



Weld Seam Processing

Professional Tools for the Welding Trade

**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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**Optimal Processes.
High Quality.**

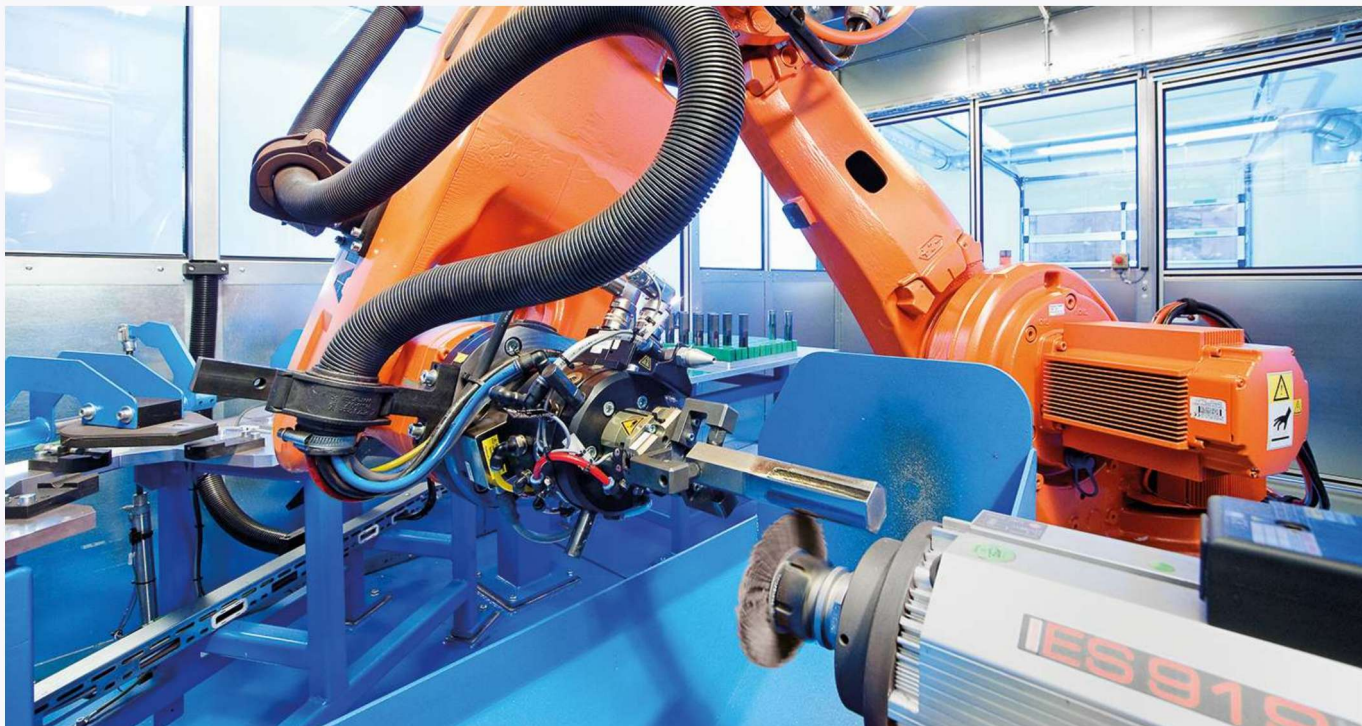


Modern Production

Our production facilities form the core of our manufacturing processes. Thanks to modern technologies and a high degree of automation, we are able to produce both large volumes and custom-made products while maintaining our high quality standards.

We regularly invest in new machinery to optimize our workflows, enabling us to fulfill customer-specific orders with flexibility and precision. This creates production processes that seamlessly connect each step of work. At the same time, we ensure that every product is manufactured with the utmost care and delivered on schedule.

Always One Step Ahead. Research and Development.



Test robot in Burgwald/Germany

Passionate dedication to innovation is important to us. Our aim is to help you every day so that you are able to complete your work better, quicker and more professionally.

So we are testing and optimising existing products in our portfolio in regard to quality, operating behaviour and safety. The findings of our research flow directly into our products and their production processes. A higher quality raw material, different wire knotting, a different abrasive grit, an adapted filament density or a new type of manufacturing process - there are many ways to improve products.

The same also applies for optimising our polishing buffs and compounds. Changing a single parameter brings with it a number of new possibilities. The skill is finding the promising changes and channelling them into volume production after the successful conclusion of all testing.

We are also working on new products and application solutions. Specially developed robots in our test labs in Europe and the US are assisting us. They provide accurate measurement results and guarantee that different tests are always conducted using the same parameters and under identical conditions.



A strong partner

We offer our industrial customers a professional service for parts and sample processing and will be glad to help out if you are on the lookout for the perfect tool for your special finishing or deburring process. You receive a detailed report with technical documentation on the sample parts processed, on the basis of which you are able to make the correct tool selection in consideration of the cost, life and processing time criteria.

Talk to us: service@osborn.de

Logistics.
Always Delivered Quickly.



To ensure that we can deliver orders quickly anywhere in the world, we have two modern logistics warehouses with the appropriate infrastructure and automated warehousing.

nexmart **nexMart**

Easy ordering around the clock

Speedy response and delivery times represent an elementary part of a modern service/customer relationship.

As a retailer, you can order our products using nexMart. It offers the full convenience of an online ordering platform and is now available in many European countries. NexMart is the biggest information source in the industry and allows full order functionality on its platform – whenever and wherever you need it.



AEO Certified.

For a reliable supply chain

We are granted the status “Authorized Economic Operator (AEO)”. This is a standard adopted on European level with the goal of rendering possible reliable, end-to-end, international supply chains. The prerequisite for holding the “Authorized Economic Operator” certificate is conformance to special criteria, defined by the customs authorities, in regard to reliability, financial solvency, abiding by legal regulations and meeting safety standards.

The holder of a certificate is regarded as particularly reliable and is granted eased access to legal customs simplifications, accelerated permit procedures and ease in security-related customs checks. The certificates are valid in all EU member states.

You benefit from the fact that higher priority is generally attached to our goods when checks are performed and they are processed quickly. This means shipping delays due to inspections can be minimised greatly.

Weld Seam Preparation & Processing

Welding is used in many industries. For example in tank and container construction, vehicle super-structures, wagon construction, shipyards or pipeline construction. Stable, permanent joints are essential everywhere, and can only be achieved through cleanly executed work. A botched seam can have far-reaching consequences and is relevant to safety.



Chamfering

If two workpieces are welded together, the edge of the workpieces must first be broken by a beveled surface. This is done by machining. The result is a chamfer. A space to accommodate the individual welding layers through which the workpieces are joined together.



Cleaning the Weldzone

Cleaning and preparation of the welding zone must take place before welding starts. Flash rust, varnish or primers are removed in the area of the joint so that a homogeneous bond can be created between the weld metal and the filler metal.



Cleaning Weld Layers

Different welding processes produce different impurities on and around the welding layer. These are mainly silicates, slag, spatter and blue discolouration. All impurities should be completely removed. The next layer of welding should be applied after the surface has been cleaned.



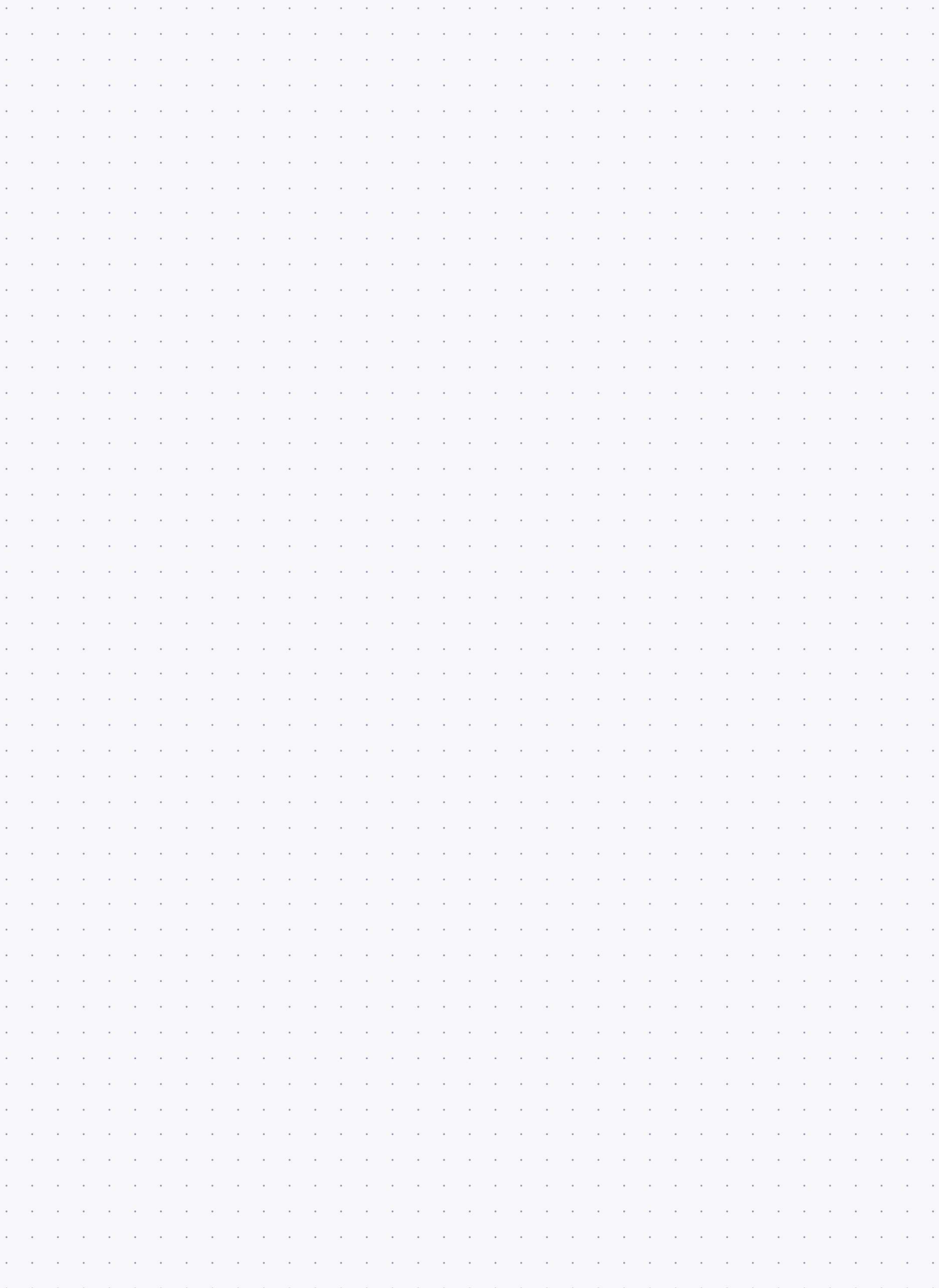
Weld Levelling

The purpose of levelling is to adjust the last applied weld to the height of the workpiece. This means that protruding areas of the top layer are ground off. The result is a seamless and even surface.



