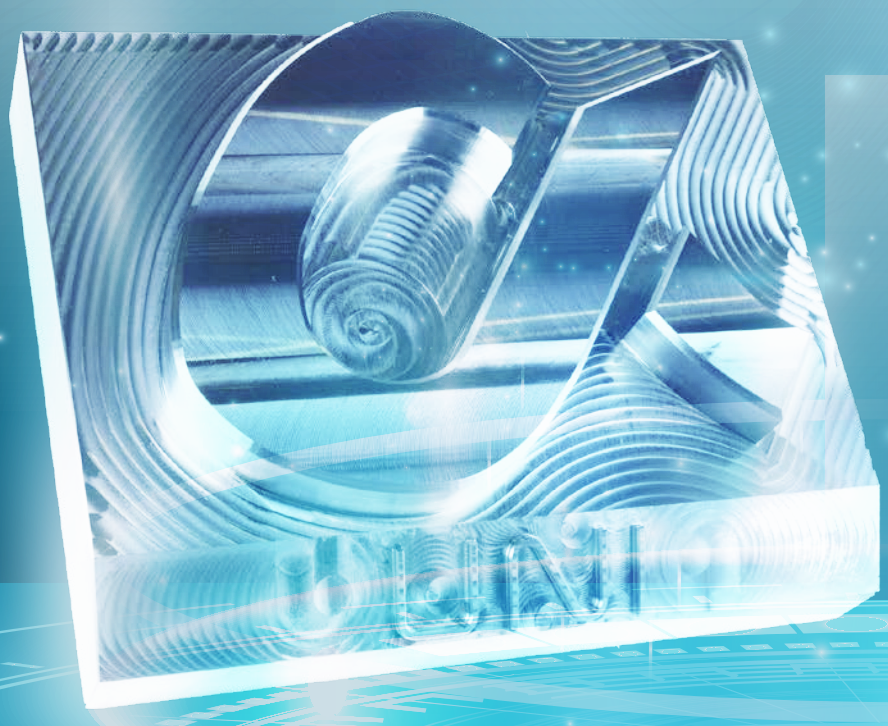
Good machinability depending on the alloy, with special adaptations for hardened steels

EFFICIENT HEAT DISSIPATION

Supports cooling processes and extends tool life

VERSATILE APPLICATION

Ideal for mechanical engineering, automotive engineering and construction



THE MATERIAL

STAINLESS STEEL

As an indispensable component of modern technologies, stainless steel impresses with its exceptional corrosion resistance, durability and versatility. Whether in the food industry, medical technology or construction - its resistance to moisture, chemicals and extreme temperatures makes it the first choice for demanding applications. Its resistance and performance is further optimised through targeted alloying with chromium, nickel and molybdenum. Stainless steel is also fully recyclable and makes a significant contribution to a sustainable and resource-conserving circular economy.

HIGH CORROSION RESISTANCE

Through ≥ 10.5 % chromium

EASIER PROCESSING

of ferritic and martensitic steels

OPTIMISED MACHINING

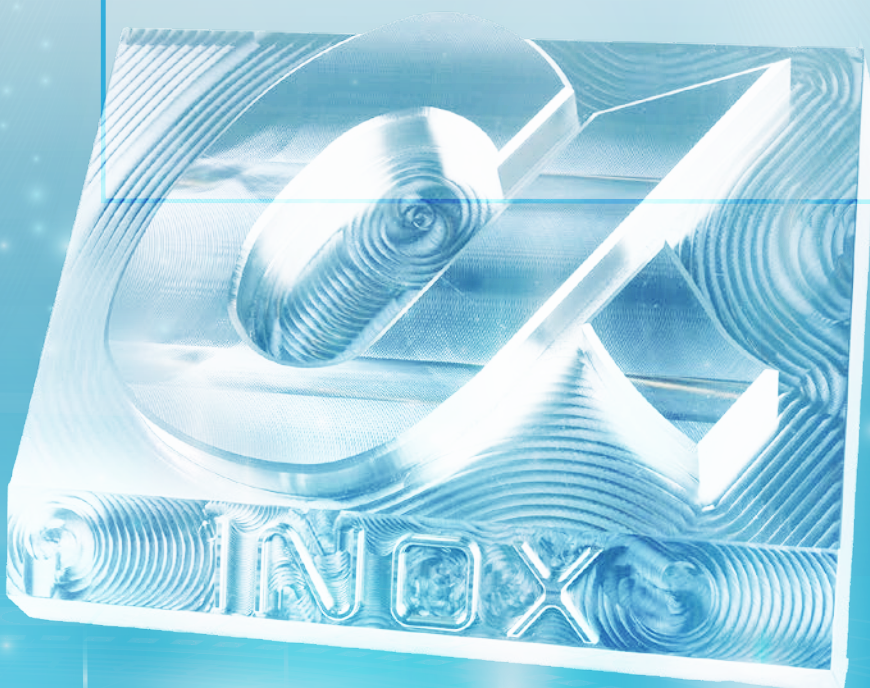
With special alloys [e.g. 1.4305]

