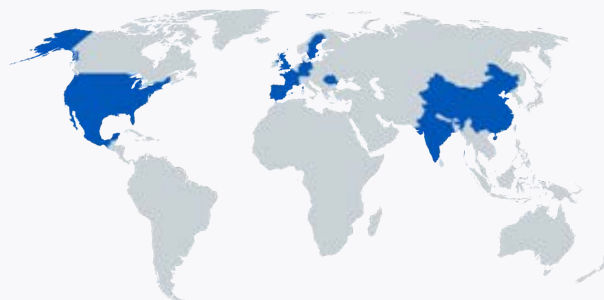




Tungsten Carbide Burrs

Product Catalog

**Osborn
worldwide.**



Osborn offers the best solutions for your mechanical surface treatment challenges. Our experts are highly trained to serve you with the best off-the-shelf or customized tools, when and where you need them. Unlike others, we help you optimize your process, meet the highest quality and safety requirements and reduce your costs.

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Recommended application speed (RPM)

	Soft Material		Hard Material	
	- unalloyed steel - cast steel - cast iron		- alloy steel - tool steel - rust and acid resistant steel	
	Cutting Speed (m/min)		Cutting Speed (m/min)	
	min. 450	max. 600	min. 250	max. 350
Ø Head (KD)	RPM		RPM	
3	48.000	64.000	27.000	37.000
6	24.000	32.000	13.000	19.000
8	18.000	24.000	10.000	14.000
9,5	15.000	20.000	8.000	12.000
10	14.000	19.000	8.000	11.000
12	12.000	16.000	7.000	9.000
12,7	11.000	15.000	6.000	9.000
16	9.000	12.000	5.000	7.000

Recommendations

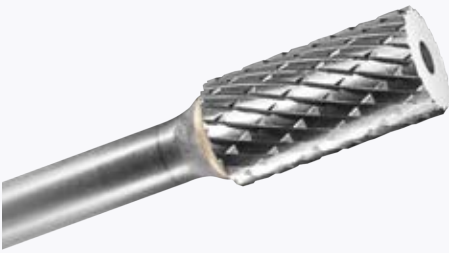
Problem	Solution
Tool impact/rattle	- Increase clamping length (min. 2/3 of shank length) - Reduce contact pressure - Reduce surface contact (max. 1/3 of head circumference) - Clamp workpiece with less projection
Discolouration of the tool in the transition from milling head to shank	- Reduce speed (see RPM) - Reduce contact pressure - Reduce surface contact (max. 1/3 of head circumference)
Head detaches from the shank	
Problems with broken teeth and premature wear	- Avoid impact loads - Increase clamping length (min. 2/3 of shank length) - Reduce contact pressure - Reduce surface contact (max. 1/3 of head circumference) - Clamp workpiece with less projection

Tailor-made solutions

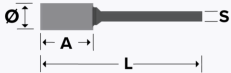
You need a different cut, shaft length or different dimensions?

We will be pleased to work out a tailor-made solution for your machining process.

Please contact us: service@osborn.de



Appearance can vary from picture depending on variant.



EUGMCB001 | SUPERIOR ★★★★★

Carbide burr ZYA Z6

Carbide burr with cylindric shape and Z6 tooth system.

- Suitable for tough applications in the industry or craftsmanship
- Enables to mill out narrow contours and rough machining
- Allows applications with limited RPM
- Clean and smooth finish
- Also available with Z3 (single toothing) and Z4 (staggered toothing)

Application: Carbide burrs with Z6 toothing fitting for steel, stainless steel, grey cast iron, titan and for common weld seams

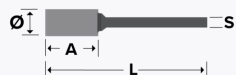


Also available as a practical set. More on page 15

Ø	S	A	L	RPM max.		Item Number
3	3	13	40	70000	1	● 0013-080 040
6	3	13	43	40000	1	● 0003-080 043
6	6	16	50	40000	1	● 0013-080 050
8	6	20	65	30000	1	● 0003-080 065
10	6	20	65	25000	1	● 0013-080 065
12.7	6	25	70	18000	1	● 0063-080 070



Appearance can vary from picture depending on variant.