Weld Finish

Once the final welding layer has been leveled, the welded workpiece can be finished. Here, the surface in the area around the leveled top layer is adjusted so that everything is even and the entire area appears as if it were "cast in one piece".





Tools for Weld Chamfering and Levelling

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Chamfering and Levelling

If two workpieces are to be welded together, the edge of the workpieces must first be broken by a beveled surface. This is done by machining. The result is a chamfer. A space to accommodate the individual welding layers through which the workpieces are joined together. The chamfer can have different shapes. The V-joint, the double V-joint and the Y-joint are the most common shapes.

The purpose of levelling is to adjust the last applied weld to the height of the workpiece. This means that protruding areas of the so-called top layer are ground off. The result is a seamless, even surface. This can be finished later with other tools, e.g. to create a high-gloss surface or a surface with a satin feel.

Carbide burrs and flap discs are generally suitable for both processes.



Carbide Burrs have a high material removal rate, which makes them particularly well suited to chamfer edges.

Flap discs allow you to work with great precision. Depending on the grit size they're more gentle on the material, which makes them ideal for levelling.

Our Recommendation for Chamfering

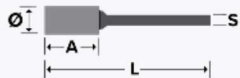
Workpiece Material	Characteristics	Drive Type	Product ID	Item Number
Steel, Stainless Steel	High material removal and shaping	Straight Grinder	EUGMCB001	0063080070
			EUGMCB001	0013080065
			EUGMCB006	0003080077
			EUGMCB006	0063080065
			EUGMCB007	0043080070
			EUGMCB008	0033080070
			EUGMCB008	0083080065

Our Recommendation for Levelling

Workpiece Material	Characteristics	Drive Type	Product ID	Item Number
Steel, Stainless Steel	High material removal and shaping	Angle Grinder 115	EUGMFD006	5241304100
	Medium material removal and shaping		EUGMFD006	5241306100
	Fine finishing and slight shape correction		EUGMFD006	5241307100
	High material removal and shaping	Angle Grinder 125	EUGMFD006	5242304100
	Medium material removal and shaping		EUGMFD006	5242306100
	Fine finishing and slight shape correction		EUGMFD006	5242307100
	High material removal rate, for hard and high-alloy steels, non-ferrous metals, titanium		EUGMFD011	5242444100
			EUGMFD011	5242446100



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 tothing) and Z4 (staggered tothing)

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

Available in practical POS box packaging with Euro-standard hole for ideal presentation at the POS.

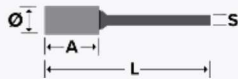
Available in a practical set in a POS box. More on page 22



Ø	S	A	L	nmax. 1/min		Item Number
3	3	13	40	70000	1	● 0013080040
6	3	13	43	40000	1	● 0003080043
6	6	16	50	40000	1	● 0013080050
8	6	20	65	30000	1	● 0003080065
10	6	20	65	25000	1	● 0013080065
12.7	6	25	70	18000	1	● 0063080070



Appearance can vary from picture depending on variant.



EUGMCB002 | SUPERIOR ★★★★★☆

Carbide burr ZYA-S Z6

Carbide burr with cylindrical 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 tothing) and Z4 (staggered tothing)

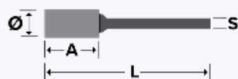
Application: Carbide burrs with Z6 tothing fitting for steel, stainless steel, grey cast iron, titan and for common weld seams

Available in practical POS box packaging with Euro-standard hole for ideal presentation at the POS.

Ø	S	A	L	nmax. 1/min		Item Number
3	3	13	40	70000	1	● 0023080040
6	3	13	43	40000	1	● 0013080043
6	6	16	50	40000	1	● 0023080050
8	6	20	65	30000	1	● 0023080065
10	6	20	65	25000	1	● 0033080065
12.7	6	25	70	18000	1	● 0003080070



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

Available in practical POS box packaging with Euro-standard hole for ideal presentation at the POS.

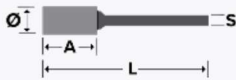
Available in a practical set in a POS box. More on page 22



Ø	S	A	L	nmax. 1/min		Item Number
3	3	13	40	70000	1	● 0033080040
6	3	13	43	40000	1	● 0023080043
6	6	16	50	40000	1	● 0033080050
8	6	20	65	30000	1	● 0043080065
10	6	20	65	25000	1	● 0053080065
12.7	6	25	70	18000	1	● 0013080070



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

Available in practical POS box packaging with Euro-standard hole for ideal presentation at the POS.

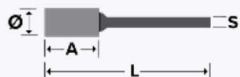
Available in a practical set in a POS box. More on page 22



Ø	S	A	L	nmax. 1/min		Item Number
3	3	2.8	40	7000	1	● 0043080040
6	3	5	39	4000	1	● 0003080039
6	6	5	50	4000	1	● 0043080050
8	6	6.5	51	3000	1	● 0003080051
10	6	9	54	2500	1	● 0003080054
12	6	11	54	1800	1	● 0013080054
16	6	14	59	1300	1	● 0003080059



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 complex surfaces and shapes

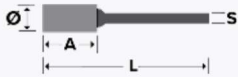
Application: Carbide burrs with Z6 toothing fitting for steel, stainless steel, grey cast iron, titan and for common weld seams

Available in practical POS box packaging with Euro-standard hole for ideal presentation at the POS.

Ø	S	A	L	nmax. 1/min		Item Number
3	3	7	40	70000	1	● 0053080040
6	3	10	40	40000	1	● 0063080040
6	6	16	50	40000	1	● 0053080050
8	6	13	58	30000	1	● 0003080058
9.5	6	16	61	28000	1	● 0003080061
12.7	6	22	67	18000	1	● 0003080067



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

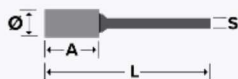
Application: Carbide burrs with Z6 toothing fitting for steel, stainless steel, grey cast iron, titan and for common weld seams

Available in practical POS box packaging with Euro-standard hole for ideal presentation at the POS.

Ø	S	A	L	nmax. 1/min		Item Number
3	3	8	40	70000	1	● 0073080040
6	3	13	43	40000	1	● 0033080043
6	6	18	50	40000	1	● 0063080050
8	6	20	65	30000	1	● 0063080065
10	6	25	70	25000	1	● 0023080070
12.7	6	32	77	18000	1	● 0003080077



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

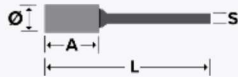
Application: Carbide burrs with Z6 toothing fitting for steel, stainless steel, grey cast iron, titan and for common weld seams

Available in practical POS box packaging with Euro-standard hole for ideal presentation at the POS.

Ø	S	A	L	nmax. 1/min		Item Number
3	3	13	40	70000	1	● 0093080040
6	3	13	43	40000	1	● 0053080043
6	6	16	50	40000	1	● 0083080050
8	6	18	63	30000	1	● 0003080063
10	6	20	65	25000	1	● 0093080065
12.7	6	25	70	18000	1	● 0043080070



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

Available in practical POS box packaging with Euro-standard hole for ideal presentation at the POS.

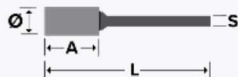
Available in a practical set in a POS box. More on page 22



Ø	S	A	L	nmax. 1/min		Item Number
3	3	13	40	70000	1	● 0083080040
6	3	13	43	40000	1	● 0043080043
6	6	16	50	40000	1	● 0073080050
8	6	20	65	30000	1	● 0073080065
10	6	20	65	25000	1	● 0083080065
12.7	6	25	70	18000	1	● 0033080070



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

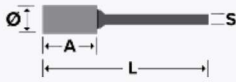
Application: Carbide burrs with Z6 toothing fitting for steel, stainless steel, grey cast iron, titan and for common weld seams

Available in practical POS box packaging with Euro-standard hole for ideal presentation at the POS.

Ø	S	A	L	nmax. 1/min		Item Number
3	3	13	40	70000	1	● 0113080040
6	6	16	50	40000	1	● 0103080050
8	6	20	65	30000	1	● 0113080065
10	6	30	75	25000	1	● 0003080075
12.7	6	32	77	18000	1	● 0013080077



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

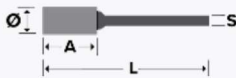
Application: Carbide burrs with Z6 toothing fitting for steel, stainless steel, grey cast iron, titan and for common weld seams

Available in practical POS box packaging with Euro-standard hole for ideal presentation at the POS.

Ø	S	A	L	nmax. 1/min		Item Number
3	3	13	40	70000	1	● 0103080040
6	3	13	43	40000	1	● 0063080043
6	6	16	50	40000	1	● 0093080050
10	6	20	65	25000	1	● 0103080065
12.7	6	25	70	18000	1	● 0053080070



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

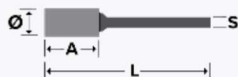
Application: Carbide burrs with Z6 toothing fitting for steel, stainless steel, grey cast iron, titan and for common weld seams

Available in practical POS box packaging with Euro-standard hole for ideal presentation at the POS.

Ø	S	A	L	nmax. 1/min		Item Number
10	6	13	58	25000	1	● 0013080058



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

Available in practical POS box packaging with Euro-standard hole for ideal presentation at the POS.

Ø	S	A	L	nmax. 1/min		Item Number
10	6	8	55	25000	1	● 0003080055



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

Available in practical POS box packaging with Euro-standard hole for ideal presentation at the POS.

Ø	S	A	L	nmax. 1/min		Item Number
10	6	13	58	25000	1	● 0023080058



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

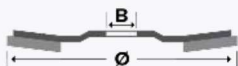
Application: Carbide burrs with Z6 toothing fitting for steel, stainless steel, grey cast iron, titan and for common weld seams.