REQUIRES CUSTOMISED PROCESSING

Due to low thermal conductivity

VERSATILE APPLICATION

Use in the food industry, medical technology, mechanical engineering



maykestagg
PERFORMANCE
IN PRECISION

SPEEDCUT ALPHA **ALU**

The Speedcut Alpha ALU is a specially developed milling cutter for machining aluminum materials. It offers outstanding performance and precision thanks to optimisations in areas such as additional grinding, helix angle, number of teeth, chip space, surface and flute run-out radius. These improvements enable faster processes and perfect results in aluminum machining. The Speedcut Alpha ALU represents the latest generation of Maykestag tools and sets new standards in efficiency and quality.



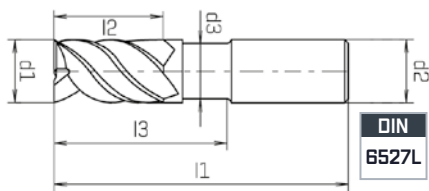
- + Higher metal removal rate
- + Long service life
- + Low vibration and smooth running
- + High process reliability
- + Excellent surface quality
- + Optimised chip formation

COATING SPECTRADUR

Our latest coating is as versatile as our milling cutter itself. This special finish highlights and supports the strengths of the new Speedcut Alpha even more.

The innovative coating technology provides ultra-thin layers that ensure extremely sharp cutting edges and an extremely smooth surface, minimising material adhesion. The high hardness of the coating ensures efficient protection against wear. This technology is particularly suitable for precise applications with tight tool tolerances.

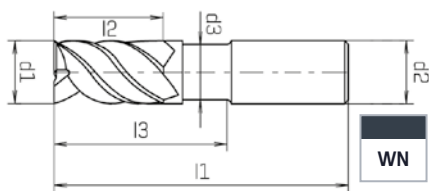




SPECTRADUR

SPECTRADUR

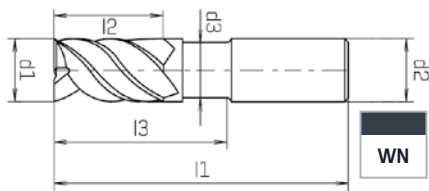
d1 h10 mm	d2 h6 mm	d3 mm	l1 mm	l2 mm	l3 mm		Z	Code 8257 Item no.	Code 8357 Item no.
3,00	6,00	2,90	57	8	14	0,08	4	0825700300100	0835700300100
4,00	6,00	3,60	57	11	16	0,10	4	0825700400100	0835700400100
5,00	6,00	4,60	57	13	18	0,13	4	0825700500100	0835700500100
6,00	6,00	5,50	57	13	21	0,15	4	0825700600100	0835700600100
8,00	8,00	7,50	63	19	27	0,20	4	0825700800100	0835700800100
10,00	10,00	9,50	72	22	32	0,25	4	0825701000100	0835701000100
12,00	12,00	11,50	83	26	38	0,30	4	0825701200100	0835701200100
12,00	12,00	11,50	83	28	38	0,15	4		0835701210100
16,00	16,00	15,00	92	32	44	0,40	4	0825701600100	0835701600100
16,00	16,00	15,00	100	38	52	0,20	4		0835701610100
20,00	20,00	19,00	104	38	54	0,50	4	0825702000100	0835702000100
20,00	20,00	19,00	105	44	56	0,25	4		0835702010100
25,00	25,00	24,00	120	45	62	0,65	4	0825702500100	0835702500100
25,00	25,00	24,00	125	53	68	0,30	4		0835702510100