EUGMCB002 | SUPERIOR ★★☆☆☆

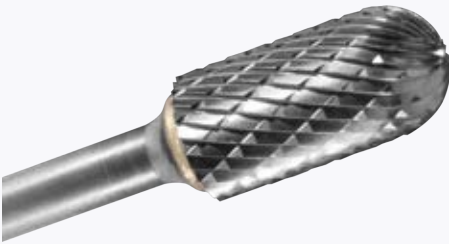
Carbide burr ZYA-S Z6

Carbide burr with cylindric shape, spur gearing and Z6 tooth system.

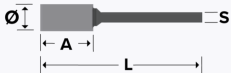
- Suitable for tough applications in the industry or craftsmanship
- Allows applications with limited RPM
- Much longer lifetime
- Clean and smooth finish
- Especially useful for edge rounding
- Also available with Z3 (single toothing) and Z4 (staggered toothing)

Application: Carbide burrs with Z6 toothing fitting for steel, stainless steel, grey cast iron, titan and for common weld seams

Ø	S	A	L	RPM max.		Item Number
3	3	13	40	70000	1	● 0023-080 040
6	3	13	43	40000	1	● 0013-080 043
6	6	16	50	40000	1	● 0023-080 050
8	6	20	65	30000	1	● 0023-080 065
10	6	20	65	25000	1	● 0033-080 065
12.7	6	25	70	18000	1	● 0003-080 070



Appearance can vary from picture depending on variant.



EUGMCB003 | SUPERIOR ★★☆☆☆

Carbide burr WRC Z6

Carbide burr with ball-cylindric shape and Z6 tooth system.

- Suitable for tough applications in the industry or craftsmanship
- Fast edge rounding for inner and outer radii
- Realization of faster process and manufacturing times
- Clean and smooth finish

Application: Carbide burrs with Z6 toothing fitting for steel, stainless steel, grey cast iron, titan and for common weld seams

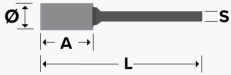


Also available as a practical set. More on page 15

Ø	S	A	L	RPM max.		Item Number
3	3	13	40	70000	1	● 0033-080 040
6	3	13	43	40000	1	● 0023-080 043
6	6	16	50	40000	1	● 0033-080 050
8	6	20	65	30000	1	● 0043-080 065
10	6	20	65	25000	1	● 0053-080 065
12.7	6	25	70	18000	1	● 0013-080 070



Appearance can vary from picture depending on variant.



EUGMCB004 | SUPERIOR ★★★★★

Carbide burr KUD Z6

Carbide burr with ball shape and Z6 tooth system.

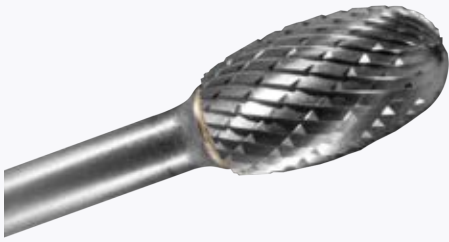
- Suitable for tough applications in the industry or craftsmanship
- Especially useful for processing bores, radii and complex workpiece geometries
- Realization of faster process and manufacturing times
- Clean and smooth finish

Application: Carbide burrs with Z6 toothing fitting for steel, stainless steel, grey cast iron, titan and for common weld seams

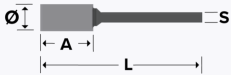


Also available as a practical set. More on page 15

Ø	S	A	L	RPM max.		Item Number
3	3	2.8	40	70000	1	● 0043-080 040
6	3	5	39	40000	1	● 0003-080 039
6	6	5	50	40000	1	● 0043-080 050
8	6	6.5	51	30000	1	● 0003-080 051
10	6	9	54	25000	1	● 0003-080 054
12	6	11	54	18000	1	● 0013-080 054
16	6	14	59	13000	1	● 0003-080 059



Appearance can vary from picture depending on variant.



EUGMCB005 | SUPERIOR ★★★★★

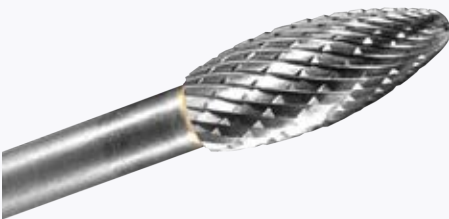
Carbide burr TRE Z6

Carbide burr with drop shape and Z6 tooth system.