Available in practical POS box packaging with Euro-standard hole for ideal presentation at the POS.

Products included		Item Number
<ul style="list-style-type: none"> ■ 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	● 0013080000



Appearance can vary from picture depending on variant.



EUGMFD001 | PERFECT ★★☆☆☆

ALOX POWER

Cost-effective product for processing steel and wood. A tough, hard abrasive grain enables good removal rates, particularly when grinding surfaces. The glass fibre backing is characterised by an even grinding finish until the abrasive grain is completely consumed. No scratches appear on the workpiece.

- Quick machining
- Fine surface structure
- Good lifetime

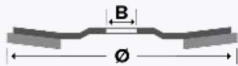
Application: Very suitable for processing unalloyed steel, alloyed steel and tool steel. Also suitable for weldseams, wood and plastic.

Ø	B	nmax. 1/min		flat 40	flat 60	flat 80	flat 120
115	22.23	13300	10	● 5231004100	● 5231006100	● 5231007100	● 5231009100
125	22.23	12250	10	● 5232004100	● 5232006100	● 5232007100	● 5232009100

Ø	B	nmax. 1/min		tapered 40	tapered 60	tapered 80
115	22.23	13300	10	● 5231204100	● 5231206100	● 5231207100
125	22.23	12250	10	● 5232204100	● 5232206100	● 5232207100



Appearance can vary from picture depending on variant.



EUGMFD003 | PERFECT ★★☆☆☆

ZIRCON POWER

All-round flap disc with zirconium corundum band on a cotton polyester cloth. Good removal rate and service life.

- Ideal for surface grinding on steel and stainless steel
- High removal rate and effortless work without clogging
- The glass fibre backing is characterised by an even grinding finish until the abrasive grain is completely consumed. No scratches appear on the workpiece.

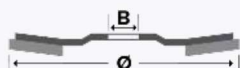
Application: Very suitable for processing stainless steel, (un)alloyed steel, weldseams, cast. Also suitable for wood and plastic.

Ø	B	nmax. 1/min		flat 40	flat 60	flat 80
115	22.23	13300	10	● 5231184100	● 5231186100	● 5231187100
125	22.23	12250	10	● 5232184100	● 5232186100	● 5232187100

Ø	B	nmax. 1/min		tapered 40	tapered 60	tapered 80
115	22.23	13300	10	● 5231384100	● 5231386100	● 5231387100
125	22.23	12250	10	● 5232384100	● 5232386100	● 5232387100



Appearance can vary from picture depending on variant.



EUGMFD006 | SUPERIOR ★★★★★

ZIRCON PLUS

Top-quality zirconium flap disc. Well-suited for deburring, processing welding seams and surface grinding. Very balanced and universally applicable flap disc with brilliant removal rate and outstanding service life. For processing steel and stainless steel. A true four-star all-round disc.

- Ideal for processing edges
- Also very good for surface grinding
- Outstanding grinding performance with superior lifetime
- High removal rate and effortless work without clogging
- Very good surface quality on workpiece

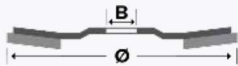
Application: Suits perfectly for (stainless) steel sheets and cast. Very suitable for (un)alloyed steel and weldseams. Also suitable for wood and plastic.

Ø	B	nmax. 1/min		flat 40	flat 60	flat 80
115	22.23	13300	10	● 5241104100	● 5241106100	● 5241107100
125	22.23	12250	10	● 5242104100	● 5242106100	● 5242107100

Ø	B	nmax. 1/min		tapered 40	tapered 60	tapered 80
115	22.23	13300	10	● 5241304100	● 5241306100	● 5241307100
125	22.23	12250	10	● 5242304100	● 5242306100	● 5242307100



Appearance can vary from picture depending on variant.



EUGMFD011 | SUPERIOR ★★★★★

CERA PLUS

Flap disc with self-sharpening ceramic grain, which permanently enables an extremely high removal rate and guarantees a long service life. Outstanding results for surface and edge grinding of steel or stainless steel. The robust polyester backing and a full resin bond with additives that actively support grinding guarantee that the abrasive grain on the backing remains resistant to wear, even under high stress. This makes CERA PLUS ideal for extreme grinding work or demanding special tasks.

- Extremely aggressive removal rate with a minimum of effort
- Substantial time savings, clear plus in terms of service life
- Highly resilient
- Self-sharpening
- Cool grinding on surfaces and edges, reduces thermal discolouration on the workpiece

Application: Suits perfectly for high alloy steel, titanium alloys, nickel-base alloys, chrome and chrome-nickel-steel. Very suitable for brass, bronze and cast.

Ø	B	nmax. 1/min		flat 40	flat 60	flat 80
115	22.23	13300	10	● 5241434100	● 5241436100	● 5241437100
125	22.23	12250	10	● 5242434100	● 5242436100	● 5242437100

Ø	B	nmax. 1/min		tapered 40	tapered 60	tapered 80
115	22.23	13300	10	● 5241444100	● 5241446100	● 5241447100
125	22.23	12250	10	● 5242444100	● 5242446100	● 5242447100

Tools for Cleaning the Weldzone

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Cleaning the Weldzone

Cleaning and preparation of the welding zone must take place before welding starts. Flash rust, varnish or primers need to be removed so that a homogeneous bond can be created between the weld metal and the filler metal. Poor preparation and cleaning can lead to bonding defects, which in the worst case can cause the weld to break.

Which Tool Is Used to Clean the Welding Zone?

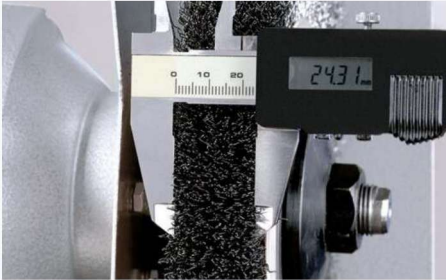
If large areas need to be cleaned and an angle grinder is available, cup brushes are the right choice. The degree of soiling determines whether cup brushes with crimped wire or knotted wire are used.

For small, narrow areas, wheel brushes with straight grinders can also be used, or bevel brushes for corners and angles.

Our Recommendation for Cleaning of the Weldzone

Workpiece Material	Characteristics	Drive Type	Product ID	Item Number
Steel	Gentle on materials, for light soiling	Angle Grinder 115	EUPBCB001	0002608131
			EUPBBB001	0002622131
	High cleaning performance, for heavy soiling		EUPBCB001	0002608151
			EUPBBB001	0002622151
	Gentle on materials, for light soiling	Angle Grinder 125	EUPBBB001	0002632131
			High cleaning performance, for heavy soiling	EUPBBB001
EUPBBB001	0002632151			
Gentle on materials, for light soiling	Angle Grinder 180	EUPBCB002	0002608134	
		EUPBCB002	0002608154	
Stainless Steel	Gentle on materials, for light soiling	Angle Grinder 115	EUPBCB001	0002608331
			EUPBBB001	0002622331
	High cleaning performance, for heavy soiling		EUPBBB001	0002622351
			EUPBCB001	0002608351
	Gentle on materials, for light soiling	Angle Grinder 125	EUPBBB001	0002632331
			EUPBBB001	0002632351
High cleaning performance, for heavy soiling	Angle Grinder 180	EUPBCB002	0002608354	
	Steel, Stainless Steel	Angle Grinder 115	EUGMCF009	6700001100
Light material removal, good cleaning performance		Angle Grinder 125	EUGMCF009	6700002100

Technical Information & Safety Instructions for Brushes.



Working and clamping width of a brush

The working width defines the contact surface between brush and workpiece. To measure the working width, gently press together the trim area. The clamping width is measured between the cover plates. For products without cover plates, the clamping width corresponds to the body width.



Working and safety speeds

The maximum safety speed must be observed in line with workplace safety requirements. Information is in the product overview in this catalogue, on the packaging and on the brush itself (see picture). The working speed is defined by factors circumferential speed and brush diameter. The optimum working speed is generally far below the safety speed.



Brush diameter and trim length

The diameter of the brush (body of the brush) and the length of the respective trim are the determining factors for the working characteristics of the brush. Generally applicable:

- **Soft, flexible brushes,**
e.g. for working with textured workpieces and for gentle surface finishing.
- **More aggressive brushes,**
e.g. for deburring or removing dirt.



Optimal positioning of the brush in relation to the workpiece

One of the factors defining the contact pressure of a brush is its penetration depth at the workpiece. Never press a brush into the workpiece and only work with the tips of the filament. Excessive contact pressure lowers the brush performance and expedites wear. For manually operated machines, the recommendation is to only work with the weight of the machine. For an abrasive trim, a filament diameter of 3 times applies, e.g. 1.0 mm penetration depth for a filament diameter of 0.35 mm.

We will be glad to help out if you have questions.



Filament density of brushes

The filament density is determined by the number of filament tips per surface unit. High filament densities optimise cutting performance and useful lives (for deburring work for example). Lower filament densities increase the flexibility of the brushes and are the prerequisite for processing strongly profiled surfaces.

For efficient and safe deployment, always select the maximum possible brush diameter that can be fitted on the drive unit.

Because the circumferential speed is defined by the brush diameter, as mentioned before under working speeds, the performance of a brush can also be changed with this factor.

The following table provides an overview:

Remember the following before fitting a brush:

- The speed of the drive shaft of your machine must not exceed the maximum safety speed of the brush.
- The length of the drive shaft must fit firmly in the chuck.
- Brushes with clamp shaft can easily be fitted into standard drill chucks or collet chucks.
- The connecting threads of brushes have spanner flats, guaranteeing easy fitting and removal.