SPECTRADUR

SPECTRADUR

d1 h10 mm	d2 h6 mm	d3 mm	l1 mm	l2 mm	l3 mm		Z	Code 8277 Item no.	Code 8377 Item no.
3,00	6,00	2,80	60	8	18	0,08	4	0827700300100	0837700300100
4,00	6,00	3,80	60	11	21	0,10	4	0827700400100	0837700400100
5,00	6,00	4,70	62	13	26	0,13	4	0827700500100	0837700500100
6,00	6,00	5,60	62	13	26	0,15	4	0827700600100	0837700600100
8,00	8,00	7,50	70	19	34	0,20	4	0827700800100	0837700800100
10,00	10,00	9,50	80	22	40	0,25	4	0827701000100	0837701000100
12,00	12,00	11,50	95	26	50	0,30	4	0827701200100	0837701200100
12,00	12,00	11,50	95	28	50	0,15	4		0837701210100
16,00	16,00	15,50	105	32	57	0,40	4	0827701600100	0837701600100
16,00	16,00	15,50	105	38	57	0,20	4		0837701610100
20,00	20,00	19,50	124	38	71	0,50	4	0827702000100	0837702000100
20,00	20,00	19,50	124	44	71	0,25	4		0837702010100



SPECTRADUR

SPECTRADUR

d1 h10 mm	d2 h6 mm	d3 mm	l1 mm	l2 mm	l3 mm		Z	Code 8287 Item no.	Code 8387 Item no.
3,00	6,00	2,80	60	8	20	0,08	4	0828700300100	0838700300100
4,00	6,00	3,80	65	11	26	0,10	4	0828700400100	0838700400100
5,00	6,00	4,70	76	13	39	0,13	4	0828700500100	0838700500100
6,00	6,00	5,60	76	13	39	0,15	4	0828700600100	0838700600100
8,00	8,00	7,50	100	19	62	0,20	4	0828700800100	0838700800100
10,00	10,00	9,50	100	22	58	0,25	4	0828701000100	0838701000100
12,00	12,00	11,50	120	26	73	0,30	4	0828701200100	0838701200100
12,00	12,00	11,50	120	28	73	0,15	4		0838701210100
16,00	16,00	15,50	150	32	100	0,40	4	0828701600100	0838701600100
16,00	16,00	15,50	150	38	100	0,20	4		0838701610100
20,00	20,00	19,50	150	38	100	0,50	4	0828702000100	0838702000100
20,00	20,00	19,50	150	44	100	0,25	4		0838702010100

Speedcut Alpha

HPC+ end mill Speedcut Alpha Aluminum, long - XXL, exempted, four-cutter

Area of application:

HPC+ high-performance milling cutter ideal for machining aluminum materials [for both cast and wrought alloys]. Excellent chip removal due to extremely smooth surfaces. Spectradur coating for increased tool life and minimal material adhesion. Highest chip removal rate and best surface quality thanks to unique cutting edge geometry.



maykestag

PERFORMANCE
IN PRECISION

SPEEDCUT ALPHA **UNI**

The Speedcut Alpha UNI is the successor to the Speedcut 4.0 and optimises the cutting geometry and helix angle for higher cutting speeds, shorter machining times and longer tool life. As part of the Speedcut Alpha line, it sets new standards in machining.



MAXIMUM SERVICE LIFE

The coating provides reliable protection against wear and extends the service life of the tool.

LONGER EXCHANGE INTERVAL

Fewer tool changes thanks to a significantly longer tool life - efficient and economical.

HIGH PERFORMANCE IN THE HEAT

Perfect for high-speed machining thanks to excellent thermal stability.

PERFECT SURFACE QUALITY

Ensures flawless results even with difficult materials.

EFFICIENT CHIP REMOVAL

The ultra-smooth, low-friction surface reduces heat generation and improves the material flow.

RELIABLE PERFORMANCE

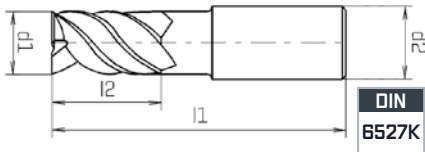
Increased process reliability even in demanding machining environments.

MAXDUR COATING

The coating, already familiar from our Turbo-Cut, offers high wear resistance and thermal stability, extends tool life and optimises chip removal. It enables precise machining with excellent surface quality - even at high cutting speeds.