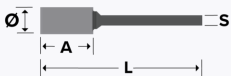
- Suitable for tough applications in the industry or craftsmanship
- Enables to mill out narrow contours and rough machining
- Much longer lifetime
- Especially useful for complexe surfaces and shapes

Application: Carbide burrs with Z6 toothing fitting for steel, stainless steel, grey cast iron, titan and for common weld seams

Ø	S	A	L	RPM max.		Item Number
3	3	7	40	70000	1	● 0053-080 040
6	3	10	40	40000	1	● 0063-080 040
6	6	16	50	40000	1	● 0053-080 050
8	6	13	58	30000	1	● 0003-080 058
9.5	6	16	61	28000	1	● 0003-080 061
12.7	6	22	67	18000	1	● 0003-080 067



Appearance can vary from picture depending on variant.



EUGMCB006 | SUPERIOR ★★★★★

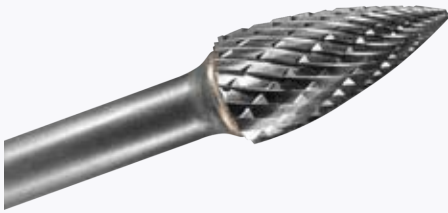
Carbide burr FLF Z6

Carbide burr with flame shape and Z6 tooth system.

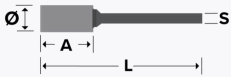
- Suitable for tough applications in the industry or craftsmanship
- Ideal for deburring or milling out bores
- Enables precise processing of weld seams
- Clean and smooth finish
- Ideal for position accurate applications and filigree workpieces

Application: Carbide burrs with Z6 toothing fitting for steel, stainless steel, grey cast iron, titan and for common weld seams

Ø	S	A	L	RPM max.		Item Number
3	3	8	40	70000	1	● 0073-080 040
6	3	13	43	40000	1	● 0033-080 043
6	6	18	50	40000	1	● 0063-080 050
8	6	20	65	30000	1	● 0063-080 065
10	6	25	70	25000	1	● 0023-080 070
12.7	6	32	77	18000	1	● 0003-080 077



Appearance can vary from picture depending on variant.



EUGMCB007 | SUPERIOR ★★★★★

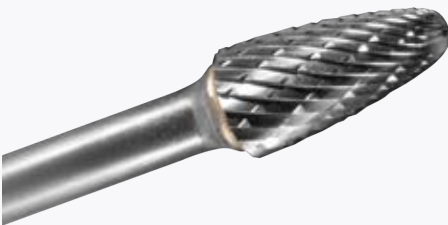
Carbide burr SPG Z6

Carbide burr with ogive shape and Z6 tooth system.

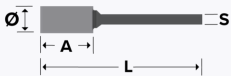
- Suitable for tough applications in the industry or craftsmanship
- Ideal for small and precise workpiece surfaces
- Much longer lifetime
- Clean and smooth finish

Application: Carbide burrs with Z6 toothing fitting for steel, stainless steel, grey cast iron, titan and for common weld seams

Ø	S	A	L	RPM max.		Item Number
3	3	13	40	70000	1	● 0093-080 040
6	3	13	43	40000	1	● 0053-080 043
6	6	16	50	40000	1	● 0083-080 050
8	6	18	63	30000	1	● 0003-080 063
10	6	20	65	25000	1	● 0093-080 065
12.7	6	25	70	18000	1	● 0043-080 070



Appearance can vary from picture depending on variant.



EUGMCB008 | SUPERIOR ★★★★★

Carbide burr RBF Z6

Carbide burr with round arch shape and Z6 tooth system.

- Suitable for tough applications in the industry or craftsmanship
- Ideal for small and precise workpiece surfaces
- Makes milling operation for preparing weld seams easy

Application: Carbide burrs with Z6 toothing fitting for steel, stainless steel, grey cast iron, titan and for common weld seams

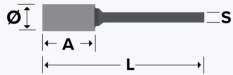


Also available as a practical set. More on page 15

Ø	S	A	L	RPM max.		Item Number
3	3	13	40	70000	1	● 0083-080 040
6	3	13	43	40000	1	● 0043-080 043
6	6	16	50	40000	1	● 0073-080 050
8	6	20	65	30000	1	● 0073-080 065
10	6	20	65	25000	1	● 0083-080 065
12.7	6	25	70	18000	1	● 0033-080 070



Appearance can vary from picture depending on variant.