RPM min-1	Brush diameters (in mm)											
	20	40	50	80	100	125	150	180	200	250	300	350
800				3.35	4.19	5.23	6.28	7.53	8.37	10.47	12.56	14.75
900			2.35	3.77	4.71	5.88	7.06	8.48	9.41	11.77	14.12	16.47
1,150			3.01	4.81	6.01	7.52	9.02	10.83	12.03	15.04	18.04	21.04
1,200	1.25	2.51	3.14	5.02	6.28	7.85	9.41	11.30	12.55	15.69	18.83	21.97
1,400	1.46	2.93	3.66	5.86	7.32	9.15	10.98	13.18	14.64	18.31	21.97	25.63
1,500	1.57	3.14	3.92	6.28	7.85	9.81	11.77	14.13	15.69	19.61	23.54	27.46
1,800	1.88	3.77	4.71	7.54	9.41	11.77	14.12	16.95	18.83	23.54	28.24	32.95
2,000	2.09	4.19	5.23	8.37	10.26	13.08	15.69	18.84	20.92	26.15	31.38	36.61
2,500	2.62	5.23	6.54	10.47	13.08	16.35	19.61	23.55	26.15	32.67	39.23	45.76
2,800	2.93	5.86	7.32	11.72	14.64	18.31	21.97	26.37	29.29	36.61	43.93	51.25
3,000	3.14	6.28	7.85	12.56	15.69	19.62	23.54	28.26	31.38	39.23	47.07	54.92
3,200	3.35	6.70	8.37	13.40	16.74	20.92	25.10	30.14	33.47	41.84	50.12	58.58
3,500	3.66	7.33	9.15	14.65	18.31	22.89	27.46	32.97	36.61	45.76	54.92	64.07
4,000	4.19	8.37	10.46	16.75	20.92	26.16	31.38	37.68	41.84	52.33	62.76	73.22
4,500	4.70	9.42	11.77	18.84	23.54	29.43	35.30	42.40	47.07	58.84	70.61	82.43
5,000	5.23	10.47	13.08	20.93	26.15	32.70	39.23	47.10	52.33	65.38	78.50	
5,400	5.65	11.30	14.12	22.94	28.24	35.31	42.36	50.67	56.48	70.61	84.78	
6,000	6.28	12.56	15.69	25.12	31.38	39.24	47.07	56.52	62.76	78.50		
7,000	7.33	14.66	18.31	29.31	36.61	45.78	54.92	65.94	73.22	91.58		
8,000	8.37	16.75	20.92	33.94	41.48	52.32	62.76	75.36	83.73			
9,000	9.42	18.84	23.54	37.68	47.07	58.86	70.61	84.78	94.20			
10,000	10.47	20.93	26.17	41.86	52.33	65.40	78.50	94.20				
12,500	13.08	26.17	32.71	52.33	65.42	81.75	98.13					
15,000	15.70	31.40	39.25	62.80								
17,500	18.32	36.63	45.79	73.26								
20,000	20.93	41.87	52.33	83.73								
22,500	23.55	47.10	58.88	94.20								
25,000	26.17	52.33	65.42	104.66								

Brushes for Angle Grinders. Important user information.

Determining the maximum working speed

The maximum working speed of a brush is dependent on its diameter. The wider the diameter of a brush, the lower the maximum working speed. The maximum working speed has a relevance to safety. It must never be exceeded. This information is on the brush itself. Additionally you will find below an aid for the most popular angle grinder sizes with their maximum speeds.

Angle grinder size (mm)	115	125	150	180	230
Angle grinder size (in)	4 1/2"	5"	6"	7"	9"
Max. working speed	12,500 min ⁻¹	12,500 min ⁻¹	8,500 min ⁻¹	8,500 min ⁻¹	6,500 min ⁻¹

Which brush is used on which angle grinder?



Not every brush can be fitted to every angle grinder. There are safety specifications for this too. To get the best out of your device and brush, please use the angle grinder sizes specified here for the respective brush (refer to the table).

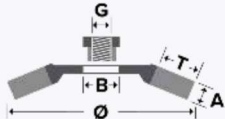
Important: You must on no account use a smaller angle grinder size than specified here. For our retail packs, the suitable angle grinder size is generally on the packaging itself, with symbol.

Brush	Filament	Brush diameter in mm													
		60	65	75	80	90	100	115	120	125	130	140	150	178	230
Wheel brush	knotted						115	115		125			150	180	230
	crimped						115	115							
	abrasive										150*	150*			
Bevel brush	knotted						115	115		125					
	crimped						115	115							
	abrasive						115*	115/125							
Cup brush	knotted		115/125	125	150		180		230						
	crimped	115/125		125	150		150/180			230			230		
	abrasive		115/125				150*								

*variable speed angle grinders or cordless angle grinders



Appearance can vary from picture depending on variant.



EUPBBB001 | SUPERIOR ★★★★★

Bevel brushes, knotted wire

Knotted bevel brush, industrial quality, for use on angle grinders.

- Aggressive cleaning performance
- Long service life
- Combines the best properties of a cup brush with those of a wheel brush
- Workpieces with large areas and difficult to access places can be treated perfectly
- TÜV-Süd certified (safety tested, production monitored)

Application: Deburring, removal of rust, paint, slag, silicates and blue discolouration on complex workpieces.



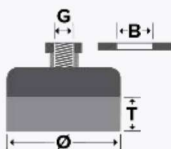
Available in practical POS box packaging with Euro-standard hole for ideal presentation at the POS.

Ø	A	T	G	Knots	nmax. 1/min	POS		Steel 0.35	Steel 0.50
100	13	22	M10X1,5	18	12500	✓	10	● 0102622131	● 0102622151
100	13	22	M10X1,25	18	12500	✓	10	● 4802622131	● 2352622151
100	13	22	M14	18	12500	✓	10	● 0002622131	● 0002622151
100	13	22	M14	22	12500	✓	10	● 0002623131	
115	15	20	5/8"	18	12500	✓	10	● 0802632131	● 0802632151
115	15	20	M14	18	12500		20		● 0202632151
115	15	20	M14	18	12500	✓	10	● 0002632131	● 0002632151
125	15	23	M14	24	12500	✓	10	● 3602632131	● 2902632151

Ø	A	T	G	Knots	nmax. 1/min	POS		Stainless Steel 0.35	Stainless Steel 0.50
100	13	22	M10X1,5	18	12500	✓	10	● 0102622331	● 0102622351
100	13	22	M10X1,25	18	12500	✓	10	● 4802622331	● 2352622351
100	13	22	M14	18	12500	✓	10	● 0002622331	● 0002622351
115	15	20	M14	18	12500	✓	5	● 0002632331	
115	15	20	M14	18	12500	✓	10		● 0002632351
125	15	23	M14	24	12500	✓	10	● 3602632331	● 3602632351



Appearance can vary from picture depending on variant.



EUPBCB001 | SUPERIOR ★★★★★

Cup brushes, knotted wire

Knotted cup brush, industrial quality, for use on angle grinders.

- General-purpose talent, Osborn bestseller
- Impressive cleaning effect
- Solution of choice for cleaning large surfaces
- Long service life, low set-up costs/time
- TÜV-Süd certified (safety tested, production monitored)

Application: Rust removal, paint stripping, removing slag, silicate residuals and blue discolouring.

3892608131 extra long Trim



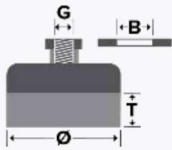
Available in practical POS box packaging with Euro-standard hole for ideal presentation at the POS.

Ø	T	B	G	nmax. 1/min	POS		Steel 0.35	Steel 0.50
65	20		M10X1,5	12500	✓	10	● 0102608131	● 0102608151
65	20		M10X1,25	12500	✓	10	● 2352608131	● 2352608151
65	20		M14	12500	✓	10	● 0002608131	● 0002608151
65	20	16		12500	✓	10	● 1602608131	● 1602608151
65	30		M14	12500		10	● 3892608131	

Ø	T	B	G	nmax. 1/min	POS		Stainless Steel 0.35	Stainless Steel 0.50
65	20		M10X1,5	12500	✓	6	● 0102608331	● 0102608351
65	20		M10X1,25	12500	✓	6	● 2352608331	
65	20		M14	12500	✓	6	● 0002608331	● 0002608351
65	20	16		12500	✓	6	● 1602608331	



Appearance can vary from picture depending on variant.



EUPBCB002 | SUPERIOR ★★★★★☆

Cup brushes, knotted wire

Knotted cup brush, industrial quality, for use on angle grinders.

- Long life, low set-up costs / short set-up times
- Impressive cleaning effect
- Solution of choice for cleaning large surfaces
- Additional stabilisation of the trimming by the support ring
- Support ring is easy to remove. Afterwards the left trim length is useable
- TÜV-Süd certified (safety tested, production monitored)

Application: Rust removal, paint stripping, removing slag, silicate residuals and blue discolouring.



Available in practical POS box packaging with Euro-standard hole for ideal presentation at the POS.



Did you know?

The support ring is there to stabilise the fill material. After the free filament has worn down, the support ring can be removed, enabling to continue work with the filament material available.

Scan the QR code for video instructions or visit our YouTube channel.

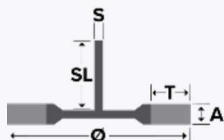


Ø	T	G	nmax. 1/min	POS		Steel 0.35	Steel 0.50	Steel 0.80
75	20	M14	11000		10	● 9908608132	● 9908608152	
80	20	5/8"	8500	✓	6	● 0802608133	● 0802608153	● 0802608183
80	20	M14	8500	✓	6	● 0002608133	● 0002608153	● 0002608183
100	20	5/8"	8500	✓	3	● 0802608134	● 0802608154	● 0802608184
100	20	M14	8500	✓	3	● 0002608134	● 0002608154	● 0002608184
120	20	5/8"	6500	✓	4	● 0802608135	● 0802608155	● 0802608185
120	20	M14	6500	✓	4	● 0002608135	● 0002608155	● 0002608185

Ø	T	G	nmax. 1/min	POS		Stainless Steel 0.35	Stainless Steel 0.50
80	20	M14	8500	✓	3	● 0002608333	● 0002608353
100	20	M14	8500	✓	3	● 0002608334	● 0002608354



Appearance can vary from picture depending on variant.



EUPBWB009 | SUPERIOR ★★★★★☆

Wheel brushes, knotted wire

Knotted wheel brush, industrial quality, for use on power drills and high-speed machines.

- Osborn bestseller
- High cleaning performance
- 6 mm shank enables simple mounting
- Also suitable for use on high-speed machines
- TÜV-Süd certified (safety tested, production monitored)

Application: Cleaning, deburring, removal of slag and silicates, weld seam finishing, removal of protective undercoating in car workshops.



Available on a practical display card with Eurostandard hole for ideal presentation at the POS.