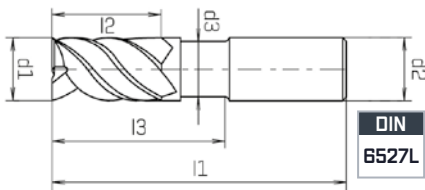
HPC+ end mill Speedcut Alpha Universal, short - long, optional, four flutes, unequal helix



MAXDUR

MAXDUR

d1 _{h10} mm	d2 _{h6} mm	l1 mm	l2 mm		Z	Code 8307 Item no.	Code 8407 Item no.
3,00	6,00	50	5	0,1	4	0830700300100	0840700300100
4,00	6,00	54	8	0,1	4	0830700400100	0840700400100
5,00	6,00	54	9	0,15	4	0830700500100	0840700500100
6,00	6,00	54	10	0,15	4	0830700600100	0840700600100
8,00	8,00	57	12	0,2	4	0830700800100	0840700800100
10,00	10,00	66	14	0,25	4	0830701000100	0840701000100
12,00	12,00	73	16	0,3	4	0830701200100	0840701200100
16,00	16,00	82	22	0,4	4	0830701600100	0840701600100
20,00	20,00	92	26	0,5	4	0830702000100	0840702000100



MAXDUR

MAXDUR

d1 _{h10} mm	d2 _{h6} mm	d3 mm	l1 mm	l2 mm	l3 mm		Z	Code 8327 Item no.	Code 8427 Item no.
3,00	6,00	2,90	57	8	14	0,1	4	0832700300100	0842700300100
4,00	6,00	3,60	57	11	16	0,1	4	0832700400100	0842700400100
5,00	6,00	4,60	57	13	18	0,15	4	0832700500100	0842700500100
6,00	6,00	5,50	57	13	21	0,15	4	0832700600100	0842700600100
8,00	8,00	7,50	63	19	27	0,2	4	0832700800100	0842700800100
10,00	10,00	9,50	72	22	32	0,25	4	0832701000100	0842701000100
12,00	12,00	11,50	83	26	38	0,3	4	0832701200100	0842701200100
16,00	16,00	15,00	92	32	44	0,4	4	0832701600100	0842701600100
20,00	20,00	19,00	104	38	54	0,5	4	0832702000100	0842702000100

Area of application:

Solid carbide high-performance milling cutter for maximum efficiency: One tool for finishing, rough finishing and roughing. The uneven helix pitch ensures low-vibration running and excellent surface quality. With the Alpha generation, you can achieve a new dimension in cutting performance.



SPEEDCUT ALPHA **INOX**

The Speedcut Alpha INOX was developed for precise and efficient machining of stainless steels. Optimised geometry and coating ensure longer tool life, reduced heat generation and smooth processes. It sets new standards in stainless steel machining.



OPTIMISED FOR MACHINING

High wear resistance, precision and long service life even under demanding conditions.

MULTI TASK CUTTING (MTC)

Versatile use for all steels up to approx. 45 HRC.

ALL-IN-ONE SOLUTION

Fine finishing, finishing, rough finishing and roughing with just one tool.

INNOVATIVE CUTTING EDGE GEOMETRY

Unequal helix angle and pitch ensure low-vibration processes and excellent surface quality.

MAXIMUM EFFICIENCY

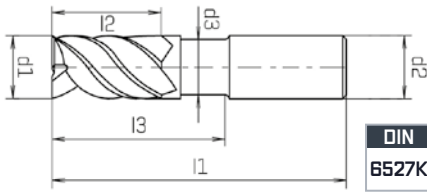
High cutting performance with increased process reliability and tool life.

MAXDUR COATING

This coating offers optimum wear resistance and heat resistance, which means that tools achieve a significantly longer service life even when machining stainless steel. Thanks to the low friction, it ensures efficient chip removal and enables an excellent surface finish while ensuring process reliability.