EUGMCB009 | SUPERIOR ★★★★★

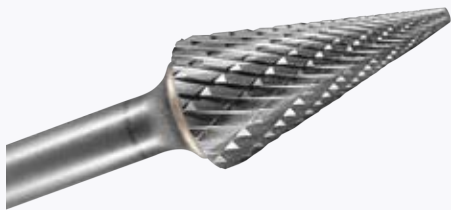
Carbide burr KEL Z6

Carbide burr with circular tapered shape and Z6 tooth system.

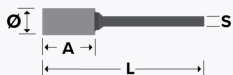
- Suitable for tough applications in the industry or craftsmanship
- Makes milling operation for preparing weld seams easy
- Clean and smooth finish

Application: Carbide burrs with Z6 toothing fitting for steel, stainless steel, grey cast iron, titan and for common weld seams

Ø	S	A	L	RPM max.		Item Number
3	3	13	40	70000	1	● 0113-080 040
6	6	16	50	40000	1	● 0103-080 050
8	6	20	65	30000	1	● 0113-080 065
10	6	30	75	25000	1	● 0003-080 075
12.7	6	32	77	18000	1	● 0013-080 077



Appearance can vary from picture depending on variant.



EUGMCB010 | SUPERIOR ★★★★★

Carbide burr SKM Z6

Carbide burr with pointed tapered shape and Z6 tooth system.

- Suitable for tough applications in the industry or craftsmanship
- Allrounder for diverse deburring operations
- Clean and smooth finish
- Common milling operations and rough machining

Application: Carbide burrs with Z6 toothing fitting for steel, stainless steel, grey cast iron, titan and for common weld seams

Ø	S	A	L	RPM max.		Item Number
3	3	13	40	70000	1	● 0103-080 040
6	3	13	43	40000	1	● 0063-080 043
6	6	16	50	40000	1	● 0093-080 050
10	6	20	65	25000	1	● 0103-080 065
12.7	6	25	70	18000	1	● 0053-080 070



Appearance can vary from picture depending on variant.



EUGMCB011 | SUPERIOR ★★★★★

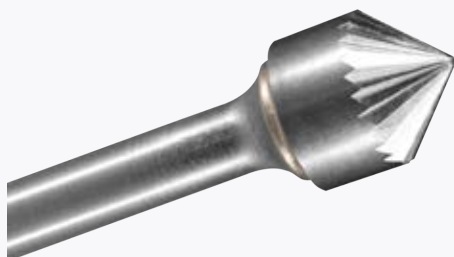
Carbide burr KSJ Z6

Carbide burr with countersink shape and Z6 tooth system.

- Suitable for tough applications in the industry or craftsmanship
- Enables precise chamfers
- Common edge processing of bores
- Clean and smooth finish

Application: Carbide burrs with Z6 toothing fitting for steel, stainless steel, grey cast iron, titan and for common weld seams

Ø	S	A	L	RPM max.		Item Number
10	6	13	58	25000	1	● 0013-080 058



Appearance can vary from picture depending on variant.



EUGMCB012 | SUPERIOR ★★★★★

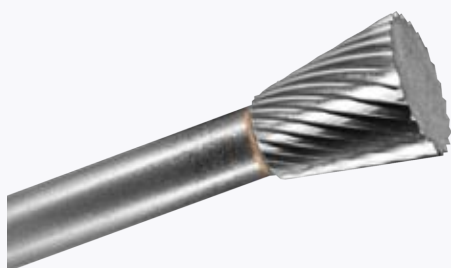
Carbide burr KSK Z6

Carbide burr with 90° countersink shape and Z6 tooth system.