Ø	A	T	S	SL	nmax. 1/min	POS		Steel 0.35	Steel 0.50	Stainless Steel 0.50
75	8	18	6	30	20000	✓	8		● 7202611151	
75	12	15.5	6	30	20000		12		● 0202611151	
75	12	18	6	30	20000		12	● 0202611131		● 0202611351
75	12	18	6	30	20000	✓	8			● 7012611351



Appearance can vary from picture depending on variant.



EUGMCF009 | SUPERIOR ★★★★★☆

Coarse cleaning fleece for angle grinders

Coarse cleaning fleece on glass fibre backing. Suitable for cleaning and polishing all surfaces. Cleaning fleeces attain the best results in sanding and cleaning metals, stainless steel and wood.

- Removes old paint, rust and weld spots without scratching the surface of the workpiece
- Cleaning and smoothing wood and plastic

Application: General-purpose use for metals, stainless steel, wood and plastic.

Please note: Coarse cleaning fleeces are not suitable for edge finishing. They remove foreign matter and are non-stock removing.

Ø	B	nmax. 1/min		flat
115	22.23	11000	10	● 6700001100
125	22.23	10000	10	● 6700002100
180	22.23	8500	10	● 6700003100



Tools for Cleaning Weld Layers

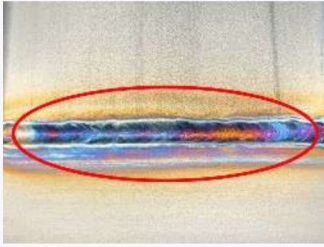
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Hand Brushes	51

Cleaning Weld Layers

Different welding processes produce different impurities on and around the welding layer. These are mainly silicates, slag, spatter and blue discolouration. All impurities should be completely removed. Only after a complete cleaning the next welding layer should be applied.

The Most Common Impurities in Welding

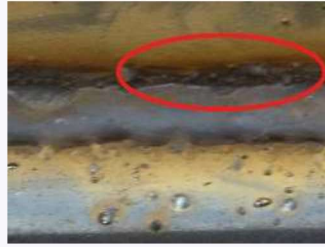
Blue Discolouration



WIG (Stainless Steel/Aluminum)

Processed using thin crimped wire

Slag



MMA (Steel)

Processed using aggressive knotted brushes

Spatter



MMA (Steel)

Processed using zircon corundum flap discs

Silicates



MIG/MAG (Steel/Non-ferrous Metals)

Processed using aggressive knotted brushes

Position of the Weld Seam

The weld joint is completely filled with welding material. Each individual layer must be cleaned after the welding process. Otherwise, even the smallest inclusions, silicate residues or blue discolouration could lead to corrosion and a faulty joint. The position of the weld has an influence on which tool is suitable for cleaning. If the last welding layer (cover weld) is not cleaned and the component is later provided with a coating defects and corrosion can occur at the inclusion points.



Root Seam

Root seams are located deep in the joint and often difficult to access. We recommend narrow wheel brushes for precise cleaning and effective removal of welding residues in tight spaces.



Filler Seams

The filler seam can also be treated with wheel brushes. Since the joint is wider at this stage, a larger working width can be used.



Cover Seams

The cover seam is cleaned with a wheel brush or for wider seams a cup brush. This ensures a uniform, clean surface that's perfectly prepared for further treatment.

Please Note:

Non-ferrous metals, stainless steel and aluminium should always be processed with brushes with stainless wire! A brush with stainless wire should never be used in between for processing steel! Otherwise, there is a risk of bimetallic corrosion (contact corrosion): Steel particles can be carried onto the workpiece made of precious metal and will corrode.

Our Recommendation for Cleaning Different Weld Layers

Workpiece Material: Steel

Weld Layer	Impurities	Characteristics	Drive Type	Product ID	Item Number	
Corner & Edges	Silicates	for corners, edges and interior surfaces, variable brush diameter	Straight Grinder	EUPBEB007	9906030302	
					9906030308	
					9906030314	
					9906030304	
					9906030310	
					9906030316	
					9906030305	
					9906030311	
					9906030317	
					Slag, Spatter	
					9906030318	
Root Seam	Slag, Spatter	up to 15mm wall thickness	Angle Grinder 115	EUPBWB001	9502626501	
				EUPBWB004	2906026501	
	Slag, Spatter	up to 20mm wall thickness	Angle Grinder 125	EUPBWB001	9502626311	
				EUPBWB001	9502626251	
				EUPBWB004	0002626251	
			up to 20mm wall thickness, plastic-bonded		EUPBWB005	9802921873
	Silicates	up to 30mm wall thickness, plastic-bonded	Angle Grinder 180	EUPBWB006	0002921875	
Slag, Spatter	up to 30mm wall thickness	EUPBWB004		9906026051		
Filler Seam	Slag, Spatter	up to 15mm wall thickness	Angle Grinder 115	EUPBWB001	0002631131	
				EUPBWB001	0002631151	
	Slag, Spatter	up to 20mm wall thickness	Angle Grinder 125	EUPBWB001	2202631151	
						Angle Grinder 180
		up to 30mm wall thickness		EUPBWB001	0002653151	
Cover Seam	All	Suitable for working widths of 15–50 mm	Angle Grinder 115	EUPBCB005	0002613161	
		Suitable for working widths of 15–50 mm	Angle Grinder 125	EUPBCB005	0002613162	
		Suitable for working widths of 25–75 mm	Angle Grinder 180	EUPBCB006	0002613164	

Workpiece Material: Stainless Steel

Impurities	Weld Layer	Characteristics	Drive Type	Product ID	Item Number		
Blue Discolouration	Corner & Edges	for corners, edges and interior surfaces	Straight Grinder	EUPBEB007	9906030326		
					9906030332		
					9906030338		
					9906030328		
					9906030340		
					9906030334		
					9906030329		
					9906030335		
	Root Seam	up to 15mm wall thickness	Angle Grinder 115	EUPBWB004	0002626650		
					4602626331		
		up to 20mm wall thickness	Angle Grinder 125	EUPBWB004	0002626651		
					EUPBWB001	9502626651	
	Filler Seam	up to 15mm wall thickness	Angle Grinder 115	EUPBWB001	0002631331		
					EUPBWB001	0002631351	
		up to 20mm wall thickness	Angle Grinder 125	EUPBWB001	2202631331		
					EUPBWB001	2202631351	
	up to 30mm wall thickness	Angle Grinder 180	EUPBWB001	0002653351			
Cover Seam	Suitable for working widths of 15–50 mm	Angle Grinder 115	EUPBCB005	0002613361			
				Suitable for working widths of 15–50 mm	Angle Grinder 125	EUPBCB005	0002613362
							Suitable for working widths of 25–75 mm

Application Example

Removal of blue discoloration caused by TIG welding. The workpiece was treated with a bevel brush with crimped wire.



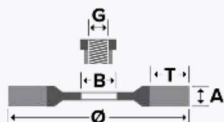
Before



After



Appearance can vary from picture depending on variant.



EUPBWB001 | SUPERIOR ★★★★★

Wheel brushes, knotted wire

Knotted wheel brush, industrial quality, for general use on all common angle grinders.

- Aggressive and speedy cleaning; all wire tips are in use at the same time
- Long service life
- TÜV-Süd certified (safety tested, production monitored)
- Available in diverse specifications with arbor hole or thread M14

Application: For roughing, deburring and simple rust removal work.



Available in practical POS box packaging with Euro-standard hole for ideal presentation at the POS.

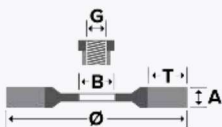
Ø	A	T	B	G	Adapt.	nmax. 1/min	POS		Steel 0.35	Steel 0.50	Steel 0.80
75	12	15	13			20000		12	● 0002611131	● 0002611151	
100	12	20	22.2		HP	12500	✓	8	● 0002621131	● 0002621151	
115	6	19	22.2			12000	✓	10	● 9502626301	● 9502626501	
115	10	22	22.2			12500		15		● 0202631151	
115	12	12	22.2		HP	12500	✓	10	● 0002631131		
115	12	22	22.2		HP	12500	✓	10		● 0002631151	
115	12	23		M14		12500	✓	6	● 0402631131	● 0402631151	
125	6	24	22.2			12000	✓	8	● 9502626311	● 9502626251	
125	12	27	22.2			12500		1		● 0222631151	
125	13	28		M14		12500	✓	8	● 1402631131	● 1402631151	
125	13	28	22.2		HP	12500	✓	8	● 6152631131	● 2202631151	
150	13	37	22.2			12000		1		● 0202641151	
150	13	37	22.2		HP	12000	✓	5	● 0002641131	● 0002641151	● 0002641181
178	6	38	22.2			12000		12	● 4602626131		
178	13	42	22.2		HP	10000	✓	6	● 0002653131	● 0002653151	● 0002653181
178	13	42.5	22.2			10000		12		● 0202653151	
230	6	57	22.2			12000		1		● 4306026904	
230	13	58	22.2		HP	8500		3		● 9502664151	

more on next page →

Ø	A	T	B	G	Adapt.	nmax. 1/min	POS		Stainless Steel 0.35	Stainless Steel 0.50
100	12	20	22.2		HP	12500	✓	4		● 0002621351
115	10	22	22.2			12500		12	● 0202631331	
115	12	22		M14		12500	✓	4	● 0402631331	
115	12	22	22.2			12500		1		● 0202631351
115	12	23		M14		12500	✓	4		● 0402631351
115	12	23	22.2		HP	12500	✓	4	● 0002631331	● 0002631351
125	6	24	22.2			12000	✓	3		● 9502626651
125	12	27	22.2			12500		1		● 0222631351
125	13	26		M14		12500	✓	3		● 1402631351
125	13	27.5	22.2		HP	12500	✓	3		● 2202631351
125	13	28		M14		12500	✓	3	● 1402631331	
125	13	28	22.2		HP	12500	✓	3	● 2202631331	
150	13	37	22.2		HP	12000	✓	3		● 0002641351
178	6	38	22.2		HP	12000		12	● 4612626331	
178	13	42	22.2			10000		12		● 0202653351
178	13	42	22.2		HP	10000	✓	3		● 0002653351



Appearance can vary from picture depending on variant.



EUPBWB003 | SUPERIOR ★★★★★

Wheel brushes, left/right knotted wire

Knotted wheel brush with special left/right knotting, industrial quality, for simple fitting on all common angle grinders.