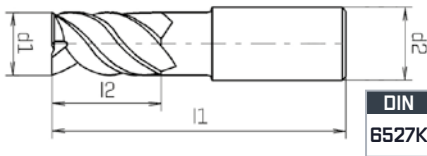
HPC+ end mill Speedcut Alpha Inox, short - long, relieved, four flutes, unequal helix



MAXDUR

MAXDUR

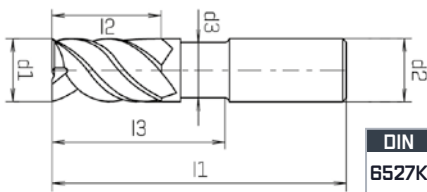
d1 _{h10} mm	d2 _{h6} mm	d3 mm	l1 mm	l2 mm	l3 mm	Z	Code 8337 Item no.	Code 8437 Item no.
6,00	6,00	5,60	54	10	13	0,15 4	0833700600100	0843700600100
8,00	8,00	7,50	57	12	19	0,2 4	0833700800100	0843700800100
10,00	10,00	9,50	66	14	22	0,25 4	0833701000100	0843701000100
12,00	12,00	11,50	73	16	26	0,3 4	0833701200100	0843701200100
16,00	16,00	15,50	82	22	32	0,4 4	0833701600100	0843701600100



MAXDUR

MAXDUR

d1 _{h10} mm	d2 _{h6} mm	l1 mm	l2 mm	Z	Code 8367 Item no.	Code 8467 Item no.
2,00	4,00	40	5	0,08 4	0836700200100	
3,00	6,00	57	8	0,1 4	0836700300100	0846700300100
4,00	6,00	57	11	0,1 4	0836700400100	0846700400100
5,00	6,00	57	13	0,15 4	0836700500100	0846700500100
6,00	6,00	57	13	0,15 4	0836700600100	0846700600100
8,00	8,00	63	19	0,2 4	0836700800100	0846700800100
10,00	10,00	72	22	0,25 4	0836701000100	0846701000100
12,00	12,00	83	26	0,3 4	0836701200100	0846701200100



MAXDUR

MAXDUR

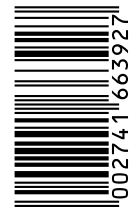
d1 _{h10} mm	d2 _{h6} mm	d3 mm	l1 mm	l2 mm	l3 mm	Z	Code 8477 Item no.	Code 8577 Item no.
3,00	6,00	2,80	57	8	20	0,1 4	0847700300100	0857700300100
4,00	6,00	3,80	57	11	21	0,1 4	0847700400100	0857700400100
5,00	6,00	4,70	57	13	22	0,15 4	0847700500100	0857700500100
6,00	6,00	5,60	57	13	23	0,15 4	0847700600100	0857700600100
8,00	8,00	7,50	63	19	29	0,2 4	0847700800100	0857700800100
10,00	10,00	9,50	72	22	34	0,25 4	0847701000100	0857701000100
12,00	12,00	11,50	83	26	40	0,3 4	0847701200100	0857701200100
16,00	16,00	15,50	92	32	46	0,4 4	0847701600100	0857701600100
20,00	20,00	19,50	104	38	56	0,5 4	0847702000100	0857702000100

Area of application:

High-performance solid carbide milling cutter for maximum efficiency when machining austenitic stainless steels: Roughing, rough finishing and finishing with just one tool. The uneven helix pitch ensures low-vibration running and excellent surface quality. The Alpha generation redefines cutting performance.



Presented by:



Art.Nr.: 0099900304100 9 002741 663927

ÖSTERREICH

ALPEN-MAYKESTAG GmbH

Urstein Nord 67 | A-5412 Puch / Salzburg
Tel: +43 (0) 662 449 01-0
Fax: +43 (0) 662 449 01-110
Fax Export: +43 (0) 662 449 01-130
verkauf@a-mk.com
export@a-mk.com

DEUTSCHLAND

ALPEN-MAYKESTAG GmbH

Dechenstraße 15 a | D-40878 Ratingen
Tel.: +49 (0) 2102 7066514
verkauf@a-mk.com

ITALIA

ALPEN-MAYKESTAG s.r.l.

Via Volontari Del Sangue 54 | I-20093 Cologno Monzese (MI)
Tel: +39 (02) 48 84 30 38
Fax: +39 (02) 45 70 14 19
info@a-mk.it

ČESKÁ REPUBLIKA

ALPEN-MAYKESTAG s.r.o.

U Koruny 414 | CZ-50002 Hradec Králové
Tel. +420 495 58 23 22
Fax +420 495 58 23 25
info@a-mk.cz

MAGYARORSZÁG

ALPEN-MAYKESTAG Kft.

Gyár utca 5 | H-8500 Pápa
Tel. +36 (0) 89 51 15 15
Fax +36 (0) 89 51 15 16
info@a-mk.hu