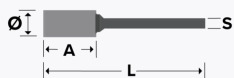
- Suitable for tough applications in the industry or craftsmanship
- Enables precise chamfers
- Common edge processing of bores
- Clean and smooth finish

Application: Carbide burrs with Z6 toothing fitting for steel, stainless steel, grey cast iron, titan and for common weld seams

Ø	S	A	L	RPM max.		Item Number
10	6	8	55	25000	1	● 0003-080 055



Appearance can vary from picture depending on variant.



EUGMCB013 | SUPERIOR ★★☆☆☆

Carbide burr WKN Z6

Carbide burr with angled shape and Z6 tooth system.

- Suitable for tough applications in the industry or craftsmanship
- Ideal for processing undercuts and areas that are difficult to access
- Clean and smooth finish

Application: Carbide burrs with Z6 toothing fitting for steel, stainless steel, grey cast iron, titan and for common weld seams

Ø	S	A	L	RPM max.		Item Number
10	6	13	58	25000	1	● 0023-080 058



Appearance can vary from picture depending on variant.



EUGMCB024 | SUPERIOR ★★☆☆☆

Carbide burr RBF Z1

Carbide burr with round arch shape and Z1 tooth system.

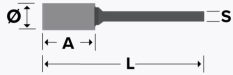
- Suitable for tough applications in the industry or craftsmanship
- Ideal for small and precise workpiece surfaces
- Also available with toothing for metals

Application: Carbide burrs with Z1 toothing fitting for woodworking, hard rubber and thermoplastic materials

Ø	S	A	L	RPM max.		Item Number
8	6	20	65	30000	1	● 0253-080 065
12.7	6	25	70	18000	1	● 0203-080 070



Appearance can vary from picture depending on variant.



EUGMCB022 | SUPERIOR ★★★★★

Carbide burr WRC Z1

Carbide burr with ball-cylindric shape and Z1 tooth system.

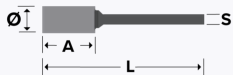
- Suitable for tough applications in the industry or craftsmanship
- Fast edge rounding for inner and outer radii
- Realization of faster process and manufacturing times
- Clean and smooth finish
- Also available with toothing for metals

Application: Carbide burrs with Z1 toothing fitting for woodworking, hard rubber and thermoplastic materials

Ø	S	A	L	RPM max.		Item Number
8	6	20	65	30000	1	● 0243-080 065
12.7	6	25	70	18000	1	● 0193-080 070



Appearance can vary from picture depending on variant.



EUGMCB023 | SUPERIOR ★★★★★

Carbide burr KUD Z1

Carbide burr with ball shape and Z1 tooth system.

- Suitable for tough applications in the industry or craftsmanship
- Especially useful for processing bores, radii and complexe workpiece geometries
- Realization of faster process and manufacturing times
- Clean and smooth finish
- Also available with toothing for metals

Application: Carbide burrs with Z1 toothing fitting for woodworking, hard rubber and thermoplastic materials

Ø	S	A	L	RPM max.		Item Number
8	6	6.5	51	30000	1	● 0023-080 051
12	6	11	56	18000	1	● 0013-080 056



Appearance can vary from picture depending on variant.

EUGMKT003 | SUPERIOR ★★☆☆☆

Carbide burr set Z6 5-parts

5 pieces carbide burr set with Z6 tooth system.

- Set includes all common and most used shapes and dimensions.
- Suitable for tough applications in the industry or craftsmanship
- Allows applications with limited RPM
- Clean and smooth finish
- Different shapes included to cover diverse and complex workpiece contours

Application: Carbide burrs with Z6 toothing fitting for steel, stainless steel, grey cast iron, titan and for common weld seams.

Products included		Item Number
Carbide Burr, RBF 12,72506 Z6 GL70 Carbide Burr, WRC 102006 Z6 GL65 Carbide Burr, KUD 100906 Z6 GL54 Carbide Burr, ZYA 082006 Z6 GL65 Carbide Burr, WRC 061606 Z6 GL50	1	0013-080 000

Terms & conditions and contact addresses.

Refer to our website for our general terms of payment and delivery and further information on ordering and dispatch.

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0013080000	15	0033080043	9	0063080070	5	0253080065	13
0013080040	5	0033080050	7	0073080040	9		
0013080043	6	0033080065	6	0073080050	10		
0013080050	5	0033080070	10	0073080065	10		

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