- Low-vibration and quiet operation
- Prolonged life and high removal rate
- “untwisting” of the knots during use is minimised
- Reduced kick-back
- TÜV-Süd certified (safety tested, production monitored)

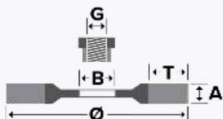
Application: Deburring, cleaning of weld seams (slag, silicates, blue discolouring), removal of stubborn rust deposits.

Available in practical POS box packaging with Euro-standard hole for ideal presentation at the POS.

Ø	A	T	B	nmax. 1/min	POS		Steel 0.35	Steel 0.50
115	12	23	22.2	12500	✓	10	● 1202631131	● 1202631151
125	13	28	22.2	12500		8	● 1212631131	● 1212631151
178	13	42	22.2	10000	✓	6	● 1202653131	● 1202653151



Appearance can vary from picture depending on variant.



EUPBWB004 | EVOLUTION ★★★★★

Wheel brushes, knotted Osborn wire

Knotted wheel brush, high-end quality, for simple fitting on all common angle grinders.

- High-performance wire developed by Osborn
- Particularly cost-effective
- Long life, high tensile strength, high breaking strain and short set-up times
- Wire ensures the brush is worn uniformly

Application: Deburring, cleaning of weld seams (slag, silicates, blue discolouring), removal of stubborn rust deposits.

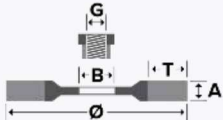
Available in practical POS box packaging with Euro-standard hole for ideal presentation at the POS.

Ø	A	T	B	G	Adapt.	nmax. 1/min	POS		Steel 0.35	Steel 0.50	Steel 0.60
75	13	17	12.7			20000		12	● 9906026011		
100	13	21	15.88			18000		12	● 9906026116		
100	13	21	15.88		HP	18000		12		● 9906026117	
115	6	19		M14		12000		12		● 0002626505	
115	6	19	22.2		HP	12500		12		● 2906026501	
125	6	24	22.2		HP	12000		12		● 0002626251	
150	6	38		M14		12000		10		● 9906026500	
150	6	38	22.2		HP	12000		12		● 9906026501	
150	13	38	22.23			12000		12			● 9906026249
150	25	38	22.2			12000		12	● 9906026247		
165	6	29	22.2		HP	10000		12		● 0002626061	
171	6	29	22.2		HP	12000		12		● 9706026904	
178	6	38	22.2		HP	12000		12		● 9906026051	

Ø	A	T	B	G	Adapt.	nmax. 1/min	POS		Stainless Steel 0.35	Stainless Steel 0.50
115	6	19	22.2		HP	12500		12		● 0002626650
125	6	24	22.2			12000	✓	3	● 4602626331	
125	6	24	22.2		HP	12000		12		● 0002626651



Appearance can vary from picture depending on variant.



EUPBWB005 | EVOLUTION ★★★★★

Wheel brushes, knotted Osborn wire, plastic-bonded

Plastic bonded, knotted wheel brush, high-end quality.

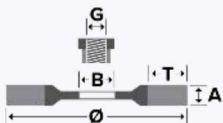
- Reduced wire breakage due to plastic bonding
- Very long service life
- More aggressive cleaning effect than conventional wheel brushes

Application: Removal of slag and silicates, suitable for root welds and fill layers, recommended for hand-welded joints with high levels of dirt.

Ø	A	T	B	nmax. 1/min		Steel 0.50
115	6	19	22.2	12000	10	● 5402921873
125	6	24	22.2	12000	10	● 9802921873
178	6	38	22.2	8500	12	● 9802921875



Appearance can vary from picture depending on variant.



EUPBWB006 | EVOLUTION ★★★★★

Wheel brushes, crimped wire, plastic-bonded

Plastic-bonded, crimped wheel brush, high-end quality.

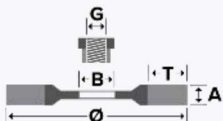
- Particularly narrow design for tight joints
- Precision working
- Reduced wire breakage due to plastic bonding
- Lower applied force, lower contact pressure

Application: Removal of silicate and weld residues, recommended for root seams welded using TIG/MIG/MAG.

Ø	A	T	B	G	nmax. 1/min		Brass Coated Steel 0.38
125	5	32.5		M14	12000	12	● 4102921051
152.4	5	29	22.23		8500	12	● 0002921874
178	3	41	22.23		8500	1	● 7702921875
180	5	42	22.23		8500	12	● 0002921875



Appearance can vary from picture depending on variant.



EUPBWB018 | SUPERIOR ★★☆☆☆

Wheel brushes, knotted wire

Knotted wheel brush, industrial quality, for mounting on stationary machines.

- Knots are guided and secured in position, thereby prevent early wire breaks
- Slightly open knotting

Application: Weld seam cleaning, deburring of cast iron and steel parts with high burr generation, removal of overruns on rubber-bonded- to-metal components, removal of insulation/coatings.

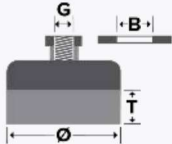
Please note: For other bore sizes, refer to table "Standard Bores for Single-Row Brushes"

0002664152 B min. and B max. = pipe diameter – for reducing the bore size, refer to the 1-A adapter

Ø	A	T	B min.	B max.	nmax. 1/min		Steel 0.35	Steel 0.50	Steel 0.80
200	13	42	20	50.8	8500	1	● 0002664131	● 0002664151	● 0002664181
200	26	42	12.7	50.8	8500	1		● 0002664152	
250	15	42	25.4	50.8	4500	2	● 0002676131	● 0002676151	● 0002676181
300	18	55	25.4	50.8	3600	2	● 0002686131	● 0002686151	● 0002686181



Appearance can vary from picture depending on variant.



EUPBCB005 | SUPERIOR ★★★★★☆

Cup brushes, crimped wire

Crimped cup brush, industrial quality, for use on angle grinders.

- Flexible trim material that adapts perfectly to the workpiece contour
- The optimum angle for the brush to operate at is already specified by the trim shape of the brush
- TÜV-Süd certified (safety tested, production monitored)

Application: Cleaning, removal of paint, rust, slag, blue discolouration.



Available in practical POS box packaging with Euro-standard hole for ideal presentation at the POS.

Ø	T	G	B	nmax. 1/min	POS		Steel 0.20	Steel 0.30
60	21	M10X1,5		12500	✓	10		● 0102613161
60	21	M14		12500	✓	10	● 0002613141	● 0002613161
75	23		16	12500	✓	10		● 1602613162
75	23	5/8"		12500	✓	10	● 0802613142	● 0802613162
75	23	M10X1,5		12500	✓	10	● 0102613142	● 0102613162
75	23	M10X1,25		12500	✓	10	● 5652613142	
75	25	M14		12500	✓	10		● 0002613162
75	28	M14		12500	✓	10	● 0002613142	

Ø	T	G	B	nmax. 1/min	POS		Stainless Steel 0.30	Brass 0.30
60	21		16	12500	✓	4	● 1602613361	
60	21	M10X1,25		12500	✓	10		● 4912613561
60	21	M14		12500	✓	4	● 0002613361	
60	21	M14		12500	✓	10		● 4902613561
75	23	5/8"		12500	✓	4	● 0802613362	
75	25	M14		12500	✓	10	● 0002613362	● 4902613562



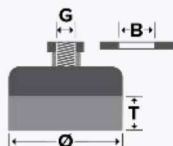
EUPBCB006 | SUPERIOR ★★★★★☆

Cup brushes, crimped wire

Crimped cup brush, industrial quality, for use on angle grinders.

- Flexible trim material that adapts perfectly to the workpiece contour
- The optimum angle for the brush to operate is already specified by the trim shape of the brush
- TÜV-Süd certified (safety tested, production monitored)

Appearance can vary from picture depending on variant.



Application: Cleaning, removal of paint, rust, slag, blue discolouration.



Available in practical POS box packaging with Euro-standard hole for ideal presentation at the POS.

Ø	T	G	B	nmax. 1/min	POS		Steel 0.20	Steel 0.30	Steel 0.50
80	25	M14		8500	✓	5	● 0002613143	● 0002613163	● 0002613193
100	30	5/8"		8500	✓	3	● 0802613144	● 0802613164	● 0802613194
100	30	M14		8500	✓	3	● 0002613144		● 0002613194
100	30	M14		8500	✓	4		● 0002613164	
125	30	5/8"		6500	✓	4		● 0802613165	● 0802613195
125	30	M14		6500		4	● 0002613145		
125	30	M14		6500	✓	4		● 0002613165	
125	35	M14		6500		4			● 0002613195
150	40		22.2	6500		1		● 0002603166	
150	40	5/8"		4500	✓	3		● 0802613166	● 0802613196
150	40	M14		4500	✓	3	● 0002613146	● 0002613166	● 0002613196

Ø	T	G	B	nmax. 1/min	POS		Stainless Steel 0.30	Brass 0.30	
80	25	5/8"		8500	✓	4	● 0802613363		
80	25	M14		8500	✓	4	● 0002613363		
80	25	M14		8500	✓	5		● 4902613563	
100	25	M14		8500	✓	3	● 0002613364		
100	30	5/8"		8500	✓	3	● 0802613364		
125	30	M14		6500	✓	2	● 0002613365		



Appearance can vary from picture depending on variant.



EUPBEB006 | SUPERIOR ★★★★★

End brushes, knotted wire

Knotted end brush, industrial quality, for use on high-speed machines.

- The diameter of the brush changes with increasing work speed; the brush flares, meaning different bore diameters can be worked on
- TÜV-Süd certified (design tested, production monitored)

Application: Rust removal, paint stripping, deburring, weld seams.



Available on a practical display card with Eurostandard hole for ideal presentation at the POS.



Important

The brushes flare when the machine is running (see picture). The table below provides information on the extent of brush flaring in relation to body diameter and rotation speed.

Recommended working speed about 50% of the max. min⁻¹

Body Ø	Wire thickness	At speed ≤ min ⁻¹ 5,000	At speed ≤ min ⁻¹ 8,000	At speed ≤ min ⁻¹ 15,000
20	0.26	55	70	75
20	0.35	25	50	70
23	0.26	40	65	75
23	0.35	35	55	70
30	0.26	55	70	85
30	0.35	50	70	80

Ø	T	L	S	SL	nmax. 1/min	POS		Steel 0.25	Steel 0.35	Stainless Steel 0.25	Stainless Steel 0.35
20	29	72	6	23	20000		12	● 0002630304	● 0002630305	● 0002630328	
20	29	72	6	23	20000	✓	8		● 7002630305		
23	29	72	6	22	20000		12	● 0002630310	● 0002630311	● 0002630334	● 0002630335
30	29	72	6	22	20000		12	● 0002630316	● 0002630317	● 0002630340	● 0002630341



Appearance can vary from picture depending on variant.



EUPBEB007 | EVOLUTION ★★★★★

RUFTUF End brushes, knotted wire

RUFTUF end brushes, high-end quality, with high-performance wire developed by Osborn, for use on high-speed machines.

- High-performance wire developed by Osborn
- Particularly cost-effective, long life, high tensile strength, high breaking strain and short set-up times
- The diameter of the brush changes with increasing work speed; the brush flares, meaning different bore diameters can be worked on
- Aggressive cleaning performance
- TÜV-Süd certified (design tested, production monitored)

Application: Rust removal, paint stripping, deburring, weld seam processing.

Please note: Stainless steel versions are degreased



Important

The brushes flare when the machine is running (see picture). The table below provides information on the extent of brush flaring in relation to body diameter and rotation speed.

Recommended working speed about 50% of the max. min⁻¹

Body Ø	Wire thickness	At speed ≤ min ⁻¹ 5,000	At speed ≤ min ⁻¹ 8,000	At speed ≤ min ⁻¹ 15,000
20	0.26	55	70	75
20	0.35	25	50	70
23	0.26	40	65	75
23	0.35	35	55	70
30	0.26	55	70	85
30	0.35	50	70	80

Ø	T	L	S	SL	nmax. 1/min		Steel 0.15	Steel 0.25	Steel 0.35	Steel 0.50
20	29	72	6	23	20000	12	● 9906030302	● 9906030304	● 9906030305	
23	29	72	6	22	20000	12	● 9906030308	● 9906030310	● 9906030311	● 9906030312
30	29	72	6	22	20000	12	● 9906030314	● 9906030316	● 9906030317	● 9906030318

Ø	T	L	S	SL	nmax. 1/min		Stainless Steel 0.15	Stainless Steel 0.25	Stainless Steel 0.35
20	29	72	6	23	20000	12	● 9906030326	● 9906030328	● 9906030329
23	29	72	6	22	20000	12	● 9906030332	● 9906030334	● 9906030335
30	29	72	6	22	20000	12	● 9906030338	● 9906030340	● 9906030341

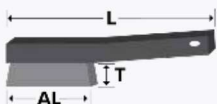
Our Recommendation for Manual Cleaning

Workpiece Material	Impurities	Characteristics	Product ID	Item Number
Steel	all	Preparation and finishing of the welded joint, plastic handle	EUMBHB001	0008462291
		Preparation and finishing of the welded joint, wooden handle	EUMBHB005	0001152133
		for narrow points, root and throat seam cleaning	EUMBHB005	0001152134
Stainless Steel	Blue Discolouration	Preparation and finishing of the welded joint, plastic handle	EUMBHB001	0008462391
		for narrow points, root and throat seam cleaning	EUMBHB007	0003162333





Appearance can vary from picture depending on variant.



EUMBHB001 | PERFECT ★★☆☆☆

Hand brushes, plastic body

Hand brush with crimped wire and plastic handle, craftsman quality.

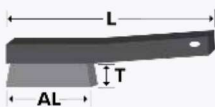
- Osborn Topseller
- Ergonomically shaped handle
- For general use
- Good price/performance ratio
- Due to narrow shape it can be used when space is tight

Application: Quick and easy cleaning work.

AL	T	L	Rows		Steel crimped 0.30	Stainless Steel crimped 0.30	Nylon straight 0.30
140	25	265	1	24	● 0008462291	● 0008462391	● 3008462891
AL	T	L	Rows		Brass Coated Steel crimped 0.30	Brass crimped 0.30	
140	25	265	1	24	● 0008462091	● 0008462591	



Appearance can vary from picture depending on variant.



EUMBHB005 | SUPERIOR ★★★★★☆

Hand brushes, wooden body

Hand brush with wooden body, industrial quality.

- For general use
- Practical pin hole, perfect for workshops
- Diverse selection of trim materials
- Handle made of beech wood

Application: Paint removal, rust removal, cleaning.

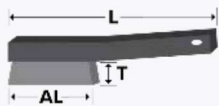
AL	T	L	Rows		Steel crimped 0.30	Steel straight 0.35	Steel straight 1.20	Stainless Steel crimped 0.30
135	25	295	4	12			● 0003151124	
145	25	285	2	12		● 0001152132		● 0001151392
145	25	285	2	100		● 0001151132		
145	25	285	3	12		● 0001152133		● 0001151393
145	25	285	3	100		● 0001151133		
145	25	285	4	12	● 0001151194	● 0001152134		● 0001151394
145	25	285	4	100		● 0001151134		
145	25	285	5	12		● 0001152135	● 0001151125	● 0001151395
145	25	285	5	100		● 0001151135		
145	25	285	6	100		● 0001151136		
145	25	295	6	12		● 0001152136		● 0001151396

AL	T	L	Rows		Stainless Steel straight 0.30	Stainless Steel straight 0.35	Brass Coated Steel straight 0.35	Brass 0.15
145	25	285	2	12	● 0001152332		● 0001152022	
145	25	285	3	12	● 0001152333		● 0001152023	
145	25	285	4	12	● 0001152334	● 0001151334	● 0001152024	
145	25	285	5	12	● 0001152335		● 0001152025	
145	25	290	2	12		● 0001151332		
145	25	290	3	12		● 0001151333		
145	25	290	5	12		● 0001151335		● 0003147575
145	25	295	6	12			● 0001152026	

AL	T	L	Rows		Brass crimped 0.15	Brass crimped 0.30	Brass straight 0.30
145	25	285	2	12		● 0001150592	● 0001158522
145	25	285	3	12		● 0001150593	● 0001158523
145	25	285	4	12		● 0001150594	● 0001158524
145	25	285	5	12		● 0001150595	● 0001158525
145	25	290	3	12	● 0003147573		
145	25	290	4	12	● 0003147574		
145	25	290	6	12		● 0001150596	



Appearance can vary from picture depending on variant.



EUMBHB007 | SUPERIOR ★★★★★☆

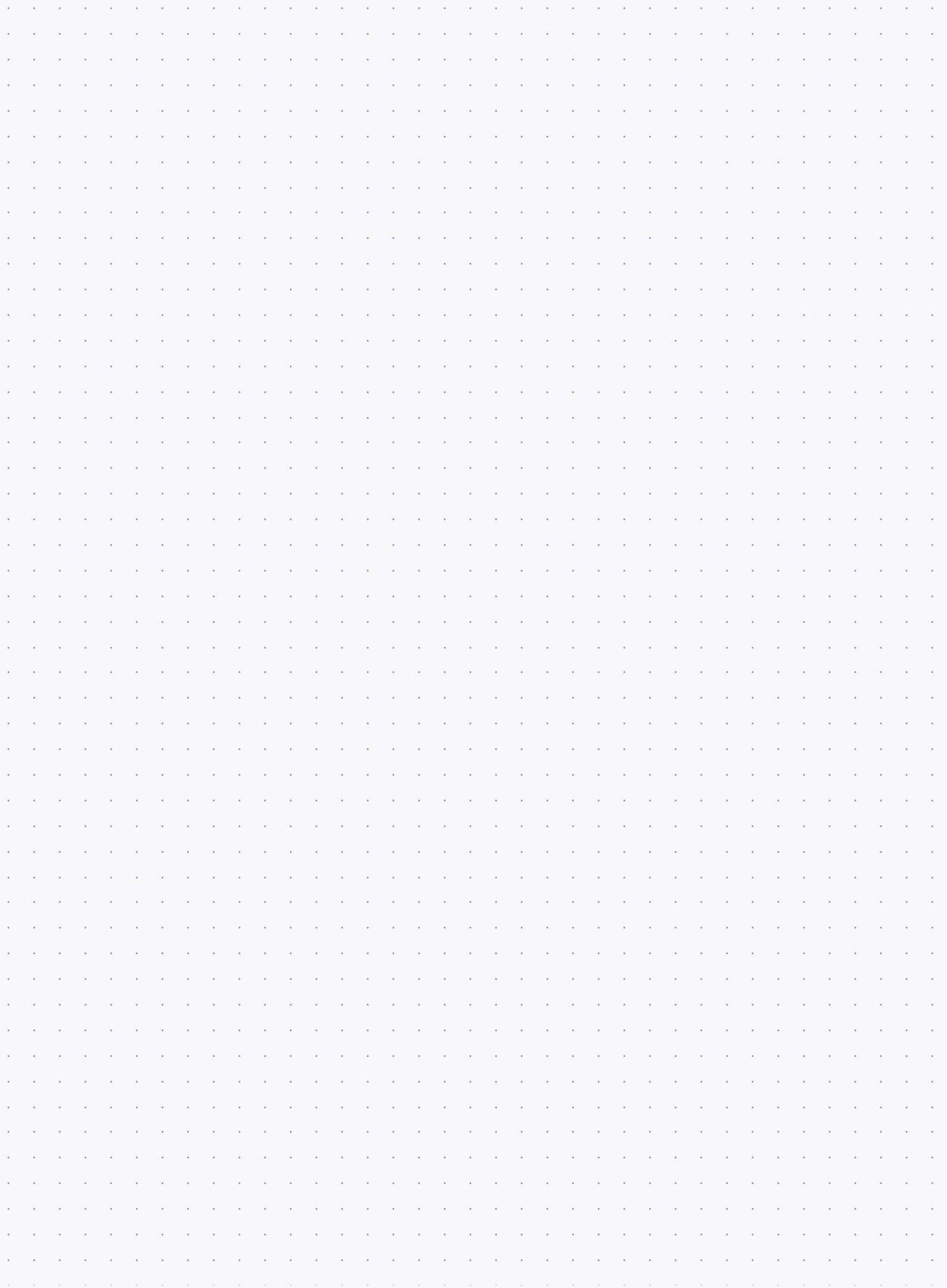
Fillet weld brushes, wooden body

Fillet weld brush with wooden body, industrial quality.

- Osborn Topseller
- V-shaped trim for reaching deep weld and fillet seams
- For pinpoint work
- Practical pin hole, perfect for workshops

Application: Cleaning of deep weld seams (suitable from root seams to fill layers)

AL	T	L	Rows		Steel 0.35	Stainless Steel 0.35
145	35	285	3	12	● 0003162133	● 0003162333
145	35	295	3	12	● 3333162133	





Tools for Weld Finish

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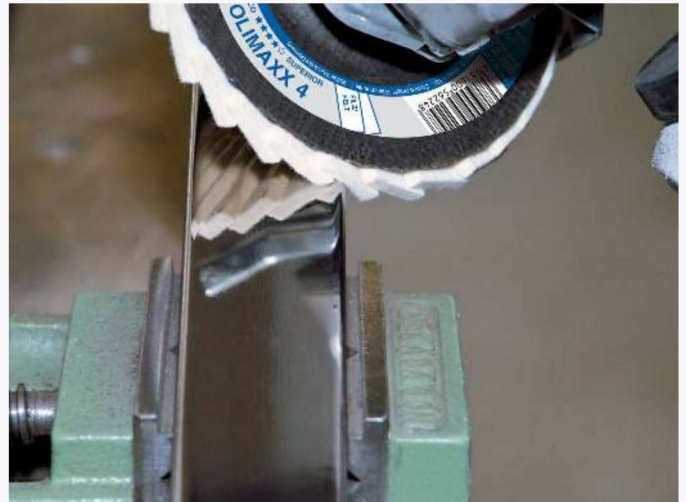
Weld Finish

After levelling the last welding layer, you can work on finishing the welded workpiece. Here, the surface in the area around the leveled top layer is adjusted so that everything is even and the entire area appears as if it were "cast in one piece".

It is possible to satin finish the surface or to bring it to a high gloss. It is important to always work with the tools gradually from coarse to fine.

Which Tool Is Used for Finsihing?

Satin finishes are achieved, for example, with our abrasive fleece discs Polimaxx 2 and 3. As a rule, only one work step per disc is necessary here. A smooth, or even high-gloss surface can be created with non-abrasive fleece in combination with polishing compounds. Polimaxx 4, a gloss polishing flap disc, is suitable for this.

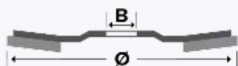


Our Recommendation for Weld Finishing

Workpiece Material	Application	Characteristics	Drive Type	Product ID	Item Number	
Steel, Stainless Steel	Finishing	Satin finishing of the weld area, slight material removal	Angle Grinder 115	EUGMFD013	5541204100	
				EUGMFD014	5541206100	
	Polishing	Fine grinding of the weld joint, low material removal Polishing disc for finishing with polishing paste		EUGMFD015	5541207100	
				EUPOFD001	5541220100	
	Finishing	Satin finishing of the weld area, slight material removal Fine grinding of the weld joint, low material removal		Angle Grinder 125	EUGMFD013	5542204100
					EUGMFD014	5542206100
	Polishing	Polishing disc for finishing with polishing paste	EUGMFD015		5542207100	
			EUPOFD001		5542220100	
	Finishing	Satin set, finishing the welded joint	Power Drill	EUPOKT006	7903600004	
				EUPOKT011	8603600004	
Polishing set, finishing the welded joint		EUPOKT005		8603600006		
		EUPOKT010		8603600010		



Appearance can vary from picture depending on variant.



EUGMFD013 | SUPERIOR ★★★★★☆

Polimaxx 1 - coarse

Fleece flap disc with coarse fleece texture (slight machining effect).

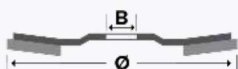
- For descaling and derusting workpieces, preparing welding seams, smoothing welding seam flaking, sanding very fine welding seams, removing weld spatters.
- Polimaxx 1 flap discs are also available in sets with Polimaxx 2 and 3 discs.

Application: Universally applicable for stainless steel, steel, aluminium and non-ferrous metals.

Ø	B	nmax. 1/min		tapered 80
115	22.23	13300	10	● 5541204100
125	22.23	12250	10	● 5542204100



Appearance can vary from picture depending on variant.



EUGMFD014 | SUPERIOR ★★★★★☆

Polimaxx 2 - medium

Fleece flap disc with medium fleece texture (no machining effect).

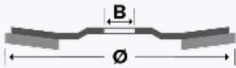
- For descaling and derusting workpieces, removing paints and varnishes, preparing surfaces for painting, matting of V2A welding seams or surfaces. Removing oxide films and thermal discolouration.
- Polimaxx 2 flap discs are also available in sets with Polimaxx 1 and 3 discs.

Application: Universally applicable for stainless steel, steel, aluminium and non-ferrous metals.

Ø	B	nmax. 1/min		tapered 120
115	22.23	13300	10	● 5541206100
125	22.23	12250	10	● 5542206100



Appearance can vary from picture depending on variant.



EUGMFD015 | SUPERIOR ★★☆☆☆

Polimaxx 3 - fine

Fleece flap disc with fine fleece texture (no machining effect).

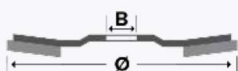
- Universally applicable for stainless steel, steel, aluminium and non-ferrous metals.
- Polimaxx 3 flap discs are also available in sets with Polimaxx 1 and 2 discs.

Application: For preparing and re-polishing welding seams, sanding fine welding seams, matting of surfaces, removing oxide films, thermal discolouration or thin layers of varnish on metals, polishing stainless steel.

Ø	B	nmax. 1/min		tapered 280
115	22.23	13300	10	● 5541207100
125	22.23	12250	10	● 5542207100



Appearance can vary from picture depending on variant.



EUPOFD001 | SUPERIOR ★★★★★☆

Polimaxx 4 - gloss

The gloss polishing flap disc for angle grinders is equipped with lamellas made of a special high-quality felt.

- Please use with polishing compounds
- Gives a mirror finish

Application: Universally applicable for stainless steel, steel, aluminium and non-ferrous metals.

Please note: Please use a separate flap disc for each polishing compound.

High-gloss polishing of metals in conjunction with polishing compounds.

Our application recommendation:

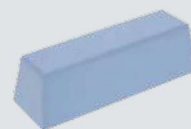
- First prepare the workpiece with Polimaxx polishing flap discs in a 1–3 structure
- The Polimaxx 4 gloss polishing disc is always used with an appropriate polishing compound
- Start with a pre-polishing compound (e.g. white for stainless steel or brown for non-ferrous metals)
- Then use a high-gloss polishing compound (e.g. blue) to achieve a high-gloss surface
- You should ideally use a variable-speed angle grinder. A reduced working speed of 4,500 rpm achieves better polishing results than using the angle grinder at full speed



White compound: Pre-polish for stainless steel

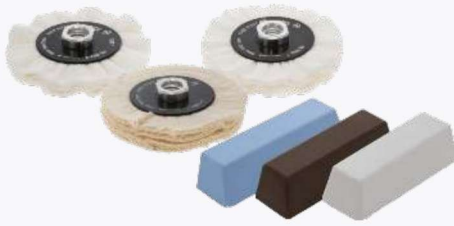


Brown compound: Pre-polish for non-ferrous metals



Blue compound: Gloss polish for stainless and non-ferrous metals

Ø	B	nmax. 1/min		tapered
115	22.23	13300	10	● 5541220100
125	22.23	12250	10	● 5542220100



Appearance can vary from picture depending on variant.

EUPOKT005 | SUPERIOR ★★★★★☆

Polishing kit, 6 pc.

Perfectly matched 6 pc. kit for working on steel/stainless, brass, copper and aluminium. Diameter 100 mm with M14 thread for easy mounting on variable-speed angle grinders and cordless tools.

- Sisal/Cloth folded buff for cutting
- NOTIFLEX fleece hard folded buff for polishing
- NOTIFLEX fleece soft for colouring
- Matching Compounds for cutting, polishing and colouring

Application: For cutting, polishing and colouring

Products included		Item Number
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Appearance can vary from picture depending on variant.

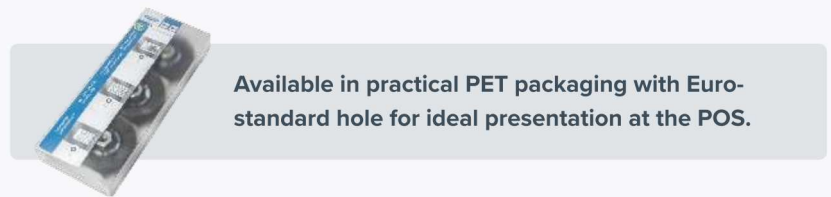
EUPOKT006 | SUPERIOR ★★★★★☆

LIPPRITE® 3-pc. satinising kit for metal

Perfectly matched 3 pc. kit for working on steel/stainless and aluminium. For easy mounting on variable speed angle grinders and cordless power tools.

- 1 LIPPRITE® non-woven folded buff medium/fine/very fine

Application: For satin finishing stainless steel/steel and aluminium.



Available in practical PET packaging with Euro-standard hole for ideal presentation at the POS.

Products included		Item Number
1x abrasive non-woven buff, medium 1x abrasive non-woven buff, fine 1x abrasive non-woven buff, very fine	6	● 7903600004



Appearance can vary from picture depending on variant.



EUPOKT010 | SUPERIOR ★★★★★☆

Polishing kit, 10 pc.

Perfectly matched 10 pc. kit for working on steel, stainless, brass, copper, aluminium. Diameter 100 mm with bore 10 mm for easy mounting on power drills.

- Folded buffs sisal/cloth for cutting folded buffs tapered shank, Ø 6 m
- Folded buffs NOTIFLEX® hard for polishing
- Folded buffs NOTIFLEX® soft for colouring
- Matching polishing compounds for different materials and applications
- Tapered shank for direct adaptation

Application: For cutting, polishing and colouring of steel/stainless steel, brass, copper and aluminium.

Products included		Item Number
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Appearance can vary from picture depending on variant.



EUPOKT011 | SUPERIOR ★★★★★☆

Satinising kit, 4 pc.

Perfectly tailored 4-part kit for satin finishing (stainless) steel and aluminium. Diameter 100 mm with bore 10 and tapered shank for easy fitting onto power drills.

- Non-woven abrasive buffs with different densities
- Tapered shank for direct adaptation

Application: Satinising of steel, stainless steel and aluminium.

Products included		Item Number
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0			
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